con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

July 31, 2018

Keith Decker
Land Remediation
74 Hudson River Road
Waterford, NY 12188

Project Location: Saranac Lake
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 18G1175

Enclosed are results of analyses for samples received by the laboratory on July 27, 2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Aaron L. Benoit
Project Manager

Table of Contents

Sample Summary 3

Case Narrative 4

Sample Results 5

18G1175-01 5

Sample Preparation Information 7

QC Data 8

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) 8

B208959 8

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Dissolved) 9

B208958 9

Flag/Qualifier Summary 10

Certifications 11

Chain of Custody/Sample Receipt 12

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Land Remediation
74 Hudson River Road
Waterford, NY 12188
ATTN: Keith Decker

REPORT DATE: 7/31/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18G1175

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Saranac Lake

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
OU2-WWTP-EFF01	18G1175-01	Waste Water		SM21-22 2540C SM21-22 2540D	

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Lisa A. Worthington
Project Manager

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake | Sample Description: | Work Order: 18G1175

Date Received: 7/27/2018

Field Sample #: OU2-WWTP-EFF01 | Sampled: 7/26/2018 17:00

Sample ID: 18G1175-01

Sample Matrix: Waste Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Suspended Solids	ND	2.0	mg/L	1		SM21-22 2540D	7/30/18	7/30/18 7:55	LL

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake | Sample Description: | Work Order: 18G1175

Date Received: 7/27/2018

Field Sample #: OU2-WWTP-EFF01 | Sampled: 7/26/2018 17:00

Sample ID: 18G1175-01

Sample Matrix: Waste Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Dissolved)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Dissolved Solids	830	10	mg/L	1		SM21-22 2540C	7/30/18	7/30/18 13:00	LL

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

SM21-22 2540C

Lab Number [Field ID]	Batch	Initial [mL]	Date
18G1175-01 [OU2-WWTP-EFF01]	B208958	50.0	07/30/18

SM21-22 2540D

Lab Number [Field ID]	Batch	Initial [mL]	Date
18G1175-01 [OU2-WWTP-EFF01]	B208959	250	07/30/18

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B208959 - SM21-22 2540D										
Blank (B208959-BLK1)				Prepared & Analyzed: 07/30/18						
Total Suspended Solids	ND	2.5	mg/L							
LCS (B208959-BS1)				Prepared & Analyzed: 07/30/18						
Total Suspended Solids	154	10	mg/L	200		77.0	64.3-117			

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Dissolved) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B208958 - SM21-22 2540C										
Blank (B208958-BLK1)				Prepared & Analyzed: 07/30/18						
Total Dissolved Solids	ND	10	mg/L							
LCS (B208958-BS1)				Prepared & Analyzed: 07/30/18						
Total Dissolved Solids	210	10	mg/L	293		72.4	61.4-114			
Duplicate (B208958-DUP1)	**Source: 18G1175-01**			Prepared & Analyzed: 07/30/18						
Total Dissolved Solids	800	10	mg/L		830			2.94	5	

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level

Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.

No results have been blank subtracted unless specified in the case narrative section.

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SM21-22 2540C in Water	
Total Dissolved Solids	CT,MA,NH,NY,RI,NC,ME,VA
SM21-22 2540D in Water	
Total Suspended Solids	CT,MA,NH,NY,RI,NC,ME,VA

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	03/1/2020
MA	Massachusetts DEP	M-MA100	06/30/2019
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2019
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2019
RI	Rhode Island Department of Health	LAO00112	12/30/2018
NC	North Carolina Div. of Water Quality	652	12/31/2018
NJ	New Jersey DEP	MA007 NELAP	06/30/2019
FL	Florida Department of Health	E871027 NELAP	06/30/2019
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2019
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2018
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2018
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2019
NC-DW	North Carolina Department of Health	25703	07/31/2019

con-test ANALYTICAL LABORATORY

18G1175

http://www.contestlabs.com

Doc # 380 Rev 1_03242017

CHAIN OF CUSTODY RECORD (New York)

Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com

39 Spruce Street
East Longmeadow, MA 01028

Company Name:	LAND Remediation
Address:	74 Hudson River Road Waterford, New York 12188
Phone:	518-766-4105
Project Name:	NYSDEC Saranac Lake Gas Co.
Project Location:	Saranac Lake OU_3 /2
Project Number:	-
Project Manager:	Matthew Warren
Con-Test Quote Name/Number:	
Invoice Recipient:	mjw@land-remediation.com
Sampled By:	J.Leverett

Requested Turnaround Time
7-Day ☐ 10-Day ☐
Due Date:

Rush Approval Required
1-Day ☑ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
CLP Like Data Pkg Required: ☐
Email To: mjw@land-remediation.com
Fax To #: JKL@land-remediation.com

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code
	OU3-WC09-7.5'-S	7/26/2018 11:44	7/26/2018 11:45	x		S	M
	OU2-WWTP-EFF01	7/26/2018 0:00	7/26/2018 0:00	x		WW	L

	8	1	1	1	2	2	3	2	1	1	# of Containers
	-		-	-	S		H	-	N	-	[2] Preservation Code
	A	P	P	P	A	A	V	A	P	P	[3] Container Code

ANALYSIS REQUESTED

Sulfur %	Sulfate - ASTM D516	BOD-5	TDS	TSS	Oil and Grease	SVOCs	VOCs	PCB / Pest	Metals (PB, Zn, Cr)	pH
x	x									
		x	x	x	x	x	x	x	x	x

Dissolved Metals Samples
☐ Field Filtered
☐ Lab to Filter

Orthophosphate Samples
☐ Field Filtered
☐ Lab to Filter

[1] Matrix Codes:
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define)

[2] Preservation Codes:
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

[3] Container Codes:
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Comments:

Sulfur/Sulfates analysis for WM

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time: 7/26/2018
Received by: (signature)	Date/Time: 7-27-18 8:30 AM
Relinquished by: (signature)	Date/Time: 7-27-18 12:15 PM
Received by: (signature)	Date/Time: 7/27/18 12:40
Relinquished by: (signature)	Date/Time: 7/27/18 3:40
Received by: (signature) 2.3	Date/Time: 7-27-18 15:40

Program & Regulatory Information
☐ AWQ STDS ☐ NY TOGS
☐ NYC Sewer Discharge ☐ NY CP-51
☐ Part 360 GW (Landfill)
☐ NY Restricted Use
☐ NY Unrestricted Use
☐ NY Part 375

Deliverables
☐ Enhanced Data Package
☐ NYSDEC EQuIS EDD
☐ EQuIS (Standard) EDD
☐ NY Regulatory EDD
☐ NY Regs Hits-Only EDD

Other:

Other:
NELAC and AIHA-LAP,LLC Accredited

Project Entity
☑ Government ☐ Municipality ☐ MWRA ☐ WRTA
☐ Federal ☐ 21 J ☐ School
☐ City ☐ Brownfield ☐ MBTA

Other
☐ Chromatogram
☐ AIHA-LAP,LLC

PCB ONLY
☐ Soxhlet
☐ Non Soxhlet

Table of Contents

con-test® ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client LAND Remediation

Received By ESO Date 2-23-18 Time 15:40

How were the samples received? In Cooler T No Cooler ____ On Ice T No Ice ____

Direct from Sampling ____ Ambient ____ Melted Ice ____

By Gun # 7 Actual Temp - 23

Were samples within Temperature? 2-6°C T By Blank # ____ Actual Temp - ____

Was Custody Seal Intact? NA Were Samples Tampered with? NA

Was COC Relinquished ? T Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? T Were samples received within holding time? T

Did COC include all pertinent Information? Client T Analysis T Sampler Name T

Project T ID's T Collection Dates/Times T

Are Sample labels filled out and legible? (T) F T

Are there Lab to Filters? F

Are there Rushes? T Who was notified? ____

Are there Short Holds? F Who was notified? Luke

Is there enough Volume? T Who was notified? ____

Is there Headspace where applicable? F

Proper Media/Containers Used? T MS/MSD? F

Were trip blanks received? F Is splitting samples required? ____

Do all samples have the proper pH? On COC? F

Acid ____ Base ____

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic	1	8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Comments:

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

August 3, 2018

Keith Decker
Land Remediation
74 Hudson River Road
Waterford, NY 12188

Project Location: Saranac Lake
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 18H0094

Enclosed are results of analyses for samples received by the laboratory on August 2, 2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Aaron L. Benoit
Project Manager

Table of Contents

Sample Summary 4

Case Narrative 5

Sample Results 6

18H0094-01 6

18H0094-02 11

Sample Preparation Information 13

QC Data 14

Volatile Organic Compounds by GC/MS 14

B209441 14

Volatile Organic Compounds by GC/MS 15

B209439 15

Semivolatile Organic Compounds by GC/MS 16

B209339 16

Organochloride Pesticides by GC/ECD 18

B209399 18

Polychlorinated Biphenyls By GC/ECD 19

B209398 19

Metals Analyses (Total) 20

B209348 20

B209349 20

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) 21

B209412 21

Pesticides Degradation Report 22

Dual Column RPD Report 23

Flag/Qualifier Summary 27

Table of Contents (continued)

Certifications 28

Chain of Custody/Sample Receipt 30

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Land Remediation
74 Hudson River Road
Waterford, NY 12188
ATTN: Keith Decker

REPORT DATE: 8/3/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18H0094

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Saranac Lake

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
OU2-WWTP-EFF02	18H0094-01	Water		EPA 200.7	
				EPA 200.8	
				EPA 608.3	
				SM21-22 4500 H B	
				SW-846 8270D	
OU2-WWTP-EFF02	18H0094-02	Water		EPA 624.1	
				SW-846 8260C	

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

For method 8270, only PAHs were requested and reported.

SM21-22 4500 H B

Qualifications:

H-05

Holding time was exceeded. pH analysis should be performed immediately at time of sampling. Nominal 15 minute holding time was exceeded.

Analyte & Samples(s) Qualified:

pH

18H0094-01[OU2-WWTP-EFF02], B209412-DUP1

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Lisa A. Worthington
Project Manager

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake | Sample Description: | Work Order: 18H0094

Date Received: 8/2/2018

Field Sample #: OU2-WWTP-EFF02

Sample ID: 18H0094-01 | Start Date/Time: 8/1/2018 3:57:00PM

Sample Matrix: Water | Stop Date/Time: 8/1/2018 4:15:00PM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene (SIM)	ND	0.30	0.060	µg/L	1		SW-846 8270D	8/2/18	8/3/18 12:27	IMR
Acenaphthylene (SIM)	ND	0.20	0.050	µg/L	1		SW-846 8270D	8/2/18	8/3/18 12:27	IMR
Anthracene (SIM)	ND	0.20	0.040	µg/L	1		SW-846 8270D	8/2/18	8/3/18 12:27	IMR
Benzo(a)anthracene (SIM)	ND	0.050	0.050	µg/L	1		SW-846 8270D	8/2/18	8/3/18 12:27	IMR
Benzo(a)pyrene (SIM)	ND	0.10	0.040	µg/L	1		SW-846 8270D	8/2/18	8/3/18 12:27	IMR
Benzo(b)fluoranthene (SIM)	ND	0.050	0.020	µg/L	1		SW-846 8270D	8/2/18	8/3/18 12:27	IMR
Benzo(g,h,i)perylene (SIM)	ND	0.50	0.070	µg/L	1		SW-846 8270D	8/2/18	8/3/18 12:27	IMR
Benzo(k)fluoranthene (SIM)	ND	0.040	0.020	µg/L	1		SW-846 8270D	8/2/18	8/3/18 13:25	IMR
Chrysene (SIM)	ND	0.20	0.030	µg/L	1		SW-846 8270D	8/2/18	8/3/18 12:27	IMR
Dibenz(a,h)anthracene (SIM)	ND	0.10	0.040	µg/L	1		SW-846 8270D	8/2/18	8/3/18 12:27	IMR
Fluoranthene (SIM)	ND	0.50	0.030	µg/L	1		SW-846 8270D	8/2/18	8/3/18 12:27	IMR
Fluorene (SIM)	ND	1.0	0.040	µg/L	1		SW-846 8270D	8/2/18	8/3/18 12:27	IMR
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.10	0.080	µg/L	1		SW-846 8270D	8/2/18	8/3/18 12:27	IMR
Naphthalene (SIM)	ND	1.0	0.070	µg/L	1		SW-846 8270D	8/2/18	8/3/18 12:27	IMR
Phenanthrene (SIM)	ND	0.050	0.040	µg/L	1		SW-846 8270D	8/2/18	8/3/18 12:27	IMR
Pyrene (SIM)	ND	1.0	0.030	µg/L	1		SW-846 8270D	8/2/18	8/3/18 12:27	IMR

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	86.4	30-130		8/3/18 12:27
Nitrobenzene-d5	65.5	30-130		8/3/18 13:25
2-Fluorobiphenyl	79.5	30-130		8/3/18 12:27
2-Fluorobiphenyl	48.6	30-130		8/3/18 13:25
p-Terphenyl-d14	82.2	30-130		8/3/18 12:27
p-Terphenyl-d14	57.3	30-130		8/3/18 13:25

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake | Sample Description: | Work Order: 18H0094

Date Received: 8/2/2018

Field Sample #: OU2-WWTP-EFF02

Sample ID: 18H0094-01 | Start Date/Time: 8/1/2018 3:57:00PM

Sample Matrix: Water | Stop Date/Time: 8/1/2018 4:15:00PM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Endosulfan I [1]	ND	0.010	0.00042	µg/L	1		EPA 608.3	8/2/18	8/3/18 9:40	TG
Heptachlor epoxide [1]	ND	0.010	0.00080	µg/L	1		EPA 608.3	8/2/18	8/3/18 9:40	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	87.9	30-150		8/3/18 9:40
Decachlorobiphenyl [2]	71.8	30-150		8/3/18 9:40
Tetrachloro-m-xylene [1]	74.7	30-150		8/3/18 9:40
Tetrachloro-m-xylene [2]	60.8	30-150		8/3/18 9:40

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake | Sample Description: | Work Order: 18H0094

Date Received: 8/2/2018

Field Sample #: OU2-WWTP-EFF02

Sample ID: 18H0094-01 | Start Date/Time: 8/1/2018 3:57:00PM

Sample Matrix: Water | Stop Date/Time: 8/1/2018 4:15:00PM

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.040	0.037	µg/L	1		EPA 608.3	8/2/18	8/3/18 9:33	KAL
Aroclor-1221 [1]	ND	0.040	0.032	µg/L	1		EPA 608.3	8/2/18	8/3/18 9:33	KAL
Aroclor-1232 [1]	ND	0.040	0.040	µg/L	1		EPA 608.3	8/2/18	8/3/18 9:33	KAL
Aroclor-1242 [1]	ND	0.040	0.035	µg/L	1		EPA 608.3	8/2/18	8/3/18 9:33	KAL
Aroclor-1248 [1]	ND	0.040	0.038	µg/L	1		EPA 608.3	8/2/18	8/3/18 9:33	KAL
Aroclor-1254 [1]	ND	0.040	0.021	µg/L	1		EPA 608.3	8/2/18	8/3/18 9:33	KAL
Aroclor-1260 [1]	ND	0.040	0.039	µg/L	1		EPA 608.3	8/2/18	8/3/18 9:33	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	103	30-150		8/3/18 9:33
Decachlorobiphenyl [2]	82.8	30-150		8/3/18 9:33
Tetrachloro-m-xylene [1]	90.2	30-150		8/3/18 9:33
Tetrachloro-m-xylene [2]	74.9	30-150		8/3/18 9:33

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake | Sample Description: | Work Order: 18H0094

Date Received: 8/2/2018

Field Sample #: OU2-WWTP-EFF02

Sample ID: 18H0094-01 | Start Date/Time: 8/1/2018 3:57:00PM

Sample Matrix: Water | Stop Date/Time: 8/1/2018 4:15:00PM

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Chromium	ND	0.0070	0.0061	mg/L	1		EPA 200.7	8/2/18	8/3/18 10:21	QNW
Lead	0.27	0.50	0.14	µg/L	1	J	EPA 200.8	8/2/18	8/3/18 8:25	MJH
Zinc	ND	0.010	0.0052	mg/L	1		EPA 200.7	8/2/18	8/3/18 10:21	QNW

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake | Sample Description: | Work Order: 18H0094

Date Received: 8/2/2018

Field Sample #: OU2-WWTP-EFF02

Sample ID: 18H0094-01 | Start Date/Time: 8/1/2018 3:57:00PM

Sample Matrix: Water | Stop Date/Time: 8/1/2018 4:15:00PM

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
pH @21.6°C	11		pH Units	1	H-05	SM21-22 4500 H B	8/2/18	8/2/18 20:19	AIA

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake | Sample Description: | Work Order: 18H0094

Date Received: 8/2/2018

Field Sample #: OU2-WWTP-EFF02

Sample ID: 18H0094-02 | Start Date/Time: 8/1/2018 3:57:00PM

Sample Matrix: Water | Stop Date/Time: 8/1/2018 4:15:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Isopropylbenzene (Cumene)	0.12	1.0	0.12	µg/L	1	J	SW-846 8260C	8/3/18	8/3/18 9:58	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	95.8	70-130		8/3/18 9:58
Toluene-d8	96.6	70-130		8/3/18 9:58
4-Bromofluorobenzene	95.7	70-130		8/3/18 9:58

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake | Sample Description: | Work Order: 18H0094

Date Received: 8/2/2018

Field Sample #: OU2-WWTP-EFF02

Sample ID: 18H0094-02 | Start Date/Time: 8/1/2018 3:57:00PM

Sample Matrix: Water | Stop Date/Time: 8/1/2018 4:15:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	1.0	0.34	µg/L	1		EPA 624.1	8/3/18	8/3/18 9:58	LBD
Ethylbenzene	ND	2.0	0.37	µg/L	1		EPA 624.1	8/3/18	8/3/18 9:58	LBD
1,2,4-Trimethylbenzene	ND	1.0	0.34	µg/L	1		EPA 624.1	8/3/18	8/3/18 9:58	LBD
Xylenes (total)	ND	3.0		µg/L	1		EPA 624.1	8/3/18	8/3/18 9:58	LBD
m+p Xylene	ND	2.0	0.65	µg/L	1		EPA 624.1	8/3/18	8/3/18 9:58	LBD
o-Xylene	ND	2.0	0.35	µg/L	1		EPA 624.1	8/3/18	8/3/18 9:58	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual		
1,2-Dichloroethane-d4	95.8	70-130		8/3/18 9:58	
Toluene-d8	96.6	70-130		8/3/18 9:58	
4-Bromofluorobenzene	95.7	70-130		8/3/18 9:58	

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: EPA 200.7-EPA 200.7

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18H0094-01 [OU2-WWTP-EFF02]	B209348	50.0	50.0	08/02/18

Prep Method: EPA 200.8-EPA 200.8

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18H0094-01 [OU2-WWTP-EFF02]	B209349	50.0	50.0	08/02/18

Prep Method: SW-846 3510C-EPA 608.3

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18H0094-01 [OU2-WWTP-EFF02]	B209398	1000	2.00	08/02/18

Prep Method: SW-846 3510C-EPA 608.3

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18H0094-01 [OU2-WWTP-EFF02]	B209399	1000	2.00	08/02/18

Prep Method: SW-846 5030B-EPA 624.1

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18H0094-02 [OU2-WWTP-EFF02]	B209439	5	5.00	08/03/18

SM21-22 4500 H B

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18H0094-01 [OU2-WWTP-EFF02]	B209412	50.0		08/02/18

Prep Method: SW-846 5030B-SW-846 8260C

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18H0094-02 [OU2-WWTP-EFF02]	B209441	5	5.00	08/03/18

Prep Method: SW-846 3510C-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18H0094-01 [OU2-WWTP-EFF02]	B209339	1000	1.00	08/02/18
18H0094-01RE1 [OU2-WWTP-EFF02]	B209339	1000	0.200	08/02/18

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B209441 - SW-846 5030B										
Blank (B209441-BLK1)				Prepared & Analyzed: 08/03/18						
Isopropylbenzene (Cumene)	ND	1.0	µg/L							
Surrogate: 1,2-Dichloroethane-d4	*23.9*		µg/L	25.0		95.5	70-130			
Surrogate: Toluene-d8	*23.6*		µg/L	25.0		94.2	70-130			
Surrogate: 4-Bromofluorobenzene	*23.9*		µg/L	25.0		95.5	70-130			
LCS (B209441-BS1)				Prepared & Analyzed: 08/03/18						
Isopropylbenzene (Cumene)	24.1	1.0	µg/L	20.0		120	70-130			
Surrogate: 1,2-Dichloroethane-d4	*23.0*		µg/L	25.0		91.8	70-130			
Surrogate: Toluene-d8	*24.3*		µg/L	25.0		97.2	70-130			
Surrogate: 4-Bromofluorobenzene	*25.1*		µg/L	25.0		100	70-130			
LCS Dup (B209441-BSD1)				Prepared & Analyzed: 08/03/18						
Isopropylbenzene (Cumene)	23.9	1.0	µg/L	20.0		119	70-130	0.917	25	
Surrogate: 1,2-Dichloroethane-d4	*22.7*		µg/L	25.0		90.6	70-130			
Surrogate: Toluene-d8	*24.2*		µg/L	25.0		97.0	70-130			
Surrogate: 4-Bromofluorobenzene	*24.9*		µg/L	25.0		99.8	70-130			

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B209439 - SW-846 5030B										
Blank (B209439-BLK1)				Prepared & Analyzed: 08/03/18						
Benzene	ND	1.0	µg/L							
Ethylbenzene	ND	2.0	µg/L							
1,2,4-Trimethylbenzene	ND	1.0	µg/L							
Xylenes (total)	ND	3.0	µg/L							
m+p Xylene	ND	2.0	µg/L							
o-Xylene	ND	2.0	µg/L							
Surrogate: 1,2-Dichloroethane-d4	*23.9*		µg/L	25.0		95.5	70-130			
Surrogate: Toluene-d8	*23.6*		µg/L	25.0		94.2	70-130			
Surrogate: 4-Bromofluorobenzene	*23.9*		µg/L	25.0		95.5	70-130			
LCS (B209439-BS1)				Prepared & Analyzed: 08/03/18						
Benzene	22.9	1.0	µg/L	20.0		114	65-135			
Ethylbenzene	25.2	2.0	µg/L	20.0		126	60-140			
1,2,4-Trimethylbenzene	22.0	1.0	µg/L	20.0		110	70-130			
m+p Xylene	49.8	2.0	µg/L	40.0		125	70-130			
o-Xylene	23.9	2.0	µg/L	20.0		119	70-130			
Surrogate: 1,2-Dichloroethane-d4	*22.7*		µg/L	25.0		90.6	70-130			
Surrogate: Toluene-d8	*24.2*		µg/L	25.0		97.0	70-130			
Surrogate: 4-Bromofluorobenzene	*24.9*		µg/L	25.0		99.8	70-130			

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B209339 - SW-846 3510C										
Blank (B209339-BLK1)				Prepared: 08/02/18 Analyzed: 08/03/18						
Acenaphthene (SIM)	ND	0.30	µg/L							
Acenaphthylene (SIM)	ND	0.20	µg/L							
Anthracene (SIM)	ND	0.20	µg/L							
Benzo(a)anthracene (SIM)	ND	0.050	µg/L							
Benzo(a)pyrene (SIM)	ND	0.10	µg/L							
Benzo(b)fluoranthene (SIM)	ND	0.050	µg/L							
Benzo(g,h,i)perylene (SIM)	ND	0.50	µg/L							
Chrysene (SIM)	ND	0.20	µg/L							
Dibenz(a,h)anthracene (SIM)	ND	0.10	µg/L							
Fluoranthene (SIM)	ND	0.50	µg/L							
Fluorene (SIM)	ND	1.0	µg/L							
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.10	µg/L							
Naphthalene (SIM)	ND	1.0	µg/L							
Phenanthrene (SIM)	ND	0.050	µg/L							
Pyrene (SIM)	ND	1.0	µg/L							
Surrogate: Nitrobenzene-d5	*81.2*		µg/L	100		81.2	30-130			
Surrogate: 2-Fluorobiphenyl	*81.0*		µg/L	100		81.0	30-130			
Surrogate: p-Terphenyl-d14	*86.5*		µg/L	100		86.5	30-130			
Blank (B209339-BLK2)				Prepared: 08/02/18 Analyzed: 08/03/18						
Benzo(k)fluoranthene (SIM)	ND	0.040	µg/L							
Surrogate: Nitrobenzene-d5	*68.2*		µg/L	100		68.2	30-130			
Surrogate: 2-Fluorobiphenyl	*55.5*		µg/L	100		55.5	30-130			
Surrogate: p-Terphenyl-d14	*68.3*		µg/L	100		68.3	30-130			
LCS (B209339-BS1)				Prepared: 08/02/18 Analyzed: 08/03/18						
Acenaphthene (SIM)	35.6	7.5	µg/L	50.0		71.3	40-140			
Acenaphthylene (SIM)	37.0	5.0	µg/L	50.0		73.9	40-140			
Anthracene (SIM)	38.4	5.0	µg/L	50.0		76.8	40-140			
Benzo(a)anthracene (SIM)	39.1	1.2	µg/L	50.0		78.2	40-140			
Benzo(a)pyrene (SIM)	41.1	2.5	µg/L	50.0		82.2	40-140			
Benzo(b)fluoranthene (SIM)	42.4	1.2	µg/L	50.0		84.8	40-140			
Benzo(g,h,i)perylene (SIM)	41.4	12	µg/L	50.0		82.7	40-140			
Benzo(k)fluoranthene (SIM)	40.4	5.0	µg/L	50.0		80.8	40-140			
Chrysene (SIM)	37.3	5.0	µg/L	50.0		74.6	40-140			
Dibenz(a,h)anthracene (SIM)	42.5	2.5	µg/L	50.0		85.0	40-140			
Fluoranthene (SIM)	39.4	12	µg/L	50.0		78.8	40-140			
Fluorene (SIM)	36.8	25	µg/L	50.0		73.6	40-140			
Indeno(1,2,3-cd)pyrene (SIM)	42.9	2.5	µg/L	50.0		85.8	40-140			
Naphthalene (SIM)	32.0	25	µg/L	50.0		64.0	40-140			
Phenanthrene (SIM)	37.7	1.2	µg/L	50.0		75.4	40-140			
Pyrene (SIM)	37.4	25	µg/L	50.0		74.7	40-140			
Surrogate: Nitrobenzene-d5	*69.2*		µg/L	100		69.2	30-130			
Surrogate: 2-Fluorobiphenyl	*62.7*		µg/L	100		62.7	30-130			
Surrogate: p-Terphenyl-d14	*58.6*		µg/L	100		58.6	30-130			

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B209339 - SW-846 3510C										
LCS Dup (B209339-BSD1)				Prepared: 08/02/18 Analyzed: 08/03/18						
Acenaphthene (SIM)	35.7	7.5	µg/L	50.0		71.4	40-140	0.0701	20	
Acenaphthylene (SIM)	36.9	5.0	µg/L	50.0		73.8	40-140	0.0677	20	
Anthracene (SIM)	38.5	5.0	µg/L	50.0		77.0	40-140	0.130	20	
Benzo(a)anthracene (SIM)	39.0	1.2	µg/L	50.0		78.1	40-140	0.128	20	
Benzo(a)pyrene (SIM)	41.2	2.5	µg/L	50.0		82.4	40-140	0.243	20	
Benzo(b)fluoranthene (SIM)	42.5	1.2	µg/L	50.0		85.0	40-140	0.294	20	
Benzo(g,h,i)perylene (SIM)	41.4	12	µg/L	50.0		82.9	40-140	0.242	20	
Benzo(k)fluoranthene (SIM)	40.8	5.0	µg/L	50.0		81.6	40-140	0.986	20	
Chrysene (SIM)	37.1	5.0	µg/L	50.0		74.2	40-140	0.605	20	
Dibenz(a,h)anthracene (SIM)	42.6	2.5	µg/L	50.0		85.2	40-140	0.118	20	
Fluoranthene (SIM)	39.5	12	µg/L	50.0		79.0	40-140	0.317	20	
Fluorene (SIM)	36.7	25	µg/L	50.0		73.4	40-140	0.272	20	
Indeno(1,2,3-cd)pyrene (SIM)	43.0	2.5	µg/L	50.0		86.0	40-140	0.233	20	‡
Naphthalene (SIM)	31.8	25	µg/L	50.0		63.5	40-140	0.784	20	
Phenanthrene (SIM)	37.6	1.2	µg/L	50.0		75.3	40-140	0.0664	20	
Pyrene (SIM)	37.2	25	µg/L	50.0		74.3	40-140	0.537	20	
Surrogate: Nitrobenzene-d5	*67.6*		µg/L	100		67.6	30-130			
Surrogate: 2-Fluorobiphenyl	*61.9*		µg/L	100		61.9	30-130			
Surrogate: p-Terphenyl-d14	*57.5*		µg/L	100		57.5	30-130			

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B209399 - SW-846 3510C										
Blank (B209399-BLK1)				Prepared: 08/02/18 Analyzed: 08/03/18						
Endosulfan I	ND	0.010	µg/L							
Endosulfan I [2C]	ND	0.010	µg/L							
Heptachlor Epoxide	ND	0.010	µg/L							
Heptachlor Epoxide [2C]	ND	0.010	µg/L							
Surrogate: Decachlorobiphenyl	*1.67*		µg/L	2.00		83.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.37*		µg/L	2.00		68.7	30-150			
Surrogate: Tetrachloro-m-xylene	*1.42*		µg/L	2.00		71.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.19*		µg/L	2.00		59.6	30-150			
LCS (B209399-BS1)				Prepared: 08/02/18 Analyzed: 08/03/18						
Endosulfan I	0.85	0.050	µg/L	1.00		84.5	45-153			
Endosulfan I [2C]	0.93	0.050	µg/L	1.00		92.8	45-153			
Heptachlor Epoxide	0.85	0.050	µg/L	1.00		85.2	37-142			
Heptachlor Epoxide [2C]	0.89	0.050	µg/L	1.00		89.3	37-142			
Surrogate: Decachlorobiphenyl	*1.46*		µg/L	2.00		73.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.52*		µg/L	2.00		75.9	30-150			
Surrogate: Tetrachloro-m-xylene	*1.85*		µg/L	2.00		92.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.68*		µg/L	2.00		83.8	30-150			
LCS Dup (B209399-BSD1)				Prepared: 08/02/18 Analyzed: 08/03/18						
Endosulfan I	0.87	0.050	µg/L	1.00		87.0	45-153	2.92		
Endosulfan I [2C]	0.96	0.050	µg/L	1.00		95.5	45-153	2.84		
Heptachlor Epoxide	0.88	0.050	µg/L	1.00		88.4	37-142	3.66		
Heptachlor Epoxide [2C]	0.92	0.050	µg/L	1.00		92.3	37-142	3.29		
Surrogate: Decachlorobiphenyl	*1.62*		µg/L	2.00		80.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.69*		µg/L	2.00		84.4	30-150			
Surrogate: Tetrachloro-m-xylene	*1.88*		µg/L	2.00		93.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.81*		µg/L	2.00		90.6	30-150			

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B209398 - SW-846 3510C										
Blank (B209398-BLK1)				Prepared: 08/02/18 Analyzed: 08/03/18						
Aroclor-1016	ND	0.040	µg/L							
Aroclor-1016 [2C]	ND	0.040	µg/L							
Aroclor-1221	ND	0.040	µg/L							
Aroclor-1221 [2C]	ND	0.040	µg/L							
Aroclor-1232	ND	0.040	µg/L							
Aroclor-1232 [2C]	ND	0.040	µg/L							
Aroclor-1242	ND	0.040	µg/L							
Aroclor-1242 [2C]	ND	0.040	µg/L							
Aroclor-1248	ND	0.040	µg/L							
Aroclor-1248 [2C]	ND	0.040	µg/L							
Aroclor-1254	ND	0.040	µg/L							
Aroclor-1254 [2C]	ND	0.040	µg/L							
Aroclor-1260	ND	0.040	µg/L							
Aroclor-1260 [2C]	ND	0.040	µg/L							
Surrogate: Decachlorobiphenyl	*1.89*		µg/L	2.00		94.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.61*		µg/L	2.00		80.6	30-150			
Surrogate: Tetrachloro-m-xylene	*1.80*		µg/L	2.00		89.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.49*		µg/L	2.00		74.5	30-150			
LCS (B209398-BS1)				Prepared: 08/02/18 Analyzed: 08/03/18						
Aroclor-1016	0.51	0.20	µg/L	0.500		101	50-140			
Aroclor-1016 [2C]	0.51	0.20	µg/L	0.500		102	50-140			
Aroclor-1260	0.48	0.20	µg/L	0.500		96.4	8-140			
Aroclor-1260 [2C]	0.52	0.20	µg/L	0.500		104	8-140			
Surrogate: Decachlorobiphenyl	*1.88*		µg/L	2.00		93.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	*2.00*		µg/L	2.00		100	30-150			
Surrogate: Tetrachloro-m-xylene	*1.74*		µg/L	2.00		86.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.81*		µg/L	2.00		90.6	30-150			
LCS Dup (B209398-BSD1)				Prepared: 08/02/18 Analyzed: 08/03/18						
Aroclor-1016	0.45	0.20	µg/L	0.500		90.9	50-140	10.9		
Aroclor-1016 [2C]	0.49	0.20	µg/L	0.500		98.6	50-140	3.06		
Aroclor-1260	0.48	0.20	µg/L	0.500		95.8	8-140	0.685		
Aroclor-1260 [2C]	0.50	0.20	µg/L	0.500		101	8-140	3.21		
Surrogate: Decachlorobiphenyl	*1.85*		µg/L	2.00		92.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.97*		µg/L	2.00		98.3	30-150			
Surrogate: Tetrachloro-m-xylene	*1.74*		µg/L	2.00		87.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.82*		µg/L	2.00		90.8	30-150			

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B209348 - EPA 200.7										
Blank (B209348-BLK1)				Prepared: 08/02/18 Analyzed: 08/03/18						
Chromium	ND	0.0070	mg/L							
Zinc	ND	0.010	mg/L							
LCS (B209348-BS1)				Prepared: 08/02/18 Analyzed: 08/03/18						
Chromium	0.540	0.0070	mg/L	0.500		108	85-115			
Zinc	1.08	0.010	mg/L	1.00		108	85-115			
LCS Dup (B209348-BSD1)				Prepared: 08/02/18 Analyzed: 08/03/18						
Chromium	0.553	0.0070	mg/L	0.500		111	85-115	2.42	20	
Zinc	1.11	0.010	mg/L	1.00		111	85-115	2.73	20	
Batch B209349 - EPA 200.8										
Blank (B209349-BLK1)				Prepared: 08/02/18 Analyzed: 08/03/18						
Lead	ND	0.50	µg/L							
LCS (B209349-BS1)				Prepared: 08/02/18 Analyzed: 08/03/18						
Lead	495	5.0	µg/L	500		99.0	85-115			
LCS Dup (B209349-BSD1)				Prepared: 08/02/18 Analyzed: 08/03/18						
Lead	513	5.0	µg/L	500		103	85-115	3.62	20	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B209412 - SM21-22 4500 H B										
LCS (B209412-BS1)				Prepared & Analyzed: 08/02/18						
pH	6.03		pH Units	6.00		100	90-110			
Duplicate (B209412-DUP1)	**Source: 18H0094-01**			Prepared & Analyzed: 08/02/18						
pH	11		pH Units		11			0.273	5	H-05

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

BREAKDOWN REPORT

Lab Sample ID: **S025868-PEM1** **Analyzed:** **08/03/2018**

Column Number: **1**

Analyte	% Breakdown
4,4'-DDT [1]	5.31
Endrin [1]	3.78

Column Number: **2**

Analyte	% Breakdown
4,4'-DDT [2]	5.52
Endrin [2]	4.27

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

EPA 608.3

LCS

Lab Sample ID: B209398-BS1 Date(s) Analyzed: 08/03/2018 08/03/2018

Instrument ID (1): ECD 9 Instrument ID (2): ECD 9

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.51	
	2	0.000	0.000	0.000	0.51	0.0
Aroclor-1260	1	0.000	0.000	0.000	0.48	
	2	0.000	0.000	0.000	0.52	8.0

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

EPA 608.3

LCS Dup

Lab Sample ID: B209398-BSD1 Date(s) Analyzed: 08/03/2018 08/03/2018

Instrument ID (1): ECD 9 Instrument ID (2): ECD 9

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.45	
	2	0.000	0.000	0.000	0.49	8.5
Aroclor-1260	1	0.000	0.000	0.000	0.48	
	2	0.000	0.000	0.000	0.50	4.1

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

EPA 608.3

LCS

Lab Sample ID: B209399-BS1 Date(s) Analyzed: 08/03/2018 08/03/2018

Instrument ID (1): ECD6 Instrument ID (2): ECD6

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Endosulfan I	1	7.162	0.000	0.000	0.85	
	2	7.107	0.000	0.000	0.93	9.0
Heptachlor Epoxide	1	6.868	0.000	0.000	0.85	
	2	6.817	0.000	0.000	0.89	4.6

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

EPA 608.3

LCS Dup

Lab Sample ID: B209399-BSD1 Date(s) Analyzed: 08/03/2018 08/03/2018

Instrument ID (1): ECD6 Instrument ID (2): ECD6

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Endosulfan I	1	7.159	0.000	0.000	0.87	
	2	7.104	0.000	0.000	0.96	9.8
Heptachlor Epoxide	1	6.865	0.000	0.000	0.88	
	2	6.814	0.000	0.000	0.92	4.4

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
H-05	Holding time was exceeded. pH analysis should be performed immediately at time of sampling. Nominal 15 minute holding time was exceeded.
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
EPA 200.7 in Water	
Chromium	CT,MA,NH,NY,RI,NC,ME,VA
Zinc	CT,MA,NH,NY,RI,NC,ME,VA
EPA 200.8 in Water	
Lead	CT,MA,NH,NY,RI,NC,ME,VA
EPA 608.3 in Water	
Aroclor-1016	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1016 [2C]	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1221	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1221 [2C]	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1232	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1232 [2C]	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1242	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1242 [2C]	CT,MA,NH,NY,RI,NC,ME,VA
Endosulfan I	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1248	CT,MA,NH,NY,RI,NC,ME,VA
Endosulfan I [2C]	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1248 [2C]	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1254	CT,MA,NH,NY,RI,NC,ME,VA
Heptachlor Epoxide	CT,MA,NH,NY,RI,NC,ME,VA
Heptachlor Epoxide [2C]	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1254 [2C]	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1260	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1260 [2C]	CT,MA,NH,NY,RI,NC,ME,VA
EPA 624.1 in Water	
Benzene	CT,NY,RI,NC,MA,NH
Ethylbenzene	CT,NY,RI,NC,MA,NH
1,2,4-Trimethylbenzene	MA
Xylenes (total)	NY,MA,NH
m+p Xylene	CT,NY,RI,NC,MA,NH
o-Xylene	CT,NY,RI,NC,MA,NH
SM21-22 4500 H B in Water	
pH	CT,MA,RI
SW-846 8260C in Water	
Benzene	CT,ME,NH,VA,NY
Ethylbenzene	CT,ME,NH,VA,NY
Isopropylbenzene (Cumene)	ME,VA,NY
1,2,4-Trimethylbenzene	ME,VA,NY
m+p Xylene	CT,ME,NH,VA,NY
o-Xylene	CT,ME,NH,VA,NY
Xylenes (total)	NY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	03/1/2020
MA	Massachusetts DEP	M-MA100	06/30/2019
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2019
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2019
RI	Rhode Island Department of Health	LAO00112	12/30/2018
NC	North Carolina Div. of Water Quality	652	12/31/2018
NJ	New Jersey DEP	MA007 NELAP	06/30/2019
FL	Florida Department of Health	E871027 NELAP	06/30/2019
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2019
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2018
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2018
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2019
NC-DW	North Carolina Department of Health	25703	07/31/2019

con-test ANALYTICAL LABORATORY
ALB

18H0094

Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com

http://www.contestlabs.com

Doc # 380 Rev 1_03242017

CHAIN OF CUSTODY RECORD (New York)

39 Spruce Street
East Longmeadow, MA 01028

Company Name:	LAND Remediation
Address:	74 Hudson River Road Waterford, New York 12188
Phone:	518-766-4105
Project Name:	NYSDEC Saranac Lake Gas Co.
Project Location:	Saranac Lake OU2
Project Number:	-
Project Manager:	Matthew Warren
Con-Test Quote Name/Number:	
Invoice Recipient:	mjw@land-remediation.com
Sampled By:	Matthew Warren

Requested Turnaround Time
7-Day ☐ 10-Day ☐
Due Date:

Rush-Approval Required
1-Day ☑ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
CLP Like Data Pkg Required: ☐
Email To: mjw@land-remediation
Fax To #: jkl@land-remediation

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	BOD-5	TDS	TSS	Oil and Grease	SVOCs	VOCS	PCB	Metals (Lead, Zinc)	pH	# of Containers
								1	1	1	2	2	3	2	1	1	[2] Preservation Code
								P	P	P	A	A	V	A	P	P	[3] Container Code
01	OU2-WWTP-EFF02	8/1/18 3:57P	8/1/18 4:15P	x		W	L	x	x	x	x	x		x	x	x	
02	OU2-WWTP-EFF02	8/1/18 3:57	8/1/18 4:15		x	W	L						x				

ANALYSIS REQUESTED

Dissolved Metals Samples
☐ Field Filtered
☐ Lab to Filter

Orthophosphate Samples
☐ Field Filtered
☐ Lab to Filter

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define)

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

[3] **Container Codes:**
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Comments: (48 hours AT TDS/TSS/ Oil and Grease; 5-Day BOD (5-Day

Reference Attache SPDES Permit Equivalency - report only analytes listed on the permit.

Please use the following codes to indicate possible sample concentration within the **Conc Code** column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time: 8:41AM 8/1/2018
Received by: (signature)	Date/Time: 8-2-18 8:40AM
Relinquished by: (signature)	Date/Time: 8-2-18 1230PM
ived by: (signature) 8/2/18	Date/Time: 1230
quished by: (signature) 8/2/18	Date/Time: 1600
ived by: (signature)	Date/Time: 8/2/18 1600

Program & Regulatory Information
☐ AWQ STDS ☐ NY TOGS
☐ NYC Sewer Discharge ☐ NY CP-51
☐ Part 360 GW (Landfill)
☐ NY Restricted Use
☐ NY Unrestricted Use
☐ NY Part 375
Other:

Deliverables
☐ Enhanced Data Package
☐ NYSDEC EQuIS EDD
☐ EQuIS (Standard) EDD
☐ NY Regulatory EDD
☐ NY Regs Hits-Only EDD
Other*
NELAC and AIHA-LAP, LLC Accredited

Project Entity
☑ Government ☐ Municipality ☐ MWRA ☐ WRTA
☐ Federal ☐ 21 J ☐ School
☐ City ☐ Brownfield ☐ MBTA

Other
☐ Chromatogram
☐ *AIHA-LAP,LLC*

PCB ONLY
☐ Soxhlet
☐ Non Soxhlet

Table of Contents

con-test® ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client LAND Remediation

Received By SE Date 8/2/18 Time 1600

How were the samples received? In Cooler T No Cooler ____ On Ice T No Ice ____ Direct from Sampling ____ Ambient ____ Melted Ice ____

Were samples within Temperature? 2-6°C T By Gun # 8 Actual Temp - 3.6 By Blank # ____ Actual Temp - ____

Was Custody Seal Intact? N/A Were Samples Tampered with? N/A

Was COC Relinquished ? T Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? T Were samples received within holding time? T

Did COC include all pertinent Information? Client T Project T Analysis ID's T T Sampler Name T Collection Dates/Times T

Are Sample labels filled out and legible? T

Are there Lab to Filters? F Who was notified? ____

Are there Rushes? T Who was notified? Luke, Brie, Eric

Are there Short Holds? T Who was notified? Luke

Is there enough Volume? T

Is there Headspace where applicable? F MS/MSD? F

Proper Media/Containers Used? T Is splitting samples required? F

Were trip blanks received? F On COC? F

Do all samples have the proper pH? T Acid pH<2 Base ____

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.	6	1 Liter Plastic		16 oz Amb.	
HCL-	3	500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic	1 SES 8/2/18	4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Comments:

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

August 8, 2018

Keith Decker
Land Remediation
74 Hudson River Road
Waterford, NY 12188

Project Location: Saranac Lake
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 18H0097

Enclosed are results of analyses for samples received by the laboratory on August 2, 2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Aaron L. Benoit
Project Manager

Table of Contents

Sample Summary 3

Case Narrative 4

Sample Results 5

18H0097-01 5

Sample Preparation Information 6

QC Data 7

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) 7

B209423 7

B209573 7

Flag/Qualifier Summary 8

Certifications 9

Chain of Custody/Sample Receipt 10

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Land Remediation
74 Hudson River Road
Waterford, NY 12188
ATTN: Keith Decker

REPORT DATE: 8/8/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18H0097

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Saranac Lake

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
OU2-WWTP-EFF02	18H0097-01	Water		EPA 1664B SM 21-22 5210B	

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

SM 21-22 5210B

Qualifications:

W-15

Test replicates show more than 30% difference between values.

Analyte & Samples(s) Qualified:

Biochemical Oxygen Demand
18H0097-01[OU2-WWTP-EFF02]

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Lisa A. Worthington
Project Manager

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake | Sample Description: | Work Order: 18H0097

Date Received: 8/2/2018

Field Sample #: OU2-WWTP-EFF02

Sample ID: 18H0097-01 | Start Date/Time: 8/1/2018 3:57:00PM

Sample Matrix: Water | Stop Date/Time: 8/1/2018 4:15:00PM

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Biochemical Oxygen Demand	58	4.0	mg/L	1	W-15	SM 21-22 5210B	8/2/18	8/2/18 16:58	LED
Oil & Grease (HEM)	ND	1.4	mg/L	1		EPA 1664B	8/6/18	8/6/18 13:30	LL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

EPA 1664B

Lab Number [Field ID]	Batch	Initial [mL]	Date
18H0097-01 [OU2-WWTP-EFF02]	B209573	1000	08/06/18

SM 21-22 5210B

Lab Number [Field ID]	Batch	Initial [mL]	Date
18H0097-01 [OU2-WWTP-EFF02]	B209423	150	08/02/18

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B209423 - SM 21-22 5210B										
Blank (B209423-BLK1)				Prepared & Analyzed: 08/02/18						
Biochemical Oxygen Demand	ND	2.0	mg/L							
LCS (B209423-BS1)				Prepared & Analyzed: 08/02/18						
Biochemical Oxygen Demand	200	2.0	mg/L	198		103	85-115			
Batch B209573 - EPA 1664B										
Blank (B209573-BLK1)				Prepared & Analyzed: 08/06/18						
Oil & Grease (HEM)	ND	1.4	mg/L							
Blank (B209573-BLK2)				Prepared & Analyzed: 08/06/18						
Oil & Grease (HEM)	ND	56	mg/L							
LCS (B209573-BS1)				Prepared & Analyzed: 08/06/18						
Oil & Grease (HEM)	17		mg/L	20.0		86.0	78-114			
LCS (B209573-BS2)				Prepared & Analyzed: 08/06/18						
Oil & Grease (HEM)	660		mg/L	800		82.0	78-114			
Matrix Spike (B209573-MS1)	**Source: 18H0097-01**			Prepared & Analyzed: 08/06/18						
Oil & Grease (HEM)	170	14	mg/L	200	ND	83.0	78-114			

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
W-15	Test replicates show more than 30% difference between values.

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
EPA 1664B in Water	
Oil & Grease (HEM)	CT,MA,NH,NY,RI,NC,ME,VA
SM 21-22 5210B in Water	
Biochemical Oxygen Demand	CT,MA,NH,NY,RI,ME,VA,NC

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	03/1/2020
MA	Massachusetts DEP	M-MA100	06/30/2019
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2019
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2019
RI	Rhode Island Department of Health	LAO00112	12/30/2018
NC	North Carolina Div. of Water Quality	652	12/31/2018
NJ	New Jersey DEP	MA007 NELAP	06/30/2019
FL	Florida Department of Health	E871027 NELAP	06/30/2019
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2019
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2018
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2018
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2019
NC-DW	North Carolina Department of Health	25703	07/31/2019

con-test ANALYTICAL LABORATORY
ALB

18H0097

Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com

http://www.contestlabs.com

Doc # 380 Rev 1_03242017

CHAIN OF CUSTODY RECORD (New York)

39 Spruce Street
East Longmeadow, MA 01028

Page _1_ of _1_

Company Name:	LAND Remediation
Address:	74 Hudson River Road Waterford, New York 12188
Phone:	518-766-4105
Project Name:	NYSDEC Saranac Lake Gas Co.
Project Location:	Saranac Lake OU2
Project Number:	-
Project Manager:	Matthew Warren
Con-Test Quote Name/Number:	
Invoice Recipient:	mjw@land-remediation.com
Sampled By:	Matthew Warren

Requested Turnaround Time
7-Day ☐ 10-Day ☐
Due Date:

Rush-Approval Required
1-Day ☑ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
CLP Like Data Pkg Required: ☐
Email To: mjw@land-remediation
Fax To #: jkl@land-remediation

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code
01	OU2-WWTP-EFF02	8/1/18 3:57P	8/1/18 4:15P	x		W	L
	OU2-WWTP-EFF02	8/1/18 3:57	8/1/18 4:15		x	W	L

ANALYSIS REQUESTED

BOD-5	TDS	TSS	Oil and Grease	SVOCs	VOCS	PCB	Metals (Lead, Zinc)	pH			# of Containers
1	1	1	2	2	3	2	1	1			
	-	-	S		H	-	N	-			[2] Preservation Code
P	P	P	A	A	V	A	P	P			[3] Container Code
x	x	x	x	x		x	x	x			
					x						

Dissolved Metals Samples
☐ Field Filtered
☐ Lab to Filter

Orthophosphate Samples
☐ Field Filtered
☐ Lab to Filter

Comments: (48 hours AT TDS/TSS/ Oil and Grease; 5-Day BOD (5-Day

Reference Attache SPDES Permit Equivalency - report only analytes listed on the permit.

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define)

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

[3] **Container Codes:**
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Relinquished by: (signature)	Date/Time: 8:41AM 8/1/2018	
Received by: (signature)	Date/Time: 8-2-18 8:40AM	
Relinquished by: (signature)	Date/Time: 8.2.18 12:30PM	
Received by: (signature)	Date/Time: 1230	8/2/18
Relinquished by: (signature)	Date/Time: 1600	8/2/18
Received by: (signature)	Date/Time: 8/2/18 1600	

Program & Regulatory Information
☐ AWQ STDS ☐ NY TOGS
☐ NYC Sewer Discharge ☐ NY CP-51
☐ Part 360 GW (Landfill)
☐ NY Restricted Use
☐ NY Unrestricted Use
☐ NY Part 375

Deliverables
☐ Enhanced Data Package
☐ NYSDEC EQuIS EDD
☐ EQuIS (Standard) EDD
☐ NY Regulatory EDD
☐ NY Regs Hits-Only EDD

Other:
NELAC and AIHA-LAP, LLC accredited

Project Entity
☑ Government ☐ Municipality ☐ MWRA ☐ WRTA
☐ Federal ☐ 21 J ☐ School
☐ City ☐ Brownfield ☐ MBTA

Other
☐ Chromatogram
☐ AIHA-LAP,LLC

PCB ONLY
☐ Soxhlet
☐ Non Soxhlet

Table of Contents

con-test® ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client LAND Remediation

Received By SE Date 8/2/18 Time 1600

How were the samples received? In Cooler T No Cooler ____ On Ice T No Ice ____ Direct from Sampling ____ Ambient ____ Melted Ice ____

Were samples within Temperature? 2-6°C T By Gun # 8 Actual Temp - 2.6 By Blank # ____ Actual Temp - ____

Was Custody Seal Intact? N/A Were Samples Tampered with? N/A

Was COC Relinquished ? T Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? T Were samples received within holding time? T

Did COC include all pertinent Information? Client T Analysis T Sampler Name T Project T ID's T Collection Dates/Times T

Are Sample labels filled out and legible? T

Are there Lab to Filters? F Who was notified? ____

Are there Rushes? F Who was notified? ____

Are there Short Holds? T Who was notified? Luke

Is there enough Volume? T

Is there Headspace where applicable? N/A MS/MSD? F

Proper Media/Containers Used? T Is splitting samples required? F

Were trip blanks received? F On COC? F

Do all samples have the proper pH? N/A Acid ____ Base ____

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.	2	1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic	1	8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Comments:

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

August 10, 2018

Keith Decker
Land Remediation
74 Hudson River Road
Waterford, NY 12188

Project Location: Saranac Lake
Client Job Number:
Project Number: Saranac Lake OU2
Laboratory Work Order Number: 18H0448

Enclosed are results of analyses for samples received by the laboratory on August 9, 2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Aaron L. Benoit
Project Manager

Table of Contents

Sample Summary 3

Case Narrative 4

Sample Results 5

18H0448-01 5

18H0448-02 10

Sample Preparation Information 12

QC Data 13

Volatile Organic Compounds by GC/MS 13

B209978 13

Volatile Organic Compounds by GC/MS 14

B209976 14

Semivolatile Organic Compounds by GC/MS 15

B209991 15

Organochloride Pesticides by GC/ECD 17

B209928 17

Metals Analyses (Total) 18

B209952 18

B209954 18

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) 19

B209958 19

Pesticides Degradation Report 20

Dual Column RPD Report 22

Flag/Qualifier Summary 24

Certifications 25

Chain of Custody/Sample Receipt 27

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Land Remediation
74 Hudson River Road
Waterford, NY 12188
ATTN: Keith Decker

REPORT DATE: 8/10/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: Saranac Lake OU2

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18H0448

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Saranac Lake

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
OU2-WWTP-EFF03	18H0448-01	Water		EPA 200.7	
				EPA 200.8	
				EPA 608.3	
				SM21-22 4500 H B	
				SW-846 8270D	
OU2-WWTP-EFF03	18H0448-02	Water		EPA 624.1	
				SW-846 8260C	

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

For method 8270, only PAHs were requested and reported.

SM21-22 4500 H B

Qualifications:

H-05

Holding time was exceeded. pH analysis should be performed immediately at time of sampling. Nominal 15 minute holding time was exceeded.

Analyte & Samples(s) Qualified:

pH

18H0448-01[OU2-WWTP-EFF03]

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Lisa A. Worthington
Project Manager

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake | Sample Description: | Work Order: 18H0448

Date Received: 8/9/2018

Field Sample #: OU2-WWTP-EFF03

Sample ID: 18H0448-01 | Start Date/Time: 8/8/2018 11:08:00AM

Sample Matrix: Water | Stop Date/Time: 8/8/2018 11:15:00AM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene (SIM)	ND	0.29	0.058	µg/L	1		SW-846 8270D	8/9/18	8/10/18 9:51	IMR
Acenaphthylene (SIM)	ND	0.19	0.049	µg/L	1		SW-846 8270D	8/9/18	8/10/18 9:51	IMR
Anthracene (SIM)	ND	0.19	0.039	µg/L	1		SW-846 8270D	8/9/18	8/10/18 9:51	IMR
Benzo(a)anthracene (SIM)	ND	0.049	0.049	µg/L	1		SW-846 8270D	8/9/18	8/10/18 9:51	IMR
Benzo(a)pyrene (SIM)	0.043	0.097	0.039	µg/L	1	J	SW-846 8270D	8/9/18	8/10/18 9:51	IMR
Benzo(b)fluoranthene (SIM)	0.039	0.049	0.019	µg/L	1	J	SW-846 8270D	8/9/18	8/10/18 9:51	IMR
Benzo(g,h,i)perylene (SIM)	ND	0.49	0.068	µg/L	1		SW-846 8270D	8/9/18	8/10/18 9:51	IMR
Benzo(k)fluoranthene (SIM)	ND	0.039	0.019	µg/L	1		SW-846 8270D	8/9/18	8/10/18 11:49	IMR
Chrysene (SIM)	0.039	0.19	0.029	µg/L	1	J	SW-846 8270D	8/9/18	8/10/18 9:51	IMR
Dibenz(a,h)anthracene (SIM)	ND	0.097	0.039	µg/L	1		SW-846 8270D	8/9/18	8/10/18 9:51	IMR
Fluoranthene (SIM)	0.057	0.49	0.029	µg/L	1	J	SW-846 8270D	8/9/18	8/10/18 9:51	IMR
Fluorene (SIM)	ND	0.97	0.039	µg/L	1		SW-846 8270D	8/9/18	8/10/18 9:51	IMR
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.097	0.078	µg/L	1		SW-846 8270D	8/9/18	8/10/18 9:51	IMR
Naphthalene (SIM)	ND	0.97	0.068	µg/L	1		SW-846 8270D	8/9/18	8/10/18 9:51	IMR
Phenanthrene (SIM)	0.073	0.049	0.039	µg/L	1		SW-846 8270D	8/9/18	8/10/18 9:51	IMR
Pyrene (SIM)	0.096	0.97	0.029	µg/L	1	J	SW-846 8270D	8/9/18	8/10/18 9:51	IMR

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	69.1	30-130		8/10/18 9:51
Nitrobenzene-d5	62.3	30-130		8/10/18 11:49
2-Fluorobiphenyl	67.9	30-130		8/10/18 9:51
2-Fluorobiphenyl	48.6	30-130		8/10/18 11:49
p-Terphenyl-d14	71.6	30-130		8/10/18 9:51
p-Terphenyl-d14	58.7	30-130		8/10/18 11:49

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake | Sample Description: | Work Order: 18H0448

Date Received: 8/9/2018

Field Sample #: OU2-WWTP-EFF03

Sample ID: 18H0448-01 | Start Date/Time: 8/8/2018 11:08:00AM

Sample Matrix: Water | Stop Date/Time: 8/8/2018 11:15:00AM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Endosulfan I [1]	ND	0.0096	0.00041	µg/L	1		EPA 608.3	8/9/18	8/10/18 12:42	TG
Heptachlor epoxide [1]	ND	0.0096	0.00077	µg/L	1		EPA 608.3	8/9/18	8/10/18 12:42	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	85.9	30-150		8/10/18 12:42
Decachlorobiphenyl [2]	69.9	30-150		8/10/18 12:42
Tetrachloro-m-xylene [1]	71.4	30-150		8/10/18 12:42
Tetrachloro-m-xylene [2]	58.8	30-150		8/10/18 12:42

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake | Sample Description: | Work Order: 18H0448

Date Received: 8/9/2018

Field Sample #: OU2-WWTP-EFF03

Sample ID: 18H0448-01 | Start Date/Time: 8/8/2018 11:08:00AM

Sample Matrix: Water | Stop Date/Time: 8/8/2018 11:15:00AM

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.038	0.035	µg/L	1		EPA 608.3	8/9/18	8/10/18 10:08	WAL
Aroclor-1221 [1]	ND	0.038	0.031	µg/L	1		EPA 608.3	8/9/18	8/10/18 10:08	WAL
Aroclor-1232 [1]	ND	0.038	0.038	µg/L	1		EPA 608.3	8/9/18	8/10/18 10:08	WAL
Aroclor-1242 [1]	ND	0.038	0.033	µg/L	1		EPA 608.3	8/9/18	8/10/18 10:08	WAL
Aroclor-1248 [1]	ND	0.038	0.037	µg/L	1		EPA 608.3	8/9/18	8/10/18 10:08	WAL
Aroclor-1254 [1]	ND	0.038	0.020	µg/L	1		EPA 608.3	8/9/18	8/10/18 10:08	WAL
Aroclor-1260 [1]	ND	0.038	0.038	µg/L	1		EPA 608.3	8/9/18	8/10/18 10:08	WAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	103	30-150		8/10/18 10:08
Decachlorobiphenyl [2]	81.9	30-150		8/10/18 10:08
Tetrachloro-m-xylene [1]	85.5	30-150		8/10/18 10:08
Tetrachloro-m-xylene [2]	73.8	30-150		8/10/18 10:08

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake | Sample Description: | Work Order: 18H0448

Date Received: 8/9/2018

Field Sample #: OU2-WWTP-EFF03

Sample ID: 18H0448-01 | Start Date/Time: 8/8/2018 11:08:00AM

Sample Matrix: Water | Stop Date/Time: 8/8/2018 11:15:00AM

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Chromium	ND	0.0070	0.0061	mg/L	1		EPA 200.7	8/9/18	8/10/18 10:03	MJH
Lead	0.75	0.50	0.14	µg/L	1		EPA 200.8	8/9/18	8/10/18 10:09	MJH
Zinc	ND	0.010	0.0052	mg/L	1		EPA 200.7	8/9/18	8/10/18 10:03	MJH

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake | Sample Description: | Work Order: 18H0448

Date Received: 8/9/2018

Field Sample #: OU2-WWTP-EFF03

Sample ID: 18H0448-01 | Start Date/Time: 8/8/2018 11:08:00AM

Sample Matrix: Water | Stop Date/Time: 8/8/2018 11:15:00AM

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
pH @20.7°C	10		pH Units	1	H-05	SM21-22 4500 H B	8/9/18	8/9/18 20:21	AIA

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake | Sample Description: | Work Order: 18H0448

Date Received: 8/9/2018

Field Sample #: OU2-WWTP-EFF03

Sample ID: 18H0448-02 | Start Date/Time: 8/8/2018 11:16:00AM

Sample Matrix: Water | Stop Date/Time: 8/8/2018 11:18:00AM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Surrogates		**% Recovery**		**Recovery Limits**		**Flag/Qual**				
1,2-Dichloroethane-d4		110		70-130					8/10/18 9:03	
Toluene-d8		102		70-130					8/10/18 9:03	
4-Bromofluorobenzene		92.8		70-130					8/10/18 9:03	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake | Sample Description: | Work Order: 18H0448

Date Received: 8/9/2018

Field Sample #: OU2-WWTP-EFF03

Sample ID: 18H0448-02 | Start Date/Time: 8/8/2018 11:16:00AM

Sample Matrix: Water | Stop Date/Time: 8/8/2018 11:18:00AM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	1.0	0.34	µg/L	1		EPA 624.1	8/10/18	8/10/18 9:03	MFF
Ethylbenzene	ND	2.0	0.37	µg/L	1		EPA 624.1	8/10/18	8/10/18 9:03	MFF
1,2,4-Trimethylbenzene	ND	1.0	0.34	µg/L	1		EPA 624.1	8/10/18	8/10/18 9:03	MFF
Xylenes (total)	ND	3.0		µg/L	1		EPA 624.1	8/10/18	8/10/18 9:03	MFF
m+p Xylene	ND	2.0	0.65	µg/L	1		EPA 624.1	8/10/18	8/10/18 9:03	MFF
o-Xylene	ND	2.0	0.35	µg/L	1		EPA 624.1	8/10/18	8/10/18 9:03	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	110	70-130		8/10/18 9:03
Toluene-d8	102	70-130		8/10/18 9:03
4-Bromofluorobenzene	92.8	70-130		8/10/18 9:03

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: EPA 200.7-EPA 200.7

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18H0448-01 [OU2-WWTP-EFF03]	B209954	50.0	50.0	08/09/18

Prep Method: EPA 200.8-EPA 200.8

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18H0448-01 [OU2-WWTP-EFF03]	B209952	50.0	50.0	08/09/18

Prep Method: SW-846 3510C-EPA 608.3

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18H0448-01 [OU2-WWTP-EFF03]	B209891	1040	2.00	08/09/18

Prep Method: SW-846 3510C-EPA 608.3

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18H0448-01 [OU2-WWTP-EFF03]	B209928	1040	2.00	08/09/18

Prep Method: SW-846 5035-EPA 624.1

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18H0448-02 [OU2-WWTP-EFF03]	B209976	5	5.00	08/10/18

SM21-22 4500 H B

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18H0448-01 [OU2-WWTP-EFF03]	B209958	50.0		08/09/18

Prep Method: SW-846 3510C-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18H0448-01 [OU2-WWTP-EFF03]	B209991	1030	1.00	08/09/18
18H0448-01RE1 [OU2-WWTP-EFF03]	B209991	1030	0.200	08/09/18

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B209978 - SW-846 5035										
Blank (B209978-BLK1)				Prepared & Analyzed: 08/10/18						
Isopropylbenzene (Cumene)	ND	1.0	µg/L							
Surrogate: 1,2-Dichloroethane-d4	*27.4*		µg/L	25.0		110	70-130			
Surrogate: Toluene-d8	*25.4*		µg/L	25.0		102	70-130			
Surrogate: 4-Bromofluorobenzene	*22.9*		µg/L	25.0		91.6	70-130			
LCS (B209978-BS1)				Prepared & Analyzed: 08/10/18						
Isopropylbenzene (Cumene)	23.5	1.0	µg/L	20.0		117	70-130			
Surrogate: 1,2-Dichloroethane-d4	*28.4*		µg/L	25.0		114	70-130			
Surrogate: Toluene-d8	*25.2*		µg/L	25.0		101	70-130			
Surrogate: 4-Bromofluorobenzene	*24.4*		µg/L	25.0		97.6	70-130			
LCS Dup (B209978-BSD1)				Prepared & Analyzed: 08/10/18						
Isopropylbenzene (Cumene)	21.9	1.0	µg/L	20.0		110	70-130	6.78	25	
Surrogate: 1,2-Dichloroethane-d4	*26.9*		µg/L	25.0		108	70-130			
Surrogate: Toluene-d8	*25.6*		µg/L	25.0		102	70-130			
Surrogate: 4-Bromofluorobenzene	*24.0*		µg/L	25.0		95.9	70-130			

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B209976 - SW-846 5035										
Blank (B209976-BLK1)				Prepared & Analyzed: 08/10/18						
Benzene	ND	1.0	µg/L							
Ethylbenzene	ND	2.0	µg/L							
1,2,4-Trimethylbenzene	ND	1.0	µg/L							
Xylenes (total)	ND	3.0	µg/L							
m+p Xylene	ND	2.0	µg/L							
o-Xylene	ND	2.0	µg/L							
Surrogate: 1,2-Dichloroethane-d4	*27.4*		µg/L	25.0		110	70-130			
Surrogate: Toluene-d8	*25.4*		µg/L	25.0		102	70-130			
Surrogate: 4-Bromofluorobenzene	*22.9*		µg/L	25.0		91.6	70-130			
LCS (B209976-BS1)				Prepared & Analyzed: 08/10/18						
Benzene	22.6	1.0	µg/L	20.0		113	65-135			
Ethylbenzene	23.1	2.0	µg/L	20.0		116	60-140			
1,2,4-Trimethylbenzene	23.7	1.0	µg/L	20.0		119	70-130			
m+p Xylene	45.9	2.0	µg/L	40.0		115	70-130			
o-Xylene	22.6	2.0	µg/L	20.0		113	70-130			
Surrogate: 1,2-Dichloroethane-d4	*28.4*		µg/L	25.0		114	70-130			
Surrogate: Toluene-d8	*25.2*		µg/L	25.0		101	70-130			
Surrogate: 4-Bromofluorobenzene	*24.4*		µg/L	25.0		97.6	70-130			

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B209991 - SW-846 3510C										
Blank (B209991-BLK2)				Prepared: 08/09/18 Analyzed: 08/10/18						
Acenaphthene (SIM)	ND	0.30	µg/L							
Acenaphthylene (SIM)	ND	0.20	µg/L							
Anthracene (SIM)	ND	0.20	µg/L							
Benzo(a)anthracene (SIM)	ND	0.050	µg/L							
Benzo(a)pyrene (SIM)	ND	0.10	µg/L							
Benzo(b)fluoranthene (SIM)	ND	0.050	µg/L							
Benzo(g,h,i)perylene (SIM)	ND	0.50	µg/L							
Chrysene (SIM)	ND	0.20	µg/L							
Dibenz(a,h)anthracene (SIM)	ND	0.10	µg/L							
Fluoranthene (SIM)	ND	0.50	µg/L							
Fluorene (SIM)	ND	1.0	µg/L							
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.10	µg/L							
Naphthalene (SIM)	ND	1.0	µg/L							
Phenanthrene (SIM)	ND	0.050	µg/L							
Pyrene (SIM)	ND	1.0	µg/L							
Surrogate: Nitrobenzene-d5	*48.8*		µg/L	100		48.8	30-130			
Surrogate: 2-Fluorobiphenyl	*49.4*		µg/L	100		49.4	30-130			
Surrogate: p-Terphenyl-d14	*53.1*		µg/L	100		53.1	30-130			
Blank (B209991-BLK3)				Prepared: 08/09/18 Analyzed: 08/10/18						
Benzo(k)fluoranthene (SIM)	ND	0.040	µg/L							
Surrogate: Nitrobenzene-d5	*86.4*		µg/L	100		86.4	30-130			
Surrogate: 2-Fluorobiphenyl	*67.5*		µg/L	100		67.5	30-130			
Surrogate: p-Terphenyl-d14	*67.0*		µg/L	100		67.0	30-130			
LCS (B209991-BS1)				Prepared: 08/09/18 Analyzed: 08/10/18						
Acenaphthene (SIM)	31.4	7.5	µg/L	50.0		62.8	40-140			
Acenaphthylene (SIM)	32.0	5.0	µg/L	50.0		64.0	40-140			
Anthracene (SIM)	35.6	5.0	µg/L	50.0		71.2	40-140			
Benzo(a)anthracene (SIM)	35.6	1.2	µg/L	50.0		71.1	40-140			
Benzo(a)pyrene (SIM)	37.8	2.5	µg/L	50.0		75.6	40-140			
Benzo(b)fluoranthene (SIM)	39.9	1.2	µg/L	50.0		79.8	40-140			
Benzo(g,h,i)perylene (SIM)	37.4	12	µg/L	50.0		74.8	40-140			
Benzo(k)fluoranthene (SIM)	39.0	5.0	µg/L	50.0		78.0	40-140			
Chrysene (SIM)	35.0	5.0	µg/L	50.0		70.0	40-140			
Dibenz(a,h)anthracene (SIM)	39.2	2.5	µg/L	50.0		78.4	40-140			
Fluoranthene (SIM)	34.8	12	µg/L	50.0		69.7	40-140			
Fluorene (SIM)	33.0	25	µg/L	50.0		66.1	40-140			
Indeno(1,2,3-cd)pyrene (SIM)	39.0	2.5	µg/L	50.0		78.0	40-140			
Naphthalene (SIM)	27.1	25	µg/L	50.0		54.2	40-140			
Phenanthrene (SIM)	34.5	1.2	µg/L	50.0		69.0	40-140			
Pyrene (SIM)	33.2	25	µg/L	50.0		66.5	40-140			
Surrogate: Nitrobenzene-d5	*57.4*		µg/L	100		57.4	30-130			
Surrogate: 2-Fluorobiphenyl	*57.0*		µg/L	100		57.0	30-130			
Surrogate: p-Terphenyl-d14	*56.1*		µg/L	100		56.1	30-130			

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B209991 - SW-846 3510C										
LCS Dup (B209991-BSD1)				Prepared: 08/09/18 Analyzed: 08/10/18						
Acenaphthene (SIM)	31.7	7.5	µg/L	50.0		63.4	40-140	0.871	20	
Acenaphthylene (SIM)	32.4	5.0	µg/L	50.0		64.7	40-140	1.09	20	
Anthracene (SIM)	34.7	5.0	µg/L	50.0		69.4	40-140	2.56	20	
Benzo(a)anthracene (SIM)	34.2	1.2	µg/L	50.0		68.4	40-140	3.80	20	
Benzo(a)pyrene (SIM)	36.4	2.5	µg/L	50.0		72.8	40-140	3.77	20	
Benzo(b)fluoranthene (SIM)	38.4	1.2	µg/L	50.0		76.8	40-140	3.83	20	
Benzo(g,h,i)perylene (SIM)	35.8	12	µg/L	50.0		71.6	40-140	4.44	20	
Benzo(k)fluoranthene (SIM)	37.4	5.0	µg/L	50.0		74.8	40-140	4.19	20	
Chrysene (SIM)	33.6	5.0	µg/L	50.0		67.2	40-140	4.15	20	
Dibenz(a,h)anthracene (SIM)	37.6	2.5	µg/L	50.0		75.2	40-140	4.17	20	
Fluoranthene (SIM)	33.8	12	µg/L	50.0		67.7	40-140	2.91	20	
Fluorene (SIM)	33.0	25	µg/L	50.0		65.9	40-140	0.303	20	
Indeno(1,2,3-cd)pyrene (SIM)	37.4	2.5	µg/L	50.0		74.9	40-140	4.05	20	‡
Naphthalene (SIM)	28.6	25	µg/L	50.0		57.3	40-140	5.56	20	
Phenanthrene (SIM)	33.7	1.2	µg/L	50.0		67.4	40-140	2.20	20	
Pyrene (SIM)	32.4	25	µg/L	50.0		64.7	40-140	2.74	20	
Surrogate: Nitrobenzene-d5	*61.6*		µg/L	100		61.6	30-130			
Surrogate: 2-Fluorobiphenyl	*57.9*		µg/L	100		57.9	30-130			
Surrogate: p-Terphenyl-d14	*52.1*		µg/L	100		52.1	30-130			

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B209928 - SW-846 3510C										
Blank (B209928-BLK1)				Prepared: 08/09/18 Analyzed: 08/10/18						
Endosulfan I	ND	0.050	µg/L							
Endosulfan I [2C]	ND	0.050	µg/L							
Heptachlor Epoxide	ND	0.050	µg/L							
Heptachlor Epoxide [2C]	ND	0.050	µg/L							
Surrogate: Decachlorobiphenyl	*1.66*		µg/L	2.00		83.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.73*		µg/L	2.00		86.3	30-150			
Surrogate: Tetrachloro-m-xylene	*1.87*		µg/L	2.00		93.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.70*		µg/L	2.00		85.2	30-150			
Blank (B209928-BLK2)				Prepared: 08/09/18 Analyzed: 08/10/18						
Endosulfan I	ND	0.010	µg/L							
Endosulfan I [2C]	ND	0.010	µg/L							
Heptachlor Epoxide	ND	0.010	µg/L							
Heptachlor Epoxide [2C]	ND	0.010	µg/L							
Surrogate: Decachlorobiphenyl	*1.77*		µg/L	2.00		88.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.46*		µg/L	2.00		72.9	30-150			
Surrogate: Tetrachloro-m-xylene	*1.43*		µg/L	2.00		71.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.19*		µg/L	2.00		59.6	30-150			
LCS (B209928-BS1)				Prepared: 08/09/18 Analyzed: 08/10/18						
Endosulfan I	1.0	0.050	µg/L	1.00		99.9	45-153			
Endosulfan I [2C]	1.1	0.050	µg/L	1.00		110	45-153			
Heptachlor Epoxide	1.0	0.050	µg/L	1.00		105	37-142			
Heptachlor Epoxide [2C]	1.1	0.050	µg/L	1.00		109	37-142			
Surrogate: Decachlorobiphenyl	*1.96*		µg/L	2.00		98.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	*2.05*		µg/L	2.00		103	30-150			
Surrogate: Tetrachloro-m-xylene	*2.21*		µg/L	2.00		110	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*2.10*		µg/L	2.00		105	30-150			
LCS Dup (B209928-BSD1)				Prepared: 08/09/18 Analyzed: 08/10/18						
Endosulfan I	0.83	0.050	µg/L	1.00		83.1	45-153	18.3		
Endosulfan I [2C]	0.93	0.050	µg/L	1.00		93.2	45-153	16.6		
Heptachlor Epoxide	0.84	0.050	µg/L	1.00		83.8	37-142	22.0		
Heptachlor Epoxide [2C]	0.89	0.050	µg/L	1.00		89.1	37-142	20.3		
Surrogate: Decachlorobiphenyl	*1.91*		µg/L	2.00		95.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.99*		µg/L	2.00		99.4	30-150			
Surrogate: Tetrachloro-m-xylene	*1.38*		µg/L	2.00		69.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.37*		µg/L	2.00		68.4	30-150			

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B209952 - EPA 200.8										
Blank (B209952-BLK1)				Prepared: 08/09/18 Analyzed: 08/10/18						
Lead	ND	0.50	µg/L							
LCS (B209952-BS1)				Prepared: 08/09/18 Analyzed: 08/10/18						
Lead	500	5.0	µg/L	500		100	85-115			
LCS Dup (B209952-BSD1)				Prepared: 08/09/18 Analyzed: 08/10/18						
Lead	513	5.0	µg/L	500		103	85-115	2.46	20	
Batch B209954 - EPA 200.7										
Blank (B209954-BLK1)				Prepared: 08/09/18 Analyzed: 08/10/18						
Chromium	ND	0.0070	mg/L							
Zinc	ND	0.010	mg/L							
LCS (B209954-BS1)				Prepared: 08/09/18 Analyzed: 08/10/18						
Chromium	0.524	0.0070	mg/L	0.500		105	85-115			
Zinc	1.04	0.010	mg/L	1.00		104	85-115			
LCS Dup (B209954-BSD1)				Prepared: 08/09/18 Analyzed: 08/10/18						
Chromium	0.534	0.0070	mg/L	0.500		107	85-115	1.73	20	
Zinc	1.06	0.010	mg/L	1.00		106	85-115	2.28	20	

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B209958 - SM21-22 4500 H B										
LCS (B209958-BS1)				Prepared & Analyzed: 08/09/18						
pH	6.05		pH Units	6.00		101	90-110			

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

BREAKDOWN REPORT

Lab Sample ID: **S026101-PEM1** **Analyzed:** **08/09/2018**

Column Number: **1**

Analyte	% Breakdown
4,4'-DDT [1]	2.41
Endrin [1]	1.54

Column Number: **2**

Analyte	% Breakdown
4,4'-DDT [2]	2.74
Endrin [2]	1.64

BREAKDOWN REPORT

Lab Sample ID: **S026101-PEM2** **Analyzed:** **08/09/2018**

Column Number: **1**

Analyte	% Breakdown
4,4'-DDT [1]	3.18
Endrin [1]	2.36

Column Number: **2**

Analyte	% Breakdown
4,4'-DDT [2]	3.39
Endrin [2]	2.38

BREAKDOWN REPORT

Lab Sample ID: **S026101-PEM3** **Analyzed:** **08/10/2018**

Column Number: **1**

Analyte	% Breakdown
4,4'-DDT [1]	2.53
Endrin [1]	2.33

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

BREAKDOWN REPORT

Lab Sample ID:	S026101-PEM3	Analyzed:	08/10/2018

Column Number: 2

Analyte	% Breakdown
4,4'-DDT [2]	2.71
Endrin [2]	2.39

BREAKDOWN REPORT

Lab Sample ID:	S026101-PEM4	Analyzed:	08/10/2018

Column Number: 1

Analyte	% Breakdown
4,4'-DDT [1]	2.99
Endrin [1]	2.00

Column Number: 2

Analyte	% Breakdown
4,4'-DDT [2]	3.30
Endrin [2]	2.07

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

EPA 608.3

LCS

Lab Sample ID: B209928-BS1 Date(s) Analyzed: 08/10/2018 08/10/2018

Instrument ID (1): ECD6 Instrument ID (2): ECD6

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Endosulfan I	1	7.081	0.000	0.000	1.0	
	2	7.030	0.000	0.000	1.1	9.5
Heptachlor Epoxide	1	6.789	0.000	0.000	1.0	
	2	6.742	0.000	0.000	1.1	0.0

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

EPA 608.3

LCS Dup

Lab Sample ID: B209928-BSD1 Date(s) Analyzed: 08/10/2018 08/10/2018

Instrument ID (1): ECD6 Instrument ID (2): ECD6

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Endosulfan I	1	7.079	0.000	0.000	0.83	
	2	7.028	0.000	0.000	0.93	11.4
Heptachlor Epoxide	1	6.788	0.000	0.000	0.84	
	2	6.741	0.000	0.000	0.89	5.8

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
H-05	Holding time was exceeded. pH analysis should be performed immediately at time of sampling. Nominal 15 minute holding time was exceeded.
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
EPA 200.7 in Water	
Chromium	CT,MA,NH,NY,RI,NC,ME,VA
Zinc	CT,MA,NH,NY,RI,NC,ME,VA
EPA 200.8 in Water	
Lead	CT,MA,NH,NY,RI,NC,ME,VA
EPA 608.3 in Water	
Aroclor-1016	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1016 [2C]	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1221	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1221 [2C]	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1232	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1232 [2C]	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1242	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1242 [2C]	CT,MA,NH,NY,RI,NC,ME,VA
Endosulfan I	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1248	CT,MA,NH,NY,RI,NC,ME,VA
Endosulfan I [2C]	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1248 [2C]	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1254	CT,MA,NH,NY,RI,NC,ME,VA
Heptachlor Epoxide	CT,MA,NH,NY,RI,NC,ME,VA
Heptachlor Epoxide [2C]	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1254 [2C]	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1260	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1260 [2C]	CT,MA,NH,NY,RI,NC,ME,VA
EPA 624.1 in Water	
Benzene	CT,NY,RI,NC,MA,NH
Ethylbenzene	CT,NY,RI,NC,MA,NH
1,2,4-Trimethylbenzene	MA
Xylenes (total)	NY,MA,NH
m+p Xylene	CT,NY,RI,NC,MA,NH
o-Xylene	CT,NY,RI,NC,MA,NH
SM21-22 4500 H B in Water	
pH	CT,MA,RI
SW-846 8260C in Water	
Benzene	CT,ME,NH,VA,NY
Ethylbenzene	CT,ME,NH,VA,NY
1,2,4-Trimethylbenzene	ME,VA,NY
m+p Xylene	CT,ME,NH,VA,NY
o-Xylene	CT,ME,NH,VA,NY
Xylenes (total)	NY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	03/1/2020
MA	Massachusetts DEP	M-MA100	06/30/2019
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2019
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2019
RI	Rhode Island Department of Health	LAO00112	12/30/2018
NC	North Carolina Div. of Water Quality	652	12/31/2018
NJ	New Jersey DEP	MA007 NELAP	06/30/2019
FL	Florida Department of Health	E871027 NELAP	06/30/2019
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2019
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2018
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2018
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2019
NC-DW	North Carolina Department of Health	25703	07/31/2019

18H0448

con-test ANALYTICAL LABORATORY

Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com

http://www.contestlabs.com Doc # 380 Rev 1_03242017

CHAIN OF CUSTODY RECORD (New York)

39 Spruce Street
East Longmeadow, MA 01028

Page _1_ of _1_

Company Name:	LAND Remediation
Address:	74 Hudson River Road Waterford, New York 12188
Phone:	518-766-4105
Project Name:	NYSDEC Saranac Lake Gas Co.
Project Location:	Saranac Lake OU2
Project Number:	-
Project Manager:	Matthew Warren
Con-Test Quote Name/Number:	
Invoice Recipient:	mjw@land-remediation.com
Sampled By:	Jacob Leverett, Kyle Jones

Requested Turnaround Time
7-Day ☐ 10-Day ☐
Due Date:

Rush-Approval Required
1-Day ☑ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
CLP Like Data Pkg Required: ☐
Email To: mjw@land-remediation
Fax To #: jkl@land-remediation

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	BOD-5	TDS	TSS	Oil and Grease	SVOCs	VOCs	PCB	Metals (Lead, Zinc, Chromium)	pH
								1	1	1	2	2	3	2	1	1
									-	-	S		H	-	N	-
								P	P	P	A	A	V	A	P	P
1	OU2-WWTP-EFF-03	8/8/2018 11:08	8/8/2018 11:15	X		WW	L	X	X	X	X	X		X	X	X
2	OU2-WWTP-EFF03	8/8/2018 11:16	8/8/2018 11:18		X	WW	L						X			

ANALYSIS REQUESTED

[2] # of Containers
[2] Preservation Code
[3] Container Code

Dissolved Metals Samples
☐ Field Filtered
☐ Lab to Filter

Orthophosphate Samples
☐ Field Filtered
☐ Lab to Filter

[1] Matrix Codes:
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define)

[2] Preservation Codes:
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

[3] Container Codes:
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Comments: (48 hours AT TDS/TSS/ Oil and Grease; 5-Day BOD (5-Day

Reference Attache SPDES Permit Equivalency - report only analytes listed on the permit.

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time: 14:01 8/8/2018
Received by: (signature)	Date/Time: 8-8-18 1401
Relinquished by: (signature)	Date/Time: 8-9-18 11:03 AM
Received by: (signature)	Date/Time: 8/9/18 1103
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Program & Regulatory Information
☐ AWQ STDS ☐ NY TOGS
☐ NYC Sewer Discharge ☐ NY CP-51
☐ Part 360 GW (Landfill)
☐ NY Restricted Use
☐ NY Unrestricted Use
☐ NY Part 375
Other:

Deliverables
☐ Enhanced Data Package
☐ NYSDEC EQuIS EDD
☐ EQuIS (Standard) EDD
☐ NY Regulatory EDD
☐ NY Regs Hits-Only EDD
Other:

Project Entity
☑ Government ☐ Municipality ☐ MWRA ☐ WRTA
☐ Federal ☐ 21 J ☐ School
☐ City ☐ Brownfield ☐ MBTA

Other
☐ Chromatogram
☐ *AIHA-LAP,LLC*

PCB ONLY
☐ Soxhlet
☐ Non Soxhlet

Table of Contents

I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples_____

con-test® ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client LAND remediation

Received By RAP Date 8/9/18 Time 1103

How were the samples received? In Cooler T No Cooler _____ On Ice T No Ice _____

Direct from Sampling _____ Ambient _____ Melted Ice _____

By Gun # 577 Actual Temp - 2.4

Were samples within Temperature? 2-6°C T By Blank # _____ Actual Temp - _____

Was Custody Seal Intact? NA Were Samples Tampered with? NA

Was COC Relinquished ? T Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? T Were samples received within holding time? T

Did COC include all pertinent Information? Client T Project T Analysis T ID's T Sampler Name T Collection Dates/Times T

Are Sample labels filled out and legible? T

Are there Lab to Filters? F Who was notified? _____

Are there Rushes? T Who was notified? Raj, Emily, Irma

Are there Short Holds? T Who was notified? Irma

Is there enough Volume? T

Is there Headspace where applicable? F MS/MSD? F

Proper Media/Containers Used? T Is splitting samples required? F

Were trip blanks received? F On COC? F

Do all samples have the proper pH? Acid pH<2 Base _____

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.	6	1 Liter Plastic		16 oz Amb.	
HCL-	3	500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic	1	4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Comments:

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

August 16, 2018

Keith Decker
Land Remediation
74 Hudson River Road
Waterford, NY 12188

Project Location: Saranac Lake
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 18H0450

Enclosed are results of analyses for samples received by the laboratory on August 9, 2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Aaron L. Benoit
Project Manager

Table of Contents

Sample Summary 3

Case Narrative 4

Sample Results 5

18H0450-01 5

Sample Preparation Information 6

QC Data 7

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) 7

B209955 7

B210216 7

Flag/Qualifier Summary 8

Certifications 9

Chain of Custody/Sample Receipt 10

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Land Remediation
74 Hudson River Road
Waterford, NY 12188
ATTN: Keith Decker

REPORT DATE: 8/16/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18H0450

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Saranac Lake

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
OU2-WWTP-EFF-03	18H0450-01	Water		EPA 1664B SM 21-22 5210B	

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Tod E. Kopyscinski
Laboratory Director

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake | Sample Description: | Work Order: 18H0450

Date Received: 8/9/2018

Field Sample #: OU2-WWTP-EFF-03

Sample ID: 18H0450-01 | Start Date/Time: 8/8/2018 11:08:00AM

Sample Matrix: Water | Stop Date/Time: 8/8/2018 11:15:00AM

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Biochemical Oxygen Demand	17	12	mg/L	1		SM 21-22 5210B	8/9/18	8/9/18 18:00	LED
Oil & Grease (HEM)	ND	1.6	mg/L	1		EPA 1664B	8/14/18	8/14/18 12:10	LL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

EPA 1664B

Lab Number [Field ID]	Batch	Initial [mL]	Date
18H0450-01 [OU2-WWTP-EFF-03]	B210216	900	08/14/18

SM 21-22 5210B

Lab Number [Field ID]	Batch	Initial [mL]	Date
18H0450-01 [OU2-WWTP-EFF-03]	B209955	50.0	08/09/18

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B209955 - SM 21-22 5210B										
Blank (B209955-BLK1)				Prepared & Analyzed: 08/09/18						
Biochemical Oxygen Demand	ND	2.0	mg/L							
LCS (B209955-BS1)				Prepared & Analyzed: 08/09/18						
Biochemical Oxygen Demand	200	2.0	mg/L	198		99.9	85-115			
Batch B210216 - EPA 1664B										
Blank (B210216-BLK1)				Prepared & Analyzed: 08/14/18						
Oil & Grease (HEM)	ND	1.4	mg/L							
LCS (B210216-BS1)				Prepared & Analyzed: 08/14/18						
Oil & Grease (HEM)	20		mg/L	20.0		102	78-114			
LCS (B210216-BS2)				Prepared & Analyzed: 08/14/18						
Oil & Grease (HEM)	740		mg/L	800		92.0	78-114			
Duplicate (B210216-DUP1)	**Source: 18H0450-01**			Prepared & Analyzed: 08/14/18						
Oil & Grease (HEM)	ND	1.6	mg/L		ND			NC	18	
Matrix Spike (B210216-MS1)	**Source: 18H0450-01**			Prepared & Analyzed: 08/14/18						
Oil & Grease (HEM)	200	14	mg/L	200	ND	99.5	78-114			

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level

Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.

No results have been blank subtracted unless specified in the case narrative section.

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
EPA 1664B in Water	
Oil & Grease (HEM)	CT,MA,NH,NY,RI,NC,ME,VA
SM 21-22 5210B in Water	
Biochemical Oxygen Demand	CT,MA,NH,NY,RI,ME,VA,NC

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	03/1/2020
MA	Massachusetts DEP	M-MA100	06/30/2019
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2019
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2019
RI	Rhode Island Department of Health	LAO00112	12/30/2018
NC	North Carolina Div. of Water Quality	652	12/31/2018
NJ	New Jersey DEP	MA007 NELAP	06/30/2019
FL	Florida Department of Health	E871027 NELAP	06/30/2019
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2019
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2018
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2018
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2019
NC-DW	North Carolina Department of Health	25703	07/31/2019

1 of 1 H0550

18H0450

con-test® ANALYTICAL LABORATORY

http://www.contestlabs.com Doc # 380 Rev 1_03242017

CUSTODY RECORD (New York)

39 Spruce Street
East Longmeadow, MA 01028

Page _1_ of _1_

Phone: 413-525-23
Fax: 413-525-6405
Email: info@contestlabs.com

Company Name:	LAND Remediation
Address:	74 Hudson River Road Waterford, New York 12188
Phone:	518-766-4105
Project Name:	NYSDEC Saranac Lake Gas Co.
Project Location:	Saranac Lake OU2
Project Number:	-
Project Manager:	Matthew Warren
Con-Test Quote Name/Number:	
Invoice Recipient:	mjw@land-remediation.com
Sampled By:	Jacob Leverett, Kyle Jones

Requested Turnaround Time
7-Day ☐ 10-Day ☐
Due Date:

Rush Approval Required
1-Day ☑ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
CLP Like Data Pkg Required: ☐
Email To: mjw@land-remediation
Fax To #: jkl@land-remediation

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	BOD-5	TDS	TSS	Oil and Grease	SVOCs	VOCs	PCB	Metals (Lead, Zinc, Chromium)	pH			# of Containers
								1	1	1	2	2	3	2	1	1			[2] Preservation Code
									-	-	S		H	-	N	-			
								P	P	P	A	A	V	A	P	P			[3] Container Code
	OU2-WWTP-EFF-03	8/8/2018 11:08	8/8/2018 11:15	x		WW	L	x	x	x	x	x		x	x	x			
	OU2-WWTP-EFF03	8/8/2018 11:16	8/8/2018 11:18		x	WW	L						x						

ANALYSIS REQUESTED

Dissolved Metals Samples
☐ Field Filtered
☐ Lab to Filter

Orthophosphate Samples
☐ Field Filtered
☐ Lab to Filter

[1] Matrix Codes:
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define)

[2] Preservation Codes:
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

[3] Container Codes:
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Comments: (48 hours AT TDS/TSS/ Oil and Grease; 5-Day BOD (5-Day

Reference Attache SPDES Permit Equivalency - report only analytes listed on the permit.

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time: 14:01	8/8/2018
Received by: (signature)	Date/Time: 8-8-18	14:01
Relinquished by: (signature)	Date/Time: 8-9-18	11:03 AM
eived by: (signature) 2.4 8/9	Date/Time: 18	1103
nquished by: (signature)	Date/Time:	
eived by: (signature)	Date/Time:	

Program & Regulatory Information
☐ AWQ STDS ☐ NY TOGS
☐ NYC Sewer Discharge ☐ NY CP-51
☐ Part 360 GW (Landfill)
☐ NY Restricted Use
☐ NY Unrestricted Use
☐ NY Part 375
Other:

Deliverables
☐ Enhanced Data Package
☐ NYSDEC EQuIS EDD
☐ EQuIS (Standard) EDD
☐ NY Regulatory EDD
☐ NY Regs Hits-Only EDD
Other:
NELAC and AIHA-LAP, LLC Accredited

Project Entity
☑ Government ☐ Municipality ☐ MWRA ☐ WRTA
☐ Federal ☐ 21 J ☐ School
☐ City ☐ Brownfield ☐ MBTA

Other
☐ Chromatogram
☐ *AIHA-LAP,LLC*

PCB ONLY
☐ Soxhlet
☐ Non Soxhlet

Table of Contents

I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples_____

con-test® ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client LAND Remediation

Received By RAP Date 8/9/18 Time 1103

How were the samples received? In Cooler T No Cooler _____ On Ice T No Ice _____

Direct from Sampling _____ Ambient _____ Melted Ice _____

By Gun # 577 Actual Temp - 2.4

Were samples within Temperature? 2-6°C T By Blank # _____ Actual Temp - _____

Was Custody Seal Intact? NA Were Samples Tampered with? NA

Was COC Relinquished ? T Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? T Were samples received within holding time? T

Did COC include all pertinent Information? Client T Analysis T Sampler Name T

Project T ID's T Collection Dates/Times T

Are Sample labels filled out and legible? T

Are there Lab to Filters? F Who was notified? _____

Are there Rushes? T Who was notified? Irma

Are there Short Holds? T Who was notified? Irma

Is there enough Volume? T

Is there Headspace where applicable? F MS/MSD? F

Proper Media/Containers Used? T Is splitting samples required? F

Were trip blanks received? F On COC? F

Do all samples have the proper pH? N/A Acid _____ Base _____

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.	2	1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic	1	8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Comments:

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

August 13, 2018

Keith Decker
Land Remediation
74 Hudson River Road
Waterford, NY 12188

Project Location: Saranac Lake
Client Job Number:
Project Number: Saranac Lake OU2
Laboratory Work Order Number: 18H0449

Enclosed are results of analyses for samples received by the laboratory on August 9, 2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Aaron L. Benoit
Project Manager

Table of Contents

Sample Summary 3

Case Narrative 4

Sample Results 5

18H0449-01 5

Sample Preparation Information 7

QC Data 8

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) 8

B210032 8

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Dissolved) 9

B209988 9

Flag/Qualifier Summary 10

Certifications 11

Chain of Custody/Sample Receipt 12

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Land Remediation
74 Hudson River Road
Waterford, NY 12188
ATTN: Keith Decker

REPORT DATE: 8/13/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: Saranac Lake OU2

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18H0449

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Saranac Lake

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
OU2-WWTP-EFF-03	18H0449-01	Water		SM21-22 2540C SM21-22 2540D	

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

SM21-22 2540C

Qualifications:

R-02

Duplicate RPD is outside of control limits. Outlier can be attributed to sample non-homogeneity encountered during sample prep.

Analyte & Samples(s) Qualified:

Total Dissolved Solids
18H0449-01[OU2-WWTP-EFF-03], B209988-DUP1

SM21-22 2540D

Qualifications:

R-04

Duplicate relative percent difference (RPD) is a less useful indicator of sample precision for sample results that are <5 times the reporting limit (RL).

Analyte & Samples(s) Qualified:

Total Suspended Solids
18H0449-01[OU2-WWTP-EFF-03], B210032-DUP1

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Lisa A. Worthington
Project Manager

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake | Sample Description: | Work Order: 18H0449

Date Received: 8/9/2018

Field Sample #: OU2-WWTP-EFF-03

Sample ID: 18H0449-01 | Start Date/Time: 8/8/2018 11:08:00AM

Sample Matrix: Water | Stop Date/Time: 8/8/2018 11:15:00AM

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Suspended Solids	3.7	1.7	mg/L	1	R-04	SM21-22 2540D	8/9/18	8/9/18 15:55	LL

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake | Sample Description: | Work Order: 18H0449

Date Received: 8/9/2018

Field Sample #: OU2-WWTP-EFF-03

Sample ID: 18H0449-01 | Start Date/Time: 8/8/2018 11:08:00AM

Sample Matrix: Water | Stop Date/Time: 8/8/2018 11:15:00AM

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Dissolved)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Dissolved Solids	160	10	mg/L	1	R-02	SM21-22 2540C	8/10/18	8/10/18 12:10	LL

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

SM21-22 2540C

Lab Number [Field ID]	Batch	Initial [mL]	Date
18H0449-01 [OU2-WWTP-EFF-03]	B209988	50.0	08/10/18

SM21-22 2540D

Lab Number [Field ID]	Batch	Initial [mL]	Date
18H0449-01 [OU2-WWTP-EFF-03]	B210032	300	08/09/18

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD		RPD Limit	Notes
Batch B210032 - SM21-22 2540D											
Blank (B210032-BLK1)				Prepared & Analyzed: 08/09/18							
Total Suspended Solids	ND	2.5	mg/L								
LCS (B210032-BS1)				Prepared & Analyzed: 08/09/18							
Total Suspended Solids	196	10	mg/L	200		98.0	64.3-117				
Duplicate (B210032-DUP1)	**Source: 18H0449-01**			Prepared & Analyzed: 08/09/18							
Total Suspended Solids	3.3	1.7	mg/L		3.7			**11.4**	*	5	R-04

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Dissolved) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD		RPD Limit	Notes
Batch B209988 - SM21-22 2540C											
Blank (B209988-BLK1)				Prepared & Analyzed: 08/10/18							
Total Dissolved Solids	ND	10	mg/L								
LCS (B209988-BS1)				Prepared & Analyzed: 08/10/18							
Total Dissolved Solids	300	10	mg/L	293		104	61.4-114				
Duplicate (B209988-DUP1)	**Source: 18H0449-01**			Prepared & Analyzed: 08/10/18							
Total Dissolved Solids	140	10	mg/L		160			**9.27**	*	5	R-02

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
R-02	Duplicate RPD is outside of control limits. Outlier can be attributed to sample non-homogeneity encountered during sample prep.
R-04	Duplicate relative percent difference (RPD) is a less useful indicator of sample precision for sample results that are <5 times the reporting limit (RL).

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SM21-22 2540C in Water	
Total Dissolved Solids	CT,MA,NH,NY,RI,NC,ME,VA
SM21-22 2540D in Water	
Total Suspended Solids	CT,MA,NH,NY,RI,NC,ME,VA

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	03/1/2020
MA	Massachusetts DEP	M-MA100	06/30/2019
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2019
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2019
RI	Rhode Island Department of Health	LAO00112	12/30/2018
NC	North Carolina Div. of Water Quality	652	12/31/2018
NJ	New Jersey DEP	MA007 NELAP	06/30/2019
FL	Florida Department of Health	E871027 NELAP	06/30/2019
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2019
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2018
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2018
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2019
NC-DW	North Carolina Department of Health	25703	07/31/2019

18H0449

con-test® ANALYTICAL LABORATORY

http://www.contestlabs.com Doc # 380 Rev 1_03242017

Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com

CHAIN OF CUSTODY RECORD (New York)

39 Spruce Street
East Longmeadow, MA 01028

Page _1___ of __1___

Company Name:	LAND Remediation
Address:	74 Hudson River Road Waterford, New York 12188
Phone:	518-766-4105
Project Name:	NYSDEC Saranac Lake Gas Co.
Project Location:	Saranac Lake OU2
Project Number:	-
Project Manager:	Matthew Warren
Con-Test Quote Name/Number:	
Invoice Recipient:	mjw@land-remediation.com
Sampled By:	Jacob Leverett, Kyle Jones

Requested Turnaround Time
7-Day ☐ 10-Day ☐
Due Date:

Rush Approval Required
1-Day ☑ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
CLP Like Data Pkg Required: ☐
Email To: mjw@land-remediation
Fax To #: jkl@land-remediation

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	BOD-5	TDS	TSS	Oil and Grease	SVOCs	VOCs	PCB	Metals (Lead, Zinc, Chromium)	pH			# of Containers
								1	1	1	2	2	3	2	1	1			[2] Preservation Code
									-	-	S		H	-	N	-			
								P	P	P	A	A	V	A	P	P			[3] Container Code
1	OU2-WWTP-EFF-03	8/8/2018 11:08	8/8/2018 11:15	x		WW	L	x	x	x	x	x		x	x	x			
	OU2-WWTP-EFF03	8/8/2018 11:16	8/8/2018 11:18		x	WW	L						x						

ANALYSIS REQUESTED

Dissolved Metals Samples
☐ Field Filtered
☐ Lab to Filter

Orthophosphate Samples
☐ Field Filtered
☐ Lab to Filter

[1] Matrix Codes:
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define)

[2] Preservation Codes:
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

[3] Container Codes:
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Comments: (48 hours AT TDS/TSS/ Oil and Grease; 5-Day BOD (5-Day

Reference Attache SPDES Permit Equivalency - report only analytes listed on the permit.

Please use the following codes to indicate possible sample concentration within the **Conc Code** column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time: 14:01 8/8/2018
Received by: (signature)	Date/Time: 8-8-18 1401
Relinquished by: (signature)	Date/Time: 8-9-18 11:03 AM
Received by: (signature) 2.4 8/9	Date/Time: 18 1103
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Program & Regulatory Information
☐ AWQ STDS ☐ NY TOGS
☐ NYC Sewer Discharge ☐ NY CP-51
☐ Part 360 GW (Landfill)
☐ NY Restricted Use
☐ NY Unrestricted Use
☐ NY Part 375
Other:

Deliverables
☐ Enhanced Data Package
☐ NYSDEC EQuIS EDD
☐ EQuIS (Standard) EDD
☐ NY Regulatory EDD
☐ NY Regs Hits-Only EDD
Other:

NELAC and AIHA-LAP, LLC Accredited

Project Entity
☑ Government ☐ Municipality ☐ MWRA ☐ WRTA
☐ Federal ☐ 21 J ☐ School
☐ City ☐ Brownfield ☐ MBTA

Other
☐ Chromatogram
☐ *AIHA-LAP,LLC*

PCB ONLY
☐ Soxhlet
☐ Non Soxhlet

Table of Contents

I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples_____

con-test® ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client LAND Remediation

Received By RMP Date 8/9/18 Time 1603

How were the samples received? In Cooler T No Cooler _____ On Ice T No Ice _____ Direct from Sampling _____ Ambient _____ Melted Ice _____

Were samples within Temperature? 2-6°C T By Gun # 577 Actual Temp - 2.4 By Blank # _____ Actual Temp - _____

Was Custody Seal Intact? NA Were Samples Tampered with? NA

Was COC Relinquished ? T Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? T Were samples received within holding time? T

Did COC include all pertinent Information? Client T Project T Analysis T ID's T Sampler Name T Collection Dates/Times T

Are Sample labels filled out and legible? T

Are there Lab to Filters? F Who was notified? _____

Are there Rushes? T Who was notified? _____

Are there Short Holds? T Who was notified? Irma

Is there enough Volume? T

Is there Headspace where applicable? F MS/MSD? F

Proper Media/Containers Used? T Is splitting samples required? F

Were trip blanks received? F On COC? F

Do all samples have the proper pH? NA Acid _____ Base _____

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic	1	8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Comments:

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

August 27, 2018

Keith Decker
Land Remediation
74 Hudson River Road
Waterford, NY 12188

Project Location: Saranac Lake
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 18H1100

Enclosed are results of analyses for samples received by the laboratory on August 22, 2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Aaron L. Benoit
Project Manager

Table of Contents

Sample Summary 3

Case Narrative 4

Sample Results 5

18H1100-01 5

18H1100-02 10

Sample Preparation Information 12

QC Data 13

Volatile Organic Compounds by GC/MS 13

B210935 13

Volatile Organic Compounds by GC/MS 14

B210934 14

Semivolatile Organic Compounds by GC/MS 15

B210932 15

Polychlorinated Biphenyls By GC/ECD 17

B210868 17

Metals Analyses (Total) 18

B210787 18

B210792 18

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) 19

B210910 19

Pesticides Degradation Report 20

Dual Column RPD Report 22

Flag/Qualifier Summary 24

Certifications 25

Chain of Custody/Sample Receipt 27

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Land Remediation
74 Hudson River Road
Waterford, NY 12188
ATTN: Keith Decker

REPORT DATE: 8/27/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18H1100

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Saranac Lake

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
OU2-WWTP-EFF-04	18H1100-01	Waste Water		EPA 200.7	
				EPA 200.8	
				EPA 608.3	
				SM21-22 4500 H B	
				SW-846 8270D	
OU2-WWTP-EFF-04	18H1100-02	Waste Water		EPA 624.1	
				SW-846 8260C	

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

For method 8270, only PAHs were requested and reported.

SM21-22 4500 H B

Qualifications:

H-05

Holding time was exceeded. pH analysis should be performed immediately at time of sampling. Nominal 15 minute holding time was exceeded.

Analyte & Samples(s) Qualified:

pH

18H1100-01[OU2-WWTP-EFF-04], B210910-DUP1

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Tod E. Kopyscinski
Laboratory Director

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake | Sample Description: | Work Order: 18H1100

Date Received: 8/22/2018

Field Sample #: OU2-WWTP-EFF-04

Sample ID: 18H1100-01 | Start Date/Time: 8/21/2018 4:00:00PM

Sample Matrix: Waste Water | Stop Date/Time: 8/21/2018 4:09:00PM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene (SIM)	ND	0.30	0.060	µg/L	1		SW-846 8270D	8/22/18	8/23/18 10:01	IMR
Acenaphthylene (SIM)	ND	0.20	0.050	µg/L	1		SW-846 8270D	8/22/18	8/23/18 10:01	IMR
Anthracene (SIM)	ND	0.20	0.040	µg/L	1		SW-846 8270D	8/22/18	8/23/18 10:01	IMR
Benzo(a)anthracene (SIM)	ND	0.050	0.050	µg/L	1		SW-846 8270D	8/22/18	8/23/18 10:01	IMR
Benzo(a)pyrene (SIM)	ND	0.10	0.040	µg/L	1		SW-846 8270D	8/22/18	8/23/18 10:01	IMR
Benzo(b)fluoranthene (SIM)	ND	0.050	0.020	µg/L	1		SW-846 8270D	8/22/18	8/23/18 10:01	IMR
Benzo(g,h,i)perylene (SIM)	ND	0.50	0.070	µg/L	1		SW-846 8270D	8/22/18	8/23/18 10:01	IMR
Benzo(k)fluoranthene (SIM)	ND	0.040	0.020	µg/L	1		SW-846 8270D	8/22/18	8/23/18 10:57	IMR
Chrysene (SIM)	ND	0.20	0.030	µg/L	1		SW-846 8270D	8/22/18	8/23/18 10:01	IMR
Dibenz(a,h)anthracene (SIM)	ND	0.10	0.040	µg/L	1		SW-846 8270D	8/22/18	8/23/18 10:01	IMR
Fluoranthene (SIM)	ND	0.50	0.030	µg/L	1		SW-846 8270D	8/22/18	8/23/18 10:01	IMR
Fluorene (SIM)	ND	1.0	0.040	µg/L	1		SW-846 8270D	8/22/18	8/23/18 10:01	IMR
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.10	0.080	µg/L	1		SW-846 8270D	8/22/18	8/23/18 10:01	IMR
Naphthalene (SIM)	ND	1.0	0.070	µg/L	1		SW-846 8270D	8/22/18	8/23/18 10:01	IMR
Phenanthrene (SIM)	ND	0.050	0.040	µg/L	1		SW-846 8270D	8/22/18	8/23/18 10:01	IMR
Pyrene (SIM)	ND	1.0	0.030	µg/L	1		SW-846 8270D	8/22/18	8/23/18 10:01	IMR

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	96.6	30-130		8/23/18 10:01
Nitrobenzene-d5	77.0	30-130		8/23/18 10:57
2-Fluorobiphenyl	91.1	30-130		8/23/18 10:01
2-Fluorobiphenyl	56.2	30-130		8/23/18 10:57
p-Terphenyl-d14	82.8	30-130		8/23/18 10:01
p-Terphenyl-d14	62.3	30-130		8/23/18 10:57

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake | Sample Description: | Work Order: 18H1100

Date Received: 8/22/2018

Field Sample #: OU2-WWTP-EFF-04

Sample ID: 18H1100-01 | Start Date/Time: 8/21/2018 4:00:00PM

Sample Matrix: Waste Water | Stop Date/Time: 8/21/2018 4:09:00PM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Endosulfan I [1]	ND	0.0096	0.00041	µg/L	1		EPA 608.3	8/22/18	8/23/18 11:34	TG
Heptachlor epoxide [1]	ND	0.0096	0.00077	µg/L	1		EPA 608.3	8/22/18	8/23/18 11:34	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	92.1	30-150		8/23/18 11:34
Decachlorobiphenyl [2]	89.5	30-150		8/23/18 11:34
Tetrachloro-m-xylene [1]	93.6	30-150		8/23/18 11:34
Tetrachloro-m-xylene [2]	85.1	30-150		8/23/18 11:34

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake | Sample Description: | Work Order: 18H1100

Date Received: 8/22/2018

Field Sample #: OU2-WWTP-EFF-04

Sample ID: 18H1100-01 | Start Date/Time: 8/21/2018 4:00:00PM

Sample Matrix: Waste Water | Stop Date/Time: 8/21/2018 4:09:00PM

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.038	0.035	µg/L	1		EPA 608.3	8/22/18	8/23/18 10:50	PJG
Aroclor-1221 [1]	ND	0.038	0.031	µg/L	1		EPA 608.3	8/22/18	8/23/18 10:50	PJG
Aroclor-1232 [1]	ND	0.038	0.038	µg/L	1		EPA 608.3	8/22/18	8/23/18 10:50	PJG
Aroclor-1242 [1]	ND	0.038	0.033	µg/L	1		EPA 608.3	8/22/18	8/23/18 10:50	PJG
Aroclor-1248 [1]	ND	0.038	0.037	µg/L	1		EPA 608.3	8/22/18	8/23/18 10:50	PJG
Aroclor-1254 [1]	ND	0.038	0.020	µg/L	1		EPA 608.3	8/22/18	8/23/18 10:50	PJG
Aroclor-1260 [1]	ND	0.038	0.038	µg/L	1		EPA 608.3	8/22/18	8/23/18 10:50	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	101	30-150		8/23/18 10:50
Decachlorobiphenyl [2]	103	30-150		8/23/18 10:50
Tetrachloro-m-xylene [1]	90.0	30-150		8/23/18 10:50
Tetrachloro-m-xylene [2]	91.5	30-150		8/23/18 10:50

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake | Sample Description: | Work Order: 18H1100

Date Received: 8/22/2018

Field Sample #: OU2-WWTP-EFF-04

Sample ID: 18H1100-01 | Start Date/Time: 8/21/2018 4:00:00PM

Sample Matrix: Waste Water | Stop Date/Time: 8/21/2018 4:09:00PM

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Chromium	ND	0.0070	0.0061	mg/L	1		EPA 200.7	8/22/18	8/27/18 13:48	QNW
Lead	0.22	0.50	0.14	µg/L	1	J	EPA 200.8	8/21/18	8/26/18 21:11	MJH
Zinc	0.0077	0.010	0.0052	mg/L	1	J	EPA 200.7	8/22/18	8/27/18 13:48	QNW

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake | Sample Description: | Work Order: 18H1100

Date Received: 8/22/2018

Field Sample #: OU2-WWTP-EFF-04

Sample ID: 18H1100-01 | Start Date/Time: 8/21/2018 4:00:00PM

Sample Matrix: Waste Water | Stop Date/Time: 8/21/2018 4:09:00PM

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
pH @19.5°C	8.3		pH Units	1	H-05	SM21-22 4500 H B	8/22/18	8/22/18 20:02	LED

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake | Sample Description: | Work Order: 18H1100

Date Received: 8/22/2018

Field Sample #: OU2-WWTP-EFF-04

Sample ID: 18H1100-02 | Start Date/Time: 8/21/2018 4:12:00PM

Sample Matrix: Waste Water | Stop Date/Time: 8/21/2018 4:14:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Isopropylbenzene (Cumene)	ND	1.0	0.12	µg/L	1		SW-846 8260C	8/23/18	8/23/18 4:39	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	Date/Time Analyzed
1,2-Dichloroethane-d4	116	70-130		8/23/18 4:39
Toluene-d8	102	70-130		8/23/18 4:39
4-Bromofluorobenzene	89.7	70-130		8/23/18 4:39

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake | Sample Description: | Work Order: 18H1100

Date Received: 8/22/2018

Field Sample #: OU2-WWTP-EFF-04

Sample ID: 18H1100-02 | Start Date/Time: 8/21/2018 4:12:00PM

Sample Matrix: Waste Water | Stop Date/Time: 8/21/2018 4:14:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	1.0	0.34	µg/L	1		EPA 624.1	8/23/18	8/23/18 4:39	MFF
Ethylbenzene	ND	2.0	0.37	µg/L	1		EPA 624.1	8/23/18	8/23/18 4:39	MFF
1,2,4-Trimethylbenzene	ND	1.0	0.34	µg/L	1		EPA 624.1	8/23/18	8/23/18 4:39	MFF
Xylenes (total)	ND	3.0		µg/L	1		EPA 624.1	8/23/18	8/23/18 4:39	MFF
m+p Xylene	ND	2.0	0.65	µg/L	1		EPA 624.1	8/23/18	8/23/18 4:39	MFF
o-Xylene	ND	2.0	0.35	µg/L	1		EPA 624.1	8/23/18	8/23/18 4:39	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	116	70-130		8/23/18 4:39
Toluene-d8	102	70-130		8/23/18 4:39
4-Bromofluorobenzene	89.7	70-130		8/23/18 4:39

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: EPA 200.7-EPA 200.7

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18H1100-01 [OU2-WWTP-EFF-04]	B210787	50.0	50.0	08/22/18

Prep Method: EPA 200.8-EPA 200.8

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18H1100-01 [OU2-WWTP-EFF-04]	B210792	50.0	50.0	08/21/18

Prep Method: SW-846 3510C-EPA 608.3

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18H1100-01 [OU2-WWTP-EFF-04]	B210868	1040	2.00	08/22/18

Prep Method: SW-846 3510C-EPA 608.3

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18H1100-01 [OU2-WWTP-EFF-04]	B210874	1040	2.00	08/22/18

Prep Method: SW-846 5030B-EPA 624.1

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18H1100-02 [OU2-WWTP-EFF-04]	B210934	5	5.00	08/23/18

SM21-22 4500 H B

Lab Number [Field ID]	Batch	Initial [mL]	Date
18H1100-01 [OU2-WWTP-EFF-04]	B210910	50.0	08/22/18

Prep Method: SW-846 5030B-SW-846 8260C

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18H1100-02 [OU2-WWTP-EFF-04]	B210935	5	5.00	08/23/18

Prep Method: SW-846 3510C-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18H1100-01 [OU2-WWTP-EFF-04]	B210932	1000	1.00	08/22/18
18H1100-01RE1 [OU2-WWTP-EFF-04]	B210932	1000	0.200	08/22/18

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B210935 - SW-846 5030B										
Blank (B210935-BLK1)				Prepared & Analyzed: 08/23/18						
Isopropylbenzene (Cumene)	ND	1.0	µg/L							
Surrogate: 1,2-Dichloroethane-d4	*27.5*		µg/L	25.0		110	70-130			
Surrogate: Toluene-d8	*25.6*		µg/L	25.0		102	70-130			
Surrogate: 4-Bromofluorobenzene	*22.5*		µg/L	25.0		90.1	70-130			
LCS (B210935-BS1)				Prepared & Analyzed: 08/23/18						
Isopropylbenzene (Cumene)	21.6	1.0	µg/L	20.0		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	*28.8*		µg/L	25.0		115	70-130			
Surrogate: Toluene-d8	*25.3*		µg/L	25.0		101	70-130			
Surrogate: 4-Bromofluorobenzene	*24.0*		µg/L	25.0		96.0	70-130			
LCS Dup (B210935-BSD1)				Prepared & Analyzed: 08/23/18						
Isopropylbenzene (Cumene)	22.4	1.0	µg/L	20.0		112	70-130	3.55	25	
Surrogate: 1,2-Dichloroethane-d4	*28.0*		µg/L	25.0		112	70-130			
Surrogate: Toluene-d8	*25.2*		µg/L	25.0		101	70-130			
Surrogate: 4-Bromofluorobenzene	*23.9*		µg/L	25.0		95.7	70-130			

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B210934 - SW-846 5030B										
Blank (B210934-BLK1)				Prepared & Analyzed: 08/23/18						
Benzene	ND	1.0	µg/L							
Ethylbenzene	ND	2.0	µg/L							
1,2,4-Trimethylbenzene	ND	1.0	µg/L							
Xylenes (total)	ND	3.0	µg/L							
m+p Xylene	ND	2.0	µg/L							
o-Xylene	ND	2.0	µg/L							
Surrogate: 1,2-Dichloroethane-d4	*27.5*		µg/L	25.0		110	70-130			
Surrogate: Toluene-d8	*25.6*		µg/L	25.0		102	70-130			
Surrogate: 4-Bromofluorobenzene	*22.5*		µg/L	25.0		90.1	70-130			
LCS (B210934-BS1)				Prepared & Analyzed: 08/23/18						
Benzene	21.8	1.0	µg/L	20.0		109	65-135			
Ethylbenzene	21.4	2.0	µg/L	20.0		107	60-140			
1,2,4-Trimethylbenzene	24.0	1.0	µg/L	20.0		120	70-130			
m+p Xylene	43.2	2.0	µg/L	40.0		108	70-130			
o-Xylene	21.6	2.0	µg/L	20.0		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	*28.8*		µg/L	25.0		115	70-130			
Surrogate: Toluene-d8	*25.3*		µg/L	25.0		101	70-130			
Surrogate: 4-Bromofluorobenzene	*24.0*		µg/L	25.0		96.0	70-130			

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B210932 - SW-846 3510C										
Blank (B210932-BLK1)				Prepared: 08/22/18 Analyzed: 08/23/18						
Acenaphthene (SIM)	ND	0.30	µg/L							
Acenaphthylene (SIM)	ND	0.20	µg/L							
Anthracene (SIM)	ND	0.20	µg/L							
Benzo(a)anthracene (SIM)	ND	0.050	µg/L							
Benzo(a)pyrene (SIM)	ND	0.10	µg/L							
Benzo(b)fluoranthene (SIM)	ND	0.050	µg/L							
Benzo(g,h,i)perylene (SIM)	ND	0.50	µg/L							
Chrysene (SIM)	ND	0.20	µg/L							
Dibenz(a,h)anthracene (SIM)	ND	0.10	µg/L							
Fluoranthene (SIM)	ND	0.50	µg/L							
Fluorene (SIM)	ND	1.0	µg/L							
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.10	µg/L							
Naphthalene (SIM)	ND	1.0	µg/L							
Phenanthrene (SIM)	ND	0.050	µg/L							
Pyrene (SIM)	ND	1.0	µg/L							
Surrogate: Nitrobenzene-d5	*66.0*		µg/L	100		66.0	30-130			
Surrogate: 2-Fluorobiphenyl	*64.9*		µg/L	100		64.9	30-130			
Surrogate: p-Terphenyl-d14	*72.4*		µg/L	100		72.4	30-130			
Blank (B210932-BLK2)				Prepared: 08/22/18 Analyzed: 08/23/18						
Benzo(k)fluoranthene (SIM)	ND	0.040	µg/L							
Surrogate: Nitrobenzene-d5	*53.7*		µg/L	100		53.7	30-130			
Surrogate: 2-Fluorobiphenyl	*45.6*		µg/L	100		45.6	30-130			
Surrogate: p-Terphenyl-d14	*63.7*		µg/L	100		63.7	30-130			
LCS (B210932-BS1)				Prepared: 08/22/18 Analyzed: 08/23/18						
Acenaphthene (SIM)	37.1	7.5	µg/L	50.0		74.2	40-140			
Acenaphthylene (SIM)	38.4	5.0	µg/L	50.0		76.7	40-140			
Anthracene (SIM)	39.8	5.0	µg/L	50.0		79.6	40-140			
Benzo(a)anthracene (SIM)	40.1	1.2	µg/L	50.0		80.2	40-140			
Benzo(a)pyrene (SIM)	42.4	2.5	µg/L	50.0		84.8	40-140			
Benzo(b)fluoranthene (SIM)	44.0	1.2	µg/L	50.0		87.9	40-140			
Benzo(g,h,i)perylene (SIM)	40.9	12	µg/L	50.0		81.8	40-140			
Benzo(k)fluoranthene (SIM)	42.4	5.0	µg/L	50.0		84.8	40-140			
Chrysene (SIM)	39.0	5.0	µg/L	50.0		78.0	40-140			
Dibenz(a,h)anthracene (SIM)	43.8	2.5	µg/L	50.0		87.6	40-140			
Fluoranthene (SIM)	39.2	12	µg/L	50.0		78.4	40-140			
Fluorene (SIM)	38.9	25	µg/L	50.0		77.8	40-140			
Indeno(1,2,3-cd)pyrene (SIM)	43.5	2.5	µg/L	50.0		87.0	40-140			
Naphthalene (SIM)	32.9	25	µg/L	50.0		65.8	40-140			
Phenanthrene (SIM)	38.9	1.2	µg/L	50.0		77.8	40-140			
Pyrene (SIM)	38.8	25	µg/L	50.0		77.6	40-140			
Surrogate: Nitrobenzene-d5	*73.9*		µg/L	100		73.9	30-130			
Surrogate: 2-Fluorobiphenyl	*67.9*		µg/L	100		67.9	30-130			
Surrogate: p-Terphenyl-d14	*60.7*		µg/L	100		60.7	30-130			

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B210932 - SW-846 3510C										
LCS Dup (B210932-BSD1)				Prepared: 08/22/18 Analyzed: 08/23/18						
Acenaphthene (SIM)	32.8	7.5	µg/L	50.0		65.6	40-140	12.3	20	
Acenaphthylene (SIM)	34.2	5.0	µg/L	50.0		68.3	40-140	11.6	20	
Anthracene (SIM)	35.6	5.0	µg/L	50.0		71.2	40-140	11.2	20	
Benzo(a)anthracene (SIM)	35.6	1.2	µg/L	50.0		71.2	40-140	11.9	20	
Benzo(a)pyrene (SIM)	37.6	2.5	µg/L	50.0		75.2	40-140	12.1	20	
Benzo(b)fluoranthene (SIM)	39.0	1.2	µg/L	50.0		77.9	40-140	12.1	20	
Benzo(g,h,i)perylene (SIM)	36.4	12	µg/L	50.0		72.8	40-140	11.6	20	
Benzo(k)fluoranthene (SIM)	37.9	5.0	µg/L	50.0		75.8	40-140	11.2	20	
Chrysene (SIM)	34.8	5.0	µg/L	50.0		69.6	40-140	11.3	20	
Dibenz(a,h)anthracene (SIM)	38.9	2.5	µg/L	50.0		77.8	40-140	12.0	20	
Fluoranthene (SIM)	35.1	12	µg/L	50.0		70.2	40-140	11.1	20	
Fluorene (SIM)	34.2	25	µg/L	50.0		68.4	40-140	12.7	20	
Indeno(1,2,3-cd)pyrene (SIM)	38.8	2.5	µg/L	50.0		77.6	40-140	11.4	20	‡
Naphthalene (SIM)	28.2	25	µg/L	50.0		56.5	40-140	15.3	20	
Phenanthrene (SIM)	34.9	1.2	µg/L	50.0		69.8	40-140	10.8	20	
Pyrene (SIM)	34.5	25	µg/L	50.0		69.0	40-140	11.7	20	
Surrogate: Nitrobenzene-d5	*61.6*		µg/L	100		61.6	30-130			
Surrogate: 2-Fluorobiphenyl	*58.5*		µg/L	100		58.5	30-130			
Surrogate: p-Terphenyl-d14	*52.4*		µg/L	100		52.4	30-130			

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B210868 - SW-846 3510C										
Blank (B210868-BLK1)				Prepared: 08/22/18 Analyzed: 08/23/18						
Aroclor-1016	ND	0.040	µg/L							
Aroclor-1016 [2C]	ND	0.040	µg/L							
Aroclor-1221	ND	0.040	µg/L							
Aroclor-1221 [2C]	ND	0.040	µg/L							
Aroclor-1232	ND	0.040	µg/L							
Aroclor-1232 [2C]	ND	0.040	µg/L							
Aroclor-1242	ND	0.040	µg/L							
Aroclor-1242 [2C]	ND	0.040	µg/L							
Aroclor-1248	ND	0.040	µg/L							
Aroclor-1248 [2C]	ND	0.040	µg/L							
Aroclor-1254	ND	0.040	µg/L							
Aroclor-1254 [2C]	ND	0.040	µg/L							
Aroclor-1260	ND	0.040	µg/L							
Aroclor-1260 [2C]	ND	0.040	µg/L							
Surrogate: Decachlorobiphenyl	*1.73*		µg/L	2.00		86.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.30*		µg/L	2.00		65.2	30-150			
Surrogate: Tetrachloro-m-xylene	*1.49*		µg/L	2.00		74.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.12*		µg/L	2.00		55.8	30-150			
LCS (B210868-BS1)				Prepared: 08/22/18 Analyzed: 08/23/18						
Aroclor-1016	0.41	0.20	µg/L	0.500		82.5	50-140			
Aroclor-1016 [2C]	0.44	0.20	µg/L	0.500		87.9	50-140			
Aroclor-1260	0.37	0.20	µg/L	0.500		73.7	8-140			
Aroclor-1260 [2C]	0.40	0.20	µg/L	0.500		80.3	8-140			
Surrogate: Decachlorobiphenyl	*1.63*		µg/L	2.00		81.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.66*		µg/L	2.00		83.2	30-150			
Surrogate: Tetrachloro-m-xylene	*1.35*		µg/L	2.00		67.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.37*		µg/L	2.00		68.7	30-150			
LCS Dup (B210868-BSD1)				Prepared: 08/22/18 Analyzed: 08/23/18						
Aroclor-1016	0.46	0.20	µg/L	0.500		91.6	50-140	10.4		
Aroclor-1016 [2C]	0.53	0.20	µg/L	0.500		106	50-140	18.5		
Aroclor-1260	0.43	0.20	µg/L	0.500		86.7	8-140	16.3		
Aroclor-1260 [2C]	0.46	0.20	µg/L	0.500		91.6	8-140	13.2		
Surrogate: Decachlorobiphenyl	*1.86*		µg/L	2.00		93.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.90*		µg/L	2.00		95.2	30-150			
Surrogate: Tetrachloro-m-xylene	*1.62*		µg/L	2.00		81.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.65*		µg/L	2.00		82.3	30-150			

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B210787 - EPA 200.7										
Blank (B210787-BLK1)				Prepared: 08/22/18 Analyzed: 08/27/18						
Chromium	ND	0.0070	mg/L							
Zinc	ND	0.010	mg/L							
LCS (B210787-BS1)				Prepared: 08/22/18 Analyzed: 08/27/18						
Chromium	0.531	0.0070	mg/L	0.500		106	85-115			
Zinc	1.03	0.010	mg/L	1.00		103	85-115			
LCS Dup (B210787-BSD1)				Prepared: 08/22/18 Analyzed: 08/27/18						
Chromium	0.508	0.0070	mg/L	0.500		102	85-115	4.49	20	
Zinc	1.02	0.010	mg/L	1.00		102	85-115	0.736	20	
Batch B210792 - EPA 200.8										
Blank (B210792-BLK1)				Prepared: 08/21/18 Analyzed: 08/26/18						
Lead	ND	0.50	µg/L							
LCS (B210792-BS1)				Prepared: 08/21/18 Analyzed: 08/26/18						
Lead	515	5.0	µg/L	500		103	85-115			
LCS Dup (B210792-BSD1)				Prepared: 08/21/18 Analyzed: 08/26/18						
Lead	526	5.0	µg/L	500		105	85-115	2.05	20	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B210910 - SM21-22 4500 H B										
LCS (B210910-BS1)				Prepared & Analyzed: 08/22/18						
pH	6.01		pH Units	6.00		100	90-110			
Duplicate (B210910-DUP1)	**Source: 18H1100-01**			Prepared & Analyzed: 08/22/18						
pH	8.3		pH Units		8.3			0.120	5	H-05

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

BREAKDOWN REPORT

Lab Sample ID:	S026548-PEM1	Analyzed:	08/22/2018

Column Number: 1

Analyte	% Breakdown
4,4'-DDT [1]	1.73
Endrin [1]	1.58

Column Number: 2

Analyte	% Breakdown
4,4'-DDT [2]	1.82
Endrin [2]	1.75

BREAKDOWN REPORT

Lab Sample ID:	S026548-PEM2	Analyzed:	08/23/2018

Column Number: 1

Analyte	% Breakdown
4,4'-DDT [1]	2.30
Endrin [1]	2.19

Column Number: 2

Analyte	% Breakdown
4,4'-DDT [2]	2.41
Endrin [2]	2.22

BREAKDOWN REPORT

Lab Sample ID:	S026548-PEM3	Analyzed:	08/23/2018

Column Number: 1

Analyte	% Breakdown
4,4'-DDT [1]	2.26
Endrin [1]	2.02

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

BREAKDOWN REPORT

Lab Sample ID:	**S026548-PEM3**	**Analyzed:**	**08/23/2018**

Column Number: **2**

Analyte	% Breakdown
4,4'-DDT [2]	2.47
Endrin [2]	2.02

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

EPA 608.3

LCS

Lab Sample ID: B210868-BS1 Date(s) Analyzed 08/23/2018 08/23/2018

Instrument ID (1): ECD10 Instrument ID (2): ECD10

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.41	
	2	0.000	0.000	0.000	0.44	7.1
Aroclor-1260	1	0.000	0.000	0.000	0.37	
	2	0.000	0.000	0.000	0.40	7.8

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

EPA 608.3

LCS Dup

Lab Sample ID: B210868-BSD1 Date(s) Analyzed 08/23/2018 08/23/2018

Instrument ID (1): ECD10 Instrument ID (2): ECD10

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.46	
	2	0.000	0.000	0.000	0.53	14.1
Aroclor-1260	1	0.000	0.000	0.000	0.43	
	2	0.000	0.000	0.000	0.46	6.7

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
H-05	Holding time was exceeded. pH analysis should be performed immediately at time of sampling. Nominal 15 minute holding time was exceeded.
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
EPA 200.7 in Water	
Chromium	CT,MA,NH,NY,RI,NC,ME,VA
Zinc	CT,MA,NH,NY,RI,NC,ME,VA
EPA 200.8 in Water	
Lead	CT,MA,NH,NY,RI,NC,ME,VA
EPA 608.3 in Water	
Aroclor-1016	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1016 [2C]	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1221	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1221 [2C]	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1232	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1232 [2C]	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1242	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1242 [2C]	CT,MA,NH,NY,RI,NC,ME,VA
Endosulfan I	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1248	CT,MA,NH,NY,RI,NC,ME,VA
Endosulfan I [2C]	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1248 [2C]	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1254	CT,MA,NH,NY,RI,NC,ME,VA
Heptachlor Epoxide	CT,MA,NH,NY,RI,NC,ME,VA
Heptachlor Epoxide [2C]	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1254 [2C]	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1260	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1260 [2C]	CT,MA,NH,NY,RI,NC,ME,VA
EPA 624.1 in Water	
Benzene	CT,NY,RI,NC,MA,NH
Ethylbenzene	CT,NY,RI,NC,MA,NH
1,2,4-Trimethylbenzene	MA
Xylenes (total)	NY,MA,NH
m+p Xylene	CT,NY,RI,NC,MA,NH
o-Xylene	CT,NY,RI,NC,MA,NH
SM21-22 4500 H B in Water	
pH	CT,MA,RI
SW-846 8260C in Water	
Benzene	CT,ME,NH,VA,NY
Ethylbenzene	CT,ME,NH,VA,NY
Isopropylbenzene (Cumene)	ME,VA,NY
1,2,4-Trimethylbenzene	ME,VA,NY
m+p Xylene	CT,ME,NH,VA,NY
o-Xylene	CT,ME,NH,VA,NY
Xylenes (total)	NY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	03/1/2020
MA	Massachusetts DEP	M-MA100	06/30/2019
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2019
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2019
RI	Rhode Island Department of Health	LAO00112	12/30/2018
NC	North Carolina Div. of Water Quality	652	12/31/2018
NJ	New Jersey DEP	MA007 NELAP	06/30/2019
FL	Florida Department of Health	E871027 NELAP	06/30/2019
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2019
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2018
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2018
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2019
NC-DW	North Carolina Department of Health	25703	07/31/2019

18H1100

con-test ANALYTICAL LABORATORY

http://www.contestlabs.com Doc # 380 Rev 1_03242017

CHAIN OF CUSTODY RECORD (New York)

Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com

39 Spruce Street
East Longmeadow, MA 01028

Company Name:	LAND Remediation
Address:	74 Hudson River Road Waterford, New York 12188
Phone:	518-766-4105
Project Name:	NYSDEC Saranac Lake Gas Co.
Project Location:	Saranac Lake OU2
Project Number:	-
Project Manager:	Matthew Warren
Con-Test Quote Name/Number:	
Invoice Recipient:	mjw@land-remediation.com
Sampled By:	Ethan Bradt

Requested Turnaround Time
7-Day ☐ 10-Day ☐
Due Date:

Rush-Approval Required
1-Day ☑ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
CLP Like Data Pkg Required: ☐
Email To: mjw@land-remediation
Fax To #: jkl@land-remediation

ANALYSIS REQUESTED

	1	1	1	2	2	3	2	1	1			# of Containers
		-	-	S		H	-	N	-			[2] Preservation Code
	P	P	P	A	A	V	A	P	P			[3] Container Code
Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	BOD-5	TDS	TSS	Oil and Grease	SVOCs	VOCs	PCB	Metals (Lead, Zinc, Chromium)	pH		
1	OU2-WWTP-EFF-04	8/21 16:00	8/21 16:09	x		WW	L	x	x	x	x	x		x	x	x		
2	OU2-WWTP-EFF04	8/21 16:12	8/21 16:14		x	WW	L						x					

Dissolved Metals Samples
☐ Field Filtered
☐ Lab to Filter

Orthophosphate Samples
☐ Field Filtered
☐ Lab to Filter

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define)

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

[3] **Container Codes:**
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Comments: (48 hours AT TDS/TSS/ Oil and Grease; 5-Day BOD (5-Day

Reference Attache SPDES Permit Equivalency - report only analytes listed on the permit.

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time: 8/22 8/21/2018 7:41	
Received by: (signature)	Date/Time: 8-22-18 8:00	
Relinquished by: (signature)	Date/Time: 8/22/18 1400	
Received by: (signature) 8/22/18	Date/Time: 1420	
Relinquished by: (signature) 8/22/18	Date/Time: 1520	
Received by: (signature) 8-22-18	Date/Time: 15:20	

Program & Regulatory Information
☐ AWQ STDS ☐ NY TOGS
☐ NYC Sewer Discharge ☐ NY CP-51
☐ Part 360 GW (Landfill)
☐ NY Restricted Use
☐ NY Unrestricted Use
☐ NY Part 375
Other:

Deliverables
☐ Enhanced Data Package
☐ NYSDEC EQuIS EDD
☐ EQuIS (Standard) EDD
☐ NY Regulatory EDD
☐ NY Regs Hits-Only EDD
Other:

ELAP, AIHA-LAP, LLC Accredited

Project Entity
☑ Government ☐ Municipality ☐ MWRA ☐ WRTA
☐ Federal ☐ 21 J ☐ School
☐ City ☐ Brownfield ☐ MBTA

Other
☐ Chromatogram
☐ *AIHA-LAP,LLC*

PCB ONLY
☐ Soxhlet
☐ Non Soxhlet

Table of Contents

I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples_____

con-test® ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client Lane remediation Date 8-22-18 Time 15:20

Received By ESO

How were the samples received? In Cooler T No Cooler _____ On Ice T No Ice _____

Direct from Sampling _____ Ambient _____ Melted Ice _____

By Gun # 577 Actual Temp - 2.7

Were samples within Temperature? 2-6°C T By Blank # _____ Actual Temp - _____

Was Custody Seal Intact? NA Were Samples Tampered with? NA

Was COC Relinquished ? T Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? T Were samples received within holding time? T

Did COC include all pertinent Information? Client T Project T Analysis T ID's T Sampler Name T Collection Dates/Times T

Are Sample labels filled out and legible? T

Are there Lab to Filters? F

Are there Rushes? T

Are there Short Holds? T

Is there enough Volume? T

Is there Headspace where applicable? F

Proper Media/Containers Used? T

Were trip blanks received? F

Do all samples have the proper pH? Acid _____ Base _____

Who was notified? _____

Who was notified? Luke, Rich

Who was notified? Luke

MS/MSD? F

Is splitting samples required? F

On COC? F

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.	6	1 Liter Plastic		16 oz Amb.	
HCL-	3	500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic	2	4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Comments:

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

August 29, 2018

Keith Decker
Land Remediation
74 Hudson River Road
Waterford, NY 12188

Project Location: Saranac Lake
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 18H1102

Enclosed are results of analyses for samples received by the laboratory on August 22, 2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Aaron L. Benoit
Project Manager

Table of Contents

Sample Summary 3

Case Narrative 4

Sample Results 5

18H1102-01 5

Sample Preparation Information 6

QC Data 7

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) 7

B210904 7

B211256 7

Flag/Qualifier Summary 8

Certifications 9

Chain of Custody/Sample Receipt 10

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Land Remediation
74 Hudson River Road
Waterford, NY 12188
ATTN: Keith Decker

REPORT DATE: 8/29/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18H1102

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Saranac Lake

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
OU2-WWTP-EFF-04	18H1102-01	Waste Water		EPA 1664B SM 21-22 5210B	

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Lisa A. Worthington
Project Manager

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake | Sample Description: | Work Order: 18H1102

Date Received: 8/22/2018

Field Sample #: OU2-WWTP-EFF-04

Sample ID: 18H1102-01 | Start Date/Time: 8/21/2018 4:00:00PM

Sample Matrix: Waste Water | Stop Date/Time: 8/21/2018 4:09:00PM

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Biochemical Oxygen Demand	7.3	4.0	mg/L	1		SM 21-22 5210B	8/22/18	8/22/18 16:06	LED
Oil & Grease (HEM)	ND	1.6	mg/L	1		EPA 1664B	8/28/18	8/28/18 11:00	LL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

EPA 1664B

Lab Number [Field ID]	Batch	Initial [mL]	Date
18H1102-01 [OU2-WWTP-EFF-04]	B211256	900	08/28/18

SM 21-22 5210B

Lab Number [Field ID]	Batch	Initial [mL]	Date
18H1102-01 [OU2-WWTP-EFF-04]	B210904	150	08/22/18

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B210904 - SM 21-22 5210B										
Blank (B210904-BLK1)				Prepared & Analyzed: 08/22/18						
Biochemical Oxygen Demand	ND	2.0	mg/L							
LCS (B210904-BS1)				Prepared & Analyzed: 08/22/18						
Biochemical Oxygen Demand	180	2.0	mg/L	198		89.8	85-115			
Batch B211256 - EPA 1664B										
Blank (B211256-BLK1)				Prepared & Analyzed: 08/28/18						
Oil & Grease (HEM)	ND	1.4	mg/L							
Blank (B211256-BLK2)				Prepared & Analyzed: 08/28/18						
Oil & Grease (HEM)	ND	56	mg/L							
LCS (B211256-BS1)				Prepared & Analyzed: 08/28/18						
Oil & Grease (HEM)	16		mg/L	20.0		79.5	78-114			
LCS (B211256-BS2)				Prepared & Analyzed: 08/28/18						
Oil & Grease (HEM)	760		mg/L	800		95.5	78-114			
Matrix Spike (B211256-MS1)	**Source: 18H1102-01**			Prepared & Analyzed: 08/28/18						
Oil & Grease (HEM)	220	14	mg/L	200	ND	112	78-114			

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level

Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.

No results have been blank subtracted unless specified in the case narrative section.

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
EPA 1664B in Water	
Oil & Grease (HEM)	CT,MA,NH,NY,RI,NC,ME,VA
SM 21-22 5210B in Water	
Biochemical Oxygen Demand	CT,MA,NH,NY,RI,ME,VA,NC

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	03/1/2020
MA	Massachusetts DEP	M-MA100	06/30/2019
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2019
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2019
RI	Rhode Island Department of Health	LAO00112	12/30/2018
NC	North Carolina Div. of Water Quality	652	12/31/2018
NJ	New Jersey DEP	MA007 NELAP	06/30/2019
FL	Florida Department of Health	E871027 NELAP	06/30/2019
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2019
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2018
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2018
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2019
NC-DW	North Carolina Department of Health	25703	07/31/2019

con-test ANALYTICAL LABORATORY

1841102

http://www.contestlabs.com

Doc # 380 Rev 1_03242017

Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com

CHAIN OF CUSTODY RECORD (New York)

39 Spruce Street
East Longmeadow, MA 01028

Company Name:	LAND Remediation
Address:	74 Hudson River Road Waterford, New York 12188
Phone:	518-766-4105
Project Name:	NYSDEC Saranac Lake Gas Co.
Project Location:	Saranac Lake OU2
Project Number:	-
Project Manager:	Matthew Warren
Con-Test Quote Name/Number:	
Invoice Recipient:	mjw@land-remediation.com
Sampled By:	Ethan Bradt

Requested Turnaround Time
7-Day ☐ 10-Day ☐
Due Date:

Rush-Approval Required
1-Day ☑ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
CLP Like Data Pkg Required: ☐
Email To: mjw@land-remediation
Fax To #: jkl@land-remediation

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	BOD-5	TDS	TSS	Oil and Grease	SVOCs	VOCs	PCB	Metals (Lead, Zinc, Chromium)	pH			# of Containers
								1	1	1	2	2	3	2	1	1			[2] Preservation Code
									-	-	S		H	-	N	-			
								P	P	P	A	A	V	A	P	P			[3] Container Code
1	OU2-WWTP-EFF-04	8/21 16:00	8/21 16:09	x		WW	L	x	x	x	x	x		x	x	x			
2	OU2-WWTP-EFF04	8/21 16:12	8/21 16:14		x	WW	L						x						

ANALYSIS REQUESTED

Dissolved Metals Samples
☐ Field Filtered
☐ Lab to Filter

Orthophosphate Samples
☐ Field Filtered
☐ Lab to Filter

[1] Matrix Codes:
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define)

[2] Preservation Codes:
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

[3] Container Codes:
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Comments: (48 hours AT TDS/TSS/ Oil and Grease; 5-Day BOD (5-Day

Reference Attache SPDES Permit Equivalency - report only analytes listed on the permit.

Please use the following codes to indicate possible sample concentration within the **Conc Code** column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time: 7:41 8/22 8/21/2018
Received by: (signature)	Date/Time: 8-22-18 8:00
Relinquished by: (signature)	Date/Time: 8/22/18 1400
Received by: (signature) 8/22/18	Date/Time: 1400
Relinquished by: (signature) 8/22/18	Date/Time: 1520
Received by: (signature) 8-22-18	Date/Time: 15:20

Program & Regulatory Information
☐ AWQ STDS ☐ NY TOGS
☐ NYC Sewer Discharge ☐ NY CP-51
☐ Part 360 GW (Landfill)
☐ NY Restricted Use
☐ NY Unrestricted Use
☐ NY Part 375
Other:

Deliverables
☐ Enhanced Data Package
☐ NYSDEC EQuIS EDD
☐ EQuIS (Standard) EDD
☐ NY Regulatory EDD
☐ NY Regs Hits-Only EDD
Other:
NELAC and AIHA-LAP, LLC Accredited

Project Entity
☑ Government ☐ Municipality ☐ MWRA ☐ WRTA
☐ Federal ☐ 21 J ☐ School
☐ City ☐ Brownfield ☐ MBTA

Other
☐ Chromatogram
☐ *AIHA-LAP,LLC*

PCB ONLY
☐ Soxhlet
☐ Non Soxhlet

Table of Contents

I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples_____

con-test® ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client Lake remediation

Received By ESD Date 8-22-18 Time 15:20

How were the samples received? In Cooler T No Cooler _____ On Ice T No Ice _____

Direct from Sampling _____ Ambient _____ Melted Ice _____

By Gun # 577 Actual Temp - 2.7

Were samples within Temperature? 2-6°C T By Blank # _____ Actual Temp - _____

Was Custody Seal Intact? NA Were Samples Tampered with? NA

Was COC Relinquished ? T Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? T Were samples received within holding time? T

Did COC include all pertinent Information? Client T Analysis T Sampler Name T

Project T ID's T Collection Dates/Times T

Are Sample labels filled out and legible? T

Are there Lab to Filters? F Who was notified? _____

Are there Rushes? F Who was notified? _____

Are there Short Holds? T Who was notified? Luke

Is there enough Volume? T

Is there Headspace where applicable? F MS/MSD? F

Proper Media/Containers Used? T Is splitting samples required? F

Were trip blanks received? F On COC? P

Do all samples have the proper pH? NA Acid _____ Base _____

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.	2	1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic	1	8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Comments:

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

August 24, 2018

Keith Decker
Land Remediation
74 Hudson River Road
Waterford, NY 12188

Project Location: Saranac Lake
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 18H1101

Enclosed are results of analyses for samples received by the laboratory on August 22, 2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Aaron L. Benoit
Project Manager

Table of Contents

Sample Summary 3

Case Narrative 4

Sample Results 5

18H1101-01 5

Sample Preparation Information 7

QC Data 8

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) 8

B210931 8

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Dissolved) 9

B210930 9

Flag/Qualifier Summary 10

Certifications 11

Chain of Custody/Sample Receipt 12

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Land Remediation
74 Hudson River Road
Waterford, NY 12188
ATTN: Keith Decker

REPORT DATE: 8/24/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18H1101

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Saranac Lake

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
OU2-WWTP-EFF-04	18H1101-01	Waste Water		SM21-22 2540C SM21-22 2540D	

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Lisa A. Worthington
Project Manager

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake | Sample Description: | Work Order: 18H1101

Date Received: 8/22/2018

Field Sample #: OU2-WWTP-EFF-04

Sample ID: 18H1101-01 | Start Date/Time: 8/21/2018 4:00:00PM

Sample Matrix: Waste Water | Stop Date/Time: 8/21/2018 4:09:00PM

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Suspended Solids	ND	2.0	mg/L	1		SM21-22 2540D	8/23/18	8/23/18 14:30	LL

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake | Sample Description: | Work Order: 18H1101

Date Received: 8/22/2018

Field Sample #: OU2-WWTP-EFF-04

Sample ID: 18H1101-01 | Start Date/Time: 8/21/2018 4:00:00PM

Sample Matrix: Waste Water | Stop Date/Time: 8/21/2018 4:09:00PM

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Dissolved)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Dissolved Solids	68	10	mg/L	1		SM21-22 2540C	8/23/18	8/23/18 13:00	LL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

SM21-22 2540C

Lab Number [Field ID]	Batch	Initial [mL]	Date
18H1101-01 [OU2-WWTP-EFF-04]	B210930	50.0	08/23/18

SM21-22 2540D

Lab Number [Field ID]	Batch	Initial [mL]	Date
18H1101-01 [OU2-WWTP-EFF-04]	B210931	250	08/23/18

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B210931 - SM21-22 2540D										
Blank (B210931-BLK1)				Prepared & Analyzed: 08/23/18						
Total Suspended Solids	ND	2.5	mg/L							
LCS (B210931-BS1)				Prepared & Analyzed: 08/23/18						
Total Suspended Solids	166	10	mg/L	200		83.0	64.3-117			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Dissolved) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B210930 - SM21-22 2540C										
Blank (B210930-BLK1)				Prepared & Analyzed: 08/23/18						
Total Dissolved Solids	ND	10	mg/L							
LCS (B210930-BS1)				Prepared & Analyzed: 08/23/18						
Total Dissolved Solids	220	10	mg/L	293		76.5	61.4-114			

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level

Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.

No results have been blank subtracted unless specified in the case narrative section.

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SM21-22 2540C in Water	
Total Dissolved Solids	CT,MA,NH,NY,RI,NC,ME,VA
SM21-22 2540D in Water	
Total Suspended Solids	CT,MA,NH,NY,RI,NC,ME,VA

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	03/1/2020
MA	Massachusetts DEP	M-MA100	06/30/2019
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2019
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2019
RI	Rhode Island Department of Health	LAO00112	12/30/2018
NC	North Carolina Div. of Water Quality	652	12/31/2018
NJ	New Jersey DEP	MA007 NELAP	06/30/2019
FL	Florida Department of Health	E871027 NELAP	06/30/2019
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2019
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2018
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2018
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2019
NC-DW	North Carolina Department of Health	25703	07/31/2019

18H1101

con-test ANALYTICAL LABORATORY

http://www.contestlabs.com Doc # 380 Rev 1_03242017

Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com

CHAIN OF CUSTODY RECORD (New York)

39 Spruce Street
East Longmeadow, MA 01028

Page _1_ of _1_

Company Name:	LAND Remediation
Address:	74 Hudson River Road Waterford, New York 12188
Phone:	518-766-4105
Project Name:	NYSDEC Saranac Lake Gas Co.
Project Location:	Saranac Lake OU2
Project Number:	-
Project Manager:	Matthew Warren
Con-Test Quote Name/Number:	
Invoice Recipient:	mjw@land-remediation.com
Sampled By:	Ethan Bradt

Requested Turnaround Time
7-Day ☐ 10-Day ☐
Due Date:

Rush-Approval Required
1-Day ☑ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
CLP Like Data Pkg Required: ☐
Email To: mjw@land-remediation
Fax To #: jkl@land-remediation

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	BOD-5	TDS	TSS	Oil and Grease	SVOCs	VOCs	PCB	Metals (Lead, Zinc, Chromium)	pH	# of Containers
								1	1	1	2	2	3	2	1	1	
									-	-	S		H	-	N	-	
								P	P	P	A	A	V	A	P	P	[3] Container Code
1	OU2-WWTP-EFF-04	8/21 16:00	8/21 16:09	x		WW	L	x	x	x	x	x		x	x	x	
	OU2-WWTP-EFF04	8/21 16:12	8/21 16:14		x	WW	L						x				

ANALYSIS REQUESTED

Dissolved Metals Samples
☐ Field Filtered
☐ Lab to Filter

Orthophosphate Samples
☐ Field Filtered
☐ Lab to Filter

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define)

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

[3] **Container Codes:**
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Comments: (48 hours AT TDS/TSS/ Oil and Grease; 5-Day BOD (5-Day

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Reference Attache SPDES Permit Equivalency - report only analytes listed on the permit.

Relinquished by: (signature)	Date/Time: 7:41 8/22 8/21/2018	
Received by: (signature)	Date/Time: 8-22-18 8:00	
Relinquished by: (signature)	Date/Time: 8/22/18 1400	
Received by: (signature)	Date/Time: 1400	
Relinquished by: (signature)	Date/Time: 1520	
Received by: (signature)	Date/Time: 15:20	

Program & Regulatory Information
☐ AWQ STDS ☐ NY TOGS
☐ NYC Sewer Discharge ☐ NY CP-51
☐ Part 360 GW (Landfill)
☐ NY Restricted Use
☐ NY Unrestricted Use
☐ NY Part 375

Deliverables
☐ Enhanced Data Package
☐ NYSDEC EQuIS EDD
☐ EQuIS (Standard) EDD
☐ NY Regulatory EDD
☐ NY Regs Hits-Only EDD

Other:
Project Entity
☑ Government ☐ Municipality ☐ MWRA ☐ WRTA
☐ Federal ☐ 21 J ☐ School
☐ City ☐ Brownfield ☐ MBTA

Other:
Other
☐ Chromatogram
☐ AIHA-LAP,LLC

PCB ONLY
☐ Soxhlet
☐ Non Soxhlet

Page 12 of 13

Table of Contents

I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples_____

con-test® ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client Lahz remediation

Received By ESD Date 8-22-18 Time 15:20

How were the samples received? In Cooler T No Cooler _____ On Ice T No Ice _____

Direct from Sampling _____ Ambient _____ Melted Ice _____

By Gun # 577 Actual Temp - 2.7

Were samples within Temperature? 2-6°C T By Blank # _____ Actual Temp - _____

Was Custody Seal Intact? NA Were Samples Tampered with? NA

Was COC Relinquished ? T Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? T Were samples received within holding time? T

Did COC include all pertinent Information? Client T Analysis T Sampler Name T

Project T ID's T Collection Dates/Times T

Are Sample labels filled out and legible? T

Are there Lab to Filters? F Who was notified? _____

Are there Rushes? T Who was notified? Luke

Are there Short Holds? F Who was notified? _____

Is there enough Volume? T

Is there Headspace where applicable? F MS/MSD? F

Proper Media/Containers Used? T Is splitting samples required? F

Were trip blanks received? F On COC? F

Do all samples have the proper pH? NA Acid _____ Base _____

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic	1	8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Comments:

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

September 5, 2018

Keith Decker
Land Remediation
74 Hudson River Road
Waterford, NY 12188

Project Location: Saranac Lake
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 18H1500

Enclosed are results of analyses for samples received by the laboratory on August 31, 2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Aaron L. Benoit
Project Manager

Table of Contents

Sample Summary 4

Case Narrative 5

Sample Results 6

18H1500-01 6

18H1500-02 11

Sample Preparation Information 13

QC Data 14

Volatile Organic Compounds by GC/MS 14

B211658 14

Volatile Organic Compounds by GC/MS 15

B211656 15

Semivolatile Organic Compounds by GC/MS 16

B211686 16

Organochloride Pesticides by GC/ECD 18

B211579 18

Polychlorinated Biphenyls By GC/ECD 19

B211519 19

Metals Analyses (Total) 20

B211598 20

B211600 20

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) 21

B211604 21

Pesticides Degradation Report 22

Dual Column RPD Report 24

Flag/Qualifier Summary 28

Table of Contents (continued)

Certifications 29

Chain of Custody/Sample Receipt 31

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Land Remediation
74 Hudson River Road
Waterford, NY 12188
ATTN: Keith Decker

REPORT DATE: 9/5/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18H1500

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Saranac Lake

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
OU2-WWTP-EFF-05	18H1500-01	Waste Water		EPA 200.7	
				EPA 200.8	
				EPA 608.3	
				SM21-22 4500 H B	
				SW-846 8270D	
OU2-WWTP-EFF-05	18H1500-02	Waste Water		EPA 624.1	
				SW-846 8260C	

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

For method 8270, only PAHs were requested and reported.

SM21-22 4500 H B

Qualifications:

H-05

Holding time was exceeded. pH analysis should be performed immediately at time of sampling. Nominal 15 minute holding time was exceeded.

Analyte & Samples(s) Qualified:

pH

18H1500-01[OU2-WWTP-EFF-05]

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Lisa A. Worthington
Project Manager

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake | Sample Description: | Work Order: 18H1500

Date Received: 8/31/2018

Field Sample #: OU2-WWTP-EFF-05

Sample ID: 18H1500-01 | Start Date/Time: 8/29/2018 4:27:00PM

Sample Matrix: Waste Water | Stop Date/Time: 8/29/2018 4:32:00PM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene (SIM)	ND	0.29	0.058	µg/L	1		SW-846 8270D	8/31/18	9/4/18 19:57	IMR
Acenaphthylene (SIM)	ND	0.19	0.048	µg/L	1		SW-846 8270D	8/31/18	9/4/18 19:57	IMR
Anthracene (SIM)	ND	0.19	0.038	µg/L	1		SW-846 8270D	8/31/18	9/4/18 19:57	IMR
Benzo(a)anthracene (SIM)	ND	0.048	0.048	µg/L	1		SW-846 8270D	8/31/18	9/4/18 19:57	IMR
Benzo(a)pyrene (SIM)	ND	0.096	0.038	µg/L	1		SW-846 8270D	8/31/18	9/4/18 19:57	IMR
Benzo(b)fluoranthene (SIM)	ND	0.048	0.019	µg/L	1		SW-846 8270D	8/31/18	9/4/18 19:57	IMR
Benzo(g,h,i)perylene (SIM)	ND	0.48	0.067	µg/L	1		SW-846 8270D	8/31/18	9/4/18 19:57	IMR
Benzo(k)fluoranthene (SIM)	ND	0.19	0.096	µg/L	1		SW-846 8270D	8/31/18	9/4/18 19:57	IMR
Chrysene (SIM)	ND	0.19	0.029	µg/L	1		SW-846 8270D	8/31/18	9/4/18 19:57	IMR
Dibenz(a,h)anthracene (SIM)	ND	0.096	0.038	µg/L	1		SW-846 8270D	8/31/18	9/4/18 19:57	IMR
Fluoranthene (SIM)	ND	0.48	0.029	µg/L	1		SW-846 8270D	8/31/18	9/4/18 19:57	IMR
Fluorene (SIM)	ND	0.96	0.038	µg/L	1		SW-846 8270D	8/31/18	9/4/18 19:57	IMR
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.096	0.077	µg/L	1		SW-846 8270D	8/31/18	9/4/18 19:57	IMR
Naphthalene (SIM)	ND	0.96	0.067	µg/L	1		SW-846 8270D	8/31/18	9/4/18 19:57	IMR
Phenanthrene (SIM)	ND	0.048	0.038	µg/L	1		SW-846 8270D	8/31/18	9/4/18 19:57	IMR
Pyrene (SIM)	ND	0.96	0.029	µg/L	1		SW-846 8270D	8/31/18	9/4/18 19:57	IMR

Surrogates	% Recovery	Recovery Limits	Flag/Qual		
Nitrobenzene-d5	69.2	30-130		9/4/18 19:57	
2-Fluorobiphenyl	76.5	30-130		9/4/18 19:57	
p-Terphenyl-d14	76.4	30-130		9/4/18 19:57	

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake | Sample Description: | Work Order: 18H1500

Date Received: 8/31/2018

Field Sample #: OU2-WWTP-EFF-05

Sample ID: 18H1500-01 | Start Date/Time: 8/29/2018 4:27:00PM

Sample Matrix: Waste Water | Stop Date/Time: 8/29/2018 4:32:00PM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Endosulfan I [2]	ND	0.0096	0.00041	µg/L	1		EPA 608.3	8/31/18	9/5/18 0:51	TG
Heptachlor epoxide [2]	ND	0.0096	0.00077	µg/L	1		EPA 608.3	8/31/18	9/5/18 0:51	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	85.6	30-150		9/5/18 0:51
Decachlorobiphenyl [2]	79.2	30-150		9/5/18 0:51
Tetrachloro-m-xylene [1]	87.4	30-150		9/5/18 0:51
Tetrachloro-m-xylene [2]	76.7	30-150		9/5/18 0:51

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake | Sample Description: | Work Order: 18H1500

Date Received: 8/31/2018

Field Sample #: OU2-WWTP-EFF-05

Sample ID: 18H1500-01 | Start Date/Time: 8/29/2018 4:27:00PM

Sample Matrix: Waste Water | Stop Date/Time: 8/29/2018 4:32:00PM

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.038	0.035	µg/L	1		EPA 608.3	8/31/18	9/4/18 11:13	KAL
Aroclor-1221 [1]	ND	0.038	0.031	µg/L	1		EPA 608.3	8/31/18	9/4/18 11:13	KAL
Aroclor-1232 [1]	ND	0.038	0.038	µg/L	1		EPA 608.3	8/31/18	9/4/18 11:13	KAL
Aroclor-1242 [1]	ND	0.038	0.033	µg/L	1		EPA 608.3	8/31/18	9/4/18 11:13	KAL
Aroclor-1248 [1]	ND	0.038	0.037	µg/L	1		EPA 608.3	8/31/18	9/4/18 11:13	KAL
Aroclor-1254 [1]	ND	0.038	0.020	µg/L	1		EPA 608.3	8/31/18	9/4/18 11:13	KAL
Aroclor-1260 [1]	ND	0.038	0.038	µg/L	1		EPA 608.3	8/31/18	9/4/18 11:13	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	83.0	30-150		9/4/18 11:13
Decachlorobiphenyl [2]	96.0	30-150		9/4/18 11:13
Tetrachloro-m-xylene [1]	75.9	30-150		9/4/18 11:13
Tetrachloro-m-xylene [2]	78.5	30-150		9/4/18 11:13

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake | Sample Description: | Work Order: 18H1500

Date Received: 8/31/2018

Field Sample #: OU2-WWTP-EFF-05

Sample ID: 18H1500-01 | Start Date/Time: 8/29/2018 4:27:00PM

Sample Matrix: Waste Water | Stop Date/Time: 8/29/2018 4:32:00PM

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Chromium	ND	0.0070	0.0061	mg/L	1		EPA 200.7	8/31/18	9/4/18 14:49	QNW
Lead	0.18	0.50	0.14	µg/L	1	J	EPA 200.8	8/31/18	9/4/18 16:04	QNW
Zinc	ND	0.010	0.0052	mg/L	1		EPA 200.7	8/31/18	9/4/18 14:49	QNW

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake | Sample Description: | Work Order: 18H1500

Date Received: 8/31/2018

Field Sample #: OU2-WWTP-EFF-05

Sample ID: 18H1500-01 | Start Date/Time: 8/29/2018 4:27:00PM

Sample Matrix: Waste Water | Stop Date/Time: 8/29/2018 4:32:00PM

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
pH @18.8°C	8.0		pH Units	1	H-05	SM21-22 4500 H B	8/31/18	8/31/18 16:32	AIA

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake | Sample Description: | Work Order: 18H1500

Date Received: 8/31/2018

Field Sample #: OU2-WWTP-EFF-05

Sample ID: 18H1500-02 | Start Date/Time: 8/29/2018 4:32:00PM

Sample Matrix: Waste Water | Stop Date/Time: 8/29/2018 4:33:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Isopropylbenzene (Cumene)	ND	1.0	0.12	µg/L	1		SW-846 8260C	9/4/18	9/4/18 10:51	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	105	70-130		9/4/18 10:51
Toluene-d8	103	70-130		9/4/18 10:51
4-Bromofluorobenzene	105	70-130		9/4/18 10:51

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake | Sample Description: | Work Order: 18H1500

Date Received: 8/31/2018

Field Sample #: OU2-WWTP-EFF-05

Sample ID: 18H1500-02 | Start Date/Time: 8/29/2018 4:32:00PM

Sample Matrix: Waste Water | Stop Date/Time: 8/29/2018 4:33:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	1.0	0.34	µg/L	1		EPA 624.1	9/4/18	9/4/18 10:51	LBD
Ethylbenzene	ND	2.0	0.37	µg/L	1		EPA 624.1	9/4/18	9/4/18 10:51	LBD
1,2,4-Trimethylbenzene	ND	1.0	0.34	µg/L	1		EPA 624.1	9/4/18	9/4/18 10:51	LBD
Xylenes (total)	ND	3.0		µg/L	1		EPA 624.1	9/4/18	9/4/18 10:51	LBD
m+p Xylene	ND	2.0	0.65	µg/L	1		EPA 624.1	9/4/18	9/4/18 10:51	LBD
o-Xylene	ND	2.0	0.35	µg/L	1		EPA 624.1	9/4/18	9/4/18 10:51	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	105	70-130		9/4/18 10:51
Toluene-d8	103	70-130		9/4/18 10:51
4-Bromofluorobenzene	105	70-130		9/4/18 10:51

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: EPA 200.7-EPA 200.7

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18H1500-01 [OU2-WWTP-EFF-05]	B211598	50.0	50.0	08/31/18

Prep Method: EPA 200.8-EPA 200.8

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18H1500-01 [OU2-WWTP-EFF-05]	B211600	50.0	50.0	08/31/18

Prep Method: SW-846 3510C-EPA 608.3

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18H1500-01 [OU2-WWTP-EFF-05]	B211519	1040	2.00	08/31/18

Prep Method: SW-846 3510C-EPA 608.3

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18H1500-01 [OU2-WWTP-EFF-05]	B211579	1040	2.00	08/31/18

Prep Method: SW-846 5030B-EPA 624.1

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18H1500-02 [OU2-WWTP-EFF-05]	B211656	5	5.00	09/04/18

SM21-22 4500 H B

Lab Number [Field ID]	Batch	Initial [mL]	Date
18H1500-01 [OU2-WWTP-EFF-05]	B211604	50.0	08/31/18

Prep Method: SW-846 5030B-SW-846 8260C

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18H1500-02 [OU2-WWTP-EFF-05]	B211658	5	5.00	09/04/18

Prep Method: SW-846 3510C-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18H1500-01 [OU2-WWTP-EFF-05]	B211686	1040	1.00	08/31/18

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B211658 - SW-846 5030B										
Blank (B211658-BLK1)				Prepared & Analyzed: 09/04/18						
Isopropylbenzene (Cumene)	ND	1.0	µg/L							
Toluene	ND	1.0	µg/L							
Surrogate: 1,2-Dichloroethane-d4	*25.5*		µg/L	25.0		102	70-130			
Surrogate: Toluene-d8	*25.9*		µg/L	25.0		103	70-130			
Surrogate: 4-Bromofluorobenzene	*26.6*		µg/L	25.0		106	70-130			
LCS (B211658-BS1)				Prepared & Analyzed: 09/04/18						
Isopropylbenzene (Cumene)	21.4	1.0	µg/L	20.0		107	70-130			
Toluene	22.7	1.0	µg/L	20.0		113	70-130			
Surrogate: 1,2-Dichloroethane-d4	*25.4*		µg/L	25.0		102	70-130			
Surrogate: Toluene-d8	*25.4*		µg/L	25.0		102	70-130			
Surrogate: 4-Bromofluorobenzene	*27.1*		µg/L	25.0		108	70-130			
LCS Dup (B211658-BSD1)				Prepared & Analyzed: 09/04/18						
Isopropylbenzene (Cumene)	20.7	1.0	µg/L	20.0		104	70-130	3.51	25	
Toluene	22.6	1.0	µg/L	20.0		113	70-130	0.309	25	
Surrogate: 1,2-Dichloroethane-d4	*25.7*		µg/L	25.0		103	70-130			
Surrogate: Toluene-d8	*25.8*		µg/L	25.0		103	70-130			
Surrogate: 4-Bromofluorobenzene	*26.4*		µg/L	25.0		106	70-130			

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B211656 - SW-846 5030B										
Blank (B211656-BLK1)				Prepared & Analyzed: 09/04/18						
Benzene	ND	1.0	µg/L							
Ethylbenzene	ND	2.0	µg/L							
1,2,4-Trimethylbenzene	ND	1.0	µg/L							
Xylenes (total)	ND	3.0	µg/L							
m+p Xylene	ND	2.0	µg/L							
o-Xylene	ND	2.0	µg/L							
Surrogate: 1,2-Dichloroethane-d4	*25.5*		µg/L	25.0		102	70-130			
Surrogate: Toluene-d8	*25.9*		µg/L	25.0		103	70-130			
Surrogate: 4-Bromofluorobenzene	*26.6*		µg/L	25.0		106	70-130			
LCS (B211656-BS1)				Prepared & Analyzed: 09/04/18						
Benzene	23.2	1.0	µg/L	20.0		116	65-135			
Ethylbenzene	20.0	2.0	µg/L	20.0		99.9	60-140			
1,2,4-Trimethylbenzene	19.4	1.0	µg/L	20.0		96.8	70-130			
m+p Xylene	41.1	2.0	µg/L	40.0		103	70-130			
o-Xylene	20.5	2.0	µg/L	20.0		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	*25.7*		µg/L	25.0		103	70-130			
Surrogate: Toluene-d8	*25.8*		µg/L	25.0		103	70-130			
Surrogate: 4-Bromofluorobenzene	*26.4*		µg/L	25.0		106	70-130			

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B211686 - SW-846 3510C										
Blank (B211686-BLK1)				Prepared: 08/31/18 Analyzed: 09/04/18						
Acenaphthene (SIM)	ND	0.30	µg/L							
Acenaphthylene (SIM)	ND	0.20	µg/L							
Anthracene (SIM)	ND	0.20	µg/L							
Benzo(a)anthracene (SIM)	ND	0.050	µg/L							
Benzo(a)pyrene (SIM)	ND	0.10	µg/L							
Benzo(b)fluoranthene (SIM)	ND	0.050	µg/L							
Benzo(g,h,i)perylene (SIM)	ND	0.50	µg/L							
Benzo(k)fluoranthene (SIM)	ND	0.20	µg/L							
Chrysene (SIM)	ND	0.20	µg/L							
Dibenz(a,h)anthracene (SIM)	ND	0.10	µg/L							
Fluoranthene (SIM)	ND	0.50	µg/L							
Fluorene (SIM)	ND	1.0	µg/L							
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.10	µg/L							
Naphthalene (SIM)	ND	1.0	µg/L							
Phenanthrene (SIM)	ND	0.050	µg/L							
Pyrene (SIM)	ND	1.0	µg/L							
Surrogate: Nitrobenzene-d5	*76.1*		µg/L	100		76.1	30-130			
Surrogate: 2-Fluorobiphenyl	*76.6*		µg/L	100		76.6	30-130			
Surrogate: p-Terphenyl-d14	*95.4*		µg/L	100		95.4	30-130			
LCS (B211686-BS1)				Prepared: 08/31/18 Analyzed: 09/04/18						
Acenaphthene (SIM)	31.0	7.5	µg/L	50.0		62.0	40-140			
Acenaphthylene (SIM)	32.0	5.0	µg/L	50.0		64.0	40-140			
Anthracene (SIM)	34.0	5.0	µg/L	50.0		68.0	40-140			
Benzo(a)anthracene (SIM)	33.7	1.2	µg/L	50.0		67.4	40-140			
Benzo(a)pyrene (SIM)	35.8	2.5	µg/L	50.0		71.7	40-140			
Benzo(b)fluoranthene (SIM)	37.2	1.2	µg/L	50.0		74.4	40-140			
Benzo(g,h,i)perylene (SIM)	34.8	12	µg/L	50.0		69.5	40-140			
Benzo(k)fluoranthene (SIM)	36.4	5.0	µg/L	50.0		72.7	40-140			
Chrysene (SIM)	32.7	5.0	µg/L	50.0		65.4	40-140			
Dibenz(a,h)anthracene (SIM)	36.3	2.5	µg/L	50.0		72.6	40-140			
Fluoranthene (SIM)	33.0	12	µg/L	50.0		66.1	40-140			
Fluorene (SIM)	32.3	25	µg/L	50.0		64.6	40-140			
Indeno(1,2,3-cd)pyrene (SIM)	36.7	2.5	µg/L	50.0		73.4	40-140			
Naphthalene (SIM)	27.0	25	µg/L	50.0		54.0	40-140			
Phenanthrene (SIM)	33.3	1.2	µg/L	50.0		66.6	40-140			
Pyrene (SIM)	32.9	25	µg/L	50.0		65.8	40-140			
Surrogate: Nitrobenzene-d5	*58.7*		µg/L	100		58.7	30-130			
Surrogate: 2-Fluorobiphenyl	*56.2*		µg/L	100		56.2	30-130			
Surrogate: p-Terphenyl-d14	*54.1*		µg/L	100		54.1	30-130			
LCS Dup (B211686-BSD1)				Prepared: 08/31/18 Analyzed: 09/04/18						
Acenaphthene (SIM)	29.1	7.5	µg/L	50.0		58.2	40-140	6.49	20	
Acenaphthylene (SIM)	29.8	5.0	µg/L	50.0		59.7	40-140	6.87	20	
Anthracene (SIM)	30.6	5.0	µg/L	50.0		61.2	40-140	10.5	20	
Benzo(a)anthracene (SIM)	29.8	1.2	µg/L	50.0		59.6	40-140	12.3	20	
Benzo(a)pyrene (SIM)	31.8	2.5	µg/L	50.0		63.5	40-140	12.1	20	
Benzo(b)fluoranthene (SIM)	33.1	1.2	µg/L	50.0		66.2	40-140	11.7	20	
Benzo(g,h,i)perylene (SIM)	30.8	12	µg/L	50.0		61.5	40-140	12.2	20	
Benzo(k)fluoranthene (SIM)	32.5	5.0	µg/L	50.0		65.0	40-140	11.1	20	
Chrysene (SIM)	29.2	5.0	µg/L	50.0		58.3	40-140	11.4	20	
Dibenz(a,h)anthracene (SIM)	32.1	2.5	µg/L	50.0		64.2	40-140	12.4	20	

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B211686 - SW-846 3510C										
LCS Dup (B211686-BSD1)				Prepared: 08/31/18 Analyzed: 09/04/18						
Fluoranthene (SIM)	30.0	12	µg/L	50.0		60.1	40-140	9.51	20	
Fluorene (SIM)	30.0	25	µg/L	50.0		60.0	40-140	7.31	20	
Indeno(1,2,3-cd)pyrene (SIM)	32.4	2.5	µg/L	50.0		64.8	40-140	12.5	20	‡
Naphthalene (SIM)	25.3	25	µg/L	50.0		50.6	40-140	6.69	20	
Phenanthrene (SIM)	30.0	1.2	µg/L	50.0		60.0	40-140	10.4	20	
Pyrene (SIM)	29.1	25	µg/L	50.0		58.2	40-140	12.2	20	
Surrogate: Nitrobenzene-d5	*54.6*		µg/L	100		54.6	30-130			
Surrogate: 2-Fluorobiphenyl	*54.5*		µg/L	100		54.5	30-130			
Surrogate: p-Terphenyl-d14	*47.1*		µg/L	100		47.1	30-130			

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B211579 - SW-846 3510C										
Blank (B211579-BLK1)				Prepared: 08/31/18 Analyzed: 09/04/18						
Endosulfan I	ND	0.010	µg/L							
Endosulfan I [2C]	ND	0.010	µg/L							
Heptachlor Epoxide	ND	0.010	µg/L							
Heptachlor Epoxide [2C]	ND	0.010	µg/L							
Surrogate: Decachlorobiphenyl	*0.342*		µg/L	0.400		85.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.332*		µg/L	0.400		82.9	30-150			
Surrogate: Tetrachloro-m-xylene	*0.389*		µg/L	0.400		97.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.364*		µg/L	0.400		90.9	30-150			
LCS (B211579-BS1)				Prepared: 08/31/18 Analyzed: 09/04/18						
Endosulfan I	0.85	0.050	µg/L	1.00		84.9	45-153			
Endosulfan I [2C]	0.84	0.050	µg/L	1.00		83.7	45-153			
Heptachlor Epoxide	0.90	0.050	µg/L	1.00		89.6	37-142			
Heptachlor Epoxide [2C]	0.85	0.050	µg/L	1.00		84.8	37-142			
Surrogate: Decachlorobiphenyl	*1.58*		µg/L	2.00		79.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.51*		µg/L	2.00		75.4	30-150			
Surrogate: Tetrachloro-m-xylene	*1.74*		µg/L	2.00		86.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.59*		µg/L	2.00		79.3	30-150			
LCS Dup (B211579-BSD1)				Prepared: 08/31/18 Analyzed: 09/04/18						
Endosulfan I	0.87	0.050	µg/L	1.00		86.9	45-153	2.28		
Endosulfan I [2C]	0.88	0.050	µg/L	1.00		87.6	45-153	4.55		
Heptachlor Epoxide	0.93	0.050	µg/L	1.00		92.6	37-142	3.32		
Heptachlor Epoxide [2C]	0.90	0.050	µg/L	1.00		90.0	37-142	5.89		
Surrogate: Decachlorobiphenyl	*1.63*		µg/L	2.00		81.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.56*		µg/L	2.00		78.1	30-150			
Surrogate: Tetrachloro-m-xylene	*1.79*		µg/L	2.00		89.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.74*		µg/L	2.00		87.0	30-150			

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B211519 - SW-846 3510C										
Blank (B211519-BLK1)				Prepared: 08/31/18 Analyzed: 09/04/18						
Aroclor-1016	ND	0.040	µg/L							
Aroclor-1016 [2C]	ND	0.040	µg/L							
Aroclor-1221	ND	0.040	µg/L							
Aroclor-1221 [2C]	ND	0.040	µg/L							
Aroclor-1232	ND	0.040	µg/L							
Aroclor-1232 [2C]	ND	0.040	µg/L							
Aroclor-1242	ND	0.040	µg/L							
Aroclor-1242 [2C]	ND	0.040	µg/L							
Aroclor-1248	ND	0.040	µg/L							
Aroclor-1248 [2C]	ND	0.040	µg/L							
Aroclor-1254	ND	0.040	µg/L							
Aroclor-1254 [2C]	ND	0.040	µg/L							
Aroclor-1260	ND	0.040	µg/L							
Aroclor-1260 [2C]	ND	0.040	µg/L							
Surrogate: Decachlorobiphenyl	*0.354*		µg/L	0.400		88.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.412*		µg/L	0.400		103	30-150			
Surrogate: Tetrachloro-m-xylene	*0.380*		µg/L	0.400		95.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.396*		µg/L	0.400		99.1	30-150			
LCS (B211519-BS1)				Prepared: 08/31/18 Analyzed: 09/04/18						
Aroclor-1016	0.51	0.20	µg/L	0.500		101	50-140			
Aroclor-1016 [2C]	0.52	0.20	µg/L	0.500		104	50-140			
Aroclor-1260	0.50	0.20	µg/L	0.500		100	8-140			
Aroclor-1260 [2C]	0.51	0.20	µg/L	0.500		102	8-140			
Surrogate: Decachlorobiphenyl	*1.76*		µg/L	2.00		87.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	*2.04*		µg/L	2.00		102	30-150			
Surrogate: Tetrachloro-m-xylene	*1.71*		µg/L	2.00		85.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.80*		µg/L	2.00		89.9	30-150			
LCS Dup (B211519-BSD1)				Prepared: 08/31/18 Analyzed: 09/04/18						
Aroclor-1016	0.57	0.20	µg/L	0.500		113	50-140	10.9		
Aroclor-1016 [2C]	0.57	0.20	µg/L	0.500		114	50-140	8.86		
Aroclor-1260	0.56	0.20	µg/L	0.500		113	8-140	11.7		
Aroclor-1260 [2C]	0.58	0.20	µg/L	0.500		116	8-140	12.9		
Surrogate: Decachlorobiphenyl	*2.00*		µg/L	2.00		100	30-150			
Surrogate: Decachlorobiphenyl [2C]	*2.31*		µg/L	2.00		116	30-150			
Surrogate: Tetrachloro-m-xylene	*1.93*		µg/L	2.00		96.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*2.02*		µg/L	2.00		101	30-150			

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B211598 - EPA 200.7										
Blank (B211598-BLK1)				Prepared: 08/31/18 Analyzed: 09/04/18						
Chromium	ND	0.0070	mg/L							
Zinc	ND	0.010	mg/L							
LCS (B211598-BS1)				Prepared: 08/31/18 Analyzed: 09/04/18						
Chromium	0.499	0.0070	mg/L	0.500		99.8	85-115			
Zinc	0.985	0.010	mg/L	1.00		98.5	85-115			
LCS Dup (B211598-BSD1)				Prepared: 08/31/18 Analyzed: 09/04/18						
Chromium	0.507	0.0070	mg/L	0.500		101	85-115	1.59	20	
Zinc	0.999	0.010	mg/L	1.00		99.9	85-115	1.41	20	
Batch B211600 - EPA 200.8										
Blank (B211600-BLK1)				Prepared: 08/31/18 Analyzed: 09/04/18						
Lead	ND	0.50	µg/L							
LCS (B211600-BS1)				Prepared: 08/31/18 Analyzed: 09/04/18						
Lead	502	5.0	µg/L	500		100	85-115			
LCS Dup (B211600-BSD1)				Prepared: 08/31/18 Analyzed: 09/04/18						
Lead	486	5.0	µg/L	500		97.2	85-115	3.21	20	
Duplicate (B211600-DUP1)	**Source: 18H1500-01**			Prepared: 08/31/18 Analyzed: 09/04/18						
Lead	ND	0.50	µg/L		0.179			NC	20	
Matrix Spike (B211600-MS1)	**Source: 18H1500-01**			Prepared: 08/31/18 Analyzed: 09/04/18						
Lead	483	5.0	µg/L	500	ND	96.6	70-130			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B211604 - SM21-22 4500 H B										
LCS (B211604-BS1)				Prepared & Analyzed: 08/31/18						
pH	5.98		pH Units	6.00		99.7	90-110			
LCS (B211604-BS2)				Prepared & Analyzed: 08/31/18						
pH	5.98		pH Units	6.00		99.7	90-110			

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

BREAKDOWN REPORT

Lab Sample ID:	S026933-PEM1	Analyzed:	09/04/2018

Column Number: 1

Analyte	% Breakdown
4,4'-DDT [1]	0.80
Endrin [1]	2.75

Column Number: 2

Analyte	% Breakdown
4,4'-DDT [2]	0.84
Endrin [2]	2.85

BREAKDOWN REPORT

Lab Sample ID:	S026933-PEM2	Analyzed:	09/05/2018

Column Number: 1

Analyte	% Breakdown
4,4'-DDT [1]	0.77
Endrin [1]	2.65

Column Number: 2

Analyte	% Breakdown
4,4'-DDT [2]	0.83
Endrin [2]	2.82

BREAKDOWN REPORT

Lab Sample ID:	S026933-PEM3	Analyzed:	09/05/2018

Column Number: 1

Analyte	% Breakdown
4,4'-DDT [1]	0.90
Endrin [1]	1.83

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

BREAKDOWN REPORT

Lab Sample ID:	**S026933-PEM3**	**Analyzed:**	**09/05/2018**

Column Number: **2**

Analyte	% Breakdown
4,4'-DDT [2]	0.88
Endrin [2]	1.98

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

EPA 608.3

LCS

Lab Sample ID: B211519-BS1 Date(s) Analyzed: 09/04/2018 09/04/2018

Instrument ID (1): ECD 9 Instrument ID (2): ECD 9

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.51	
	2	0.000	0.000	0.000	0.52	1.9
Aroclor-1260	1	0.000	0.000	0.000	0.50	
	2	0.000	0.000	0.000	0.51	2.0

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

EPA 608.3

LCS Dup

Lab Sample ID: B211519-BSD1 Date(s) Analyzed: 09/04/2018 09/04/2018

Instrument ID (1): ECD 9 Instrument ID (2): ECD 9

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.57	
	2	0.000	0.000	0.000	0.57	0.0
Aroclor-1260	1	0.000	0.000	0.000	0.56	
	2	0.000	0.000	0.000	0.58	3.5

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

EPA 608.3

LCS

Lab Sample ID: B211579-BS1 Date(s) Analyzed: 09/04/2018 09/04/2018

Instrument ID (1): ECD6 Instrument ID (2): ECD6

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Endosulfan I	1	6.864	0.000	0.000	0.85	
	2	6.827	0.000	0.000	0.84	1.2
Heptachlor Epoxide	1	6.582	0.000	0.000	0.90	
	2	6.548	0.000	0.000	0.85	5.7

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

EPA 608.3

LCS Dup

Lab Sample ID: B211579-BSD1 Date(s) Analyzed: 09/04/2018 09/04/2018

Instrument ID (1): ECD6 Instrument ID (2): ECD6

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Endosulfan I	1	6.864	0.000	0.000	0.87	
	2	6.828	0.000	0.000	0.88	1.1
Heptachlor Epoxide	1	6.582	0.000	0.000	0.93	
	2	6.549	0.000	0.000	0.90	3.3

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
H-05	Holding time was exceeded. pH analysis should be performed immediately at time of sampling. Nominal 15 minute holding time was exceeded.
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
EPA 200.7 in Water	
Chromium	CT,MA,NH,NY,RI,NC,ME,VA
Zinc	CT,MA,NH,NY,RI,NC,ME,VA
EPA 200.8 in Water	
Lead	CT,MA,NH,NY,RI,NC,ME,VA
EPA 608.3 in Water	
Aroclor-1016	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1016 [2C]	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1221	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1221 [2C]	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1232	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1232 [2C]	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1242	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1242 [2C]	CT,MA,NH,NY,RI,NC,ME,VA
Endosulfan I	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1248	CT,MA,NH,NY,RI,NC,ME,VA
Endosulfan I [2C]	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1248 [2C]	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1254	CT,MA,NH,NY,RI,NC,ME,VA
Heptachlor Epoxide	CT,MA,NH,NY,RI,NC,ME,VA
Heptachlor Epoxide [2C]	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1254 [2C]	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1260	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1260 [2C]	CT,MA,NH,NY,RI,NC,ME,VA
EPA 624.1 in Water	
Benzene	CT,NY,RI,NC,MA,NH
Ethylbenzene	CT,NY,RI,NC,MA,NH
1,2,4-Trimethylbenzene	MA
Xylenes (total)	NY,MA,NH
m+p Xylene	CT,NY,RI,NC,MA,NH
o-Xylene	CT,NY,RI,NC,MA,NH
SM21-22 4500 H B in Water	
pH	CT,MA,RI
SW-846 8260C in Water	
Benzene	CT,ME,NH,VA,NY
Ethylbenzene	CT,ME,NH,VA,NY
Isopropylbenzene (Cumene)	ME,VA,NY
1,2,4-Trimethylbenzene	ME,VA,NY
m+p Xylene	CT,ME,NH,VA,NY
o-Xylene	CT,ME,NH,VA,NY
Xylenes (total)	NY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	03/1/2020
MA	Massachusetts DEP	M-MA100	06/30/2019
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2019
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2019
RI	Rhode Island Department of Health	LAO00112	12/30/2018
NC	North Carolina Div. of Water Quality	652	12/31/2018
NJ	New Jersey DEP	MA007 NELAP	06/30/2019
FL	Florida Department of Health	E871027 NELAP	06/30/2019
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2019
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2018
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2018
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2019
NC-DW	North Carolina Department of Health	25703	07/31/2019

18H 1500

con-test ANALYTICAL LABORATORY

Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com

http://www.contestlabs.com

Doc # 380 Rev 1_03242017

CHAIN OF CUSTODY RECORD (New York)

39 Spruce Street
East Longmeadow, MA 01028

Company Name: LAND Remediation

Address: 74 Hudson River Road Waterford, New York 12188

Phone: 518-766-4105

Project Name: NYSDEC Saranac Lake Gas Co.

Project Location: Saranac Lake OU_3

Project Number: -

Project Manager: Matthew Warren

Con-Test Quote Name/Number:

Invoice Recipient: mjw@land-remediation.com

Sampled By: Vaughn Nelson, Kyle Jones

Requested Turnaround Time

7-Day ☐ 10-Day ☐

Due Date:

Rush-Approval Required

1-Day ☑ 3-Day ☐

2-Day ☐ 4-Day ☐

Data Delivery

Format: PDF ☑ EXCEL ☑

Other:

CLP Like Data Pkg Required: ☐

Email To: mjw@land-remediation

Fax To #: jkl@land-remediation

ANALYSIS REQUESTED

	1	1	1	2	2	3	2	1	1			# of Containers
		-	-	S		H	-	N	-			[2] Preservation Code
	P	P	P	A	A	V	A	P	P			[3] Container Code
Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	BOD-5	TDS	TSS	Oil and Grease	SVOCs	VOCS	PCB	Metals (Lead, Zinc, Chromium)	pH		
1	OU-2-WWTP-Eff-05	8/29/2018 16:27	8/29/2018 16:32	X		S	L	x	x	x	x	x		x	x	x		
2	OU-2-WWTP-EFF05	8/29/2018 16:32	8/29/2018 16:33		x	S	L						x					

Dissolved Metals Samples
☐ Field Filtered
☐ Lab to Filter

Orthophosphate Samples
☐ Field Filtered
☐ Lab to Filter

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define)

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

[3] **Container Codes:**
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Comments: (48 hours AT TDS/TSS/ Oil and Grease; 5-Day BOD (5-Day

Reference Attache SPDES Permit Equivalency - report only analytes listed on the permit.

Please use the following codes to indicate possible sample concentration within the **Conc Code** column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time: 8/30/18 10:20
Received by: (signature)	Date/Time: 8/31/18 900
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Program & Regulatory Information

☐ AWQ STDS ☐ NY TOGS
☐ NYC Sewer Discharge ☐ NY CP-51
☐ Part 360 GW (Landfill)
☐ NY Restricted Use
☐ NY Unrestricted Use
☐ NY Part 375
Other:

Deliverables

☐ Enhanced Data Package
☐ NYSDEC EQuIS EDD
☐ EQuIS (Standard) EDD
☐ NY Regulatory EDD
☐ NY Regs Hits-Only EDD
Other:

NELAC and AIHA-LAP, LLC Accredited

Project Entity
☑ Government ☐ Municipality ☐ MWRA ☐ WRTA
☐ Federal ☐ 21 J ☐ School
☐ City ☐ Brownfield ☐ MBTA

Other
☐ Chromatogram
☐ *AIHA-LAP,LLC*

PCB ONLY
☐ Soxhlet
☐ Non Soxhlet

Table of Contents

Sign In

TRACK ANOTHER SHIPMENT

813219348010

Delivered
Friday 8/31/2018 at 9:00 am

DELIVERED

Signed for by: B.BECCA

GET STATUS UPDATES

OBTAIN PROOF OF DELIVERY

FROM

SAR US

TO

LONGMEADOW, MA US

Travel History | Shipment Facts

8/31/2018 - Friday	9:00 am	Delivered MA

Expand History

8/30/2018 - Thursday	6:14 pm	Picked up PLATTSBURGH, NY

Ask FedEx

OUR COMPANY

About FedEx
Our Portfolio
Investor Relations
Careers
FedEx Blog
Corporate Responsibility
Newsroom
Contact Us

MORE FROM FEDEX

FedEx Compatible
Developer Resource Center
FedEx Cross Border

LANGUAGE

Change Country

English

I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples_____

con-test® ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client LAND Remediation

Received By RAP Date 8/31/18 Time 900

How were the samples received? In Cooler T No Cooler _____ On Ice T No Ice _____

Direct from Sampling _____ Ambient _____ Melted Ice _____

By Gun # 557 Actual Temp - 2.1

Were samples within Temperature? 2-6°C T By Blank # _____ Actual Temp - _____

Was Custody Seal Intact? NA Were Samples Tampered with? NA

Was COC Relinquished ? T Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? T Were samples received within holding time? T

Did COC include all pertinent Information? Client T Analysis T Sampler Name T

Project T ID's T Collection Dates/Times T

Are Sample labels filled out and legible? T

Are there Lab to Filters? F Who was notified? _____

Are there Rushes? F Who was notified? Jamie + Mana + Eric

Are there Short Holds? T Who was notified? Mana

Is there enough Volume? T

Is there Headspace where applicable? F MS/MSD? F

Proper Media/Containers Used? T Is splitting samples required? F

Were trip blanks received? F On COC? F

Do all samples have the proper pH? Acid pH<2 Base _____

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.	6	1 Liter Plastic		16 oz Amb.	
HCL-	3	500 mL Amb.		500 mL Plastic	1	8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic	1	4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Comments:

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

September 7, 2018

Keith Decker
Land Remediation
74 Hudson River Road
Waterford, NY 12188

Project Location: Saranac Lake
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 18H1501

Enclosed are results of analyses for samples received by the laboratory on August 31, 2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Aaron L. Benoit
Project Manager

Table of Contents

Sample Summary 3

Case Narrative 4

Sample Results 5

18H1501-01 5

Sample Preparation Information 6

QC Data 7

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) 7

B211606 7

B211644 7

Flag/Qualifier Summary 8

Certifications 9

Chain of Custody/Sample Receipt 10

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Land Remediation
74 Hudson River Road
Waterford, NY 12188
ATTN: Keith Decker

REPORT DATE: 9/7/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18H1501

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Saranac Lake

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
OU2-WWTP-EFF-05	18H1501-01	Waste Water		EPA 1664B SM 21-22 5210B	

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Lisa A. Worthington
Project Manager

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake | Sample Description: | Work Order: 18H1501

Date Received: 8/31/2018

Field Sample #: OU2-WWTP-EFF-05

Sample ID: 18H1501-01 | Start Date/Time: 8/29/2018 4:27:00PM

Sample Matrix: Waste Water | Stop Date/Time: 8/29/2018 4:32:00PM

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Biochemical Oxygen Demand	ND	4.0	mg/L	1		SM 21-22 5210B	8/31/18	8/31/18 14:55	LED
Oil & Grease (HEM)	ND	1.4	mg/L	1		EPA 1664B	9/4/18	9/4/18 12:30	LL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

EPA 1664B

Lab Number [Field ID]	Batch	Initial [mL]	Date
18H1501-01 [OU2-WWTP-EFF-05]	B211644	1000	09/04/18

SM 21-22 5210B

Lab Number [Field ID]	Batch	Initial [mL]	Date
18H1501-01 [OU2-WWTP-EFF-05]	B211606	150	08/31/18

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B211606 - SM 21-22 5210B										
Blank (B211606-BLK1)				Prepared & Analyzed: 08/31/18						
Biochemical Oxygen Demand	ND	2.0	mg/L							
LCS (B211606-BS1)				Prepared & Analyzed: 08/31/18						
Biochemical Oxygen Demand	190	2.0	mg/L	198		96.0	85-115			
Batch B211644 - EPA 1664B										
Blank (B211644-BLK1)				Prepared & Analyzed: 09/04/18						
Oil & Grease (HEM)	ND	1.4	mg/L							
Blank (B211644-BLK2)				Prepared & Analyzed: 09/04/18						
Oil & Grease (HEM)	ND	7.0	mg/L							
LCS (B211644-BS1)				Prepared & Analyzed: 09/04/18						
Oil & Grease (HEM)	20		mg/L	20.0		98.0	78-114			
LCS (B211644-BS2)				Prepared & Analyzed: 09/04/18						
Oil & Grease (HEM)	82		mg/L	100		81.5	78-114			

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level

Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.

No results have been blank subtracted unless specified in the case narrative section.

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
EPA 1664B in Water	
Oil & Grease (HEM)	CT,MA,NH,NY,RI,NC,ME,VA
SM 21-22 5210B in Water	
Biochemical Oxygen Demand	CT,MA,NH,NY,RI,ME,VA,NC

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	03/1/2020
MA	Massachusetts DEP	M-MA100	06/30/2019
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2019
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2019
RI	Rhode Island Department of Health	LAO00112	12/30/2018
NC	North Carolina Div. of Water Quality	652	12/31/2018
NJ	New Jersey DEP	MA007 NELAP	06/30/2019
FL	Florida Department of Health	E871027 NELAP	06/30/2019
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2019
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2018
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2018
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2019
NC-DW	North Carolina Department of Health	25703	07/31/2019

18H1501

con-test ANALYTICAL LABORATORY

Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com

http://www.contestlabs.com Doc # 380 Rev 1_03242017

CHAIN OF CUSTODY RECORD (New York)

39 Spruce Street
East Longmeadow, MA 01028

Page _1_ of _1_

Company Name:	LAND Remediation
Address:	74 Hudson River Road Waterford, New York 12188
Phone:	518-766-4105
Project Name:	NYSDEC Saranac Lake Gas Co.
Project Location:	Saranac Lake OU_3
Project Number:	-
Project Manager:	Matthew Warren
Con-Test Quote Name/Number:	
Invoice Recipient:	mjw@land-remediation.com
Sampled By:	Vaughn Nelson, Kyle Jones

Requested Turnaround Time
7-Day ☐ 10-Day ☐
Due Date:

Rush-Approval Required
1-Day ☑ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
CLP Like Data Pkg Required: ☐
Email To: mjw@land-remediation
Fax To #: jkl@land-remediation

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	BOD-5	TDS	TSS	Oil and Grease	SVOCs	VOCs	PCB	Metals (Lead, Zinc, Chromium)	pH			# of Containers
								1	1	1	2	2	3	2	1	1			[2] Preservation Code
									-	-	S		H	-	N	-			
								P	P	P	A	A	V	A	P	P			[3] Container Code
1	OU-2-WWTP-Eff-05	8/29/2018 16:27	8/29/2018 16:32	X		S	L	x	x	x	x	x		x	x	x			
	OU-2-WWTP-EFF05	8/29/2018 16:32	8/29/2018 16:33		x	S	L						x						

ANALYSIS REQUESTED

Dissolved Metals Samples
☐ Field Filtered
☐ Lab to Filter

Orthophosphate Samples
☐ Field Filtered
☐ Lab to Filter

[1] Matrix Codes:
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define)

[2] Preservation Codes:
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

[3] Container Codes:
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Comments: (48 hours AT TDS/TSS/ Oil and Grease; 5-Day BOD (5-Day

Reference Attache SPDES Permit Equivalency - report only analytes listed on the permit.

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time: 8/30/18 10:20
Received by: (signature)	Date/Time: 8/31/18 900
Relinquished by: (signature)	Date/Time:
ived by: (signature)	Date/Time:
quished by: (signature)	Date/Time:
ived by: (signature)	Date/Time:

Program & Regulatory Information
☐ AWQ STDS ☐ NY TOGS
☐ NYC Sewer Discharge ☐ NY CP-51
☐ Part 360 GW (Landfill)
☐ NY Restricted Use
☐ NY Unrestricted Use
☐ NY Part 375
Other:

Deliverables
☐ Enhanced Data Package
☐ NYSDEC EQuIS EDD
☐ EQuIS (Standard) EDD
☐ NY Regulatory EDD
☐ NY Regs Hits-Only EDD
Other:

NELAC and AIHA-LAP, LLC Accredited

Project Entity
☑ Government ☐ Municipality ☐ MWRA ☐ WRTA
☐ Federal ☐ 21 J ☐ School
☐ City ☐ Brownfield ☐ MBTA

Other
☐ Chromatogram
☐ *AIHA-LAP,LLC*

PCB ONLY
☐ Soxhlet
☐ Non Soxhlet

Table of Contents

Sign In

TRACK ANOTHER SHIPMENT

813219348010

Delivered
Friday 8/31/2018 at 9:00 am

DELIVERED

Signed for by: B.BECCA

GET STATUS UPDATES

OBTAIN PROOF OF DELIVERY

FROM

SAR US

TO

LONGMEADOW, MA US

Travel History | Shipment Facts

8/31/2018 - Friday	9:00 am	Delivered MA

Expand History

8/30/2018 - Thursday	6:14 pm	Picked up PLATTSBURGH, NY

Ask FedEx

OUR COMPANY

About FedEx
Our Portfolio
Investor Relations
Careers
FedEx Blog
Corporate Responsibility
Newsroom
Contact Us

MORE FROM FEDEX

FedEx Compatible
Developer Resource Center
FedEx Cross Border

LANGUAGE

Change Country

English

I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples_____

con-test® ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client LAND Remediation

Received By RAP Date 8/31/15 Time 900

How were the samples received? In Cooler T No Cooler _____ On Ice T No Ice _____ Direct from Sampling _____ Ambient _____ Melted Ice _____

Were samples within Temperature? 2-6°C T By Gun # 557 Actual Temp - 2.1 By Blank # _____ Actual Temp - _____

Was Custody Seal Intact? NA Were Samples Tampered with? NA

Was COC Relinquished ? T Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? T Were samples received within holding time? T

Did COC include all pertinent Information? Client T Analysis T Sampler Name T Project T ID's T Collection Dates/Times T

Are Sample labels filled out and legible? T

Are there Lab to Filters? F Who was notified? _____

Are there Rushes? F Who was notified? _____

Are there Short Holds? T Who was notified? Maria

Is there enough Volume? T

Is there Headspace where applicable? F MS/MSD? F

Proper Media/Containers Used? T Is splitting samples required? F

Were trip blanks received? F On COC? F

Do all samples have the proper pH? NA Acid _____ Base _____

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.	2	1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic	1	8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Comments:

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

September 5, 2018

Keith Decker
Land Remediation
74 Hudson River Road
Waterford, NY 12188

Project Location: Saranac Lake
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 18H1502

Enclosed are results of analyses for samples received by the laboratory on August 31, 2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Aaron L. Benoit
Project Manager

Table of Contents

Sample Summary 3

Case Narrative 4

Sample Results 5

18H1502-01 5

Sample Preparation Information 7

QC Data 8

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) 8

B211648 8

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Dissolved) 9

B211647 9

Flag/Qualifier Summary 10

Certifications 11

Chain of Custody/Sample Receipt 12

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Land Remediation
74 Hudson River Road
Waterford, NY 12188
ATTN: Keith Decker

REPORT DATE: 9/5/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18H1502

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Saranac Lake

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
OU2-WWTP-EFF-05	18H1502-01	Waste Water		SM21-22 2540C SM21-22 2540D	

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Lisa A. Worthington
Project Manager

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake | Sample Description: | Work Order: 18H1502

Date Received: 8/31/2018

Field Sample #: OU2-WWTP-EFF-05

Sample ID: 18H1502-01 | Start Date/Time: 8/29/2018 4:27:00PM

Sample Matrix: Waste Water | Stop Date/Time: 8/29/2018 4:32:00PM

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Suspended Solids	ND	1.4	mg/L	1		SM21-22 2540D	9/4/18	9/4/18 12:45	LL

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake | Sample Description: | Work Order: 18H1502

Date Received: 8/31/2018

Field Sample #: OU2-WWTP-EFF-05

Sample ID: 18H1502-01 | Start Date/Time: 8/29/2018 4:27:00PM

Sample Matrix: Waste Water | Stop Date/Time: 8/29/2018 4:32:00PM

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Dissolved)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Dissolved Solids	140	10	mg/L	1		SM21-22 2540C	9/4/18	9/4/18 13:05	LL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

SM21-22 2540C

Lab Number [Field ID]	Batch	Initial [mL]	Date
18H1502-01 [OU2-WWTP-EFF-05]	B211647	50.0	09/04/18

SM21-22 2540D

Lab Number [Field ID]	Batch	Initial [mL]	Date
18H1502-01 [OU2-WWTP-EFF-05]	B211648	350	09/04/18

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B211648 - SM21-22 2540D										
Blank (B211648-BLK1)				Prepared & Analyzed: 09/04/18						
Total Suspended Solids	ND	2.5	mg/L							
LCS (B211648-BS1)				Prepared & Analyzed: 09/04/18						
Total Suspended Solids	172	10	mg/L	200		86.0	64.3-117			

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Dissolved) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B211647 - SM21-22 2540C										
Blank (B211647-BLK1)				Prepared & Analyzed: 09/04/18						
Total Dissolved Solids	ND	10	mg/L							
LCS (B211647-BS1)				Prepared & Analyzed: 09/04/18						
Total Dissolved Solids	210	10	mg/L	293		72.4	61.4-114			

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level

Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.

No results have been blank subtracted unless specified in the case narrative section.

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SM21-22 2540C in Water	
Total Dissolved Solids	CT,MA,NH,NY,RI,NC,ME,VA
SM21-22 2540D in Water	
Total Suspended Solids	CT,MA,NH,NY,RI,NC,ME,VA

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	03/1/2020
MA	Massachusetts DEP	M-MA100	06/30/2019
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2019
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2019
RI	Rhode Island Department of Health	LAO00112	12/30/2018
NC	North Carolina Div. of Water Quality	652	12/31/2018
NJ	New Jersey DEP	MA007 NELAP	06/30/2019
FL	Florida Department of Health	E871027 NELAP	06/30/2019
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2019
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2018
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2018
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2019
NC-DW	North Carolina Department of Health	25703	07/31/2019

18H1502

con-test ANALYTICAL LABORATORY

http://www.contestlabs.com Doc # 380 Rev 1_03242017

Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com

CHAIN OF CUSTODY RECORD (New York)

39 Spruce Street
East Longmeadow, MA 01028

Page _1_ of _1_

Company Name:	LAND Remediation
Address:	74 Hudson River Road Waterford, New York 12188
Phone:	518-766-4105
Project Name:	NYSDEC Saranac Lake Gas Co.
Project Location:	Saranac Lake OU_3
Project Number:	-
Project Manager:	Matthew Warren
Con-Test Quote Name/Number:	
Invoice Recipient:	mjw@land-remediation.com
Sampled By:	Vaughn Nelson, Kyle Jones

Requested Turnaround Time
7-Day ☐ 10-Day ☐
Due Date:

Rush-Approval Required
1-Day ☑ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
CLP Like Data Pkg Required: ☐
Email To: mjw@land-remediation
Fax To #: jkl@land-remediation

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	BOD-5	TDS	TSS	Oil and Grease	SVOCs	VOCs	PCB	Metals (Lead, Zinc, Chromium)	pH	# of Containers
								1	1	1	2	2	3	2	1	1	
									-	-	S		H	-	N	-	[2]Preservation Code
								P	P	P	A	A	V	A	P	P	[3]Container Code
	OU-2-WWTP-Eff-05	8/29/2018 16:27	8/29/2018 16:32	X		S	L	x	x	x	x	x		x	x	x	
	OU-2-WWTP-EFF05	8/29/2018 16:32	8/29/2018 16:33		x	S	L						x				

ANALYSIS REQUESTED

Dissolved Metals Samples
☐ Field Filtered
☐ Lab to Filter

Orthophosphate Samples
☐ Field Filtered
☐ Lab to Filter

[1] Matrix Codes:
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define)

[2] Preservation Codes:
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

[3] Container Codes:
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Comments: (48 hours AT TDS/TSS/ Oil and Grease; 5-Day BOD (5-Day

Reference Attache SPDES Permit Equivalency - report only analytes listed on the permit.

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time: 8/30/18 10:20
Received by: (signature)	Date/Time: 8/31/18 900
Relinquished by: (signature)	Date/Time:
ived by: (signature)	Date/Time:
quished by: (signature)	Date/Time:
ived by: (signature)	Date/Time:

Program & Regulatory Information
☐ AWQ STDS ☐ NY TOGS
☐ NYC Sewer Discharge ☐ NY CP-51
☐ Part 360 GW (Landfill)
☐ NY Restricted Use
☐ NY Unrestricted Use
☐ NY Part 375
Other:

Deliverables
☐ Enhanced Data Package
☐ NYSDEC EQuIS EDD
☐ EQuIS (Standard) EDD
☐ NY Regulatory EDD
☐ NY Regs Hits-Only EDD
Other:

NELAC and AIHA-LAP, LLC Accredited

Project Entity
☑ Government ☐ Municipality ☐ MWRA ☐ WRTA
☐ Federal ☐ 21 J ☐ School
☐ City ☐ Brownfield ☐ MBTA

Other
☐ Chromatogram
☐ *AIHA-LAP,LLC*

PCB ONLY
☐ Soxhlet
☐ Non Soxhlet

Table of Contents

Ex.

Sign In

TRACK ANOTHER SHIPMENT

813219348010

Delivered
Friday 8/31/2018 at 9:00 am

DELIVERED

Signed for by: B.BECCA

GET STATUS UPDATES

OBTAIN PROOF OF DELIVERY

FROM

SAR US

TO

LONGMEADOW, MA US

Travel History | Shipment Facts

8/31/2018 - Friday	9:00 am	Delivered MA

Expand History

8/30/2018 - Thursday	6:14 pm	Picked up PLATTSBURGH, NY

Ask FedEx

OUR COMPANY

About FedEx
Our Portfolio
Investor Relations
Careers
FedEx Blog
Corporate Responsibility
Newsroom
Contact Us

MORE FROM FEDEX

FedEx Compatible
Developer Resource Center
FedEx Cross Border

LANGUAGE

Change Country

English

I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples_____

con-test® ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client LAND Remediation

Received By RAP Date 8/31/18 Time 910

How were the samples received? In Cooler T No Cooler _____ On Ice T No Ice _____

Direct from Sampling _____ Ambient _____ Melted Ice _____

Were samples within Temperature? 2-6°C T By Gun # 557 Actual Temp - 2.1

By Blank # _____ Actual Temp - _____

Was Custody Seal Intact? NA Were Samples Tampered with? NA

Was COC Relinquished ? T Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? T Were samples received within holding time? T

Did COC include all pertinent Information? Client T Project T Analysis T ID's T Sampler Name T Collection Dates/Times T

Are Sample labels filled out and legible? T

Are there Lab to Filters? F Who was notified? _____

Are there Rushes? T Who was notified? Maria

Are there Short Holds? Temp Who was notified? _____

Is there enough Volume? T

Is there Headspace where applicable? F MS/MSD? F

Proper Media/Containers Used? T Is splitting samples required? F

Were trip blanks received? F On COC? F

Do all samples have the proper pH? NA Acid _____ Base _____

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic	1	8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Comments:

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

September 11, 2018

Keith Decker
Land Remediation
74 Hudson River Road
Waterford, NY 12188

Project Location: Saranac Lake
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 18I0109

Enclosed are results of analyses for samples received by the laboratory on September 5, 2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Aaron L. Benoit
Project Manager

Table of Contents

Sample Summary 4

Case Narrative 5

Sample Results 6

18I0109-01 6

18I0109-02 11

Sample Preparation Information 13

QC Data 14

Volatile Organic Compounds by GC/MS 14

B211834 14

Volatile Organic Compounds by GC/MS 15

B211833 15

Semivolatile Organic Compounds by GC/MS 16

B211958 16

Organochloride Pesticides by GC/ECD 18

B211807 18

Polychlorinated Biphenyls By GC/ECD 19

B211806 19

Metals Analyses (Total) 20

B211992 20

B212229 20

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) 21

B211929 21

Pesticides Degradation Report 22

Dual Column RPD Report 23

Flag/Qualifier Summary 27

Table of Contents (continued)

Certifications 28

Chain of Custody/Sample Receipt 30

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Land Remediation
74 Hudson River Road
Waterford, NY 12188
ATTN: Keith Decker

REPORT DATE: 9/11/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18I0109

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Saranac Lake

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
OU2-WWTP-EFF-06	18I0109-01	Waste Water		EPA 200.7	
				EPA 200.8	
				EPA 608.3	
				SM21-22 4500 H B	
				SW-846 8270D	
OU2-WWTP-EFF-06	18I0109-02	Waste Water		EPA 624.1	
				SW-846 8260C	

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

For method 8270, only PAHs were requested and reported.

SM21-22 4500 H B

Qualifications:

H-05

Holding time was exceeded. pH analysis should be performed immediately at time of sampling. Nominal 15 minute holding time was exceeded.

Analyte & Samples(s) Qualified:

pH

18I0109-01[OU2-WWTP-EFF-06]

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Daren J. Damboragian
Director of Operations

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake | Sample Description: | Work Order: 18I0109

Date Received: 9/5/2018

Field Sample #: OU2-WWTP-EFF-06

Sample ID: 18I0109-01 | Start Date/Time: 9/4/2018 7:54:00AM

Sample Matrix: Waste Water | Stop Date/Time: 9/4/2018 8:00:00AM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene (SIM)	ND	0.30	0.060	µg/L	1		SW-846 8270D	9/6/18	9/7/18 10:15	IMR
Acenaphthylene (SIM)	ND	0.20	0.050	µg/L	1		SW-846 8270D	9/6/18	9/7/18 10:15	IMR
Anthracene (SIM)	ND	0.20	0.040	µg/L	1		SW-846 8270D	9/6/18	9/7/18 10:15	IMR
Benzo(a)anthracene (SIM)	ND	0.050	0.050	µg/L	1		SW-846 8270D	9/6/18	9/7/18 10:15	IMR
Benzo(a)pyrene (SIM)	ND	0.10	0.040	µg/L	1		SW-846 8270D	9/6/18	9/7/18 10:15	IMR
Benzo(b)fluoranthene (SIM)	ND	0.050	0.020	µg/L	1		SW-846 8270D	9/6/18	9/7/18 10:15	IMR
Benzo(g,h,i)perylene (SIM)	ND	0.50	0.070	µg/L	1		SW-846 8270D	9/6/18	9/7/18 10:15	IMR
Benzo(k)fluoranthene (SIM)	ND	0.040	0.020	µg/L	1		SW-846 8270D	9/6/18	9/7/18 11:12	IMR
Chrysene (SIM)	ND	0.20	0.030	µg/L	1		SW-846 8270D	9/6/18	9/7/18 10:15	IMR
Dibenz(a,h)anthracene (SIM)	ND	0.10	0.040	µg/L	1		SW-846 8270D	9/6/18	9/7/18 10:15	IMR
Fluoranthene (SIM)	ND	0.50	0.030	µg/L	1		SW-846 8270D	9/6/18	9/7/18 10:15	IMR
Fluorene (SIM)	ND	1.0	0.040	µg/L	1		SW-846 8270D	9/6/18	9/7/18 10:15	IMR
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.10	0.080	µg/L	1		SW-846 8270D	9/6/18	9/7/18 10:15	IMR
Naphthalene (SIM)	ND	1.0	0.070	µg/L	1		SW-846 8270D	9/6/18	9/7/18 10:15	IMR
Phenanthrene (SIM)	ND	0.050	0.040	µg/L	1		SW-846 8270D	9/6/18	9/7/18 10:15	IMR
Pyrene (SIM)	ND	1.0	0.030	µg/L	1		SW-846 8270D	9/6/18	9/7/18 10:15	IMR

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	76.0	30-130		9/7/18 10:15
Nitrobenzene-d5	70.7	30-130		9/7/18 11:12
2-Fluorobiphenyl	84.0	30-130		9/7/18 10:15
2-Fluorobiphenyl	56.5	30-130		9/7/18 11:12
p-Terphenyl-d14	75.3	30-130		9/7/18 10:15
p-Terphenyl-d14	66.9	30-130		9/7/18 11:12

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake | Sample Description: | Work Order: 18I0109

Date Received: 9/5/2018

Field Sample #: OU2-WWTP-EFF-06

Sample ID: 18I0109-01 | Start Date/Time: 9/4/2018 7:54:00AM

Sample Matrix: Waste Water | Stop Date/Time: 9/4/2018 8:00:00AM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Endosulfan I [1]	ND	0.0096	0.00041	µg/L	1		EPA 608.3	9/5/18	9/7/18 11:56	KAL
Heptachlor epoxide [1]	ND	0.0096	0.00077	µg/L	1		EPA 608.3	9/5/18	9/7/18 11:56	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	89.2	30-150		9/7/18 11:56
Decachlorobiphenyl [2]	88.4	30-150		9/7/18 11:56
Tetrachloro-m-xylene [1]	71.8	30-150		9/7/18 11:56
Tetrachloro-m-xylene [2]	69.5	30-150		9/7/18 11:56

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake | Sample Description: | Work Order: 18I0109

Date Received: 9/5/2018

Field Sample #: OU2-WWTP-EFF-06

Sample ID: 18I0109-01 | Start Date/Time: 9/4/2018 7:54:00AM

Sample Matrix: Waste Water | Stop Date/Time: 9/4/2018 8:00:00AM

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.038	0.035	µg/L	1		EPA 608.3	9/5/18	9/7/18 10:34	WAL
Aroclor-1221 [1]	ND	0.038	0.031	µg/L	1		EPA 608.3	9/5/18	9/7/18 10:34	WAL
Aroclor-1232 [1]	ND	0.038	0.038	µg/L	1		EPA 608.3	9/5/18	9/7/18 10:34	WAL
Aroclor-1242 [1]	ND	0.038	0.033	µg/L	1		EPA 608.3	9/5/18	9/7/18 10:34	WAL
Aroclor-1248 [1]	ND	0.038	0.037	µg/L	1		EPA 608.3	9/5/18	9/7/18 10:34	WAL
Aroclor-1254 [1]	ND	0.038	0.020	µg/L	1		EPA 608.3	9/5/18	9/7/18 10:34	WAL
Aroclor-1260 [1]	ND	0.038	0.038	µg/L	1		EPA 608.3	9/5/18	9/7/18 10:34	WAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	94.3	30-150		9/7/18 10:34
Decachlorobiphenyl [2]	95.2	30-150		9/7/18 10:34
Tetrachloro-m-xylene [1]	82.9	30-150		9/7/18 10:34
Tetrachloro-m-xylene [2]	94.2	30-150		9/7/18 10:34

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake | Sample Description: | Work Order: 18I0109

Date Received: 9/5/2018

Field Sample #: OU2-WWTP-EFF-06

Sample ID: 18I0109-01 | Start Date/Time: 9/4/2018 7:54:00AM

Sample Matrix: Waste Water | Stop Date/Time: 9/4/2018 8:00:00AM

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Chromium	ND	0.0070	0.0061	mg/L	1		EPA 200.7	9/7/18	9/10/18 15:30	QNW
Lead	ND	0.50	0.14	µg/L	1		EPA 200.8	9/7/18	9/10/18 18:52	WSD
Zinc	ND	0.010	0.0052	mg/L	1		EPA 200.7	9/7/18	9/10/18 15:30	QNW

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake | Sample Description: | Work Order: 18I0109

Date Received: 9/5/2018

Field Sample #: OU2-WWTP-EFF-06

Sample ID: 18I0109-01 | Start Date/Time: 9/4/2018 7:54:00AM

Sample Matrix: Waste Water | Stop Date/Time: 9/4/2018 8:00:00AM

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
pH @18.7°C	7.7		pH Units	1	H-05	SM21-22 4500 H B	9/6/18	9/6/18 21:09	AIA

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake | Sample Description: | Work Order: 18I0109

Date Received: 9/5/2018

Field Sample #: OU2-WWTP-EFF-06

Sample ID: 18I0109-02 | Start Date/Time: 9/4/2018 8:00:00AM

Sample Matrix: Waste Water | Stop Date/Time: 9/4/2018 8:01:00AM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Isopropylbenzene (Cumene)	ND	1.0	0.12	µg/L	1		SW-846 8260C	9/6/18	9/6/18 9:33	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	99.1	70-130		9/6/18 9:33
Toluene-d8	97.2	70-130		9/6/18 9:33
4-Bromofluorobenzene	101	70-130		9/6/18 9:33

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake | Sample Description: | Work Order: 18I0109

Date Received: 9/5/2018

Field Sample #: OU2-WWTP-EFF-06

Sample ID: 18I0109-02 | Start Date/Time: 9/4/2018 8:00:00AM

Sample Matrix: Waste Water | Stop Date/Time: 9/4/2018 8:01:00AM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	1.0	0.34	µg/L	1		EPA 624.1	9/6/18	9/6/18 9:33	LBD
Ethylbenzene	ND	2.0	0.37	µg/L	1		EPA 624.1	9/6/18	9/6/18 9:33	LBD
1,2,4-Trimethylbenzene	ND	1.0	0.34	µg/L	1		EPA 624.1	9/6/18	9/6/18 9:33	LBD
Xylenes (total)	ND	3.0		µg/L	1		EPA 624.1	9/6/18	9/6/18 9:33	LBD
m+p Xylene	ND	2.0	0.65	µg/L	1		EPA 624.1	9/6/18	9/6/18 9:33	LBD
o-Xylene	ND	2.0	0.35	µg/L	1		EPA 624.1	9/6/18	9/6/18 9:33	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	99.1	70-130		9/6/18 9:33
Toluene-d8	97.2	70-130		9/6/18 9:33
4-Bromofluorobenzene	101	70-130		9/6/18 9:33

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: EPA 200.7-EPA 200.7

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18I0109-01 [OU2-WWTP-EFF-06]	B211992	50.0	50.0	09/07/18

Prep Method: EPA 200.8-EPA 200.8

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18I0109-01 [OU2-WWTP-EFF-06]	B212229	50.0	50.0	09/07/18

Prep Method: SW-846 3510C-EPA 608.3

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18I0109-01 [OU2-WWTP-EFF-06]	B211806	1040	2.00	09/05/18

Prep Method: SW-846 3510C-EPA 608.3

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18I0109-01 [OU2-WWTP-EFF-06]	B211807	1040	2.00	09/05/18

Prep Method: SW-846 5030B-EPA 624.1

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18I0109-02 [OU2-WWTP-EFF-06]	B211833	5	5.00	09/06/18

SM21-22 4500 H B

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18I0109-01 [OU2-WWTP-EFF-06]	B211929	50.0		09/06/18

Prep Method: SW-846 5030B-SW-846 8260C

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18I0109-02 [OU2-WWTP-EFF-06]	B211834	5	5.00	09/06/18

Prep Method: SW-846 3510C-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18I0109-01 [OU2-WWTP-EFF-06]	B211958	1000	1.00	09/06/18
18I0109-01RE1 [OU2-WWTP-EFF-06]	B211958	1000	0.200	09/06/18

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B211834 - SW-846 5030B										
Blank (B211834-BLK1)				Prepared & Analyzed: 09/06/18						
Isopropylbenzene (Cumene)	ND	1.0	µg/L							
Toluene	ND	1.0	µg/L							
Surrogate: 1,2-Dichloroethane-d4	*24.2*		µg/L	25.0		96.7	70-130			
Surrogate: Toluene-d8	*24.5*		µg/L	25.0		97.9	70-130			
Surrogate: 4-Bromofluorobenzene	*24.6*		µg/L	25.0		98.4	70-130			
LCS (B211834-BS1)				Prepared & Analyzed: 09/06/18						
Isopropylbenzene (Cumene)	21.7	1.0	µg/L	20.0		108	70-130			
Toluene	20.6	1.0	µg/L	20.0		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	*24.6*		µg/L	25.0		98.5	70-130			
Surrogate: Toluene-d8	*24.6*		µg/L	25.0		98.2	70-130			
Surrogate: 4-Bromofluorobenzene	*25.4*		µg/L	25.0		102	70-130			
LCS Dup (B211834-BSD1)				Prepared & Analyzed: 09/06/18						
Isopropylbenzene (Cumene)	22.2	1.0	µg/L	20.0		111	70-130	2.46	25	
Toluene	20.5	1.0	µg/L	20.0		103	70-130	0.341	25	
Surrogate: 1,2-Dichloroethane-d4	*24.6*		µg/L	25.0		98.2	70-130			
Surrogate: Toluene-d8	*24.2*		µg/L	25.0		96.6	70-130			
Surrogate: 4-Bromofluorobenzene	*25.8*		µg/L	25.0		103	70-130			

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B211833 - SW-846 5030B										
Blank (B211833-BLK1)				Prepared & Analyzed: 09/06/18						
Benzene	ND	1.0	µg/L							
Ethylbenzene	ND	2.0	µg/L							
1,2,4-Trimethylbenzene	ND	1.0	µg/L							
Xylenes (total)	ND	3.0	µg/L							
m+p Xylene	ND	2.0	µg/L							
o-Xylene	ND	2.0	µg/L							
Surrogate: 1,2-Dichloroethane-d4	*24.2*		µg/L	25.0		96.7	70-130			
Surrogate: Toluene-d8	*24.5*		µg/L	25.0		97.9	70-130			
Surrogate: 4-Bromofluorobenzene	*24.6*		µg/L	25.0		98.4	70-130			
LCS (B211833-BS1)				Prepared & Analyzed: 09/06/18						
Benzene	19.7	1.0	µg/L	20.0		98.6	65-135			
Ethylbenzene	21.8	2.0	µg/L	20.0		109	60-140			
1,2,4-Trimethylbenzene	20.6	1.0	µg/L	20.0		103	70-130			
m+p Xylene	43.3	2.0	µg/L	40.0		108	70-130			
o-Xylene	21.7	2.0	µg/L	20.0		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	*24.6*		µg/L	25.0		98.2	70-130			
Surrogate: Toluene-d8	*24.2*		µg/L	25.0		96.6	70-130			
Surrogate: 4-Bromofluorobenzene	*25.8*		µg/L	25.0		103	70-130			

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B211958 - SW-846 3510C										
Blank (B211958-BLK1)				Prepared: 09/06/18 Analyzed: 09/07/18						
Acenaphthene (SIM)	ND	0.30	µg/L							
Acenaphthylene (SIM)	ND	0.20	µg/L							
Anthracene (SIM)	ND	0.20	µg/L							
Benzo(a)anthracene (SIM)	ND	0.050	µg/L							
Benzo(a)pyrene (SIM)	ND	0.10	µg/L							
Benzo(b)fluoranthene (SIM)	ND	0.050	µg/L							
Benzo(g,h,i)perylene (SIM)	ND	0.50	µg/L							
Chrysene (SIM)	ND	0.20	µg/L							
Dibenz(a,h)anthracene (SIM)	ND	0.10	µg/L							
Fluoranthene (SIM)	ND	0.50	µg/L							
Fluorene (SIM)	ND	1.0	µg/L							
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.10	µg/L							
Naphthalene (SIM)	ND	1.0	µg/L							
Phenanthrene (SIM)	ND	0.050	µg/L							
Pyrene (SIM)	ND	1.0	µg/L							
Surrogate: Nitrobenzene-d5	*65.7*		µg/L	100		65.7	30-130			
Surrogate: 2-Fluorobiphenyl	*68.8*		µg/L	100		68.8	30-130			
Surrogate: p-Terphenyl-d14	*77.8*		µg/L	100		77.8	30-130			
Blank (B211958-BLK2)				Prepared: 09/06/18 Analyzed: 09/07/18						
Benzo(k)fluoranthene (SIM)	ND	0.040	µg/L							
Surrogate: Nitrobenzene-d5	*54.5*		µg/L	100		54.5	30-130			
Surrogate: 2-Fluorobiphenyl	*47.2*		µg/L	100		47.2	30-130			
Surrogate: p-Terphenyl-d14	*59.5*		µg/L	100		59.5	30-130			
LCS (B211958-BS1)				Prepared: 09/06/18 Analyzed: 09/07/18						
Acenaphthene (SIM)	34.7	7.5	µg/L	50.0		69.4	40-140			
Acenaphthylene (SIM)	34.3	5.0	µg/L	50.0		68.6	40-140			
Anthracene (SIM)	38.1	5.0	µg/L	50.0		76.2	40-140			
Benzo(a)anthracene (SIM)	37.6	1.2	µg/L	50.0		75.2	40-140			
Benzo(a)pyrene (SIM)	39.5	2.5	µg/L	50.0		79.0	40-140			
Benzo(b)fluoranthene (SIM)	41.4	1.2	µg/L	50.0		82.8	40-140			
Benzo(g,h,i)perylene (SIM)	38.2	12	µg/L	50.0		76.4	40-140			
Benzo(k)fluoranthene (SIM)	39.9	5.0	µg/L	50.0		79.8	40-140			
Chrysene (SIM)	37.8	5.0	µg/L	50.0		75.6	40-140			
Dibenz(a,h)anthracene (SIM)	38.0	2.5	µg/L	50.0		76.0	40-140			
Fluoranthene (SIM)	37.3	12	µg/L	50.0		74.6	40-140			
Fluorene (SIM)	36.7	25	µg/L	50.0		73.4	40-140			
Indeno(1,2,3-cd)pyrene (SIM)	39.0	2.5	µg/L	50.0		78.0	40-140			
Naphthalene (SIM)	31.1	25	µg/L	50.0		62.2	40-140			
Phenanthrene (SIM)	36.5	1.2	µg/L	50.0		73.0	40-140			
Pyrene (SIM)	35.8	25	µg/L	50.0		71.6	40-140			
Surrogate: Nitrobenzene-d5	*61.0*		µg/L	100		61.0	30-130			
Surrogate: 2-Fluorobiphenyl	*58.2*		µg/L	100		58.2	30-130			
Surrogate: p-Terphenyl-d14	*48.9*		µg/L	100		48.9	30-130			

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B211958 - SW-846 3510C										
LCS Dup (B211958-BSD1)				Prepared: 09/06/18 Analyzed: 09/07/18						
Acenaphthene (SIM)	32.9	7.5	µg/L	50.0		65.8	40-140	5.33	20	
Acenaphthylene (SIM)	32.7	5.0	µg/L	50.0		65.4	40-140	4.93	20	
Anthracene (SIM)	36.8	5.0	µg/L	50.0		73.6	40-140	3.47	20	
Benzo(a)anthracene (SIM)	36.6	1.2	µg/L	50.0		73.2	40-140	2.76	20	
Benzo(a)pyrene (SIM)	38.3	2.5	µg/L	50.0		76.6	40-140	3.02	20	
Benzo(b)fluoranthene (SIM)	40.0	1.2	µg/L	50.0		80.0	40-140	3.38	20	
Benzo(g,h,i)perylene (SIM)	36.9	12	µg/L	50.0		73.8	40-140	3.46	20	
Benzo(k)fluoranthene (SIM)	38.6	5.0	µg/L	50.0		77.1	40-140	3.44	20	
Chrysene (SIM)	36.8	5.0	µg/L	50.0		73.6	40-140	2.55	20	
Dibenz(a,h)anthracene (SIM)	36.7	2.5	µg/L	50.0		73.4	40-140	3.55	20	
Fluoranthene (SIM)	36.4	12	µg/L	50.0		72.8	40-140	2.37	20	
Fluorene (SIM)	35.5	25	µg/L	50.0		71.0	40-140	3.32	20	
Indeno(1,2,3-cd)pyrene (SIM)	37.6	2.5	µg/L	50.0		75.3	40-140	3.59	20	‡
Naphthalene (SIM)	27.2	25	µg/L	50.0		54.4	40-140	13.4	20	
Phenanthrene (SIM)	35.6	1.2	µg/L	50.0		71.1	40-140	2.71	20	
Pyrene (SIM)	34.8	25	µg/L	50.0		69.5	40-140	2.98	20	
Surrogate: Nitrobenzene-d5	*52.1*		µg/L	100		52.1	30-130			
Surrogate: 2-Fluorobiphenyl	*50.7*		µg/L	100		50.7	30-130			
Surrogate: p-Terphenyl-d14	*46.6*		µg/L	100		46.6	30-130			

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B211807 - SW-846 3510C										
Blank (B211807-BLK1)				Prepared: 09/05/18 Analyzed: 09/07/18						
Endosulfan I	ND	0.010	µg/L							
Endosulfan I [2C]	ND	0.010	µg/L							
Heptachlor Epoxide	ND	0.010	µg/L							
Heptachlor Epoxide [2C]	ND	0.010	µg/L							
Surrogate: Decachlorobiphenyl	*0.311*		µg/L	0.400		77.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.306*		µg/L	0.400		76.5	30-150			
Surrogate: Tetrachloro-m-xylene	*0.214*		µg/L	0.400		53.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.218*		µg/L	0.400		54.5	30-150			
LCS (B211807-BS1)				Prepared: 09/05/18 Analyzed: 09/07/18						
Endosulfan I	0.74	0.050	µg/L	1.00		74.0	45-153			
Endosulfan I [2C]	0.71	0.050	µg/L	1.00		71.1	45-153			
Heptachlor Epoxide	0.77	0.050	µg/L	1.00		76.8	37-142			
Heptachlor Epoxide [2C]	0.73	0.050	µg/L	1.00		73.2	37-142			
Surrogate: Decachlorobiphenyl	*1.47*		µg/L	2.00		73.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.44*		µg/L	2.00		72.0	30-150			
Surrogate: Tetrachloro-m-xylene	*1.42*		µg/L	2.00		71.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.36*		µg/L	2.00		68.1	30-150			
LCS Dup (B211807-BSD1)				Prepared: 09/05/18 Analyzed: 09/07/18						
Endosulfan I	0.76	0.050	µg/L	1.00		76.0	45-153	2.63		
Endosulfan I [2C]	0.73	0.050	µg/L	1.00		73.2	45-153	3.01		
Heptachlor Epoxide	0.78	0.050	µg/L	1.00		78.2	37-142	1.75		
Heptachlor Epoxide [2C]	0.75	0.050	µg/L	1.00		74.9	37-142	2.37		
Surrogate: Decachlorobiphenyl	*1.53*		µg/L	2.00		76.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.49*		µg/L	2.00		74.7	30-150			
Surrogate: Tetrachloro-m-xylene	*1.42*		µg/L	2.00		70.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.38*		µg/L	2.00		68.8	30-150			

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B211806 - SW-846 3510C										
Blank (B211806-BLK1)				Prepared: 09/05/18 Analyzed: 09/07/18						
Aroclor-1016	ND	0.040	µg/L							
Aroclor-1016 [2C]	ND	0.040	µg/L							
Aroclor-1221	ND	0.040	µg/L							
Aroclor-1221 [2C]	ND	0.040	µg/L							
Aroclor-1232	ND	0.040	µg/L							
Aroclor-1232 [2C]	ND	0.040	µg/L							
Aroclor-1242	ND	0.040	µg/L							
Aroclor-1242 [2C]	ND	0.040	µg/L							
Aroclor-1248	ND	0.040	µg/L							
Aroclor-1248 [2C]	ND	0.040	µg/L							
Aroclor-1254	ND	0.040	µg/L							
Aroclor-1254 [2C]	ND	0.040	µg/L							
Aroclor-1260	ND	0.040	µg/L							
Aroclor-1260 [2C]	ND	0.040	µg/L							
Surrogate: Decachlorobiphenyl	*0.337*		µg/L	0.400		84.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.338*		µg/L	0.400		84.5	30-150			
Surrogate: Tetrachloro-m-xylene	*0.297*		µg/L	0.400		74.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.339*		µg/L	0.400		84.9	30-150			
LCS (B211806-BS1)				Prepared: 09/05/18 Analyzed: 09/07/18						
Aroclor-1016	0.48	0.20	µg/L	0.500		96.9	50-140			
Aroclor-1016 [2C]	0.50	0.20	µg/L	0.500		101	50-140			
Aroclor-1260	0.41	0.20	µg/L	0.500		82.9	8-140			
Aroclor-1260 [2C]	0.43	0.20	µg/L	0.500		86.2	8-140			
Surrogate: Decachlorobiphenyl	*1.70*		µg/L	2.00		85.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.71*		µg/L	2.00		85.7	30-150			
Surrogate: Tetrachloro-m-xylene	*1.61*		µg/L	2.00		80.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.85*		µg/L	2.00		92.3	30-150			
LCS Dup (B211806-BSD1)				Prepared: 09/05/18 Analyzed: 09/07/18						
Aroclor-1016	0.57	0.20	µg/L	0.500		114	50-140	16.0		
Aroclor-1016 [2C]	0.59	0.20	µg/L	0.500		118	50-140	15.7		
Aroclor-1260	0.48	0.20	µg/L	0.500		95.4	8-140	14.0		
Aroclor-1260 [2C]	0.51	0.20	µg/L	0.500		102	8-140	17.1		
Surrogate: Decachlorobiphenyl	*2.01*		µg/L	2.00		100	30-150			
Surrogate: Decachlorobiphenyl [2C]	*2.04*		µg/L	2.00		102	30-150			
Surrogate: Tetrachloro-m-xylene	*1.87*		µg/L	2.00		93.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*2.15*		µg/L	2.00		108	30-150			

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B211992 - EPA 200.7										
Blank (B211992-BLK1)				Prepared: 09/07/18 Analyzed: 09/10/18						
Chromium	ND	0.0070	mg/L							
Zinc	ND	0.010	mg/L							
LCS (B211992-BS1)				Prepared: 09/07/18 Analyzed: 09/10/18						
Chromium	0.545	0.0070	mg/L	0.500		109	85-115			
Zinc	1.09	0.010	mg/L	1.00		109	85-115			
LCS Dup (B211992-BSD1)				Prepared: 09/07/18 Analyzed: 09/10/18						
Chromium	0.546	0.0070	mg/L	0.500		109	85-115	0.0558	20	
Zinc	1.09	0.010	mg/L	1.00		109	85-115	0.0559	20	
Batch B212229 - EPA 200.8										
Blank (B212229-BLK1)				Prepared: 09/07/18 Analyzed: 09/10/18						
Lead	ND	0.50	µg/L							
LCS (B212229-BS1)				Prepared: 09/07/18 Analyzed: 09/10/18						
Lead	543	5.0	µg/L	500		109	85-115			
LCS Dup (B212229-BSD1)				Prepared: 09/07/18 Analyzed: 09/10/18						
Lead	541	5.0	µg/L	500		108	85-115	0.351	20	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B211929 - SM21-22 4500 H B										
LCS (B211929-BS1)				Prepared & Analyzed: 09/06/18						
pH	5.99		pH Units	6.00		99.8	90-110			

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

BREAKDOWN REPORT

Lab Sample ID: **S027063-PEM1** **Analyzed:** **09/07/2018**

Column Number: **1**

Analyte	% Breakdown
4,4'-DDT [1]	1.71
Endrin [1]	2.21

Column Number: **2**

Analyte	% Breakdown
4,4'-DDT [2]	2.18
Endrin [2]	2.72

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

EPA 608.3

LCS

Lab Sample ID: B211806-BS1 Date(s) Analyzed: 09/07/2018 09/07/2018

Instrument ID (1): ECD5 Instrument ID (2): ECD5

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.48	
	2	0.000	0.000	0.000	0.50	4.1
Aroclor-1260	1	0.000	0.000	0.000	0.41	
	2	0.000	0.000	0.000	0.43	4.8

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

EPA 608.3

LCS Dup

Lab Sample ID: B211806-BSD1 Date(s) Analyzed: 09/07/2018 09/07/2018

Instrument ID (1): ECD5 Instrument ID (2): ECD5

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.57	
	2	0.000	0.000	0.000	0.59	3.5
Aroclor-1260	1	0.000	0.000	0.000	0.48	
	2	0.000	0.000	0.000	0.51	6.1

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

EPA 608.3

LCS

Lab Sample ID: B211807-BS1 Date(s) Analyzed: 09/07/2018 09/07/2018

Instrument ID (1): ECD2 Instrument ID (2): ECD2

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Endosulfan I	1	6.955	0.000	0.000	0.74	
	2	6.684	0.000	0.000	0.71	4.1
Heptachlor Epoxide	1	6.669	0.000	0.000	0.77	
	2	6.411	0.000	0.000	0.73	5.3

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

EPA 608.3

LCS Dup

Lab Sample ID: B211807-BSD1 Date(s) Analyzed: 09/07/2018 09/07/2018

Instrument ID (1): ECD2 Instrument ID (2): ECD2

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Endosulfan I	1	6.955	0.000	0.000	0.76	
	2	6.683	0.000	0.000	0.73	4.0
Heptachlor Epoxide	1	6.668	0.000	0.000	0.78	
	2	6.411	0.000	0.000	0.75	3.9

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
H-05	Holding time was exceeded. pH analysis should be performed immediately at time of sampling. Nominal 15 minute holding time was exceeded.

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
EPA 200.7 in Water	
Chromium	CT,MA,NH,NY,RI,NC,ME,VA
Zinc	CT,MA,NH,NY,RI,NC,ME,VA
EPA 200.8 in Water	
Lead	CT,MA,NH,NY,RI,NC,ME,VA
EPA 608.3 in Water	
Aroclor-1016	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1016 [2C]	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1221	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1221 [2C]	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1232	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1232 [2C]	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1242	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1242 [2C]	CT,MA,NH,NY,RI,NC,ME,VA
Endosulfan I	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1248	CT,MA,NH,NY,RI,NC,ME,VA
Endosulfan I [2C]	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1248 [2C]	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1254	CT,MA,NH,NY,RI,NC,ME,VA
Heptachlor Epoxide	CT,MA,NH,NY,RI,NC,ME,VA
Heptachlor Epoxide [2C]	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1254 [2C]	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1260	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1260 [2C]	CT,MA,NH,NY,RI,NC,ME,VA
EPA 624.1 in Water	
Benzene	CT,NY,RI,NC,MA,NH
Ethylbenzene	CT,NY,RI,NC,MA,NH
1,2,4-Trimethylbenzene	MA
Xylenes (total)	NY,MA,NH
m+p Xylene	CT,NY,RI,NC,MA,NH
o-Xylene	CT,NY,RI,NC,MA,NH
SM21-22 4500 H B in Water	
pH	CT,MA,RI
SW-846 8260C in Water	
Benzene	CT,ME,NH,VA,NY
Ethylbenzene	CT,ME,NH,VA,NY
Isopropylbenzene (Cumene)	ME,VA,NY
1,2,4-Trimethylbenzene	ME,VA,NY
m+p Xylene	CT,ME,NH,VA,NY
o-Xylene	CT,ME,NH,VA,NY
Xylenes (total)	NY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	03/1/2020
MA	Massachusetts DEP	M-MA100	06/30/2019
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2019
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2019
RI	Rhode Island Department of Health	LAO00112	12/30/2018
NC	North Carolina Div. of Water Quality	652	12/31/2018
NJ	New Jersey DEP	MA007 NELAP	06/30/2019
FL	Florida Department of Health	E871027 NELAP	06/30/2019
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2019
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2018
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2019
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2019
NC-DW	North Carolina Department of Health	25703	07/31/2019

18 10109

con-test ANALYTICAL LABORATORY

Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com

http://www.contestlabs.com

CHAIN OF CUSTODY RECORD (New York)

Doc # 380 Rev 1_03242017

39 Spruce Street
East Longmeadow, MA 01028

Page _1_ of __

Company Name:	LAND Remediation
Address:	74 Hudson River Road Waterford, New York 12188
Phone:	518-766-4105
Project Name:	NYSDEC Saranac Lake Gas Co.
Project Location:	Saranac Lake OU_3
Project Number:	
Project Manager:	Matthew Warren
Con-Test Quote Name/Number:	
Invoice Recipient:	mjw@land-remediation.com
Sampled By:	Vaughn Nelson, Kyle Jones

Requested Turnaround Time
7-Day ☐ 10-Day ☐
Due Date:

Rush Approval Required
1-Day ☑ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
CLP Like Data Pkg Required: ☐
Email To: mjw@land-remediation
Fax To #: jkl@land-remediation

ANALYSIS REQUESTED

# of Containers	1	1	1	2	2	3	2	1	1		
[2] Preservation Code		-	-	S		H	-	N	-		
[3] Container Code	P	P	P	A	A	V	A	P	P		

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	BOD-5	TDS	TSS	Oil and Grease	SVOCs	VOCs	PCB	Metals (Lead, Zinc, Chromium)	pH	
1	OU-2-WWTP-Eff-06	9/4/2018 7:54	9/4/2018 8:00	x		S	L	x	x	x	x	x		x	x	x	
2	OU-2-WWTP-EFF06	9/4/2018 8:00	9/4/2018 8:01		x	S	L						x				

Dissolved Metals Samples
☐ Field Filtered
☐ Lab to Filter

Orthophosphate Samples
☐ Field Filtered
☐ Lab to Filter

[1] Matrix Codes:
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define)

[2] Preservation Codes:
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

[3] Container Codes:
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Comments: (48 hours AT TDS/TSS/ Oil and Grease; 5-Day BOD (5-Day

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Reference Attache SPDES Permit Equivalency - report only analytes listed on the permit.

Relinquished by: (signature)	Kyle Jones	Date/Time: 9/4 15:00
Received by: (signature)	5.8	Date/Time: 9/5/18 907
Relinquished by: (signature)		Date/Time:
Received by: (signature)		Date/Time:
Relinquished by: (signature)		Date/Time:
Received by: (signature)		Date/Time:

Program & Regulatory Information
☐ AWQ STDS ☐ NY TOGS
☐ NYC Sewer Discharge ☐ NY CP-51
☐ Part 360 GW (Landfill)
☐ NY Restricted Use
☐ NY Unrestricted Use
☐ NY Part 375

Deliverables
☐ Enhanced Data Package
☐ NYSDEC EQuIS EDD
☐ EQuIS (Standard) EDD
☐ NY Regulatory EDD
☐ NY Regs Hits-Only EDD

Other:

Other:

Project Entity
☑ Government ☐ Municipality ☐ MWRA ☐ WRTA
☐ Federal ☐ 21 J ☐ School
☐ City ☐ Brownfield ☐ MBTA

NELAC and AIHA-LAP, LLC Accredited

Other
☐ Chromatogram
☐ *AIHA-LAP,LLC*

PCB ONLY
☐ Soxhlet
☐ Non Soxhlet

Table of Contents

TRACK ANOTHER SHIPMENT

813219361006

Delivered
Wednesday 9/05/2018 at 9:09 am

DELIVERED

Signed for by: B.BECCA

GET STATUS UPDATES

OBTAIN PROOF OF DELIVERY

FROM

HAR US

TO

EAST LONGMEADOW, MA US

Travel History | Shipment Facts

9/05/2018 - Wednesday	9:09 am	Delivered MA

Expand History

9/04/2018 - Tuesday	5:40 pm	Picked up PLATTSBURGH, NY

Ask FedEx

OUR COMPANY

About FedEx
Our Portfolio
Investor Relations
Careers
FedEx Blog
Corporate Responsibility
Newsroom
Contact Us

MORE FROM FEDEX

FedEx Compatible
Developer Resource Center
FedEx Cross Border

LANGUAGE

Change Country

English

I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples_____

con-test® ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client LAND Remediation

Received By RAP Date 9/5/18 Time 909

How were the samples received? In Cooler T No Cooler _____ On Ice T No Ice _____

Direct from Sampling _____ Ambient _____ Melted Ice _____

By Gun # 557 Actual Temp - 5.8

Were samples within Temperature? 2-6°C T By Blank # _____ Actual Temp - _____

Was Custody Seal Intact? NA Were Samples Tampered with? NA

Was COC Relinquished ? T Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? T Were samples received within holding time? T

Did COC include all pertinent Information? Client T Analysis T Sampler Name T

Project T ID's T Collection Dates/Times T

Are Sample labels filled out and legible? T

Are there Lab to Filters? F Who was notified? _____

Are there Rushes? F Who was notified? Lucy, Alex, Mikem

Are there Short Holds? F Who was notified? Lucy

Is there enough Volume? T

Is there Headspace where applicable? F MS/MSD? F

Proper Media/Containers Used? T Is splitting samples required? F

Were trip blanks received? F On COC? F

Do all samples have the proper pH? Acid pHC2 Base _____

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.	5	1 Liter Plastic		16 oz Amb.	
HCL-	3	500 mL Amb.		500 mL Plastic	1	8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic	1	4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Comments:

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

September 11, 2018

Keith Decker
Land Remediation
74 Hudson River Road
Waterford, NY 12188

Project Location: Saranac Lake
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 18I0106

Enclosed are results of analyses for samples received by the laboratory on September 5, 2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Aaron L. Benoit
Project Manager

Table of Contents

Sample Summary 3

Case Narrative 4

Sample Results 5

18I0106-01 5

Sample Preparation Information 6

QC Data 7

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) 7

B211822 7

B212061 7

Flag/Qualifier Summary 8

Certifications 9

Chain of Custody/Sample Receipt 10

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Land Remediation
74 Hudson River Road
Waterford, NY 12188
ATTN: Keith Decker

REPORT DATE: 9/11/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18I0106

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Saranac Lake

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
OU2-WWTP-EFF-06	18I0106-01	Waste Water		EPA 1664B SM 21-22 5210B	

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Lisa A. Worthington
Project Manager

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake | Sample Description: | Work Order: 18I0106

Date Received: 9/5/2018

Field Sample #: OU2-WWTP-EFF-06

Sample ID: 18I0106-01 | Start Date/Time: 9/4/2018 7:54:00AM

Sample Matrix: Waste Water | Stop Date/Time: 9/4/2018 8:00:00AM

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Biochemical Oxygen Demand	ND	4.0	mg/L	1		SM 21-22 5210B	9/5/18	9/5/18 16:35	LED
Oil & Grease (HEM)	ND	1.4	mg/L	1		EPA 1664B	9/10/18	9/10/18 12:30	LL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

EPA 1664B

Lab Number [Field ID]	Batch	Initial [mL]	Date
18I0106-01 [OU2-WWTP-EFF-06]	B212061	990	09/10/18

SM 21-22 5210B

Lab Number [Field ID]	Batch	Initial [mL]	Date
18I0106-01 [OU2-WWTP-EFF-06]	B211822	150	09/05/18

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B211822 - SM 21-22 5210B										
Blank (B211822-BLK1)				Prepared & Analyzed: 09/05/18						
Biochemical Oxygen Demand	ND	2.0	mg/L							
LCS (B211822-BS1)				Prepared & Analyzed: 09/05/18						
Biochemical Oxygen Demand	170	2.0	mg/L	198		85.7	85-115			
Batch B212061 - EPA 1664B										
Blank (B212061-BLK1)				Prepared & Analyzed: 09/10/18						
Oil & Grease (HEM)	ND	1.4	mg/L							
Blank (B212061-BLK2)				Prepared & Analyzed: 09/10/18						
Oil & Grease (HEM)	ND	56	mg/L							
LCS (B212061-BS1)				Prepared & Analyzed: 09/10/18						
Oil & Grease (HEM)	20		mg/L	20.0		100	78-114			
LCS (B212061-BS2)				Prepared & Analyzed: 09/10/18						
Oil & Grease (HEM)	740		mg/L	800		92.0	78-114			

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level

Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.

No results have been blank subtracted unless specified in the case narrative section.

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
EPA 1664B in Water	
Oil & Grease (HEM)	CT,MA,NH,NY,RI,NC,ME,VA
SM 21-22 5210B in Water	
Biochemical Oxygen Demand	CT,MA,NH,NY,RI,ME,VA,NC

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	03/1/2020
MA	Massachusetts DEP	M-MA100	06/30/2019
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2019
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2019
RI	Rhode Island Department of Health	LAO00112	12/30/2018
NC	North Carolina Div. of Water Quality	652	12/31/2018
NJ	New Jersey DEP	MA007 NELAP	06/30/2019
FL	Florida Department of Health	E871027 NELAP	06/30/2019
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2019
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2018
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2019
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2019
NC-DW	North Carolina Department of Health	25703	07/31/2019

1810106

con-test ANALYTICAL LABORATORY

Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com

http://www.contestlabs.com

CHAIN OF CUSTODY RECORD (New York)

Doc # 380 Rev 1_03242017

39 Spruce Street
East Longmeadow, MA 01028

Page _1_ of _1_

Company Name:	LAND Remediation
Address:	74 Hudson River Road Waterford, New York 12188
Phone:	518-766-4105
Project Name:	NYSDEC Saranac Lake Gas Co.
Project Location:	Saranac Lake OU_3
Project Number:	
Project Manager:	Matthew Warren
Con-Test Quote Name/Number:	
Invoice Recipient:	mjw@land-remediation.com
Sampled By:	Vaughn Nelson, Kyle Jones

Requested Turnaround Time
7-Day ☐ 10-Day ☐
Due Date:

Rush Approval Required
1-Day ☑ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
CLP Like Data Pkg Required: ☐
Email To: mjw@land-remediation
Fax To #: jkl@land-remediation

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	BOD-5	TDS	TSS	Oil and Grease	SVOCs	VOCs	PCB	Metals (Lead, Zinc, Chromium)	pH
								1	1	1	2	2	3	2	1	1
									-	-	S		H	-	N	-
								P	P	P	A	A	V	A	P	P
I	OU-2-WWTP-Eff-06	9/4/2018 7:54	9/4/2018 8:00	X		S	L	x	x	x	x	x		x	x	x
	OU-2-WWTP-EFF06	9/4/2018 8:00	9/4/2018 8:01		X	S	L						x			

# of Containers
[2] Preservation Code
[3] Container Code

Dissolved Metals Samples
☐ Field Filtered
☐ Lab to Filter

Orthophosphate Samples
☐ Field Filtered
☐ Lab to Filter

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define)

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

[3] **Container Codes:**
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Comments: (48 hours AT TDS/TSS/ Oil and Grease; 5-Day BOD (5-Day

Reference Attache SPDES Permit Equivalency - report only analytes listed on the permit.

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time: 9/4 15:00
Received by: (signature)	Date/Time: 9/5/18 907
Relinquished by: (signature)	Date/Time:
ived by: (signature)	Date/Time:
quished by: (signature)	Date/Time:
ived by: (signature)	Date/Time:

Program & Regulatory Information
☐ AWQ STDS ☐ NY TOGS
☐ NYC Sewer Discharge ☐ NY CP-51
☐ Part 360 GW (Landfill)
☐ NY Restricted Use
☐ NY Unrestricted Use
☐ NY Part 375
Other:

Deliverables
☐ Enhanced Data Package
☐ NYSDEC EQuIS EDD
☐ EQuIS (Standard) EDD
☐ NY Regulatory EDD
☐ NY Regs Hits-Only EDD
Other:

NELAC and AIHA-LAP, LLC Accredited

Project Entity
☑ Government ☐ Municipality ☐ MWRA ☐ WRTA
☐ Federal ☐ 21 J ☐ School
☐ City ☐ Brownfield ☐ MBTA

Other
☐ Chromatogram
☐ *AIHA-LAP,LLC*

PCB ONLY
☐ Soxhlet
☐ Non Soxhlet

Table of Contents

TRACK ANOTHER SHIPMENT

813219361006

Delivered
Wednesday 9/05/2018 at 9:09 am

DELIVERED

Signed for by: B.BECCA

GET STATUS UPDATES

OBTAIN PROOF OF DELIVERY

FROM

HAR US

TO

EAST LONGMEADOW, MA US

Travel History | Shipment Facts

9/05/2018 - Wednesday	9:09 am	Delivered MA

Expand History

9/04/2018 - Tuesday	5:40 pm	Picked up PLATTSBURGH, NY

Ask FedEx

OUR COMPANY

About FedEx
Our Portfolio
Investor Relations
Careers
FedEx Blog
Corporate Responsibility
Newsroom
Contact Us

MORE FROM FEDEX

FedEx Compatible
Developer Resource Center
FedEx Cross Border

LANGUAGE

Change Country

English

I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples_____

con-test® ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client LAND Remediation

Received By RAP Date 9/5/18 Time 909

How were the samples received? In Cooler T No Cooler ____ On Ice T No Ice ____ Direct from Sampling ____ Ambient ____ Melted Ice ____

Were samples within Temperature? 2-6°C T By Gun # 537 Actual Temp - 5.8 By Blank # ____ Actual Temp - ____

Was Custody Seal Intact? NA Were Samples Tampered with? NA

Was COC Relinquished ? T Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? T Were samples received within holding time? T

Did COC include all pertinent Information? Client T Analysis T Sampler Name T Project T ID's T Collection Dates/Times T

Are Sample labels filled out and legible? T

Are there Lab to Filters? F Who was notified? ____

Are there Rushes? T Who was notified? Lucy

Are there Short Holds? T Who was notified? Lucy

Is there enough Volume? T

Is there Headspace where applicable? F MS/MSD? F

Proper Media/Containers Used? T Is splitting samples required? F

Were trip blanks received? F On COC? F

Do all samples have the proper pH? NA Acid ____ Base ____

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.	1	1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic	1	8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Comments:

One of the sulfuric ambers was received shattered.

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

September 7, 2018

Keith Decker
Land Remediation
74 Hudson River Road
Waterford, NY 12188

Project Location: Saranac Lake
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 18I0104

Enclosed are results of analyses for samples received by the laboratory on September 5, 2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Aaron L. Benoit
Project Manager

Table of Contents

Sample Summary 3

Case Narrative 4

Sample Results 5

18I0104-01 5

Sample Preparation Information 7

QC Data 8

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) 8

B211850 8

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Dissolved) 9

B211848 9

Flag/Qualifier Summary 10

Certifications 11

Chain of Custody/Sample Receipt 12

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Land Remediation
74 Hudson River Road
Waterford, NY 12188
ATTN: Keith Decker

REPORT DATE: 9/7/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18I0104

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Saranac Lake

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
OU2-WWTP-EFF-06	18I0104-01	Waste Water		SM21-22 2540C SM21-22 2540D	

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Lisa A. Worthington
Project Manager

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake | Sample Description: | Work Order: 18I0104

Date Received: 9/5/2018

Field Sample #: OU2-WWTP-EFF-06

Sample ID: 18I0104-01 | Start Date/Time: 9/4/2018 7:54:00AM

Sample Matrix: Waste Water | Stop Date/Time: 9/4/2018 8:00:00AM

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Suspended Solids	ND	1.4	mg/L	1		SM21-22 2540D	9/6/18	9/6/18 14:00	LL

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake | Sample Description: | Work Order: 18I0104

Date Received: 9/5/2018

Field Sample #: OU2-WWTP-EFF-06

Sample ID: 18I0104-01 | Start Date/Time: 9/4/2018 7:54:00AM

Sample Matrix: Waste Water | Stop Date/Time: 9/4/2018 8:00:00AM

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Dissolved)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Dissolved Solids	150	10	mg/L	1		SM21-22 2540C	9/6/18	9/6/18 13:30	LL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

SM21-22 2540C

Lab Number [Field ID]	Batch	Initial [mL]	Date
18I0104-01 [OU2-WWTP-EFF-06]	B211848	50.0	09/06/18

SM21-22 2540D

Lab Number [Field ID]	Batch	Initial [mL]	Date
18I0104-01 [OU2-WWTP-EFF-06]	B211850	350	09/06/18

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B211850 - SM21-22 2540D										
Blank (B211850-BLK1)				Prepared & Analyzed: 09/06/18						
Total Suspended Solids	ND	2.5	mg/L							
LCS (B211850-BS1)				Prepared & Analyzed: 09/06/18						
Total Suspended Solids	154	10	mg/L	200		77.0	64.3-117			

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Dissolved) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B211848 - SM21-22 2540C										
Blank (B211848-BLK1)				Prepared & Analyzed: 09/06/18						
Total Dissolved Solids	ND	10	mg/L							
LCS (B211848-BS1)				Prepared & Analyzed: 09/06/18						
Total Dissolved Solids	280	10	mg/L	293		94.9	61.4-114			

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level

Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.

No results have been blank subtracted unless specified in the case narrative section.

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SM21-22 2540C in Water	
Total Dissolved Solids	CT,MA,NH,NY,RI,NC,ME,VA
SM21-22 2540D in Water	
Total Suspended Solids	CT,MA,NH,NY,RI,NC,ME,VA

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	03/1/2020
MA	Massachusetts DEP	M-MA100	06/30/2019
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2019
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2019
RI	Rhode Island Department of Health	LAO00112	12/30/2018
NC	North Carolina Div. of Water Quality	652	12/31/2018
NJ	New Jersey DEP	MA007 NELAP	06/30/2019
FL	Florida Department of Health	E871027 NELAP	06/30/2019
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2019
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2018
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2018
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2019
NC-DW	North Carolina Department of Health	25703	07/31/2019

1810104

con-test ANALYTICAL LABORATORY

Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com

http://www.contestlabs.com Doc # 380 Rev 1_03242017

CHAIN OF CUSTODY RECORD (New York)

39 Spruce Street
East Longmeadow, MA 01028

Company Name:	LAND Remediation
Address:	74 Hudson River Road Waterford, New York 12188
Phone:	518-766-4105
Project Name:	NYSDEC Saranac Lake Gas Co.
Project Location:	Saranac Lake OU_3
Project Number:	-
Project Manager:	Matthew Warren
Con-Test Quote Name/Number:	
Invoice Recipient:	mjw@land-remediation.com
Sampled By:	Vaughn Nelson, Kyle Jones

Requested Turnaround Time
7-Day ☐ 10-Day ☐
Due Date:

Rush Approval Required
1-Day ☑ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
CLP Like Data Pkg Required: ☐
Email To: mjw@land-remediation
Fax To #: jkl@land-remediation

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	BOD-5	TDS	TSS	Oil and Grease	SVOCs	VOCs	PCB	Metals (Lead, Zinc, Chromium)	pH	# of Containers
								1	1	1	2	2	3	2	1	1	
									-	-	S		H	-	N	-	[2] Preservation Code
								P	P	P	A	A	V	A	P	P	[3] Container Code
1	OU-2-WWTP-Eff-06	9/4/2018 7:54	9/4/2018 8:00	x		S	L	x	x	x	x	x		x	x	x	
	OU-2-WWTP-EFF06	9/4/2018 8:00	9/4/2018 8:01		x	S	L						x				

Dissolved Metals Samples
☐ Field Filtered
☐ Lab to Filter

Orthophosphate Samples
☐ Field Filtered
☐ Lab to Filter

[1] Matrix Codes:
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define)

[2] Preservation Codes:
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

[3] Container Codes:
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Comments: (48 hours AT TDS/TSS/ Oil and Grease; 5-Day BOD (5-Day

Reference Attache SPDES Permit Equivalency - report only analytes listed on the permit.

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time: 9/4 15:00
Received by: (signature)	Date/Time: 9/5/18 907
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Program & Regulatory Information
☐ AWQ STDS ☐ NY TOGS
☐ NYC Sewer Discharge ☐ NY CP-51
☐ Part 360 GW (Landfill)
☐ NY Restricted Use
☐ NY Unrestricted Use
☐ NY Part 375
Other:

Deliverables
☐ Enhanced Data Package
☐ NYSDEC EQuIS EDD
☐ EQuIS (Standard) EDD
☐ NY Regulatory EDD
☐ NY Regs Hits-Only EDD
Other:
NELAC and AIHA LAP, LLC Accredited

Project Entity
☑ Government ☐ Municipality ☐ MWRA ☐ WRTA
☐ Federal ☐ 21 J ☐ School
☐ City ☐ Brownfield ☐ MBTA

Other
☐ Chromatogram
☐ *AIHA-LAP,LLC*

PCB ONLY
☐ Soxhlet
☐ Non Soxhlet

Table of Contents

TRACK ANOTHER SHIPMENT

813219361006

Delivered
Wednesday 9/05/2018 at 9:09 am

DELIVERED

Signed for by: B.BECCA

GET STATUS UPDATES

OBTAIN PROOF OF DELIVERY

FROM

HAR US

TO

EAST LONGMEADOW, MA US

Travel History | Shipment Facts

9/05/2018 - Wednesday	9:09 am	Delivered MA

Expand History

9/04/2018 - Tuesday	5:40 pm	Picked up PLATTSBURGH, NY

Ask FedEx

OUR COMPANY

About FedEx
Our Portfolio
Investor Relations
Careers
FedEx Blog
Corporate Responsibility
Newsroom
Contact Us

MORE FROM FEDEX

FedEx Compatible
Developer Resource Center
FedEx Cross Border

LANGUAGE

Change Country

English

I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples_____

con-test® ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client LAND Remediation

Received By RAP Date 9/5/18 Time 909

How were the samples received? In Cooler T No Cooler _____ On Ice T No Ice _____

Direct from Sampling _____ Ambient _____ Melted Ice _____

By Gun # 557 Actual Temp - 5.8

Were samples within Temperature? 2-6°C T By Blank # _____ Actual Temp - _____

Was Custody Seal Intact? NA Were Samples Tampered with? NA

Was COC Relinquished ? T Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? T Were samples received within holding time? T

Did COC include all pertinent Information? Client T Analysis T Sampler Name T

Project T ID's T Collection Dates/Times T

Are Sample labels filled out and legible? T

Are there Lab to Filters? F Who was notified? _____

Are there Rushes? T Who was notified? WLM

Are there Short Holds? F Who was notified? _____

Is there enough Volume? T

Is there Headspace where applicable? F MS/MSD? F

Proper Media/Containers Used? T Is splitting samples required? F

Were trip blanks received? F On COC? F

Do all samples have the proper pH? Acid _____ Base _____

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic	1	8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Comments:

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

September 13, 2018

Matthew Warren
Land Remediation
74 Hudson River Road
Waterford, NY 12188

Project Location: Saranac Lake Construction Water
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 18I0250

Enclosed are results of analyses for samples received by the laboratory on September 7, 2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Aaron L. Benoit
Project Manager

Table of Contents

Sample Summary 4

Case Narrative 5

Sample Results 6

18I0250-01 6

18I0250-02 12

Sample Preparation Information 13

QC Data 14

Volatile Organic Compounds by GC/MS 14

B212056 14

Volatile Organic Compounds by GC/MS 15

B212088 15

Semivolatile Organic Compounds by GC/MS 16

B211955 16

Organochloride Pesticides by GC/ECD 18

B212060 18

Polychlorinated Biphenyls By GC/ECD 19

B212059 19

Metals Analyses (Total) 20

B212086 20

B212091 20

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) 21

B212014 21

Pesticides Degradation Report 22

Dual Column RPD Report 23

Flag/Qualifier Summary 27

Table of Contents (continued)

Certifications 28

Chain of Custody/Sample Receipt 30

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Land Remediation
74 Hudson River Road
Waterford, NY 12188
ATTN: Matthew Warren

REPORT DATE: 9/13/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18I0250

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Saranac Lake Construction Water

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
OU2-WWTP-Eff-07	18I0250-01	Waste Water		EPA 200.7	
				EPA 200.8	
				EPA 608.3	
				SM21-22 4500 H B	
				SW-846 8260C	
				SW-846 8270D	
OU2-WWTP-Eff-07	18I0250-02	Waste Water		EPA 624.1	

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

For method 8270, only PAHs were requested and reported.

EPA 608.3

Qualifications:

R-05

Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.

Analyte & Samples(s) Qualified:

Aroclor-1260

18I0250-01RE1[OU2-WWTP-Eff-07], B212059-BLK1, B212059-BS1, B212059-BSD1

SM21-22 4500 H B

Qualifications:

H-05

Holding time was exceeded. pH analysis should be performed immediately at time of sampling. Nominal 15 minute holding time was exceeded.

Analyte & Samples(s) Qualified:

pH

18I0250-01[OU2-WWTP-Eff-07]

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Lisa A. Worthington
Project Manager

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake Construction Water | Sample Description: | Work Order: 18I0250

Date Received: 9/7/2018

Field Sample #: OU2-WWTP-Eff-07

Sample ID: 18I0250-01 | Start Date/Time: 9/7/2018 7:21:00AM

Sample Matrix: Waste Water | Stop Date/Time: 9/7/2018 7:25:00AM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Isopropylbenzene (Cumene)	ND	1.0	0.12	µg/L	1		SW-846 8260C	9/10/18	9/10/18 9:34	LBD
Toluene	ND	1.0	0.17	µg/L	1		SW-846 8260C	9/10/18	9/10/18 9:34	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	98.1	70-130		9/10/18 9:34
Toluene-d8	96.0	70-130		9/10/18 9:34
4-Bromofluorobenzene	99.7	70-130		9/10/18 9:34

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake Construction Water | Sample Description: | Work Order: 18I0250

Date Received: 9/7/2018

Field Sample #: OU2-WWTP-Eff-07

Sample ID: 18I0250-01 | Start Date/Time: 9/7/2018 7:21:00AM

Sample Matrix: Waste Water | Stop Date/Time: 9/7/2018 7:25:00AM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene (SIM)	ND	0.29	0.058	µg/L	1		SW-846 8270D	9/7/18	9/10/18 12:09	IMR
Acenaphthylene (SIM)	ND	0.19	0.048	µg/L	1		SW-846 8270D	9/7/18	9/10/18 12:09	IMR
Anthracene (SIM)	ND	0.19	0.038	µg/L	1		SW-846 8270D	9/7/18	9/10/18 12:09	IMR
Benzo(a)anthracene (SIM)	ND	0.048	0.048	µg/L	1		SW-846 8270D	9/7/18	9/10/18 12:09	IMR
Benzo(a)pyrene (SIM)	ND	0.096	0.038	µg/L	1		SW-846 8270D	9/7/18	9/10/18 12:09	IMR
Benzo(b)fluoranthene (SIM)	0.020	0.048	0.019	µg/L	1	J	SW-846 8270D	9/7/18	9/10/18 12:09	IMR
Benzo(g,h,i)perylene (SIM)	ND	0.48	0.067	µg/L	1		SW-846 8270D	9/7/18	9/10/18 12:09	IMR
Benzo(k)fluoranthene (SIM)	ND	0.038	0.019	µg/L	1		SW-846 8270D	9/7/18	9/10/18 13:05	IMR
Chrysene (SIM)	ND	0.19	0.029	µg/L	1		SW-846 8270D	9/7/18	9/10/18 12:09	IMR
Dibenz(a,h)anthracene (SIM)	ND	0.096	0.038	µg/L	1		SW-846 8270D	9/7/18	9/10/18 12:09	IMR
Fluoranthene (SIM)	ND	0.48	0.029	µg/L	1		SW-846 8270D	9/7/18	9/10/18 12:09	IMR
Fluorene (SIM)	ND	0.96	0.038	µg/L	1		SW-846 8270D	9/7/18	9/10/18 12:09	IMR
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.096	0.077	µg/L	1		SW-846 8270D	9/7/18	9/10/18 12:09	IMR
Naphthalene (SIM)	ND	0.96	0.067	µg/L	1		SW-846 8270D	9/7/18	9/10/18 12:09	IMR
Phenanthrene (SIM)	ND	0.048	0.038	µg/L	1		SW-846 8270D	9/7/18	9/10/18 12:09	IMR
Pyrene (SIM)	0.033	0.96	0.029	µg/L	1	J	SW-846 8270D	9/7/18	9/10/18 12:09	IMR

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	71.6	30-130		9/10/18 12:09
Nitrobenzene-d5	72.0	30-130		9/10/18 13:05
2-Fluorobiphenyl	76.7	30-130		9/10/18 12:09
2-Fluorobiphenyl	62.3	30-130		9/10/18 13:05
p-Terphenyl-d14	64.5	30-130		9/10/18 13:05
p-Terphenyl-d14	70.0	30-130		9/10/18 12:09

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake Construction Water | Sample Description: | Work Order: 18I0250

Date Received: 9/7/2018

Field Sample #: OU2-WWTP-Eff-07

Sample ID: 18I0250-01 | Start Date/Time: 9/7/2018 7:21:00AM

Sample Matrix: Waste Water | Stop Date/Time: 9/7/2018 7:25:00AM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Endosulfan I [1]	ND	0.0095	0.00040	µg/L	1		EPA 608.3	9/10/18	9/10/18 18:16	TG
Heptachlor epoxide [1]	ND	0.0095	0.00076	µg/L	1		EPA 608.3	9/10/18	9/10/18 18:16	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	71.8	30-150		9/10/18 18:16
Decachlorobiphenyl [2]	75.1	30-150		9/10/18 18:16
Tetrachloro-m-xylene [1]	58.0	30-150		9/10/18 18:16
Tetrachloro-m-xylene [2]	57.2	30-150		9/10/18 18:16

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake Construction Water | Sample Description: | Work Order: 18I0250

Date Received: 9/7/2018

Field Sample #: OU2-WWTP-Eff-07

Sample ID: 18I0250-01 | Start Date/Time: 9/7/2018 7:21:00AM

Sample Matrix: Waste Water | Stop Date/Time: 9/7/2018 7:25:00AM

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.038	0.035	µg/L	1		EPA 608.3	9/10/18	9/10/18 13:54	PJG
Aroclor-1221 [1]	ND	0.038	0.031	µg/L	1		EPA 608.3	9/10/18	9/10/18 13:54	PJG
Aroclor-1232 [1]	ND	0.038	0.038	µg/L	1		EPA 608.3	9/10/18	9/10/18 13:54	PJG
Aroclor-1242 [1]	ND	0.038	0.033	µg/L	1		EPA 608.3	9/10/18	9/10/18 13:54	PJG
Aroclor-1248 [1]	ND	0.038	0.036	µg/L	1		EPA 608.3	9/10/18	9/10/18 13:54	PJG
Aroclor-1254 [1]	ND	0.038	0.020	µg/L	1		EPA 608.3	9/10/18	9/10/18 13:54	PJG
Aroclor-1260 [1]	ND	0.038	0.037	µg/L	1	R-05	EPA 608.3	9/10/18	9/10/18 13:54	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual		
Decachlorobiphenyl [1]	74.5	30-150		9/10/18	13:54
Decachlorobiphenyl [2]	85.9	30-150		9/10/18	13:54
Tetrachloro-m-xylene [1]	78.1	30-150		9/10/18	13:54
Tetrachloro-m-xylene [2]	80.0	30-150		9/10/18	13:54

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake Construction Water | Sample Description: | Work Order: 18I0250

Date Received: 9/7/2018

Field Sample #: OU2-WWTP-Eff-07

Sample ID: 18I0250-01 | Start Date/Time: 9/7/2018 7:21:00AM

Sample Matrix: Waste Water | Stop Date/Time: 9/7/2018 7:25:00AM

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Chromium	ND	0.0070	0.0061	mg/L	1		EPA 200.7	9/10/18	9/11/18 13:19	QNW
Lead	0.34	0.50	0.14	µg/L	1	J	EPA 200.8	9/10/18	9/12/18 16:58	WSD
Zinc	ND	0.010	0.0052	mg/L	1		EPA 200.7	9/10/18	9/11/18 13:19	QNW

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake Construction Water | Sample Description: | Work Order: 18I0250

Date Received: 9/7/2018

Field Sample #: OU2-WWTP-Eff-07

Sample ID: 18I0250-01 | Start Date/Time: 9/7/2018 7:21:00AM

Sample Matrix: Waste Water | Stop Date/Time: 9/7/2018 7:25:00AM

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
pH @22.4°C	7.5		pH Units	1	H-05	SM21-22 4500 H B	9/7/18	9/7/18 18:31	AIA

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake Construction Water | Sample Description: | Work Order: 18I0250

Date Received: 9/7/2018

Field Sample #: OU2-WWTP-Eff-07

Sample ID: 18I0250-02 | Start Date/Time: 9/7/2018 7:25:00AM

Sample Matrix: Waste Water | Stop Date/Time: 9/7/2018 7:28:00AM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	1.0	0.34	µg/L	1		EPA 624.1	9/10/18	9/10/18 9:34	LBD
Ethylbenzene	ND	2.0	0.37	µg/L	1		EPA 624.1	9/10/18	9/10/18 9:34	LBD
1,2,4-Trimethylbenzene	ND	1.0	0.34	µg/L	1		EPA 624.1	9/10/18	9/10/18 9:34	LBD
Xylenes (total)	ND	3.0		µg/L	1		EPA 624.1	9/10/18	9/10/18 9:34	LBD
m+p Xylene	ND	2.0	0.65	µg/L	1		EPA 624.1	9/10/18	9/10/18 9:34	LBD
o-Xylene	ND	2.0	0.35	µg/L	1		EPA 624.1	9/10/18	9/10/18 9:34	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	98.1	70-130		9/10/18 9:34
Toluene-d8	96.0	70-130		9/10/18 9:34
4-Bromofluorobenzene	99.7	70-130		9/10/18 9:34

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: EPA 200.7-EPA 200.7

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18I0250-01 [OU2-WWTP-Eff-07]	B212086	50.0	50.0	09/10/18

Prep Method: EPA 200.8-EPA 200.8

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18I0250-01 [OU2-WWTP-Eff-07]	B212091	50.0	50.0	09/10/18

Prep Method: SW-846 3510C-EPA 608.3

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18I0250-01RE1 [OU2-WWTP-Eff-07]	B212059	1050	2.00	09/10/18

Prep Method: SW-846 3510C-EPA 608.3

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18I0250-01RE1 [OU2-WWTP-Eff-07]	B212060	1050	2.00	09/10/18

Prep Method: SW-846 5030B-EPA 624.1

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18I0250-02 [OU2-WWTP-Eff-07]	B212088	5	5.00	09/10/18

SM21-22 4500 H B

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18I0250-01 [OU2-WWTP-Eff-07]	B212014	50.0		09/07/18

Prep Method: SW-846 5030B-SW-846 8260C

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18I0250-01 [OU2-WWTP-Eff-07]	B212056	5	5.00	09/10/18

Prep Method: SW-846 3510C-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18I0250-01 [OU2-WWTP-Eff-07]	B211955	1040	1.00	09/07/18
18I0250-01RE1 [OU2-WWTP-Eff-07]	B211955	1040	0.200	09/07/18

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B212056 - SW-846 5030B										
Blank (B212056-BLK1)				Prepared & Analyzed: 09/10/18						
Isopropylbenzene (Cumene)	ND	1.0	µg/L							
Toluene	ND	1.0	µg/L							
Surrogate: 1,2-Dichloroethane-d4	*24.2*		µg/L	25.0		96.9	70-130			
Surrogate: Toluene-d8	*24.1*		µg/L	25.0		96.5	70-130			
Surrogate: 4-Bromofluorobenzene	*25.0*		µg/L	25.0		100	70-130			
LCS (B212056-BS1)				Prepared & Analyzed: 09/10/18						
Isopropylbenzene (Cumene)	22.3	1.0	µg/L	20.0		111	70-130			
Toluene	21.4	1.0	µg/L	20.0		107	70-130			
Surrogate: 1,2-Dichloroethane-d4	*24.6*		µg/L	25.0		98.2	70-130			
Surrogate: Toluene-d8	*24.5*		µg/L	25.0		98.1	70-130			
Surrogate: 4-Bromofluorobenzene	*25.6*		µg/L	25.0		103	70-130			
LCS Dup (B212056-BSD1)				Prepared & Analyzed: 09/10/18						
Isopropylbenzene (Cumene)	21.9	1.0	µg/L	20.0		110	70-130	1.77	25	
Toluene	21.6	1.0	µg/L	20.0		108	70-130	1.07	25	
Surrogate: 1,2-Dichloroethane-d4	*24.3*		µg/L	25.0		97.2	70-130			
Surrogate: Toluene-d8	*24.4*		µg/L	25.0		97.7	70-130			
Surrogate: 4-Bromofluorobenzene	*25.4*		µg/L	25.0		102	70-130			

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B212088 - SW-846 5030B										
Blank (B212088-BLK1)				Prepared & Analyzed: 09/10/18						
Benzene	ND	1.0	µg/L							
Ethylbenzene	ND	2.0	µg/L							
1,2,4-Trimethylbenzene	ND	1.0	µg/L							
Xylenes (total)	ND	3.0	µg/L							
m+p Xylene	ND	2.0	µg/L							
o-Xylene	ND	2.0	µg/L							
Surrogate: 1,2-Dichloroethane-d4	*24.2*		µg/L	25.0		96.9	70-130			
Surrogate: Toluene-d8	*24.1*		µg/L	25.0		96.5	70-130			
Surrogate: 4-Bromofluorobenzene	*25.0*		µg/L	25.0		100	70-130			
LCS (B212088-BS1)				Prepared & Analyzed: 09/10/18						
Benzene	20.3	1.0	µg/L	20.0		102	65-135			
Ethylbenzene	21.3	2.0	µg/L	20.0		107	60-140			
1,2,4-Trimethylbenzene	21.1	1.0	µg/L	20.0		106	70-130			
m+p Xylene	43.0	2.0	µg/L	40.0		108	70-130			
o-Xylene	21.5	2.0	µg/L	20.0		107	70-130			
Surrogate: 1,2-Dichloroethane-d4	*24.3*		µg/L	25.0		97.2	70-130			
Surrogate: Toluene-d8	*24.4*		µg/L	25.0		97.7	70-130			
Surrogate: 4-Bromofluorobenzene	*25.4*		µg/L	25.0		102	70-130			

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B211955 - SW-846 3510C										
Blank (B211955-BLK1)				Prepared: 09/07/18 Analyzed: 09/10/18						
Acenaphthene (SIM)	ND	0.30	µg/L							
Acenaphthylene (SIM)	ND	0.20	µg/L							
Anthracene (SIM)	ND	0.20	µg/L							
Benzo(a)anthracene (SIM)	ND	0.050	µg/L							
Benzo(a)pyrene (SIM)	ND	0.10	µg/L							
Benzo(b)fluoranthene (SIM)	ND	0.050	µg/L							
Benzo(g,h,i)perylene (SIM)	ND	0.50	µg/L							
Chrysene (SIM)	ND	0.20	µg/L							
Dibenz(a,h)anthracene (SIM)	ND	0.10	µg/L							
Fluoranthene (SIM)	ND	0.50	µg/L							
Fluorene (SIM)	ND	1.0	µg/L							
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.10	µg/L							
Naphthalene (SIM)	ND	1.0	µg/L							
Phenanthrene (SIM)	ND	0.050	µg/L							
Pyrene (SIM)	ND	1.0	µg/L							
Surrogate: Nitrobenzene-d5	*69.7*		µg/L	100		69.7	30-130			
Surrogate: 2-Fluorobiphenyl	*77.0*		µg/L	100		77.0	30-130			
Surrogate: p-Terphenyl-d14	*83.5*		µg/L	100		83.5	30-130			
Blank (B211955-BLK2)				Prepared: 09/07/18 Analyzed: 09/10/18						
Benzo(k)fluoranthene (SIM)	ND	0.040	µg/L							
Surrogate: Nitrobenzene-d5	*68.6*		µg/L	100		68.6	30-130			
Surrogate: 2-Fluorobiphenyl	*57.1*		µg/L	100		57.1	30-130			
Surrogate: p-Terphenyl-d14	*72.6*		µg/L	100		72.6	30-130			
LCS (B211955-BS1)				Prepared: 09/07/18 Analyzed: 09/10/18						
Acenaphthene (SIM)	29.1	7.5	µg/L	50.0		58.2	40-140			
Acenaphthylene (SIM)	29.6	5.0	µg/L	50.0		59.2	40-140			
Anthracene (SIM)	31.4	5.0	µg/L	50.0		62.8	40-140			
Benzo(a)anthracene (SIM)	31.6	1.2	µg/L	50.0		63.2	40-140			
Benzo(a)pyrene (SIM)	32.8	2.5	µg/L	50.0		65.7	40-140			
Benzo(b)fluoranthene (SIM)	35.5	1.2	µg/L	50.0		71.0	40-140			
Benzo(g,h,i)perylene (SIM)	32.6	12	µg/L	50.0		65.1	40-140			
Benzo(k)fluoranthene (SIM)	32.6	5.0	µg/L	50.0		65.2	40-140			
Chrysene (SIM)	31.5	5.0	µg/L	50.0		63.0	40-140			
Dibenz(a,h)anthracene (SIM)	32.5	2.5	µg/L	50.0		65.0	40-140			
Fluoranthene (SIM)	30.8	12	µg/L	50.0		61.6	40-140			
Fluorene (SIM)	30.4	25	µg/L	50.0		60.8	40-140			
Indeno(1,2,3-cd)pyrene (SIM)	33.0	2.5	µg/L	50.0		66.0	40-140			
Naphthalene (SIM)	25.8	25	µg/L	50.0		51.6	40-140			
Phenanthrene (SIM)	30.2	1.2	µg/L	50.0		60.3	40-140			
Pyrene (SIM)	31.5	25	µg/L	50.0		63.0	40-140			
Surrogate: Nitrobenzene-d5	*51.3*		µg/L	100		51.3	30-130			
Surrogate: 2-Fluorobiphenyl	*50.4*		µg/L	100		50.4	30-130			
Surrogate: p-Terphenyl-d14	*46.4*		µg/L	100		46.4	30-130			

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B211955 - SW-846 3510C										
LCS Dup (B211955-BSD1)				Prepared: 09/07/18 Analyzed: 09/10/18						
Acenaphthene (SIM)	29.1	7.5	µg/L	50.0		58.2	40-140	0.172	20	
Acenaphthylene (SIM)	29.6	5.0	µg/L	50.0		59.1	40-140	0.169	20	
Anthracene (SIM)	31.4	5.0	µg/L	50.0		62.8	40-140	0.00	20	
Benzo(a)anthracene (SIM)	31.6	1.2	µg/L	50.0		63.3	40-140	0.237	20	
Benzo(a)pyrene (SIM)	32.8	2.5	µg/L	50.0		65.6	40-140	0.0761	20	
Benzo(b)fluoranthene (SIM)	34.3	1.2	µg/L	50.0		68.6	40-140	3.44	20	
Benzo(g,h,i)perylene (SIM)	32.3	12	µg/L	50.0		64.6	40-140	0.771	20	
Benzo(k)fluoranthene (SIM)	32.7	5.0	µg/L	50.0		65.4	40-140	0.307	20	
Chrysene (SIM)	31.4	5.0	µg/L	50.0		62.9	40-140	0.159	20	
Dibenz(a,h)anthracene (SIM)	32.7	2.5	µg/L	50.0		65.4	40-140	0.537	20	
Fluoranthene (SIM)	30.7	12	µg/L	50.0		61.4	40-140	0.325	20	
Fluorene (SIM)	30.4	25	µg/L	50.0		60.9	40-140	0.164	20	
Indeno(1,2,3-cd)pyrene (SIM)	33.2	2.5	µg/L	50.0		66.3	40-140	0.454	20	‡
Naphthalene (SIM)	26.0	25	µg/L	50.0		52.0	40-140	0.675	20	
Phenanthrene (SIM)	30.2	1.2	µg/L	50.0		60.5	40-140	0.331	20	
Pyrene (SIM)	31.0	25	µg/L	50.0		62.1	40-140	1.52	20	
Surrogate: Nitrobenzene-d5	*51.7*		µg/L	100		51.7	30-130			
Surrogate: 2-Fluorobiphenyl	*50.4*		µg/L	100		50.4	30-130			
Surrogate: p-Terphenyl-d14	*47.4*		µg/L	100		47.4	30-130			

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B212060 - SW-846 3510C										
Blank (B212060-BLK1)				Prepared & Analyzed: 09/10/18						
Endosulfan I	ND	0.010	µg/L							
Endosulfan I [2C]	ND	0.010	µg/L							
Heptachlor Epoxide	ND	0.010	µg/L							
Heptachlor Epoxide [2C]	ND	0.010	µg/L							
Surrogate: Decachlorobiphenyl	*0.255*		µg/L	0.400		63.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.264*		µg/L	0.400		66.0	30-150			
Surrogate: Tetrachloro-m-xylene	*0.182*		µg/L	0.400		45.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.180*		µg/L	0.400		45.0	30-150			
LCS (B212060-BS1)				Prepared & Analyzed: 09/10/18						
Endosulfan I	0.74	0.050	µg/L	1.00		74.2	45-153			
Endosulfan I [2C]	0.75	0.050	µg/L	1.00		74.8	45-153			
Heptachlor Epoxide	0.72	0.050	µg/L	1.00		72.1	37-142			
Heptachlor Epoxide [2C]	0.71	0.050	µg/L	1.00		71.4	37-142			
Surrogate: Decachlorobiphenyl	*1.67*		µg/L	2.00		83.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.71*		µg/L	2.00		85.5	30-150			
Surrogate: Tetrachloro-m-xylene	*1.21*		µg/L	2.00		60.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.20*		µg/L	2.00		59.8	30-150			
LCS Dup (B212060-BSD1)				Prepared & Analyzed: 09/10/18						
Endosulfan I	0.82	0.050	µg/L	1.00		81.8	45-153	9.75		
Endosulfan I [2C]	0.81	0.050	µg/L	1.00		81.3	45-153	8.34		
Heptachlor Epoxide	0.82	0.050	µg/L	1.00		81.7	37-142	12.5		
Heptachlor Epoxide [2C]	0.80	0.050	µg/L	1.00		80.2	37-142	11.7		
Surrogate: Decachlorobiphenyl	*1.71*		µg/L	2.00		85.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.74*		µg/L	2.00		86.9	30-150			
Surrogate: Tetrachloro-m-xylene	*1.40*		µg/L	2.00		70.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.38*		µg/L	2.00		69.1	30-150			

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B212059 - SW-846 3510C										
Blank (B212059-BLK1)				Prepared & Analyzed: 09/10/18						
Aroclor-1016	ND	0.040	µg/L							
Aroclor-1016 [2C]	ND	0.040	µg/L							
Aroclor-1221	ND	0.040	µg/L							
Aroclor-1221 [2C]	ND	0.040	µg/L							
Aroclor-1232	ND	0.040	µg/L							
Aroclor-1232 [2C]	ND	0.040	µg/L							
Aroclor-1242	ND	0.040	µg/L							
Aroclor-1242 [2C]	ND	0.040	µg/L							
Aroclor-1248	ND	0.040	µg/L							
Aroclor-1248 [2C]	ND	0.040	µg/L							
Aroclor-1254	ND	0.040	µg/L							
Aroclor-1254 [2C]	ND	0.040	µg/L							
Aroclor-1260	ND	0.040	µg/L							R-05
Aroclor-1260 [2C]	ND	0.040	µg/L							
Surrogate: Decachlorobiphenyl	*0.249*		µg/L	0.400		62.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.284*		µg/L	0.400		71.1	30-150			
Surrogate: Tetrachloro-m-xylene	*0.261*		µg/L	0.400		65.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.258*		µg/L	0.400		64.5	30-150			
LCS (B212059-BS1)				Prepared & Analyzed: 09/10/18						
Aroclor-1016	0.43	0.20	µg/L	0.500		85.6	50-140			
Aroclor-1016 [2C]	0.45	0.20	µg/L	0.500		90.9	50-140			
Aroclor-1260	0.44	0.20	µg/L	0.500		88.8	8-140			R-05
Aroclor-1260 [2C]	0.47	0.20	µg/L	0.500		93.0	8-140			
Surrogate: Decachlorobiphenyl	*1.63*		µg/L	2.00		81.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.90*		µg/L	2.00		95.0	30-150			
Surrogate: Tetrachloro-m-xylene	*1.55*		µg/L	2.00		77.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.60*		µg/L	2.00		80.0	30-150			
LCS Dup (B212059-BSD1)				Prepared & Analyzed: 09/10/18						
Aroclor-1016	0.37	0.20	µg/L	0.500		73.1	50-140	15.8		
Aroclor-1016 [2C]	0.39	0.20	µg/L	0.500		78.7	50-140	14.3		
Aroclor-1260	0.36	0.20	µg/L	0.500		71.8	8-140	21.2		R-05
Aroclor-1260 [2C]	0.38	0.20	µg/L	0.500		77.0	8-140	18.9		
Surrogate: Decachlorobiphenyl	*1.06*		µg/L	2.00		53.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.23*		µg/L	2.00		61.4	30-150			
Surrogate: Tetrachloro-m-xylene	*1.21*		µg/L	2.00		60.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.25*		µg/L	2.00		62.7	30-150			

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B212086 - EPA 200.7										
Blank (B212086-BLK1)				Prepared: 09/10/18 Analyzed: 09/11/18						
Chromium	ND	0.0070	mg/L							
Zinc	ND	0.010	mg/L							
LCS (B212086-BS1)				Prepared: 09/10/18 Analyzed: 09/11/18						
Chromium	0.535	0.0070	mg/L	0.500		107	85-115			
Zinc	1.06	0.010	mg/L	1.00		106	85-115			
LCS Dup (B212086-BSD1)				Prepared: 09/10/18 Analyzed: 09/11/18						
Chromium	0.541	0.0070	mg/L	0.500		108	85-115	1.08	20	
Zinc	1.07	0.010	mg/L	1.00		107	85-115	0.998	20	
Batch B212091 - EPA 200.8										
Blank (B212091-BLK1)				Prepared: 09/10/18 Analyzed: 09/12/18						
Lead	ND	0.50	µg/L							
LCS (B212091-BS1)				Prepared: 09/10/18 Analyzed: 09/12/18						
Lead	499	5.0	µg/L	500		99.7	85-115			
LCS Dup (B212091-BSD1)				Prepared: 09/10/18 Analyzed: 09/12/18						
Lead	511	5.0	µg/L	500		102	85-115	2.52	20	

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B212014 - SM21-22 4500 H B										
LCS (B212014-BS1)				Prepared & Analyzed: 09/07/18						
pH	5.99		pH Units	6.00		99.8	90-110			
LCS (B212014-BS2)				Prepared & Analyzed: 09/07/18						
pH	6.00		pH Units	6.00		99.9	90-110			

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

BREAKDOWN REPORT

Lab Sample ID: **S027142-PEM1** **Analyzed:** **09/10/2018**

Column Number: **1**

Analyte	% Breakdown
4,4'-DDT [1]	2.83
Endrin [1]	2.41

Column Number: **2**

Analyte	% Breakdown
4,4'-DDT [2]	3.41
Endrin [2]	2.99

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

EPA 608.3

LCS

Lab Sample ID: B212059-BS1 Date(s) Analyzed 09/10/2018 09/10/2018

Instrument ID (1): ECD 9 Instrument ID (2): ECD 9

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.43	
	2	0.000	0.000	0.000	0.45	4.6
Aroclor-1260	1	0.000	0.000	0.000	0.44	
	2	0.000	0.000	0.000	0.47	6.6

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

EPA 608.3

LCS Dup

Lab Sample ID: B212059-BSD1 Date(s) Analyzed 09/10/2018 09/10/2018

Instrument ID (1): ECD 9 Instrument ID (2): ECD 9

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.37	
	2	0.000	0.000	0.000	0.39	5.3
Aroclor-1260	1	0.000	0.000	0.000	0.36	
	2	0.000	0.000	0.000	0.38	5.4

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

EPA 608.3

LCS

Lab Sample ID: B212060-BS1 Date(s) Analyzed 09/10/2018 09/10/2018

Instrument ID (1): ECD2 Instrument ID (2): ECD2

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Endosulfan I	1	6.950	0.000	0.000	0.74	
	2	6.675	0.000	0.000	0.75	1.3
Heptachlor Epoxide	1	6.664	0.000	0.000	0.72	
	2	6.403	0.000	0.000	0.71	1.4

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

EPA 608.3

LCS Dup

Lab Sample ID: B212060-BSD1 Date(s) Analyzed 09/10/2018 09/10/2018

Instrument ID (1): ECD2 Instrument ID (2): ECD2

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Endosulfan I	1	6.950	0.000	0.000	0.82	
	2	6.674	0.000	0.000	0.81	1.2
Heptachlor Epoxide	1	6.664	0.000	0.000	0.82	
	2	6.403	0.000	0.000	0.80	2.5

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
H-05	Holding time was exceeded. pH analysis should be performed immediately at time of sampling. Nominal 15 minute holding time was exceeded.
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).
R-05	Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
EPA 200.7 in Water	
Chromium	CT,MA,NH,NY,RI,NC,ME,VA
Zinc	CT,MA,NH,NY,RI,NC,ME,VA
EPA 200.8 in Water	
Lead	CT,MA,NH,NY,RI,NC,ME,VA
EPA 608.3 in Water	
Aroclor-1016	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1016 [2C]	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1221	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1221 [2C]	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1232	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1232 [2C]	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1242	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1242 [2C]	CT,MA,NH,NY,RI,NC,ME,VA
Endosulfan I	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1248	CT,MA,NH,NY,RI,NC,ME,VA
Endosulfan I [2C]	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1248 [2C]	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1254	CT,MA,NH,NY,RI,NC,ME,VA
Heptachlor Epoxide	CT,MA,NH,NY,RI,NC,ME,VA
Heptachlor Epoxide [2C]	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1254 [2C]	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1260	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1260 [2C]	CT,MA,NH,NY,RI,NC,ME,VA
EPA 624.1 in Water	
Benzene	CT,NY,RI,NC,MA,NH
Ethylbenzene	CT,NY,RI,NC,MA,NH
Toluene	CT,NY,RI,NC,MA,NH
1,2,4-Trimethylbenzene	MA
Xylenes (total)	NY,MA,NH
m+p Xylene	CT,NY,RI,NC,MA,NH
o-Xylene	CT,NY,RI,NC,MA,NH
SM21-22 4500 H B in Water	
pH	CT,MA,RI
SW-846 8260C in Water	
Benzene	CT,ME,NH,VA,NY
Ethylbenzene	CT,ME,NH,VA,NY
Isopropylbenzene (Cumene)	ME,VA,NY
Toluene	CT,ME,NH,VA,NY
1,2,4-Trimethylbenzene	ME,VA,NY
m+p Xylene	CT,ME,NH,VA,NY
o-Xylene	CT,ME,NH,VA,NY
Xylenes (total)	NY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	03/1/2020
MA	Massachusetts DEP	M-MA100	06/30/2019
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2019
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2019
RI	Rhode Island Department of Health	LAO00112	12/30/2018
NC	North Carolina Div. of Water Quality	652	12/31/2018
NJ	New Jersey DEP	MA007 NELAP	06/30/2019
FL	Florida Department of Health	E871027 NELAP	06/30/2019
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2019
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2018
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2019
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2019
NC-DW	North Carolina Department of Health	25703	07/31/2019

ALB

18I0930

con-test ANALYTICAL LABORATORY

http://www.contestlabs.com Doc # 380 Rev 1_03242017

Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com

CHAIN OF CUSTODY RECORD (New York)

39 Spruce Street
East Longmeadow, MA 01028

Page _____ of _____

Company Name:	LAND remediation
Address:	74 Hudson River Road Waterford, NY
Phone:	
Project Name:	NYSDEC Saranac Lake Gas Co.
Project Location:	Saranac Lake Construction Water
Project Number:	
Project Manager:	Matthew Warren
Con-Test Quote Name/Number:	
Invoice Recipient:	mjw@land-remediation.com
Sampled By:	Vaughn Nelson, Kyle Jones

Requested Turnaround Time
7-Day ☐ 10-Day ☐
Due Date:

Rush-Approval Required
1-Day ☑ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
CLP Like Data Pkg Required: ☐
Email To: mjw@land-remediation.com
Fax To #:

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	BOD-5	TDS	TSS	Oil & Grease 1664	8270 SVOC - PAH SIM	VOC 624.1 - (See Below)	VOC 8260 - Isopropyl Benzene & Toluene Only	608 PCB - 608 Pest - Endosulfan I, Heptachlor Epoxide	Metals- Pb, Zn, Cr.	pH
01	OU2-WWTP-Eff-07	9/7/2018 7:21	9/7/2018 7:25	X		WW	L	x	x	x	x	x		x	x	x	x
02	OU2-WWTP-Eff-07	9/7/2018 7:25	9/8/2018 7:28		x	WW	L						x				

ANALYSIS REQUESTED

# of Containers	
[2] Preservation Code	
[3] Container Code	

Dissolved Metals Samples
☐ Field Filtered
☐ Lab to Filter

Orthophosphate Samples
☐ Field Filtered
☐ Lab to Filter

Comments: VOC 624.1 - Benzene, Ethyl Benzene, Xylenes Total, and 124 TMB

48 Hour TAT TDS/TSS ; 5 day TAT BOD and Oil & Grease

Please use the following codes to indicate possible sample concentration within the **Conc Code** column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

	Date/Time:
Relinquished by: (signature)	9/7 8:45
Received by: (signature)	9-7-18 8:45
Relinquished by: (signature)	9-7-18 12:30
Received by: (signature)	9/7/18 1230
Relinquished by: (signature)	9/7/18 1445
Received by: (signature)	9/7/18 1445

2.1°C

Program & Regulatory Information
☐ AWQ STDS ☐ NY TOGS
☐ NYC Sewer Discharge ☐ NY CP-51
☐ Part 360 GW (Landfill)
☐ NY Restricted Use
☐ NY Unrestricted Use
☐ NY Part 375
Other:

Deliverables
☐ Enhanced Data Package
☐ NYSDEC EQuIS EDD
☐ EQuIS (Standard) EDD
☐ NY Regulatory EDD
☐ NY Regs Hits-Only EDD
Other:

NELAC and AIHA-LAP, LLC Accredited

Project Entity
☑ Government ☐ Municipality ☐ MWRA ☐ WRTA
☐ Federal ☐ 21 J ☐ School
☐ City ☐ Brownfield ☐ MBTA

Other
☐ Chromatogram
☐ *AIHA-LAP,LLC*

PCB ONLY
☐ Soxhlet
☐ Non Soxhlet

[1] Matrix Codes:
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define)

[2] Preservation Codes:
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

[3] Container Codes:
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Table of Contents

I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples_____

con-test® ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client Land Remediation

Received By RLF Date 9/7/18 Time 1445

How were the samples received? In Cooler T No Cooler _____ On Ice T No Ice _____

Direct from Sampling _____ Ambient _____ Melted Ice _____

By Gun # 577 Actual Temp - 2.1 C

Were samples within Temperature? 2-6°C T By Blank # _____ Actual Temp - _____

Was Custody Seal Intact? NA Were Samples Tampered with? NA

Was COC Relinquished ? T Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? T Were samples received within holding time? T

Did COC include all pertinent Information? Client T Analysis T Sampler Name T

Project T ID's T Collection Dates/Times T

Are Sample labels filled out and legible? T

Are there Lab to Filters? F Who was notified? _____

Are there Rushes? T Who was notified? Cate, Luke

Are there Short Holds? T Who was notified? Luke

Is there enough Volume? T

Is there Headspace where applicable? F MS/MSD? F

Proper Media/Containers Used? T Is splitting samples required? F

Were trip blanks received? F On COC? F

Do all samples have the proper pH? Acid T pH<2 Base NA

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.	10	1 Liter Plastic		16 oz Amb.	
HCL-	3	500 mL Amb.		500 mL Plastic	1	8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic	1	4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Comments:

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

September 13, 2018

Matthew Warren
Land Remediation
74 Hudson River Road
Waterford, NY 12188

Project Location: Saranac Lake Construction Water
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 18I0253

Enclosed are results of analyses for samples received by the laboratory on September 7, 2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Aaron L. Benoit
Project Manager

Table of Contents

Sample Summary 3

Case Narrative 4

Sample Results 5

18I0253-01 5

Sample Preparation Information 6

QC Data 7

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) 7

B212015 7

B212175 7

Flag/Qualifier Summary 8

Certifications 9

Chain of Custody/Sample Receipt 10

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Land Remediation
74 Hudson River Road
Waterford, NY 12188
ATTN: Matthew Warren

REPORT DATE: 9/13/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18I0253

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Saranac Lake Construction Water

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
OU2-WWTP-Eff-07	18I0253-01	Waste Water		EPA 1664B SM 21-22 5210B	

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Lisa A. Worthington
Project Manager

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake Construction Water Sample Description: Work Order: 18I0253

Date Received: 9/7/2018

Field Sample #: OU2-WWTP-Eff-07

Sample ID: 18I0253-01 Start Date/Time: 9/7/2018 7:21:00AM

Sample Matrix: Waste Water Stop Date/Time: 9/7/2018 7:25:00AM

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Biochemical Oxygen Demand	ND	4.0	mg/L	1		SM 21-22 5210B	9/7/18	9/7/18 17:22	LED
Oil & Grease (HEM)	ND	1.4	mg/L	1		EPA 1664B	9/11/18	9/11/18 12:45	LL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

EPA 1664B

Lab Number [Field ID]	Batch	Initial [mL]	Date
18I0253-01 [OU2-WWTP-Eff-07]	B212175	1000	09/11/18

SM 21-22 5210B

Lab Number [Field ID]	Batch	Initial [mL]	Date
18I0253-01 [OU2-WWTP-Eff-07]	B212015	150	09/07/18

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B212015 - SM 21-22 5210B										
Blank (B212015-BLK1)				Prepared & Analyzed: 09/07/18						
Biochemical Oxygen Demand	ND	2.0	mg/L							
LCS (B212015-BS1)				Prepared & Analyzed: 09/07/18						
Biochemical Oxygen Demand	200	2.0	mg/L	198		103	85-115			
Batch B212175 - EPA 1664B										
Blank (B212175-BLK1)				Prepared & Analyzed: 09/11/18						
Oil & Grease (HEM)	ND	1.4	mg/L							
Blank (B212175-BLK2)				Prepared & Analyzed: 09/11/18						
Oil & Grease (HEM)	ND	7.0	mg/L							
LCS (B212175-BS1)				Prepared & Analyzed: 09/11/18						
Oil & Grease (HEM)	18		mg/L	20.0		88.0	78-114			
LCS (B212175-BS2)				Prepared & Analyzed: 09/11/18						
Oil & Grease (HEM)	91		mg/L	100		91.0	78-114			

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level

Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.

No results have been blank subtracted unless specified in the case narrative section.

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
EPA 1664B in Water	
Oil & Grease (HEM)	CT,MA,NH,NY,RI,NC,ME,VA
SM 21-22 5210B in Water	
Biochemical Oxygen Demand	CT,MA,NH,NY,RI,ME,VA,NC

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	03/1/2020
MA	Massachusetts DEP	M-MA100	06/30/2019
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2019
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2019
RI	Rhode Island Department of Health	LAO00112	12/30/2018
NC	North Carolina Div. of Water Quality	652	12/31/2018
NJ	New Jersey DEP	MA007 NELAP	06/30/2019
FL	Florida Department of Health	E871027 NELAP	06/30/2019
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2019
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2018
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2019
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2019
NC-DW	North Carolina Department of Health	25703	07/31/2019

AL3 1810253

con-test® ANALYTICAL LABORATORY

http://www.contestlabs.com Doc # 380 Rev 1_03242017

Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com

CHAIN OF CUSTODY RECORD (New York)

39 Spruce Street
East Longmeadow, MA 01028

Page ____ of ____

Company Name:	LAND remediation
Address:	74 Hudson River Road Waterford, NY
Phone:	
Project Name:	NYSDEC Saranac Lake Gas Co.
Project Location:	Saranac Lake Construction Water
Project Number:	
Project Manager:	Matthew Warren
Con-Test Quote Name/Number:	
Invoice Recipient:	mjw@land-remediation.com
Sampled By:	Vaughn Nelson, Kyle Jones

Requested Turnaround Time
7-Day ☐ 10-Day ☐
Due Date:

Rush-Approval Required
1-Day ☑ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
CLP Like Data Pkg Required: ☐
Email To: mjw@land-remediation.com
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code	BOD-5	TDS	TSS	Oil & Grease 1664	8270 SVOC - PAH SIM	VOC 624.1 - (See Below)	VOC 8260 - Isopropyl Benzene & Toluene Only	608 PCB - 608 Pest - Endosulfan I, Heptachlor Epoxide	Metals- Pb, Zn, Cr.	pH	# of Containers
01	OU2-WWTP-Eff-07	9/7/2018 7:21	9/7/2018 7:25	X		WW	L	x	x	x	x	x		x	x	x	x	
	OU2-WWTP-Eff-07	9/7/2018 7:25	9/8/2018 7:28		x	WW	L						x					

[2] Preservation Code
[3] Container Code

Dissolved Metals Samples
☐ Field Filtered
☐ Lab to Filter

Orthophosphate Samples
☐ Field Filtered
☐ Lab to Filter

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define)

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

[3] **Container Codes:**
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Comments: VOC 624.1 - Benzene, Ethyl Benzene, Xylenes Total, and 124 TMB

48 Hour TAT TDS/TSS ; 5 day TAT BOD and Oil & Grease

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

	Date/Time:
Relinquished by: (signature)	9/7 8:45
Received by: (signature)	9-7-18 8:45
Relinquished by: (signature)	9-7-18 12:30
Received by: (signature)	9/7/18 1230
Relinquished by: (signature)	9/7/18 1445
Received by: (signature) 2.1°C	9/7/18 1445

Program & Regulatory Information
☐ AWQ STDS ☐ NY TOGS
☐ NYC Sewer Discharge ☐ NY CP-51
☐ Part 360 GW (Landfill)
☐ NY Restricted Use
☐ NY Unrestricted Use
☐ NY Part 375
Other:

Deliverables
☐ Enhanced Data Package
☐ NYSDEC EQuIS EDD
☐ EQuIS (Standard) EDD
☐ NY Regulatory EDD
☐ NY Regs Hits-Only EDD
Other:
NELAC and AIHA-LAP, LLC Accredited

Project Entity
☑ Government ☐ Municipality ☐ MWRA ☐ WRTA
☐ Federal ☐ 21 J ☐ School
☐ City ☐ Brownfield ☐ MBTA

Other
☐ Chromatogram
☐ *AIHA-LAP,LLC*

PCB ONLY
☐ Soxhlet
☐ Non Soxhlet

Table of Contents

I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples_____

con-test® ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client Land Remediation

Received By RLF Date 9/7/18 Time 1445

How were the samples received? In Cooler T No Cooler _____ On Ice T No Ice _____

Direct from Sampling _____ Ambient _____ Melted Ice _____

By Gun # 577 Actual Temp - 2.1°C

Were samples within Temperature? 2-6°C T By Blank # _____ Actual Temp - _____

Was Custody Seal Intact? NA Were Samples Tampered with? NA

Was COC Relinquished ? T Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? T Were samples received within holding time? T

Did COC include all pertinent Information? Client T Analysis T Sampler Name T

Project T ID's T Collection Dates/Times T

Are Sample labels filled out and legible? T

Are there Lab to Filters? F Who was notified? _____

Are there Rushes? F Who was notified? _____

Are there Short Holds? T Who was notified? Luke

Is there enough Volume? T

Is there Headspace where applicable? NA MS/MSD? F

Proper Media/Containers Used? T Is splitting samples required? F

Were trip blanks received? F On COC? F

Do all samples have the proper pH? Acid NA Base NA

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.	2	1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic	1	8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Comments:

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

September 11, 2018

Matthew Warren
Land Remediation
74 Hudson River Road
Waterford, NY 12188

Project Location: Saranac Lake Construction Water
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 18I0252

Enclosed are results of analyses for samples received by the laboratory on September 7, 2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Aaron L. Benoit
Project Manager

Table of Contents

Sample Summary 3

Case Narrative 4

Sample Results 5

18I0252-01 5

Sample Preparation Information 7

QC Data 8

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) 8

B212069 8

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Dissolved) 9

B212120 9

Flag/Qualifier Summary 10

Certifications 11

Chain of Custody/Sample Receipt 12

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Land Remediation
74 Hudson River Road
Waterford, NY 12188
ATTN: Matthew Warren

REPORT DATE: 9/11/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18I0252

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Saranac Lake Construction Water

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
OU2-WWTP-Eff-07	18I0252-01	Waste Water		SM21-22 2540C SM21-22 2540D	

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

SM21-22 2540C

Qualifications:

R-02

Duplicate RPD is outside of control limits. Outlier can be attributed to sample non-homogeneity encountered during sample prep.

Analyte & Samples(s) Qualified:

Total Dissolved Solids

18I0252-01[OU2-WWTP-Eff-07], B212120-DUP1

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Lisa A. Worthington
Project Manager

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake Construction Water Sample Description: Work Order: 18I0252

Date Received: 9/7/2018

Field Sample #: OU2-WWTP-Eff-07

Sample ID: 18I0252-01 Start Date/Time: 9/7/2018 7:21:00AM

Sample Matrix: Waste Water Stop Date/Time: 9/7/2018 7:25:00AM

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Suspended Solids	3.6	2.0	mg/L	1		SM21-22 2540D	9/10/18	9/10/18 8:45	LL

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake Construction Water | Sample Description: | Work Order: 18I0252

Date Received: 9/7/2018

Field Sample #: OU2-WWTP-Eff-07

Sample ID: 18I0252-01 | Start Date/Time: 9/7/2018 7:21:00AM

Sample Matrix: Waste Water | Stop Date/Time: 9/7/2018 7:25:00AM

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Dissolved)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Dissolved Solids	150	10	mg/L	1	R-02	SM21-22 2540C	9/10/18	9/10/18 12:30	LL

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

SM21-22 2540C

Lab Number [Field ID]	Batch	Initial [mL]	Date
18I0252-01 [OU2-WWTP-Eff-07]	B212120	50.0	09/10/18

SM21-22 2540D

Lab Number [Field ID]	Batch	Initial [mL]	Date
18I0252-01 [OU2-WWTP-Eff-07]	B212069	250	09/10/18

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B212069 - SM21-22 2540D										
Blank (B212069-BLK1)				Prepared & Analyzed: 09/10/18						
Total Suspended Solids	ND	2.5	mg/L							
LCS (B212069-BS1)				Prepared & Analyzed: 09/10/18						
Total Suspended Solids	176	10	mg/L	200		88.0	64.3-117			

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Dissolved) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD		RPD Limit	Notes
Batch B212120 - SM21-22 2540C											
Blank (B212120-BLK1)				Prepared & Analyzed: 09/10/18							
Total Dissolved Solids	ND	10	mg/L								
LCS (B212120-BS1)				Prepared & Analyzed: 09/10/18							
Total Dissolved Solids	280	10	mg/L	293		96.2	61.4-114				
Duplicate (B212120-DUP1)	**Source: 18I0252-01**			Prepared & Analyzed: 09/10/18							
Total Dissolved Solids	160	10	mg/L		150			**5.06**	*	5	R-02

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
R-02	Duplicate RPD is outside of control limits. Outlier can be attributed to sample non-homogeneity encountered during sample prep.

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SM21-22 2540C in Water	
Total Dissolved Solids	CT,MA,NH,NY,RI,NC,ME,VA
SM21-22 2540D in Water	
Total Suspended Solids	CT,MA,NH,NY,RI,NC,ME,VA

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	03/1/2020
MA	Massachusetts DEP	M-MA100	06/30/2019
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2019
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2019
RI	Rhode Island Department of Health	LAO00112	12/30/2018
NC	North Carolina Div. of Water Quality	652	12/31/2018
NJ	New Jersey DEP	MA007 NELAP	06/30/2019
FL	Florida Department of Health	E871027 NELAP	06/30/2019
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2019
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2018
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2019
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2019
NC-DW	North Carolina Department of Health	25703	07/31/2019

AUB

18I0252

con-test® ANALYTICAL LABORATORY

Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com

http://www.contestlabs.com Doc # 380 Rev 1_03242017

CHAIN OF CUSTODY RECORD (New York)

39 Spruce Street
East Longmeadow, MA 01028

Page _____ of _____

Company Name:	LAND remediation
Address:	74 Hudson River Road Waterford, NY
Phone:	
Project Name:	NYSDEC Saranac Lake Gas Co.
Project Location:	Saranac Lake Construction Water
Project Number:	
Project Manager:	Matthew Warren
Con-Test Quote Name/Number:	
Invoice Recipient:	mjw@land-remediation.com
Sampled By:	Vaughn Nelson, Kyle Jones

Requested Turnaround Time
7-Day ☐ 10-Day ☐
Due Date:

Rush-Approval Required
1-Day ☑ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
CLP Like Data Pkg Required: ☐
Email To: mjw@land-remediation.com
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1] Matrix Code	Conc Code	BOD-5	TDS	TSS	Oil & Grease 1664	8270 SVOC - PAH SIM	VOC 624.1 - (See Below)	VOC 8260 - Isopropyl Benzene & Toluene Only	608 PCB - 608 Pest - Endosulfan I, Heptachlor Epoxide	Metals- Pb, Zn, Cr.	pH
01	OU2-WWTP-Eff-07	9/7/2018 7:21	9/7/2018 7:25	X		WW	L	x	x	x	x	x		x	x	x	x
	OU2-WWTP-Eff-07	9/7/2018 7:25	9/8/2018 7:28		x	WW	L						x				

Comments: VOC 624.1 - Benzene, Ethyl Benzene, Xylenes Total, and 124 TMB

48 Hour TAT TDS/TSS ; 5 day TAT BOD and Oil & Grease

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time:	9/7 8:45
Received by: (signature)	Date/Time:	9-7-18 8:45
Relinquished by: (signature)	Date/Time:	9-7-18 12:30
Received by: (signature)	Date/Time:	9/7/18 1230
Relinquished by: (signature)	Date/Time:	9/7/18 2:48
Received by: (signature)	Date/Time:	9/7/18 1445

2.1°C

Program & Regulatory Information
☐ AWQ STDS ☐ NY TOGS
☐ NYC Sewer Discharge ☐ NY CP-51
☐ Part 360 GW (Landfill)
☐ NY Restricted Use
☐ NY Unrestricted Use
☐ NY Part 375
Other:

Deliverables
☐ Enhanced Data Package
☐ NYSDEC EQuIS EDD
☐ EQuIS (Standard) EDD
☐ NY Regulatory EDD
☐ NY Regs Hits-Only EDD
Other:
NELAC and AIHA-LAP, LLC Accredited

Project Entity
☑ Government ☐ Municipality ☐ MWRA ☐ WRTA
☐ Federal ☐ 21 J ☐ School
☐ City ☐ Brownfield ☐ MBTA

Other
☐ Chromatogram
☐ *AIHA-LAP,LLC*

PCB ONLY
☐ Soxhlet
☐ Non Soxhlet

Dissolved Metals Samples
☐ Field Filtered
☐ Lab to Filter

Orthophosphate Samples
☐ Field Filtered
☐ Lab to Filter

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define)

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

[3] **Container Codes:**
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Table of Contents

I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples_____

con-test® ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client Land Remediation

Received By RLF Date 9/7/18 Time 1445

How were the samples received? In Cooler T No Cooler _____ On Ice T No Ice _____ Direct from Sampling _____ Ambient _____ Melted Ice _____

Were samples within Temperature? 2-6°C T By Gun # 577 Actual Temp - 2.1°C By Blank # _____ Actual Temp - _____

Was Custody Seal Intact? NA Were Samples Tampered with? NA

Was COC Relinquished ? T Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? T Were samples received within holding time? T

Did COC include all pertinent Information? Client T Project T Analysis T ID's T Sampler Name T Collection Dates/Times T

Are Sample labels filled out and legible? T

Are there Lab to Filters? F Who was notified? _____

Are there Rushes? T Who was notified? Luke

Are there Short Holds? F Who was notified? _____

Is there enough Volume? T

Is there Headspace where applicable? NA MS/MSD? F

Proper Media/Containers Used? T Is splitting samples required? F

Were trip blanks received? F On COC? F

Do all samples have the proper pH? Acid NA Base NA

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic	1	8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Comments:

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

September 12, 2018

Keith Decker
Land Remediation
74 Hudson River Road
Waterford, NY 12188

Project Location: Saranac Lake
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 18I0357

Enclosed are results of analyses for samples received by the laboratory on September 11, 2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Aaron L. Benoit
Project Manager

Table of Contents

Sample Summary 3

Case Narrative 4

Sample Results 5

18I0357-01 5

18I0357-02 11

Sample Preparation Information 12

QC Data 13

Volatile Organic Compounds by GC/MS 13

B212264 13

Volatile Organic Compounds by GC/MS 14

B212263 14

Semivolatile Organic Compounds by GC/MS 15

B212268 15

Organochloride Pesticides by GC/ECD 17

B212202 17

Polychlorinated Biphenyls By GC/ECD 18

B212201 18

Metals Analyses (Total) 19

B212230 19

B212231 19

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) 20

B212235 20

Flag/Qualifier Summary 21

Certifications 22

Chain of Custody/Sample Receipt 24

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Land Remediation
74 Hudson River Road
Waterford, NY 12188
ATTN: Keith Decker

REPORT DATE: 9/12/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18I0357

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Saranac Lake

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
OU2-WWTP-Eff-08	18I0357-01	Waste Water		EPA 200.7	
				EPA 200.8	
				EPA 608.3	
				SM21-22 4500 H B	
				SW-846 8260C	
				SW-846 8270D	
OU2-WWTP-Eff-08	18I0357-02	Waste Water		EPA 624.1	

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

For method 8270, only PAHs were requested and reported.

SM21-22 4500 H B

Qualifications:

H-05

Holding time was exceeded. pH analysis should be performed immediately at time of sampling. Nominal 15 minute holding time was exceeded.

Analyte & Samples(s) Qualified:

pH

18I0357-01[OU2-WWTP-Eff-08]

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Lisa A. Worthington
Project Manager

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake | Sample Description: | Work Order: 18I0357

Date Received: 9/11/2018

Field Sample #: OU2-WWTP-Eff-08

Sample ID: 18I0357-01 | Start Date/Time: 9/11/2018 6:49:00AM

Sample Matrix: Waste Water | Stop Date/Time: 9/11/2018 6:53:00AM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Isopropylbenzene (Cumene)	ND	1.0	0.12	µg/L	1		SW-846 8260C	9/12/18	9/12/18 10:03	LBD
Toluene	ND	1.0	0.17	µg/L	1		SW-846 8260C	9/12/18	9/12/18 10:03	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	99.2	70-130		9/12/18 10:03
Toluene-d8	99.0	70-130		9/12/18 10:03
4-Bromofluorobenzene	101	70-130		9/12/18 10:03

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake | Sample Description: | Work Order: 18I0357

Date Received: 9/11/2018

Field Sample #: OU2-WWTP-Eff-08

Sample ID: 18I0357-01 | Start Date/Time: 9/11/2018 6:49:00AM

Sample Matrix: Waste Water | Stop Date/Time: 9/11/2018 6:53:00AM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene (SIM)	ND	0.30	0.060	µg/L	1		SW-846 8270D	9/11/18	9/12/18 14:50	IMR
Acenaphthylene (SIM)	ND	0.20	0.050	µg/L	1		SW-846 8270D	9/11/18	9/12/18 14:50	IMR
Anthracene (SIM)	ND	0.20	0.040	µg/L	1		SW-846 8270D	9/11/18	9/12/18 14:50	IMR
Benzo(a)anthracene (SIM)	ND	0.050	0.050	µg/L	1		SW-846 8270D	9/11/18	9/12/18 14:50	IMR
Benzo(a)pyrene (SIM)	ND	0.10	0.040	µg/L	1		SW-846 8270D	9/11/18	9/12/18 14:50	IMR
Benzo(b)fluoranthene (SIM)	ND	0.050	0.020	µg/L	1		SW-846 8270D	9/11/18	9/12/18 14:50	IMR
Benzo(g,h,i)perylene (SIM)	ND	0.50	0.070	µg/L	1		SW-846 8270D	9/11/18	9/12/18 14:50	IMR
Benzo(k)fluoranthene (SIM)	ND	0.040	0.020	µg/L	1		SW-846 8270D	9/11/18	9/12/18 15:48	IMR
Chrysene (SIM)	ND	0.20	0.030	µg/L	1		SW-846 8270D	9/11/18	9/12/18 14:50	IMR
Dibenz(a,h)anthracene (SIM)	ND	0.10	0.040	µg/L	1		SW-846 8270D	9/11/18	9/12/18 14:50	IMR
Fluoranthene (SIM)	ND	0.50	0.030	µg/L	1		SW-846 8270D	9/11/18	9/12/18 14:50	IMR
Fluorene (SIM)	ND	1.0	0.040	µg/L	1		SW-846 8270D	9/11/18	9/12/18 14:50	IMR
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.10	0.080	µg/L	1		SW-846 8270D	9/11/18	9/12/18 14:50	IMR
Naphthalene (SIM)	ND	1.0	0.070	µg/L	1		SW-846 8270D	9/11/18	9/12/18 14:50	IMR
Phenanthrene (SIM)	ND	0.050	0.040	µg/L	1		SW-846 8270D	9/11/18	9/12/18 14:50	IMR
Pyrene (SIM)	ND	1.0	0.030	µg/L	1		SW-846 8270D	9/11/18	9/12/18 14:50	IMR

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	78.1	30-130		9/12/18 14:50
Nitrobenzene-d5	55.3	30-130		9/12/18 15:48
2-Fluorobiphenyl	81.9	30-130		9/12/18 14:50
2-Fluorobiphenyl	47.5	30-130		9/12/18 15:48
p-Terphenyl-d14	52.2	30-130		9/12/18 15:48
p-Terphenyl-d14	63.6	30-130		9/12/18 14:50

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake | Sample Description: | Work Order: 18I0357

Date Received: 9/11/2018

Field Sample #: OU2-WWTP-Eff-08

Sample ID: 18I0357-01 | Start Date/Time: 9/11/2018 6:49:00AM

Sample Matrix: Waste Water | Stop Date/Time: 9/11/2018 6:53:00AM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Endosulfan I [1]	ND	0.010	0.00042	µg/L	1		EPA 608.3	9/11/18	9/12/18 11:48	TG
Heptachlor epoxide [1]	ND	0.010	0.00080	µg/L	1		EPA 608.3	9/11/18	9/12/18 11:48	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	74.3	30-150		9/12/18 11:48
Decachlorobiphenyl [2]	77.1	30-150		9/12/18 11:48
Tetrachloro-m-xylene [1]	54.6	30-150		9/12/18 11:48
Tetrachloro-m-xylene [2]	53.4	30-150		9/12/18 11:48

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake | Sample Description: | Work Order: 18I0357

Date Received: 9/11/2018

Field Sample #: OU2-WWTP-Eff-08

Sample ID: 18I0357-01 | Start Date/Time: 9/11/2018 6:49:00AM

Sample Matrix: Waste Water | Stop Date/Time: 9/11/2018 6:53:00AM

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.040	0.037	µg/L	1		EPA 608.3	9/11/18	9/12/18 10:54	KAL
Aroclor-1221 [1]	ND	0.040	0.032	µg/L	1		EPA 608.3	9/11/18	9/12/18 10:54	KAL
Aroclor-1232 [1]	ND	0.040	0.040	µg/L	1		EPA 608.3	9/11/18	9/12/18 10:54	KAL
Aroclor-1242 [1]	ND	0.040	0.035	µg/L	1		EPA 608.3	9/11/18	9/12/18 10:54	KAL
Aroclor-1248 [1]	ND	0.040	0.038	µg/L	1		EPA 608.3	9/11/18	9/12/18 10:54	KAL
Aroclor-1254 [1]	ND	0.040	0.021	µg/L	1		EPA 608.3	9/11/18	9/12/18 10:54	KAL
Aroclor-1260 [1]	ND	0.040	0.039	µg/L	1		EPA 608.3	9/11/18	9/12/18 10:54	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	75.2	30-150		9/12/18 10:54
Decachlorobiphenyl [2]	75.6	30-150		9/12/18 10:54
Tetrachloro-m-xylene [1]	73.0	30-150		9/12/18 10:54
Tetrachloro-m-xylene [2]	72.7	30-150		9/12/18 10:54

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake | Sample Description: | Work Order: 18I0357

Date Received: 9/11/2018

Field Sample #: OU2-WWTP-Eff-08

Sample ID: 18I0357-01 | Start Date/Time: 9/11/2018 6:49:00AM

Sample Matrix: Waste Water | Stop Date/Time: 9/11/2018 6:53:00AM

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Chromium	ND	0.0070	0.0061	mg/L	1		EPA 200.7	9/11/18	9/12/18 12:42	QNW
Lead	0.15	0.50	0.14	µg/L	1	J	EPA 200.8	9/11/18	9/12/18 15:40	WSD
Zinc	ND	0.010	0.0052	mg/L	1		EPA 200.7	9/11/18	9/12/18 12:42	QNW

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake | Sample Description: | Work Order: 18I0357

Date Received: 9/11/2018

Field Sample #: OU2-WWTP-Eff-08

Sample ID: 18I0357-01 | Start Date/Time: 9/11/2018 6:49:00AM

Sample Matrix: Waste Water | Stop Date/Time: 9/11/2018 6:53:00AM

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
pH @17.7°C	8.9		pH Units	1	H-05	SM21-22 4500 H B	9/11/18	9/11/18 19:34	LED

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake | Sample Description: | Work Order: 18I0357

Date Received: 9/11/2018

Field Sample #: OU2-WWTP-Eff-08

Sample ID: 18I0357-02 | Start Date/Time: 9/11/2018 6:54:00AM

Sample Matrix: Waste Water | Stop Date/Time: 9/11/2018 6:55:00AM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	1.0	0.34	µg/L	1		EPA 624.1	9/12/18	9/12/18 10:03	LBD
Ethylbenzene	ND	2.0	0.37	µg/L	1		EPA 624.1	9/12/18	9/12/18 10:03	LBD
1,2,4-Trimethylbenzene	ND	1.0	0.34	µg/L	1		EPA 624.1	9/12/18	9/12/18 10:03	LBD
Xylenes (total)	ND	3.0		µg/L	1		EPA 624.1	9/12/18	9/12/18 10:03	LBD
m+p Xylene	ND	2.0	0.65	µg/L	1		EPA 624.1	9/12/18	9/12/18 10:03	LBD
o-Xylene	ND	2.0	0.35	µg/L	1		EPA 624.1	9/12/18	9/12/18 10:03	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	99.2	70-130		9/12/18 10:03
Toluene-d8	99.0	70-130		9/12/18 10:03
4-Bromofluorobenzene	101	70-130		9/12/18 10:03

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: EPA 200.7-EPA 200.7

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18I0357-01 [OU2-WWTP-Eff-08]	B212230	50.0	50.0	09/11/18

Prep Method: EPA 200.8-EPA 200.8

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18I0357-01 [OU2-WWTP-Eff-08]	B212231	50.0	50.0	09/11/18

Prep Method: SW-846 3510C-EPA 608.3

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18I0357-01 [OU2-WWTP-Eff-08]	B212201	1000	2.00	09/11/18

Prep Method: SW-846 3510C-EPA 608.3

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18I0357-01 [OU2-WWTP-Eff-08]	B212202	1000	2.00	09/11/18

Prep Method: SW-846 5030B-EPA 624.1

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18I0357-02 [OU2-WWTP-Eff-08]	B212263	5	5.00	09/12/18

SM21-22 4500 H B

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18I0357-01 [OU2-WWTP-Eff-08]	B212235	50.0		09/11/18

Prep Method: SW-846 5030B-SW-846 8260C

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18I0357-01 [OU2-WWTP-Eff-08]	B212264	5	5.00	09/12/18

Prep Method: SW-846 3510C-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18I0357-01 [OU2-WWTP-Eff-08]	B212268	1000	1.00	09/11/18
18I0357-01RE1 [OU2-WWTP-Eff-08]	B212268	1000	0.200	09/11/18

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B212264 - SW-846 5030B										
Blank (B212264-BLK1)				Prepared & Analyzed: 09/12/18						
Isopropylbenzene (Cumene)	ND	1.0	µg/L							
Toluene	ND	1.0	µg/L							
Surrogate: 1,2-Dichloroethane-d4	*23.8*		µg/L	25.0		95.2	70-130			
Surrogate: Toluene-d8	*24.8*		µg/L	25.0		99.2	70-130			
Surrogate: 4-Bromofluorobenzene	*24.6*		µg/L	25.0		98.3	70-130			
LCS (B212264-BS1)				Prepared & Analyzed: 09/12/18						
Isopropylbenzene (Cumene)	21.5	1.0	µg/L	20.0		108	70-130			
Toluene	21.1	1.0	µg/L	20.0		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	*24.3*		µg/L	25.0		97.1	70-130			
Surrogate: Toluene-d8	*24.8*		µg/L	25.0		99.1	70-130			
Surrogate: 4-Bromofluorobenzene	*25.8*		µg/L	25.0		103	70-130			
LCS Dup (B212264-BSD1)				Prepared & Analyzed: 09/12/18						
Isopropylbenzene (Cumene)	20.9	1.0	µg/L	20.0		104	70-130	3.02	25	
Toluene	20.5	1.0	µg/L	20.0		103	70-130	2.69	25	
Surrogate: 1,2-Dichloroethane-d4	*24.5*		µg/L	25.0		97.8	70-130			
Surrogate: Toluene-d8	*24.6*		µg/L	25.0		98.6	70-130			
Surrogate: 4-Bromofluorobenzene	*25.7*		µg/L	25.0		103	70-130			

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B212263 - SW-846 5030B										
Blank (B212263-BLK1)				Prepared & Analyzed: 09/12/18						
Benzene	ND	1.0	µg/L							
Ethylbenzene	ND	2.0	µg/L							
1,2,4-Trimethylbenzene	ND	1.0	µg/L							
Xylenes (total)	ND	3.0	µg/L							
m+p Xylene	ND	2.0	µg/L							
o-Xylene	ND	2.0	µg/L							
Surrogate: 1,2-Dichloroethane-d4	*23.8*		µg/L	25.0		95.2	70-130			
Surrogate: Toluene-d8	*24.8*		µg/L	25.0		99.2	70-130			
Surrogate: 4-Bromofluorobenzene	*24.6*		µg/L	25.0		98.3	70-130			
LCS (B212263-BS1)				Prepared & Analyzed: 09/12/18						
Benzene	19.7	1.0	µg/L	20.0		98.6	65-135			
Ethylbenzene	20.0	2.0	µg/L	20.0		100	60-140			
1,2,4-Trimethylbenzene	19.6	1.0	µg/L	20.0		97.8	70-130			
m+p Xylene	40.7	2.0	µg/L	40.0		102	70-130			
o-Xylene	20.2	2.0	µg/L	20.0		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	*24.5*		µg/L	25.0		97.8	70-130			
Surrogate: Toluene-d8	*24.6*		µg/L	25.0		98.6	70-130			
Surrogate: 4-Bromofluorobenzene	*25.7*		µg/L	25.0		103	70-130			

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B212268 - SW-846 3510C										
Blank (B212268-BLK1)				Prepared: 09/11/18 Analyzed: 09/12/18						
Acenaphthene (SIM)	ND	0.30	µg/L							
Acenaphthylene (SIM)	ND	0.20	µg/L							
Anthracene (SIM)	ND	0.20	µg/L							
Benzo(a)anthracene (SIM)	ND	0.050	µg/L							
Benzo(a)pyrene (SIM)	ND	0.10	µg/L							
Benzo(b)fluoranthene (SIM)	ND	0.050	µg/L							
Benzo(g,h,i)perylene (SIM)	ND	0.50	µg/L							
Chrysene (SIM)	ND	0.20	µg/L							
Dibenz(a,h)anthracene (SIM)	ND	0.10	µg/L							
Fluoranthene (SIM)	ND	0.50	µg/L							
Fluorene (SIM)	ND	1.0	µg/L							
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.10	µg/L							
Naphthalene (SIM)	ND	1.0	µg/L							
Phenanthrene (SIM)	ND	0.050	µg/L							
Pyrene (SIM)	ND	1.0	µg/L							
Surrogate: Nitrobenzene-d5	*74.5*		µg/L	100		74.5	30-130			
Surrogate: 2-Fluorobiphenyl	*75.8*		µg/L	100		75.8	30-130			
Surrogate: p-Terphenyl-d14	*76.4*		µg/L	100		76.4	30-130			
Blank (B212268-BLK2)				Prepared: 09/11/18 Analyzed: 09/12/18						
Benzo(k)fluoranthene (SIM)	ND	0.040	µg/L							
Surrogate: Nitrobenzene-d5	*48.6*		µg/L	100		48.6	30-130			
Surrogate: 2-Fluorobiphenyl	*41.5*		µg/L	100		41.5	30-130			
Surrogate: p-Terphenyl-d14	*60.1*		µg/L	100		60.1	30-130			
LCS (B212268-BS1)				Prepared: 09/11/18 Analyzed: 09/12/18						
Acenaphthene (SIM)	27.9	7.5	µg/L	50.0		55.8	40-140			
Acenaphthylene (SIM)	28.2	5.0	µg/L	50.0		56.5	40-140			
Anthracene (SIM)	29.8	5.0	µg/L	50.0		59.7	40-140			
Benzo(a)anthracene (SIM)	29.2	1.2	µg/L	50.0		58.4	40-140			
Benzo(a)pyrene (SIM)	30.2	2.5	µg/L	50.0		60.4	40-140			
Benzo(b)fluoranthene (SIM)	31.6	1.2	µg/L	50.0		63.1	40-140			
Benzo(g,h,i)perylene (SIM)	29.5	12	µg/L	50.0		59.0	40-140			
Benzo(k)fluoranthene (SIM)	30.4	5.0	µg/L	50.0		60.9	40-140			
Chrysene (SIM)	28.8	5.0	µg/L	50.0		57.6	40-140			
Dibenz(a,h)anthracene (SIM)	29.7	2.5	µg/L	50.0		59.4	40-140			
Fluoranthene (SIM)	29.4	12	µg/L	50.0		58.8	40-140			
Fluorene (SIM)	30.1	25	µg/L	50.0		60.2	40-140			
Indeno(1,2,3-cd)pyrene (SIM)	29.9	2.5	µg/L	50.0		59.8	40-140			
Naphthalene (SIM)	25.6	25	µg/L	50.0		51.2	40-140			
Phenanthrene (SIM)	28.4	1.2	µg/L	50.0		56.7	40-140			
Pyrene (SIM)	27.3	25	µg/L	50.0		54.6	40-140			
Surrogate: Nitrobenzene-d5	*54.2*		µg/L	100		54.2	30-130			
Surrogate: 2-Fluorobiphenyl	*47.5*		µg/L	100		47.5	30-130			
Surrogate: p-Terphenyl-d14	*42.5*		µg/L	100		42.5	30-130			

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B212268 - SW-846 3510C											
LCS Dup (B212268-BSD1)				Prepared: 09/11/18 Analyzed: 09/12/18							
Acenaphthene (SIM)	27.4	7.5	µg/L	50.0		54.8	40-140	1.72	20		
Acenaphthylene (SIM)	27.6	5.0	µg/L	50.0		55.3	40-140	2.15	20		
Anthracene (SIM)	30.0	5.0	µg/L	50.0		60.0	40-140	0.501	20		
Benzo(a)anthracene (SIM)	30.0	1.2	µg/L	50.0		59.9	40-140	2.62	20		
Benzo(a)pyrene (SIM)	30.9	2.5	µg/L	50.0		61.8	40-140	2.37	20		
Benzo(b)fluoranthene (SIM)	32.2	1.2	µg/L	50.0		64.3	40-140	1.88	20		
Benzo(g,h,i)perylene (SIM)	30.2	12	µg/L	50.0		60.5	40-140	2.60	20		
Benzo(k)fluoranthene (SIM)	31.5	5.0	µg/L	50.0		63.0	40-140	3.31	20		
Chrysene (SIM)	29.6	5.0	µg/L	50.0		59.3	40-140	2.91	20		
Dibenz(a,h)anthracene (SIM)	30.6	2.5	µg/L	50.0		61.3	40-140	3.23	20		
Fluoranthene (SIM)	29.5	12	µg/L	50.0		59.0	40-140	0.340	20		
Fluorene (SIM)	29.3	25	µg/L	50.0		58.6	40-140	2.69	20		
Indeno(1,2,3-cd)pyrene (SIM)	30.8	2.5	µg/L	50.0		61.6	40-140	2.96	20		‡
Naphthalene (SIM)	24.7	25	µg/L	50.0		49.4	40-140	3.48	20	J	
Phenanthrene (SIM)	28.6	1.2	µg/L	50.0		57.3	40-140	1.05	20		
Pyrene (SIM)	28.0	25	µg/L	50.0		56.0	40-140	2.53	20		
Surrogate: Nitrobenzene-d5	*48.2*		µg/L	100		48.2	30-130				
Surrogate: 2-Fluorobiphenyl	*45.8*		µg/L	100		45.8	30-130				
Surrogate: p-Terphenyl-d14	*43.0*		µg/L	100		43.0	30-130				

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B212202 - SW-846 3510C										
Blank (B212202-BLK1)				Prepared: 09/11/18 Analyzed: 09/12/18						
Endosulfan I	ND	0.010	µg/L							
Endosulfan I [2C]	ND	0.010	µg/L							
Heptachlor Epoxide	ND	0.010	µg/L							
Heptachlor Epoxide [2C]	ND	0.010	µg/L							
Surrogate: Decachlorobiphenyl	*0.258*		µg/L	0.400		64.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.263*		µg/L	0.400		65.9	30-150			
Surrogate: Tetrachloro-m-xylene	*0.227*		µg/L	0.400		56.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.223*		µg/L	0.400		55.8	30-150			
LCS (B212202-BS1)				Prepared: 09/11/18 Analyzed: 09/12/18						
Endosulfan I	0.60	0.050	µg/L	1.00		60.4	45-153			
Endosulfan I [2C]	0.61	0.050	µg/L	1.00		61.0	45-153			
Heptachlor Epoxide	0.57	0.050	µg/L	1.00		56.6	37-142			
Heptachlor Epoxide [2C]	0.56	0.050	µg/L	1.00		56.1	37-142			
Surrogate: Decachlorobiphenyl	*1.35*		µg/L	2.00		67.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.38*		µg/L	2.00		69.1	30-150			
Surrogate: Tetrachloro-m-xylene	*0.985*		µg/L	2.00		49.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.997*		µg/L	2.00		49.9	30-150			
LCS Dup (B212202-BSD1)				Prepared: 09/11/18 Analyzed: 09/12/18						
Endosulfan I	0.72	0.050	µg/L	1.00		72.4	45-153	18.1		
Endosulfan I [2C]	0.72	0.050	µg/L	1.00		72.4	45-153	17.0		
Heptachlor Epoxide	0.72	0.050	µg/L	1.00		72.2	37-142	24.3		
Heptachlor Epoxide [2C]	0.71	0.050	µg/L	1.00		71.1	37-142	23.7		
Surrogate: Decachlorobiphenyl	*1.26*		µg/L	2.00		62.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.28*		µg/L	2.00		64.2	30-150			
Surrogate: Tetrachloro-m-xylene	*1.26*		µg/L	2.00		63.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.24*		µg/L	2.00		62.0	30-150			

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B212201 - SW-846 3510C										
Blank (B212201-BLK1)				Prepared: 09/11/18 Analyzed: 09/12/18						
Aroclor-1016	ND	0.040	µg/L							
Aroclor-1016 [2C]	ND	0.040	µg/L							
Aroclor-1221	ND	0.040	µg/L							
Aroclor-1221 [2C]	ND	0.040	µg/L							
Aroclor-1232	ND	0.040	µg/L							
Aroclor-1232 [2C]	ND	0.040	µg/L							
Aroclor-1242	ND	0.040	µg/L							
Aroclor-1242 [2C]	ND	0.040	µg/L							
Aroclor-1248	ND	0.040	µg/L							
Aroclor-1248 [2C]	ND	0.040	µg/L							
Aroclor-1254	ND	0.040	µg/L							
Aroclor-1254 [2C]	ND	0.040	µg/L							
Aroclor-1260	ND	0.040	µg/L							
Aroclor-1260 [2C]	ND	0.040	µg/L							
Surrogate: Decachlorobiphenyl	*0.262*		µg/L	0.400		65.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.262*		µg/L	0.400		65.4	30-150			
Surrogate: Tetrachloro-m-xylene	*0.284*		µg/L	0.400		71.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.284*		µg/L	0.400		71.0	30-150			
LCS (B212201-BS1)				Prepared: 09/11/18 Analyzed: 09/12/18						
Aroclor-1016	0.43	0.20	µg/L	0.500		86.4	50-140			
Aroclor-1016 [2C]	0.44	0.20	µg/L	0.500		87.8	50-140			
Aroclor-1260	0.43	0.20	µg/L	0.500		85.2	8-140			
Aroclor-1260 [2C]	0.42	0.20	µg/L	0.500		83.9	8-140			
Surrogate: Decachlorobiphenyl	*1.39*		µg/L	2.00		69.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.40*		µg/L	2.00		70.2	30-150			
Surrogate: Tetrachloro-m-xylene	*1.36*		µg/L	2.00		68.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.37*		µg/L	2.00		68.4	30-150			
LCS Dup (B212201-BSD1)				Prepared: 09/11/18 Analyzed: 09/12/18						
Aroclor-1016	0.44	0.20	µg/L	0.500		87.0	50-140	0.800		
Aroclor-1016 [2C]	0.46	0.20	µg/L	0.500		91.2	50-140	3.74		
Aroclor-1260	0.44	0.20	µg/L	0.500		88.1	8-140	3.42		
Aroclor-1260 [2C]	0.44	0.20	µg/L	0.500		88.4	8-140	5.22		
Surrogate: Decachlorobiphenyl	*1.46*		µg/L	2.00		73.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.47*		µg/L	2.00		73.3	30-150			
Surrogate: Tetrachloro-m-xylene	*1.41*		µg/L	2.00		70.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.42*		µg/L	2.00		71.0	30-150			

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B212230 - EPA 200.7										
Blank (B212230-BLK1)				Prepared: 09/11/18 Analyzed: 09/12/18						
Chromium	ND	0.0070	mg/L							
Zinc	ND	0.010	mg/L							
LCS (B212230-BS1)				Prepared: 09/11/18 Analyzed: 09/12/18						
Chromium	0.476	0.0070	mg/L	0.500		95.2	85-115			
Zinc	0.930	0.010	mg/L	1.00		93.0	85-115			
LCS Dup (B212230-BSD1)				Prepared: 09/11/18 Analyzed: 09/12/18						
Chromium	0.477	0.0070	mg/L	0.500		95.4	85-115	0.135	20	
Zinc	0.925	0.010	mg/L	1.00		92.5	85-115	0.459	20	
Duplicate (B212230-DUP1)	**Source: 18I0357-01**			Prepared: 09/11/18 Analyzed: 09/12/18						
Chromium	ND	0.0070	mg/L		ND			NC	20	
Zinc	ND	0.010	mg/L		ND			NC	20	
Matrix Spike (B212230-MS1)	**Source: 18I0357-01**			Prepared: 09/11/18 Analyzed: 09/12/18						
Chromium	0.507	0.0070	mg/L	0.500	ND	101	70-130			
Zinc	1.00	0.010	mg/L	1.00	ND	100	70-130			
Batch B212231 - EPA 200.8										
Blank (B212231-BLK1)				Prepared: 09/11/18 Analyzed: 09/12/18						
Lead	ND	0.50	µg/L							
LCS (B212231-BS1)				Prepared: 09/11/18 Analyzed: 09/12/18						
Lead	495	5.0	µg/L	500		99.0	85-115			
LCS Dup (B212231-BSD1)				Prepared: 09/11/18 Analyzed: 09/12/18						
Lead	487	5.0	µg/L	500		97.5	85-115	1.53	20	
Duplicate (B212231-DUP1)	**Source: 18I0357-01**			Prepared: 09/11/18 Analyzed: 09/12/18						
Lead	0.161	0.50	µg/L		0.153			4.80	20	J
Matrix Spike (B212231-MS1)	**Source: 18I0357-01**			Prepared: 09/11/18 Analyzed: 09/12/18						
Lead	513	5.0	µg/L	500	ND	103	70-130			

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B212235 - SM21-22 4500 H B										
LCS (B212235-BS1)				Prepared & Analyzed: 09/11/18						
pH	6.06		pH Units	6.00		101	90-110			

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
H-05	Holding time was exceeded. pH analysis should be performed immediately at time of sampling. Nominal 15 minute holding time was exceeded.
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
EPA 200.7 in Water	
Chromium	CT,MA,NH,NY,RI,NC,ME,VA
Zinc	CT,MA,NH,NY,RI,NC,ME,VA
EPA 200.8 in Water	
Lead	CT,MA,NH,NY,RI,NC,ME,VA
EPA 608.3 in Water	
Aroclor-1016	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1016 [2C]	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1221	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1221 [2C]	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1232	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1232 [2C]	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1242	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1242 [2C]	CT,MA,NH,NY,RI,NC,ME,VA
Endosulfan I	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1248	CT,MA,NH,NY,RI,NC,ME,VA
Endosulfan I [2C]	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1248 [2C]	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1254	CT,MA,NH,NY,RI,NC,ME,VA
Heptachlor Epoxide	CT,MA,NH,NY,RI,NC,ME,VA
Heptachlor Epoxide [2C]	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1254 [2C]	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1260	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1260 [2C]	CT,MA,NH,NY,RI,NC,ME,VA
EPA 624.1 in Water	
Benzene	CT,NY,RI,NC,MA,NH
Ethylbenzene	CT,NY,RI,NC,MA,NH
Toluene	CT,NY,RI,NC,MA,NH
1,2,4-Trimethylbenzene	MA
Xylenes (total)	NY,MA,NH
m+p Xylene	CT,NY,RI,NC,MA,NH
o-Xylene	CT,NY,RI,NC,MA,NH
SM21-22 4500 H B in Water	
pH	CT,MA,RI
SW-846 8260C in Water	
Benzene	CT,ME,NH,VA,NY
Ethylbenzene	CT,ME,NH,VA,NY
Isopropylbenzene (Cumene)	ME,VA,NY
Toluene	CT,ME,NH,VA,NY
1,2,4-Trimethylbenzene	ME,VA,NY
m+p Xylene	CT,ME,NH,VA,NY
o-Xylene	CT,ME,NH,VA,NY
Xylenes (total)	NY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	03/1/2020
MA	Massachusetts DEP	M-MA100	06/30/2019
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2019
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2019
RI	Rhode Island Department of Health	LAO00112	12/30/2018
NC	North Carolina Div. of Water Quality	652	12/31/2018
NJ	New Jersey DEP	MA007 NELAP	06/30/2019
FL	Florida Department of Health	E871027 NELAP	06/30/2019
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2019
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2018
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2019
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2019
NC-DW	North Carolina Department of Health	25703	07/31/2019

18I0357

con-test ANALYTICAL LABORATORY

http://www.contestlabs.com

Doc # 380 Rev 1_03242017

CHAIN OF CUSTODY RECORD (New York)

Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com

39 Spruce Street
East Longmeadow, MA 01028

Page _____ of _____

Company Name: LAND remediation
Address: 74 Hudson River Road Waterford, NY
Phone:
Project Name: NYSDEC Saranac Lake Gas Co.
Project Location: Saranac Lake Construction Water
Project Number:
Project Manager: Matthew Warren
Con-Test Quote Name/Number:
Invoice Recipient: mjw@land-remediation.com
Sampled By: Vaughn Nelson, Kyle Jones

Requested Turnaround Time
7-Day ☐ 10-Day ☐
Due Date:

Rush-Approval Required
1-Day ☑ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
CLP Like Data Pkg Required: ☐
Email To: mjw@land-remediation.com
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	BOD-5	TDS	TSS	Oil & Grease 1664	8270 SVOC - PAH SIM	VOC 624.1 - (See Below)	VOC 8260 - Isopropyl Benzene & Toluene Only	608 PCB - 608 Pest - Endosulfan I, Heptachlor Epoxide	Metals- Pb, Zn, Cr.	pH
1	OU2-WWTP-Eff-08	9/11/2018 6:49	9/11/2018 6:53	X		WW	L	x	x	x	x	x		x	x	x	x
2	OU2-WWTP-Eff-08	9/11/2018 6:54	9/11/2018 6:55		x	WW	L						x				

# of Containers
[2] Preservation Code
[3] Container Code

Dissolved Metals Samples
☐ Field Filtered
☐ Lab to Filter

Orthophosphate Samples
☐ Field Filtered
☐ Lab to Filter

[1] Matrix Codes:
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define)

[2] Preservation Codes:
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

[3] Container Codes:
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Comments: VOC 624.1 - Benzene, Ethyl Benzene, Xylenes Total, and 124 TMB

48 Hour TAT TDS/TSS ; 5 day TAT BOD and Oil & Grease

Please use the following codes to indicate possible sample concentration within the **Conc Code** column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

		Date/Time:
Relinquished by: (signature)		9/11 8:45
Received by: (signature)		9-11-18 8:15
Relinquished by: (signature)		9-11-18 12:20
Received by: (signature)		9-11-18 12:20
Relinquished by: (signature)		9-11-18 14:10
Received by: (signature)	2.2	9-11-18 14:10

Program & Regulatory Information
☐ AWQ STDS ☐ NY TOGS
☐ NYC Sewer Discharge ☐ NY CP-51
☐ Part 360 GW (Landfill)
☐ NY Restricted Use
☐ NY Unrestricted Use
☐ NY Part 375
Other:

Deliverables
☐ Enhanced Data Package
☐ NYSDEC EQuIS EDD
☐ EQuIS (Standard) EDD
☐ NY Regulatory EDD
☐ NY Regs Hits-Only EDD
Other:
NELAC and AIHA-LAP, LLC Accredited

Project Entity
☑ Government ☐ Municipality ☐ MWRA ☐ WRTA
☐ Federal ☐ 21 J ☐ School
☐ City ☐ Brownfield ☐ MBTA

Other
☐ Chromatogram
☐ *AIHA-LAP,LLC*

PCB ONLY
☐ Soxhlet
☐ Non Soxhlet

Table of Contents

I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples_____

con-test® ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client Land Remediation

Received By ESD Date 9-11-18 Time 14:10

How were the samples received? In Cooler T No Cooler _____ On Ice T No Ice _____
Direct from Sampling _____ Ambient _____ Melted Ice _____

Were samples within Temperature? 2-6°C T By Gun # 533 Actual Temp - 2.2
By Blank # _____ Actual Temp - _____

Was Custody Seal Intact? NA Were Samples Tampered with? NA
Was COC Relinquished ? T Does Chain Agree With Samples? T
Are there broken/leaking/loose caps on any samples? F
Is COC in ink/ Legible? T Were samples received within holding time? T
Did COC include all pertinent Information? Client T Analysis T Sampler Name T
Project T ID's T Collection Dates/Times T
Are Sample labels filled out and legible? T
Are there Lab to Filters? F Who was notified? _____
Are there Rushes? T Who was notified? LMC, Aidy, Rudy
Are there Short Holds? T Who was notified? LMC
Is there enough Volume? T
Is there Headspace where applicable? F MS/MSD? F
Proper Media/Containers Used? T Is splitting samples required? F
Were trip blanks received? F On COC? P
Do all samples have the proper pH? T Acid pH<2 Base _____

Vials		Containers:	#		#		#
Unp-		1 Liter Amb.	6	1 Liter Plastic		16 oz Amb.	
HCL-	3	500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic	2	4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Comments:

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

September 18, 2018

Keith Decker
Land Remediation
74 Hudson River Road
Waterford, NY 12188

Project Location: Saranac Lake
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 18I0359

Enclosed are results of analyses for samples received by the laboratory on September 11, 2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Aaron L. Benoit
Project Manager

Table of Contents

Sample Summary 3

Case Narrative 4

Sample Results 5

18I0359-01 5

Sample Preparation Information 6

QC Data 7

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) 7

B212349 7

B212599 7

Flag/Qualifier Summary 8

Certifications 9

Chain of Custody/Sample Receipt 10

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Land Remediation
74 Hudson River Road
Waterford, NY 12188
ATTN: Keith Decker

REPORT DATE: 9/18/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18I0359

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Saranac Lake

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
OU2-WWTP-Eff-08	18I0359-01	Waste Water		EPA 1664B SM 21-22 5210B	

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Lisa A. Worthington
Project Manager

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake | Sample Description: | Work Order: 18I0359

Date Received: 9/11/2018

Field Sample #: OU2-WWTP-Eff-08

Sample ID: 18I0359-01 | Start Date/Time: 9/11/2018 6:49:00AM

Sample Matrix: Waste Water | Stop Date/Time: 9/11/2018 6:53:00AM

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Biochemical Oxygen Demand	ND	4.0	mg/L	1		SM 21-22 5210B	9/12/18	9/12/18 17:20	LED
Oil & Grease (HEM)	ND	1.4	mg/L	1		EPA 1664B	9/17/18	9/17/18 11:00	LL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

EPA 1664B

Lab Number [Field ID]	Batch	Initial [mL]	Date
18I0359-01 [OU2-WWTP-Eff-08]	B212599	1000	09/17/18

SM 21-22 5210B

Lab Number [Field ID]	Batch	Initial [mL]	Date
18I0359-01 [OU2-WWTP-Eff-08]	B212349	150	09/12/18

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B212349 - SM 21-22 5210B										
Blank (B212349-BLK1)				Prepared & Analyzed: 09/12/18						
Biochemical Oxygen Demand	ND	2.0	mg/L							
LCS (B212349-BS1)				Prepared & Analyzed: 09/12/18						
Biochemical Oxygen Demand	190	2.0	mg/L	198		97.5	85-115			
Batch B212599 - EPA 1664B										
Blank (B212599-BLK1)				Prepared & Analyzed: 09/17/18						
Oil & Grease (HEM)	ND	1.4	mg/L							
Blank (B212599-BLK2)				Prepared & Analyzed: 09/17/18						
Oil & Grease (HEM)	ND	56	mg/L							
LCS (B212599-BS1)				Prepared & Analyzed: 09/17/18						
Oil & Grease (HEM)	16		mg/L	20.0		82.0	78-114			
LCS (B212599-BS2)				Prepared & Analyzed: 09/17/18						
Oil & Grease (HEM)	740		mg/L	800		92.0	78-114			

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level

Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.

No results have been blank subtracted unless specified in the case narrative section.

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
EPA 1664B in Water	
Oil & Grease (HEM)	CT,MA,NH,NY,RI,NC,ME,VA
SM 21-22 5210B in Water	
Biochemical Oxygen Demand	CT,MA,NH,NY,RI,ME,VA,NC

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	03/1/2020
MA	Massachusetts DEP	M-MA100	06/30/2019
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2019
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2019
RI	Rhode Island Department of Health	LAO00112	12/30/2018
NC	North Carolina Div. of Water Quality	652	12/31/2018
NJ	New Jersey DEP	MA007 NELAP	06/30/2019
FL	Florida Department of Health	E871027 NELAP	06/30/2019
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2019
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2018
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2019
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2019
NC-DW	North Carolina Department of Health	25703	07/31/2019

1810359

con-test ANALYTICAL LABORATORY

Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com

http://www.contestlabs.com Doc # 380 Rev 1_03242017

CHAIN OF CUSTODY RECORD (New York)

39 Spruce Street
East Longmeadow, MA 01028

Page _____ of _____

Company Name:	LAND remediation
Address:	74 Hudson River Road Waterford, NY
Phone:	
Project Name:	NYSDEC Saranac Lake Gas Co.
Project Location:	Saranac Lake Construction Water
Project Number:	
Project Manager:	Matthew Warren
Con-Test Quote Name/Number:	
Invoice Recipient:	mjw@land-remediation.com
Sampled By:	Vaughn Nelson, Kyle Jones

Requested Turnaround Time
7-Day ☐ 10-Day ☐
Due Date:

Rush-Approval Required
1-Day ☑ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
CLP Like Data Pkg Required: ☐
Email To: mjw@land-remediation.com
Fax To #:

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	BOD-5	TDS	TSS	Oil & Grease 1664	8270 SVOC - PAH SIM	VOC 624.1 - (See Below)	VOC 8260 - Isopropyl Benzene & Toluene Only	608 PCB - 608 Pest - Endosulfan I, Heptachlor Epoxide	Metals- Pb, Zn, Cr.	pH	# of Containers
1	OU2-WWTP-Eff-08	9/11/2018 6:49	9/11/2018 6:53	X		WW	L	x	x	x	x	x		x	x	x	x	
	OU2-WWTP-Eff-08	9/11/2018 6:54	9/11/2018 6:55		x	WW	L						x					

ANALYSIS REQUESTED

Dissolved Metals Samples
☐ Field Filtered
☐ Lab to Filter

Orthophosphate Samples
☐ Field Filtered
☐ Lab to Filter

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define)

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

[3] **Container Codes:**
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Comments: VOC 624.1 - Benzene, Ethyl Benzene, Xylenes Total, and 124 TMB

48 Hour TAT TDS/TSS ; 5 day TAT BOD and Oil & Grease

Please use the following codes to indicate possible sample concentration within the **Conc Code** column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

	Date/Time:
Relinquished by: (signature)	9/11 8:55
Received by: (signature)	9-11-18 8:15
Relinquished by: (signature)	9-11-18 12:20
Received by: (signature)	9-11-18 12:20
Relinquished by: (signature)	9-11-18 14:10
Received by: (signature)	9-11-18 14:10

Program & Regulatory Information
☐ AWQ STDS ☐ NY TOGS
☐ NYC Sewer Discharge ☐ NY CP-51
☐ Part 360 GW (Landfill)
☐ NY Restricted Use
☐ NY Unrestricted Use
☐ NY Part 375
Other:

Deliverables
☐ Enhanced Data Package
☐ NYSDEC EQuIS EDD
☐ EQuIS (Standard) EDD
☐ NY Regulatory EDD
☐ NY Regs Hits-Only EDD
Other:

Project Entity
☑ Government ☐ Municipality ☐ MWRA ☐ WRTA
☐ Federal ☐ 21 J ☐ School
☐ City ☐ Brownfield ☐ MBTA

Other
☐ Chromatogram
☐ *AIHA-LAP,LLC*

PCB ONLY
☐ Soxhlet
☐ Non Soxhlet

Table of Contents

I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples_____

con-test® ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client Lab

Received By ESD Date 9-11-18 Time 14:10

How were the samples received? In Cooler T No Cooler _____ On Ice T No Ice _____ Direct from Sampling _____ Ambient _____ Melted Ice _____

Were samples within Temperature? 2-6°C T By Gun # 517 Actual Temp - 2.2 By Blank # _____ Actual Temp - _____

Was Custody Seal Intact? NA Were Samples Tampered with? NA

Was COC Relinquished ? T Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? T Were samples received within holding time? T

Did COC include all pertinent Information? Client T Project T Analysis T ID's T Sampler Name T Collection Dates/Times T

Are Sample labels filled out and legible? T

Are there Lab to Filters? F Who was notified? _____

Are there Rushes? F Who was notified? _____

Are there Short Holds? T Who was notified? Luke

Is there enough Volume? T

Is there Headspace where applicable? F MS/MSD? F

Proper Media/Containers Used? T Is splitting samples required? F

Were trip blanks received? F On COC? F

Do all samples have the proper pH? NA Acid _____ Base _____

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.	2	1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic	1	8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Comments:

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

September 13, 2018

Keith Decker
Land Remediation
74 Hudson River Road
Waterford, NY 12188

Project Location: Saranac Lake
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 18I0358

Enclosed are results of analyses for samples received by the laboratory on September 11, 2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Aaron L. Benoit
Project Manager

Table of Contents

Sample Summary 3

Case Narrative 4

Sample Results 5

18I0358-01 5

Sample Preparation Information 7

QC Data 8

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) 8

B212259 8

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Dissolved) 9

B212257 9

Flag/Qualifier Summary 10

Certifications 11

Chain of Custody/Sample Receipt 12

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Land Remediation
74 Hudson River Road
Waterford, NY 12188
ATTN: Keith Decker

REPORT DATE: 9/13/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18I0358

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Saranac Lake

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
OU2-WWTP-Eff-08	18I0358-01	Waste Water		SM21-22 2540C SM21-22 2540D	

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Lisa A. Worthington
Project Manager

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake | Sample Description: | Work Order: 18I0358

Date Received: 9/11/2018

Field Sample #: OU2-WWTP-Eff-08

Sample ID: 18I0358-01 | Start Date/Time: 9/11/2018 6:49:00AM

Sample Matrix: Waste Water | Stop Date/Time: 9/11/2018 6:53:00AM

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Suspended Solids	ND	2.0	mg/L	1		SM21-22 2540D	9/12/18	9/12/18 14:00	LL

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake | Sample Description: | Work Order: 18I0358

Date Received: 9/11/2018

Field Sample #: OU2-WWTP-Eff-08

Sample ID: 18I0358-01 | Start Date/Time: 9/11/2018 6:49:00AM

Sample Matrix: Waste Water | Stop Date/Time: 9/11/2018 6:53:00AM

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Dissolved)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Dissolved Solids	130	10	mg/L	1		SM21-22 2540C	9/12/18	9/12/18 13:30	LL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

SM21-22 2540C

Lab Number [Field ID]	Batch	Initial [mL]	Date
18I0358-01 [OU2-WWTP-Eff-08]	B212257	50.0	09/12/18

SM21-22 2540D

Lab Number [Field ID]	Batch	Initial [mL]	Date
18I0358-01 [OU2-WWTP-Eff-08]	B212259	250	09/12/18

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B212259 - SM21-22 2540D										
Blank (B212259-BLK1)				Prepared & Analyzed: 09/12/18						
Total Suspended Solids	ND	2.5	mg/L							
LCS (B212259-BS1)				Prepared & Analyzed: 09/12/18						
Total Suspended Solids	198	10	mg/L	200		99.0	64.3-117			

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Dissolved) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B212257 - SM21-22 2540C										
Blank (B212257-BLK1)				Prepared & Analyzed: 09/12/18						
Total Dissolved Solids	ND	10	mg/L							
LCS (B212257-BS1)				Prepared & Analyzed: 09/12/18						
Total Dissolved Solids	280	10	mg/L	293		96.2	61.4-114			

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level

Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.

No results have been blank subtracted unless specified in the case narrative section.

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SM21-22 2540C in Water	
Total Dissolved Solids	CT,MA,NH,NY,RI,NC,ME,VA
SM21-22 2540D in Water	
Total Suspended Solids	CT,MA,NH,NY,RI,NC,ME,VA

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	03/1/2020
MA	Massachusetts DEP	M-MA100	06/30/2019
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2019
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2019
RI	Rhode Island Department of Health	LAO00112	12/30/2018
NC	North Carolina Div. of Water Quality	652	12/31/2018
NJ	New Jersey DEP	MA007 NELAP	06/30/2019
FL	Florida Department of Health	E871027 NELAP	06/30/2019
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2019
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2018
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2019
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2019
NC-DW	North Carolina Department of Health	25703	07/31/2019

18I0358

http://www.contestlabs.com Doc # 380 Rev 1_03242017

con-test ANALYTICAL LABORATORY

Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com

CHAIN OF CUSTODY RECORD (New York)

39 Spruce Street
East Longmeadow, MA 01028

Page _____ of _____

Company Name:	LAND remediation
Address:	74 Hudson River Road Waterford, NY
Phone:	
Project Name:	NYSDEC Saranac Lake Gas Co.
Project Location:	Saranac Lake Construction Water
Project Number:	
Project Manager:	Matthew Warren
Con-Test Quote Name/Number:	
Invoice Recipient:	mjw@land-remediation.com
Sampled By:	Vaughn Nelson, Kyle Jones

Requested Turnaround Time
7-Day ☐ 10-Day ☐
Due Date:

Rush-Approval Required
1-Day ☑ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
CLP Like Data Pkg Required: ☐
Email To: mjw@land-remediation.com
Fax To #:

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	BOD-5	TDS	TSS	Oil & Grease 1664	8270 SVOC - PAH SIM	VOC 624.1 - (See Below)	VOC 8260 - Isopropyl Benzene & Toluene Only	608 PCB - 608 Pest - Endosulfan I, Heptachlor Epoxide	Metals- Pb, Zn, Cr.	pH	# of Containers
1	OU2-WWTP-Eff-08	9/11/2018 6:49	9/11/2018 6:53	X		WW	L	x	x	x	x	x		x	x	x	x	
	OU2-WWTP-Eff-08	9/11/2018 6:54	9/11/2018 6:55		x	WW	L						x					

ANALYSIS REQUESTED

[2] Preservation Code
[3] Container Code

Dissolved Metals Samples
☐ Field Filtered
☐ Lab to Filter

Orthophosphate Samples
☐ Field Filtered
☐ Lab to Filter

[1] Matrix Codes:
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define)

[2] Preservation Codes:
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

[3] Container Codes:
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Comments: VOC 624.1 - Benzene, Ethyl Benzene, Xylenes Total, and 124 TMB

48 Hour TAT TDS/TSS ; 5 day TAT BOD and Oil & Grease

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)		Date/Time: 9/11 8:45
Received by: (signature)		Date/Time: 9-11-18 8:15 AM
Relinquished by: (signature)		Date/Time: 9-11-18 12:20 PM
Received by: (signature)		Date/Time: 9-11-18 12:20
Relinquished by: (signature)		Date/Time: 9-11-18 14:10
Received by: (signature)		Date/Time: 14:10

Program & Regulatory Information
☐ AWQ STDS ☐ NY TOGS
☐ NYC Sewer Discharge ☐ NY CP-51
☐ Part 360 GW (Landfill)
☐ NY Restricted Use
☐ NY Unrestricted Use
☐ NY Part 375
Other:

Deliverables
☐ Enhanced Data Package
☐ NYSDEC EQuIS EDD
☐ EQuIS (Standard) EDD
☐ NY Regulatory EDD
☐ NY Regs Hits-Only EDD
Other:

Project Entity
☑ Government ☐ Municipality ☐ MWRA ☐ WRTA
☐ Federal ☐ 21 J ☐ School
☐ City ☐ Brownfield ☐ MBTA

Other
☐ Chromatogram
☐ AIHA-LAP,LLC

PCB ONLY
☐ Soxhlet
☐ Non Soxhlet

Table of Contents

I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples_____

con-test® ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client Lim Repeating

Received By ESO Date 04-11-18 Time 14:10

How were the samples received? In Cooler T No Cooler _____ On Ice T No Ice _____
Direct from Sampling _____ Ambient _____ Melted Ice _____

Were samples within Temperature? 2-6°C T By Gun # 517 Actual Temp - 2.2
By Blank # _____ Actual Temp - _____

Was Custody Seal Intact? NA Were Samples Tampered with? NA
Was COC Relinquished ? T Does Chain Agree With Samples? T
Are there broken/leaking/loose caps on any samples? F
Is COC in ink/ Legible? T Were samples received within holding time? T
Did COC include all pertinent Information? Client T Analysis T Sampler Name T
Project T ID's T Collection Dates/Times T
Are Sample labels filled out and legible? T
Are there Lab to Filters? F Who was notified? _____
Are there Rushes? T Who was notified? LUKC
Are there Short Holds? @ TF Who was notified? _____
Is there enough Volume? T
Is there Headspace where applicable? F MS/MSD? F
Proper Media/Containers Used? T Is splitting samples required? F
Were trip blanks received? F On COC? F
Do all samples have the proper pH? NP Acid _____ Base _____

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic	1	8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Comments:

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

September 17, 2018

Keith Decker
Land Remediation
74 Hudson River Road
Waterford, NY 12188

Project Location: Saranac Lake
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 18I0618

Enclosed are results of analyses for samples received by the laboratory on September 14, 2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Aaron L. Benoit
Project Manager

Table of Contents

Sample Summary 4

Case Narrative 5

Sample Results 6

18I0618-01 6

18I0618-02 11

Sample Preparation Information 13

QC Data 14

Volatile Organic Compounds by GC/MS 14

B212598 14

Volatile Organic Compounds by GC/MS 15

B212604 15

Semivolatile Organic Compounds by GC/MS 16

B212612 16

Organochloride Pesticides by GC/ECD 18

B212557 18

Polychlorinated Biphenyls By GC/ECD 19

B212485 19

Metals Analyses (Total) 20

B212552 20

B212554 20

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) 21

B212559 21

Pesticides Degradation Report 22

Dual Column RPD Report 23

Flag/Qualifier Summary 27

Table of Contents (continued)

Certifications 28

Chain of Custody/Sample Receipt 30

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Land Remediation
74 Hudson River Road
Waterford, NY 12188
ATTN: Keith Decker

REPORT DATE: 9/17/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18I0618

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Saranac Lake

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
OU2-WTP-Eff-09	18I0618-01	Waste Water		EPA 200.7	
				EPA 200.8	
				EPA 608.3	
				SM21-22 4500 H B	
				SW-846 8270D	
OU2-WTP-Eff-09	18I0618-02	Waste Water		EPA 624.1	
				SW-846 8260C	

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

For method 8270, only PAHs were requested and reported.

SM21-22 4500 H B

Qualifications:

H-05

Holding time was exceeded. pH analysis should be performed immediately at time of sampling. Nominal 15 minute holding time was exceeded.

Analyte & Samples(s) Qualified:

pH

18I0618-01[OU2-WTP-Eff-09], B212559-DUP1

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Lisa A. Worthington
Project Manager

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake | Sample Description: | Work Order: 18I0618

Date Received: 9/14/2018

Field Sample #: OU2-WTP-Eff-09

Sample ID: 18I0618-01 | Start Date/Time: 9/14/2018 7:10:00AM

Sample Matrix: Waste Water | Stop Date/Time: 9/14/2018 7:14:00AM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene (SIM)	ND	0.30	0.060	µg/L	1		SW-846 8270D	9/14/18	9/17/18 12:26	IMR
Acenaphthylene (SIM)	ND	0.20	0.050	µg/L	1		SW-846 8270D	9/14/18	9/17/18 12:26	IMR
Anthracene (SIM)	ND	0.20	0.040	µg/L	1		SW-846 8270D	9/14/18	9/17/18 12:26	IMR
Benzo(a)anthracene (SIM)	ND	0.050	0.050	µg/L	1		SW-846 8270D	9/14/18	9/17/18 12:26	IMR
Benzo(a)pyrene (SIM)	ND	0.10	0.040	µg/L	1		SW-846 8270D	9/14/18	9/17/18 12:26	IMR
Benzo(b)fluoranthene (SIM)	ND	0.050	0.020	µg/L	1		SW-846 8270D	9/14/18	9/17/18 12:26	IMR
Benzo(g,h,i)perylene (SIM)	ND	0.50	0.070	µg/L	1		SW-846 8270D	9/14/18	9/17/18 12:26	IMR
Benzo(k)fluoranthene (SIM)	ND	0.040	0.020	µg/L	1		SW-846 8270D	9/14/18	9/17/18 13:24	IMR
Chrysene (SIM)	ND	0.20	0.030	µg/L	1		SW-846 8270D	9/14/18	9/17/18 12:26	IMR
Dibenz(a,h)anthracene (SIM)	ND	0.10	0.040	µg/L	1		SW-846 8270D	9/14/18	9/17/18 12:26	IMR
Fluoranthene (SIM)	ND	0.50	0.030	µg/L	1		SW-846 8270D	9/14/18	9/17/18 12:26	IMR
Fluorene (SIM)	ND	1.0	0.040	µg/L	1		SW-846 8270D	9/14/18	9/17/18 12:26	IMR
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.10	0.080	µg/L	1		SW-846 8270D	9/14/18	9/17/18 12:26	IMR
Naphthalene (SIM)	ND	1.0	0.070	µg/L	1		SW-846 8270D	9/14/18	9/17/18 12:26	IMR
Phenanthrene (SIM)	ND	0.050	0.040	µg/L	1		SW-846 8270D	9/14/18	9/17/18 12:26	IMR
Pyrene (SIM)	ND	1.0	0.030	µg/L	1		SW-846 8270D	9/14/18	9/17/18 12:26	IMR

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	91.8	30-130		9/17/18 12:26
Nitrobenzene-d5	52.2	30-130		9/17/18 13:24
2-Fluorobiphenyl	94.2	30-130		9/17/18 12:26
2-Fluorobiphenyl	41.5	30-130		9/17/18 13:24
p-Terphenyl-d14	83.0	30-130		9/17/18 12:26
p-Terphenyl-d14	45.9	30-130		9/17/18 13:24

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake | Sample Description: | Work Order: 18I0618

Date Received: 9/14/2018

Field Sample #: OU2-WTP-Eff-09

Sample ID: 18I0618-01 | Start Date/Time: 9/14/2018 7:10:00AM

Sample Matrix: Waste Water | Stop Date/Time: 9/14/2018 7:14:00AM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Endosulfan I [1]	ND	0.010	0.00042	µg/L	1		EPA 608.3	9/14/18	9/17/18 13:08	TG
Heptachlor epoxide [1]	ND	0.010	0.00080	µg/L	1		EPA 608.3	9/14/18	9/17/18 13:08	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	76.6	30-150		9/17/18 13:08
Decachlorobiphenyl [2]	81.7	30-150		9/17/18 13:08
Tetrachloro-m-xylene [1]	70.4	30-150		9/17/18 13:08
Tetrachloro-m-xylene [2]	65.5	30-150		9/17/18 13:08

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake | Sample Description: | Work Order: 18I0618

Date Received: 9/14/2018

Field Sample #: OU2-WTP-Eff-09

Sample ID: 18I0618-01 | Start Date/Time: 9/14/2018 7:10:00AM

Sample Matrix: Waste Water | Stop Date/Time: 9/14/2018 7:14:00AM

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.038	0.035	µg/L	1		EPA 608.3	9/14/18	9/17/18 11:36	KAL
Aroclor-1221 [1]	ND	0.038	0.031	µg/L	1		EPA 608.3	9/14/18	9/17/18 11:36	KAL
Aroclor-1232 [1]	ND	0.038	0.038	µg/L	1		EPA 608.3	9/14/18	9/17/18 11:36	KAL
Aroclor-1242 [1]	ND	0.038	0.033	µg/L	1		EPA 608.3	9/14/18	9/17/18 11:36	KAL
Aroclor-1248 [1]	ND	0.038	0.037	µg/L	1		EPA 608.3	9/14/18	9/17/18 11:36	KAL
Aroclor-1254 [1]	ND	0.038	0.020	µg/L	1		EPA 608.3	9/14/18	9/17/18 11:36	KAL
Aroclor-1260 [1]	ND	0.038	0.038	µg/L	1		EPA 608.3	9/14/18	9/17/18 11:36	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	105	30-150		9/17/18 11:36
Decachlorobiphenyl [2]	98.5	30-150		9/17/18 11:36
Tetrachloro-m-xylene [1]	90.3	30-150		9/17/18 11:36
Tetrachloro-m-xylene [2]	93.4	30-150		9/17/18 11:36

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake | Sample Description: | Work Order: 18I0618

Date Received: 9/14/2018

Field Sample #: OU2-WTP-Eff-09

Sample ID: 18I0618-01 | Start Date/Time: 9/14/2018 7:10:00AM

Sample Matrix: Waste Water | Stop Date/Time: 9/14/2018 7:14:00AM

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Chromium	ND	0.0070	0.0061	mg/L	1		EPA 200.7	9/14/18	9/17/18 11:30	QNW
Lead	0.20	0.50	0.14	µg/L	1	J	EPA 200.8	9/14/18	9/17/18 11:54	WSD
Zinc	ND	0.010	0.0052	mg/L	1		EPA 200.7	9/14/18	9/17/18 11:30	QNW

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake | Sample Description: | Work Order: 18I0618

Date Received: 9/14/2018

Field Sample #: OU2-WTP-Eff-09

Sample ID: 18I0618-01 | Start Date/Time: 9/14/2018 7:10:00AM

Sample Matrix: Waste Water | Stop Date/Time: 9/14/2018 7:14:00AM

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
pH @20.6°C	8.5		pH Units	1	H-05	SM21-22 4500 H B	9/14/18	9/14/18 18:45	AIA

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake | Sample Description: | Work Order: 18I0618

Date Received: 9/14/2018

Field Sample #: OU2-WTP-Eff-09

Sample ID: 18I0618-02 | Start Date/Time: 9/14/2018 7:14:00AM

Sample Matrix: Waste Water | Stop Date/Time: 9/14/2018 7:15:00AM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Isopropylbenzene (Cumene)	ND	1.0	0.12	µg/L	1		SW-846 8260C	9/17/18	9/17/18 9:40	LBD
Toluene	ND	1.0	0.17	µg/L	1		SW-846 8260C	9/17/18	9/17/18 9:40	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	98.7	70-130		9/17/18 9:40
Toluene-d8	98.0	70-130		9/17/18 9:40
4-Bromofluorobenzene	98.9	70-130		9/17/18 9:40

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake | Sample Description: | Work Order: 18I0618

Date Received: 9/14/2018

Field Sample #: OU2-WTP-Eff-09

Sample ID: 18I0618-02 | Start Date/Time: 9/14/2018 7:14:00AM

Sample Matrix: Waste Water | Stop Date/Time: 9/14/2018 7:15:00AM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	1.0	0.34	µg/L	1		EPA 624.1	9/17/18	9/17/18 9:40	LBD
Ethylbenzene	ND	2.0	0.37	µg/L	1		EPA 624.1	9/17/18	9/17/18 9:40	LBD
1,2,4-Trimethylbenzene	ND	1.0	0.34	µg/L	1		EPA 624.1	9/17/18	9/17/18 9:40	LBD
Xylenes (total)	ND	3.0		µg/L	1		EPA 624.1	9/17/18	9/17/18 9:40	LBD
m+p Xylene	ND	2.0	0.65	µg/L	1		EPA 624.1	9/17/18	9/17/18 9:40	LBD
o-Xylene	ND	2.0	0.35	µg/L	1		EPA 624.1	9/17/18	9/17/18 9:40	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	98.7	70-130		9/17/18 9:40
Toluene-d8	98.0	70-130		9/17/18 9:40
4-Bromofluorobenzene	98.9	70-130		9/17/18 9:40

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: EPA 200.7-EPA 200.7

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18I0618-01 [OU2-WTP-Eff-09]	B212552	50.0	50.0	09/14/18

Prep Method: EPA 200.8-EPA 200.8

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18I0618-01 [OU2-WTP-Eff-09]	B212554	50.0	50.0	09/14/18

Prep Method: SW-846 3510C-EPA 608.3

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18I0618-01 [OU2-WTP-Eff-09]	B212485	1040	2.00	09/14/18

Prep Method: SW-846 3510C-EPA 608.3

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18I0618-01 [OU2-WTP-Eff-09]	B212557	1000	2.00	09/14/18

Prep Method: SW-846 5030B-EPA 624.1

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18I0618-02 [OU2-WTP-Eff-09]	B212604	5	5.00	09/17/18

SM21-22 4500 H B

Lab Number [Field ID]	Batch	Initial [mL]	Date
18I0618-01 [OU2-WTP-Eff-09]	B212559	50.0	09/14/18

Prep Method: SW-846 5030B-SW-846 8260C

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18I0618-02 [OU2-WTP-Eff-09]	B212598	5	5.00	09/17/18

Prep Method: SW-846 3510C-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18I0618-01 [OU2-WTP-Eff-09]	B212612	1000	1.00	09/14/18
18I0618-01RE1 [OU2-WTP-Eff-09]	B212612	1000	0.200	09/14/18

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B212598 - SW-846 5030B										
Blank (B212598-BLK1)				Prepared & Analyzed: 09/17/18						
Isopropylbenzene (Cumene)	ND	1.0	µg/L							
Toluene	ND	1.0	µg/L							
Surrogate: 1,2-Dichloroethane-d4	*24.8*		µg/L	25.0		99.1	70-130			
Surrogate: Toluene-d8	*24.4*		µg/L	25.0		97.7	70-130			
Surrogate: 4-Bromofluorobenzene	*24.5*		µg/L	25.0		97.9	70-130			
LCS (B212598-BS1)				Prepared & Analyzed: 09/17/18						
Isopropylbenzene (Cumene)	21.1	1.0	µg/L	20.0		106	70-130			
Toluene	20.0	1.0	µg/L	20.0		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	*24.8*		µg/L	25.0		99.1	70-130			
Surrogate: Toluene-d8	*24.1*		µg/L	25.0		96.4	70-130			
Surrogate: 4-Bromofluorobenzene	*24.9*		µg/L	25.0		99.6	70-130			
LCS Dup (B212598-BSD1)				Prepared & Analyzed: 09/17/18						
Isopropylbenzene (Cumene)	21.8	1.0	µg/L	20.0		109	70-130	3.26	25	
Toluene	20.5	1.0	µg/L	20.0		102	70-130	2.12	25	
Surrogate: 1,2-Dichloroethane-d4	*24.8*		µg/L	25.0		99.1	70-130			
Surrogate: Toluene-d8	*24.4*		µg/L	25.0		97.7	70-130			
Surrogate: 4-Bromofluorobenzene	*24.9*		µg/L	25.0		99.8	70-130			

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B212604 - SW-846 5030B										
Blank (B212604-BLK1)				Prepared & Analyzed: 09/17/18						
Benzene	ND	1.0	µg/L							
Ethylbenzene	ND	2.0	µg/L							
1,2,4-Trimethylbenzene	ND	1.0	µg/L							
Xylenes (total)	ND	3.0	µg/L							
m+p Xylene	ND	2.0	µg/L							
o-Xylene	ND	2.0	µg/L							
Surrogate: 1,2-Dichloroethane-d4	*24.8*		µg/L	25.0		99.1	70-130			
Surrogate: Toluene-d8	*24.4*		µg/L	25.0		97.7	70-130			
Surrogate: 4-Bromofluorobenzene	*24.5*		µg/L	25.0		97.9	70-130			
LCS (B212604-BS1)				Prepared & Analyzed: 09/17/18						
Benzene	18.8	1.0	µg/L	20.0		94.2	65-135			
Ethylbenzene	21.2	2.0	µg/L	20.0		106	60-140			
1,2,4-Trimethylbenzene	20.9	1.0	µg/L	20.0		104	70-130			
m+p Xylene	42.8	2.0	µg/L	40.0		107	70-130			
o-Xylene	21.2	2.0	µg/L	20.0		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	*24.8*		µg/L	25.0		99.1	70-130			
Surrogate: Toluene-d8	*24.4*		µg/L	25.0		97.7	70-130			
Surrogate: 4-Bromofluorobenzene	*24.9*		µg/L	25.0		99.8	70-130			

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B212612 - SW-846 3510C										
Blank (B212612-BLK1)				Prepared: 09/14/18 Analyzed: 09/17/18						
Acenaphthene (SIM)	ND	0.30	µg/L							
Acenaphthylene (SIM)	ND	0.20	µg/L							
Anthracene (SIM)	ND	0.20	µg/L							
Benzo(a)anthracene (SIM)	ND	0.050	µg/L							
Benzo(a)pyrene (SIM)	ND	0.10	µg/L							
Benzo(b)fluoranthene (SIM)	ND	0.050	µg/L							
Benzo(g,h,i)perylene (SIM)	ND	0.50	µg/L							
Chrysene (SIM)	ND	0.20	µg/L							
Dibenz(a,h)anthracene (SIM)	ND	0.10	µg/L							
Fluoranthene (SIM)	ND	0.50	µg/L							
Fluorene (SIM)	ND	1.0	µg/L							
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.10	µg/L							
Naphthalene (SIM)	ND	1.0	µg/L							
Phenanthrene (SIM)	ND	0.050	µg/L							
Pyrene (SIM)	ND	1.0	µg/L							
Surrogate: Nitrobenzene-d5	*61.6*		µg/L	100		61.6	30-130			
Surrogate: 2-Fluorobiphenyl	*62.5*		µg/L	100		62.5	30-130			
Surrogate: p-Terphenyl-d14	*74.5*		µg/L	100		74.5	30-130			
Blank (B212612-BLK2)				Prepared: 09/14/18 Analyzed: 09/17/18						
Benzo(k)fluoranthene (SIM)	ND	0.040	µg/L							
Surrogate: Nitrobenzene-d5	*53.3*		µg/L	100		53.3	30-130			
Surrogate: 2-Fluorobiphenyl	*45.9*		µg/L	100		45.9	30-130			
Surrogate: p-Terphenyl-d14	*64.2*		µg/L	100		64.2	30-130			
LCS (B212612-BS1)				Prepared: 09/14/18 Analyzed: 09/17/18						
Acenaphthene (SIM)	30.6	7.5	µg/L	50.0		61.1	40-140			
Acenaphthylene (SIM)	31.2	5.0	µg/L	50.0		62.3	40-140			
Anthracene (SIM)	33.1	5.0	µg/L	50.0		66.2	40-140			
Benzo(a)anthracene (SIM)	33.0	1.2	µg/L	50.0		65.9	40-140			
Benzo(a)pyrene (SIM)	34.8	2.5	µg/L	50.0		69.6	40-140			
Benzo(b)fluoranthene (SIM)	36.0	1.2	µg/L	50.0		72.1	40-140			
Benzo(g,h,i)perylene (SIM)	33.4	12	µg/L	50.0		66.8	40-140			
Benzo(k)fluoranthene (SIM)	34.7	5.0	µg/L	50.0		69.4	40-140			
Chrysene (SIM)	32.8	5.0	µg/L	50.0		65.6	40-140			
Dibenz(a,h)anthracene (SIM)	34.0	2.5	µg/L	50.0		68.0	40-140			
Fluoranthene (SIM)	31.8	12	µg/L	50.0		63.6	40-140			
Fluorene (SIM)	32.0	25	µg/L	50.0		64.0	40-140			
Indeno(1,2,3-cd)pyrene (SIM)	34.5	2.5	µg/L	50.0		69.0	40-140			
Naphthalene (SIM)	27.3	25	µg/L	50.0		54.6	40-140			
Phenanthrene (SIM)	31.8	1.2	µg/L	50.0		63.5	40-140			
Pyrene (SIM)	31.7	25	µg/L	50.0		63.4	40-140			
Surrogate: Nitrobenzene-d5	*52.7*		µg/L	100		52.7	30-130			
Surrogate: 2-Fluorobiphenyl	*56.2*		µg/L	100		56.2	30-130			
Surrogate: p-Terphenyl-d14	*48.6*		µg/L	100		48.6	30-130			

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B212612 - SW-846 3510C										
LCS Dup (B212612-BSD1)				Prepared: 09/14/18 Analyzed: 09/17/18						
Acenaphthene (SIM)	30.8	7.5	µg/L	50.0		61.6	40-140	0.896	20	
Acenaphthylene (SIM)	31.5	5.0	µg/L	50.0		63.0	40-140	1.12	20	
Anthracene (SIM)	33.8	5.0	µg/L	50.0		67.6	40-140	2.17	20	
Benzo(a)anthracene (SIM)	33.6	1.2	µg/L	50.0		67.2	40-140	1.95	20	
Benzo(a)pyrene (SIM)	35.4	2.5	µg/L	50.0		70.9	40-140	1.92	20	
Benzo(b)fluoranthene (SIM)	36.9	1.2	µg/L	50.0		73.8	40-140	2.26	20	
Benzo(g,h,i)perylene (SIM)	34.1	12	µg/L	50.0		68.2	40-140	2.07	20	
Benzo(k)fluoranthene (SIM)	35.4	5.0	µg/L	50.0		70.8	40-140	2.00	20	
Chrysene (SIM)	33.6	5.0	µg/L	50.0		67.2	40-140	2.41	20	
Dibenz(a,h)anthracene (SIM)	34.7	2.5	µg/L	50.0		69.4	40-140	2.11	20	
Fluoranthene (SIM)	32.5	12	µg/L	50.0		65.0	40-140	2.18	20	
Fluorene (SIM)	32.3	25	µg/L	50.0		64.6	40-140	0.856	20	
Indeno(1,2,3-cd)pyrene (SIM)	35.2	2.5	µg/L	50.0		70.5	40-140	2.15	20	‡
Naphthalene (SIM)	27.3	25	µg/L	50.0		54.6	40-140	0.0916	20	
Phenanthrene (SIM)	32.5	1.2	µg/L	50.0		65.0	40-140	2.33	20	
Pyrene (SIM)	32.6	25	µg/L	50.0		65.1	40-140	2.65	20	
Surrogate: Nitrobenzene-d5	*53.4*		µg/L	100		53.4	30-130			
Surrogate: 2-Fluorobiphenyl	*55.9*		µg/L	100		55.9	30-130			
Surrogate: p-Terphenyl-d14	*49.0*		µg/L	100		49.0	30-130			

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B212557 - SW-846 3510C										
Blank (B212557-BLK1)				Prepared: 09/14/18 Analyzed: 09/17/18						
Endosulfan I	ND	0.0050	µg/L							
Endosulfan I [2C]	ND	0.0050	µg/L							
Heptachlor Epoxide	ND	0.0050	µg/L							
Heptachlor Epoxide [2C]	ND	0.0050	µg/L							
Surrogate: Decachlorobiphenyl	*0.133*		µg/L	0.200		66.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.141*		µg/L	0.200		70.6	30-150			
Surrogate: Tetrachloro-m-xylene	*0.131*		µg/L	0.200		65.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.123*		µg/L	0.200		61.6	30-150			
LCS (B212557-BS1)				Prepared: 09/14/18 Analyzed: 09/17/18						
Endosulfan I	0.74	0.050	µg/L	1.00		74.2	45-153			
Endosulfan I [2C]	0.75	0.050	µg/L	1.00		74.8	45-153			
Heptachlor Epoxide	0.70	0.050	µg/L	1.00		70.3	37-142			
Heptachlor Epoxide [2C]	0.70	0.050	µg/L	1.00		70.1	37-142			
Surrogate: Decachlorobiphenyl	*1.54*		µg/L	2.00		76.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.62*		µg/L	2.00		81.2	30-150			
Surrogate: Tetrachloro-m-xylene	*1.27*		µg/L	2.00		63.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.27*		µg/L	2.00		63.4	30-150			
LCS Dup (B212557-BSD1)				Prepared: 09/14/18 Analyzed: 09/17/18						
Endosulfan I	0.85	0.050	µg/L	1.00		85.1	45-153	13.6		
Endosulfan I [2C]	0.85	0.050	µg/L	1.00		84.6	45-153	12.4		
Heptachlor Epoxide	0.84	0.050	µg/L	1.00		84.0	37-142	17.7		
Heptachlor Epoxide [2C]	0.82	0.050	µg/L	1.00		82.4	37-142	16.1		
Surrogate: Decachlorobiphenyl	*1.64*		µg/L	2.00		81.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.73*		µg/L	2.00		86.3	30-150			
Surrogate: Tetrachloro-m-xylene	*1.59*		µg/L	2.00		79.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.52*		µg/L	2.00		75.9	30-150			

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B212485 - SW-846 3510C										
Blank (B212485-BLK1)				Prepared: 09/14/18 Analyzed: 09/17/18						
Aroclor-1016	ND	0.020	µg/L							
Aroclor-1016 [2C]	ND	0.020	µg/L							
Aroclor-1221	ND	0.020	µg/L							
Aroclor-1221 [2C]	ND	0.020	µg/L							
Aroclor-1232	ND	0.020	µg/L							
Aroclor-1232 [2C]	ND	0.020	µg/L							
Aroclor-1242	ND	0.020	µg/L							
Aroclor-1242 [2C]	ND	0.020	µg/L							
Aroclor-1248	ND	0.020	µg/L							
Aroclor-1248 [2C]	ND	0.020	µg/L							
Aroclor-1254	ND	0.020	µg/L							
Aroclor-1254 [2C]	ND	0.020	µg/L							
Aroclor-1260	ND	0.020	µg/L							
Aroclor-1260 [2C]	ND	0.020	µg/L							
Surrogate: Decachlorobiphenyl	*0.132*		µg/L	0.200		66.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.124*		µg/L	0.200		62.0	30-150			
Surrogate: Tetrachloro-m-xylene	*0.141*		µg/L	0.200		70.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.146*		µg/L	0.200		73.2	30-150			
LCS (B212485-BS1)				Prepared: 09/14/18 Analyzed: 09/17/18						
Aroclor-1016	0.48	0.20	µg/L	0.500		96.1	50-140			
Aroclor-1016 [2C]	0.51	0.20	µg/L	0.500		102	50-140			
Aroclor-1260	0.44	0.20	µg/L	0.500		87.3	8-140			
Aroclor-1260 [2C]	0.47	0.20	µg/L	0.500		94.0	8-140			
Surrogate: Decachlorobiphenyl	*1.57*		µg/L	2.00		78.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.49*		µg/L	2.00		74.6	30-150			
Surrogate: Tetrachloro-m-xylene	*1.65*		µg/L	2.00		82.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.75*		µg/L	2.00		87.6	30-150			
LCS Dup (B212485-BSD1)				Prepared: 09/14/18 Analyzed: 09/17/18						
Aroclor-1016	0.44	0.20	µg/L	0.500		87.3	50-140	9.62		
Aroclor-1016 [2C]	0.47	0.20	µg/L	0.500		94.0	50-140	8.02		
Aroclor-1260	0.39	0.20	µg/L	0.500		79.0	8-140	10.1		
Aroclor-1260 [2C]	0.43	0.20	µg/L	0.500		85.2	8-140	9.79		
Surrogate: Decachlorobiphenyl	*1.41*		µg/L	2.00		70.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.34*		µg/L	2.00		66.8	30-150			
Surrogate: Tetrachloro-m-xylene	*1.51*		µg/L	2.00		75.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.62*		µg/L	2.00		80.8	30-150			

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B212552 - EPA 200.7										
Blank (B212552-BLK1)				Prepared: 09/14/18 Analyzed: 09/17/18						
Chromium	ND	0.0070	mg/L							
Zinc	ND	0.010	mg/L							
LCS (B212552-BS1)				Prepared: 09/14/18 Analyzed: 09/17/18						
Chromium	0.528	0.0070	mg/L	0.500		106	85-115			
Zinc	1.04	0.010	mg/L	1.00		104	85-115			
LCS Dup (B212552-BSD1)				Prepared: 09/14/18 Analyzed: 09/17/18						
Chromium	0.557	0.0070	mg/L	0.500		111	85-115	5.32	20	
Zinc	1.10	0.010	mg/L	1.00		110	85-115	5.32	20	
Batch B212554 - EPA 200.8										
Blank (B212554-BLK1)				Prepared: 09/14/18 Analyzed: 09/17/18						
Lead	ND	0.50	µg/L							
LCS (B212554-BS1)				Prepared: 09/14/18 Analyzed: 09/17/18						
Lead	528	5.0	µg/L	500		106	85-115			
LCS Dup (B212554-BSD1)				Prepared: 09/14/18 Analyzed: 09/17/18						
Lead	516	5.0	µg/L	500		103	85-115	2.18	20	

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B212559 - SM21-22 4500 H B										
LCS (B212559-BS1)				Prepared & Analyzed: 09/14/18						
pH	6.02		pH Units	6.00		100	90-110			
Duplicate (B212559-DUP1)	**Source: 18I0618-01**			Prepared & Analyzed: 09/14/18						
pH	8.4		pH Units		8.5			0.450	5	H-05

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

BREAKDOWN REPORT

Lab Sample ID: **S027342-PEM1** **Analyzed:** **09/17/2018**

Column Number: **1**

Analyte	% Breakdown
4,4'-DDT [1]	7.52
Endrin [1]	8.45

Column Number: **2**

Analyte	% Breakdown
4,4'-DDT [2]	9.51
Endrin [2]	10.27

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

EPA 608.3

LCS

Lab Sample ID: B212485-BS1 Date(s) Analyzed 09/17/2018 09/17/2018

Instrument ID (1): ECD5 Instrument ID (2): ECD5

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.48	
	2	0.000	0.000	0.000	0.51	6.1
Aroclor-1260	1	0.000	0.000	0.000	0.44	
	2	0.000	0.000	0.000	0.47	6.6

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

EPA 608.3

LCS Dup

Lab Sample ID: B212485-BSD1 Date(s) Analyzed 09/17/2018 09/17/2018

Instrument ID (1): ECD5 Instrument ID (2): ECD5

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.44	
	2	0.000	0.000	0.000	0.47	6.6
Aroclor-1260	1	0.000	0.000	0.000	0.39	
	2	0.000	0.000	0.000	0.43	7.2

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

EPA 608.3

LCS

Lab Sample ID: B212557-BS1 Date(s) Analyzed 09/17/2018 09/17/2018

Instrument ID (1): ECD2 Instrument ID (2): ECD2

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Endosulfan I	1	6.945	0.000	0.000	0.74	
	2	6.666	0.000	0.000	0.75	1.3
Heptachlor Epoxide	1	6.658	0.000	0.000	0.70	
	2	6.395	0.000	0.000	0.70	0.0

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

EPA 608.3

LCS Dup

Lab Sample ID: B212557-BSD1 Date(s) Analyzed 09/17/2018 09/17/2018

Instrument ID (1): ECD2 Instrument ID (2): ECD2

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Endosulfan I	1	6.945	0.000	0.000	0.85	
	2	6.666	0.000	0.000	0.85	0.0
Heptachlor Epoxide	1	6.659	0.000	0.000	0.84	
	2	6.394	0.000	0.000	0.82	2.4

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
H-05	Holding time was exceeded. pH analysis should be performed immediately at time of sampling. Nominal 15 minute holding time was exceeded.
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
EPA 200.7 in Water	
Chromium	CT,MA,NH,NY,RI,NC,ME,VA
Zinc	CT,MA,NH,NY,RI,NC,ME,VA
EPA 200.8 in Water	
Lead	CT,MA,NH,NY,RI,NC,ME,VA
EPA 608.3 in Water	
Aroclor-1016	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1016 [2C]	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1221	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1221 [2C]	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1232	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1232 [2C]	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1242	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1242 [2C]	CT,MA,NH,NY,RI,NC,ME,VA
Endosulfan I	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1248	CT,MA,NH,NY,RI,NC,ME,VA
Endosulfan I [2C]	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1248 [2C]	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1254	CT,MA,NH,NY,RI,NC,ME,VA
Heptachlor Epoxide	CT,MA,NH,NY,RI,NC,ME,VA
Heptachlor Epoxide [2C]	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1254 [2C]	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1260	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1260 [2C]	CT,MA,NH,NY,RI,NC,ME,VA
EPA 624.1 in Water	
Benzene	CT,NY,RI,NC,MA,NH
Ethylbenzene	CT,NY,RI,NC,MA,NH
Toluene	CT,NY,RI,NC,MA,NH
1,2,4-Trimethylbenzene	MA
Xylenes (total)	NY,MA,NH
m+p Xylene	CT,NY,RI,NC,MA,NH
o-Xylene	CT,NY,RI,NC,MA,NH
SM21-22 4500 H B in Water	
pH	CT,MA,RI
SW-846 8260C in Water	
Benzene	CT,ME,NH,VA,NY
Ethylbenzene	CT,ME,NH,VA,NY
Isopropylbenzene (Cumene)	ME,VA,NY
Toluene	CT,ME,NH,VA,NY
1,2,4-Trimethylbenzene	ME,VA,NY
m+p Xylene	CT,ME,NH,VA,NY
o-Xylene	CT,ME,NH,VA,NY
Xylenes (total)	NY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	03/1/2020
MA	Massachusetts DEP	M-MA100	06/30/2019
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2019
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2019
RI	Rhode Island Department of Health	LAO00112	12/30/2018
NC	North Carolina Div. of Water Quality	652	12/31/2018
NJ	New Jersey DEP	MA007 NELAP	06/30/2019
FL	Florida Department of Health	E871027 NELAP	06/30/2019
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2019
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2018
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2019
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2019
NC-DW	North Carolina Department of Health	25703	07/31/2019

ALB

con-test® ANALYTICAL LABORATORY

18I0618

Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com

http://www.contestlabs.com Doc # 380 Rev 1_03242017

CHAIN OF CUSTODY RECORD (New York)

39 Spruce Street
East Longmeadow, MA 01028

Page _____ of _____

Company Name:	LAND remediation
Address:	74 Hudson River Road Waterford, NY
Phone:	
Project Name:	NYSDEC Saranac Lake Gas Co.
Project Location:	Saranac Lake Construction Water
Project Number:	
Project Manager:	Matthew Warren
Con-Test Quote Name/Number:	
Invoice Recipient:	mjw@land-remediation.com
Sampled By:	Vaughn Nelson, Kyle Jones

Requested Turnaround Time
7-Day ☐ 10-Day ☐
Due Date:

Rush-Approval Required
1-Day ☑ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
CLP Like Data Pkg Required: ☐
Email To: mjw@land-remediation.com
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	BOD-5	TDS	TSS	Oil & Grease 1664	8270 SVOC - PAH SIM	VOC 624.1 - (See Below)	VOC 8260 - Isopropyl Benzene & Toluene Only	608 PCB - 608 Pest - Endosulfan I, Heptachlor Epoxide	Metals- Pb, Zn, Cr.	pH
01	OU2-WWTP-Eff-09	9/14/2018 7:10	9/14/2018 7:14	X		WW	L	x	x	x	x	x		x	x	x	x
02	OU2-WWTP-Eff-09	9/14/2018 7:14	9/14/2018 7:15		x	WW	L						x				

Comments: VOC 624.1 - Benzene, Ethyl Benzene, Xylenes Total, and 124 TMB

48 Hour TAT TDS/TSS ; 5 day TAT BOD and Oil & Grease

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

		Date/Time:
Relinquished by: (signature)		9/14 9:15
Received by: (signature)		9.14.18 9:25
Relinquished by: (signature)		9.14.18 1250
Received by: (signature)		9/14/18 1250
Relinquished by: (signature)		9/14/18 1400
Received by: (signature)	2.4	9.14.18 14:00

Program & Regulatory Information
☐ AWQ STDS ☐ NY TOGS
☐ NYC Sewer Discharge ☐ NY CP-51
☐ Part 360 GW (Landfill)
☐ NY Restricted Use
☐ NY Unrestricted Use
☐ NY Part 375
Other:

Deliverables
☐ Enhanced Data Package
☐ NYSDEC EQuIS EDD
☐ EQuIS (Standard) EDD
☐ NY Regulatory EDD
☐ NY Regs Hits-Only EDD
Other:
NELAC and AIHA LAP, LLC Accredited

Project Entity
☑ Government ☐ Municipality ☐ MWRA ☐ WRTA
☐ Federal ☐ 21 J ☐ School
☐ City ☐ Brownfield ☐ MBTA

Other
☐ Chromatogram
☐ *AIHA-LAP,LLC*

PCB ONLY
☐ Soxhlet
☐ Non Soxhlet

# of Containers
[2] Preservation Code
[3] Container Code

Dissolved Metals Samples
☐ Field Filtered
☐ Lab to Filter

Orthophosphate Samples
☐ Field Filtered
☐ Lab to Filter

[1] Matrix Codes:
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define)

[2] Preservation Codes:
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

[3] Container Codes:
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Table of Contents

I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples_____

con-test® ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client Land Remediation

Received By PB Date 9.14.18 Time 14:50

How were the samples received? In Cooler T No Cooler _____ On Ice T No Ice _____

Direct from Sampling _____ Ambient _____ Melted Ice _____

Were samples within Temperature? 2-6°C T By Gun # 577 Actual Temp -2.4 By Blank # _____ Actual Temp - _____

Was Custody Seal Intact? NA Were Samples Tampered with? NA

Was COC Relinquished ? T Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? T Were samples received within holding time? T

Did COC include all pertinent Information? Client T Analysis T Sampler Name T

Project T ID's T Collection Dates/Times T

Are Sample labels filled out and legible? T

Are there Lab to Filters? F Who was notified? _____

Are there Rushes? T Who was notified? Kayla, Ashley

Are there Short Holds? T Who was notified? ashley

Is there enough Volume? T

Is there Headspace where applicable? NA F MS/MSD? F

Proper Media/Containers Used? T Is splitting samples required? NA F

Were trip blanks received? F On COC? F

Do all samples have the proper pH? Acid T Base _____

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.	6	1 Liter Plastic		16 oz Amb.	
HCL-	3	500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic	1	4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Comments:

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

September 21, 2018

Keith Decker
Land Remediation
74 Hudson River Road
Waterford, NY 12188

Project Location: Saranac Lake
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 18I0621

Enclosed are results of analyses for samples received by the laboratory on September 14, 2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Aaron L. Benoit
Project Manager

Table of Contents

Sample Summary 3

Case Narrative 4

Sample Results 5

18I0621-01 5

Sample Preparation Information 6

QC Data 7

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) 7

B212562 7

B212903 7

Flag/Qualifier Summary 8

Certifications 9

Chain of Custody/Sample Receipt 10

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Land Remediation
74 Hudson River Road
Waterford, NY 12188
ATTN: Keith Decker

REPORT DATE: 9/21/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18I0621

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Saranac Lake

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
OU2-WTP-Eff-09	18I0621-01	Waste Water		EPA 1664B SM 21-22 5210B	

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Lisa A. Worthington
Project Manager

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake | Sample Description: | Work Order: 18I0621

Date Received: 9/14/2018

Field Sample #: OU2-WTP-Eff-09

Sample ID: 18I0621-01 | Start Date/Time: 9/14/2018 7:10:00AM

Sample Matrix: Waste Water | Stop Date/Time: 9/14/2018 7:14:00AM

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Biochemical Oxygen Demand	ND	4.0	mg/L	1		SM 21-22 5210B	9/14/18	9/14/18 19:30	LED
Oil & Grease (HEM)	ND	1.4	mg/L	1		EPA 1664B	9/20/18	9/20/18 12:30	LL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

EPA 1664B

Lab Number [Field ID]	Batch	Initial [mL]	Date
18I0621-01 [OU2-WTP-Eff-09]	B212903	1000	09/20/18

SM 21-22 5210B

Lab Number [Field ID]	Batch	Initial [mL]	Date
18I0621-01 [OU2-WTP-Eff-09]	B212562	150	09/14/18

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B212562 - SM 21-22 5210B										
Blank (B212562-BLK1)				Prepared & Analyzed: 09/14/18						
Biochemical Oxygen Demand	ND	2.0	mg/L							
LCS (B212562-BS1)				Prepared & Analyzed: 09/14/18						
Biochemical Oxygen Demand	190	2.0	mg/L	198		96.6	85-115			
Batch B212903 - EPA 1664B										
Blank (B212903-BLK1)				Prepared & Analyzed: 09/20/18						
Oil & Grease (HEM)	ND	1.4	mg/L							
Blank (B212903-BLK2)				Prepared & Analyzed: 09/20/18						
Oil & Grease (HEM)	ND	56	mg/L							
LCS (B212903-BS1)				Prepared & Analyzed: 09/20/18						
Oil & Grease (HEM)	17		mg/L	20.0		86.0	78-114			
LCS (B212903-BS2)				Prepared & Analyzed: 09/20/18						
Oil & Grease (HEM)	710		mg/L	800		88.5	78-114			

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level

Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.

No results have been blank subtracted unless specified in the case narrative section.

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
EPA 1664B in Water	
Oil & Grease (HEM)	CT,MA,NH,NY,RI,NC,ME,VA
SM 21-22 5210B in Water	
Biochemical Oxygen Demand	CT,MA,NH,NY,RI,ME,VA,NC

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	03/1/2020
MA	Massachusetts DEP	M-MA100	06/30/2019
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2019
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2019
RI	Rhode Island Department of Health	LAO00112	12/30/2018
NC	North Carolina Div. of Water Quality	652	12/31/2018
NJ	New Jersey DEP	MA007 NELAP	06/30/2019
FL	Florida Department of Health	E871027 NELAP	06/30/2019
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2019
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2018
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2019
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2019
NC-DW	North Carolina Department of Health	25703	07/31/2019

con-test ANALYTICAL LABORATORY

181062l

Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com

http://www.contestlabs.com

Doc # 380 Rev 1_03242017

CHAIN OF CUSTODY RECORD (New York)

39 Spruce Street
East Longmeadow, MA 01028

Page ____ of ____

Company Name:	LAND remediation
Address:	74 Hudson River Road Waterford, NY
Phone:	
Project Name:	NYSDEC Saranac Lake Gas Co.
Project Location:	Saranac Lake Construction Water
Project Number:	
Project Manager:	Matthew Warren
Con-Test Quote Name/Number:	
Invoice Recipient:	mjw@land-remediation.com
Sampled By:	Vaughn Nelson, Kyle Jones

Requested Turnaround Time
7-Day ☐ 10-Day ☐
Due Date:

Rush-Approval Required
1-Day ☑ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
CLP Like Data Pkg Required: ☐
Email To: mjw@land-remediation.com
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	BOD-5	TDS	TSS	Oil & Grease 1664	8270 SVOC - PAH SIM	VOC 624.1 - (See Below)	VOC 8260 - isopropyl Benzene & Toluene Only	608 PCB - 608 Pest - Endosulfan I, Heptachlor Epoxide	Metals- Pb, Zn, Cr.	pH	# of Containers	[2] Preservation Code	[3] Container Code
01	OU2-WWTP-Eff-09	9/14/2018 7:10	9/14/2018 7:14	X		WW	L	x	x	x	x	x		x	x	x	x			
02	OU2-WWTP-Eff-09	9/14/2018 7:14	9/14/2018 7:15		x	WW	L						x							

Dissolved Metals Samples
☐ Field Filtered
☐ Lab to Filter

Orthophosphate Samples
☐ Field Filtered
☐ Lab to Filter

Comments: VOC 624.1 - Benzene, Ethyl Benzene, Xylenes Total, and 124 TMB

48 Hour TAT TDS/TSS ; 5 day TAT BOD and Oil & Grease

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define)

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

[3] **Container Codes:**
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

	Date/Time:
Relinquished by: (signature)	9/14 9:15
Received by: (signature)	9-14-18 9:25
Relinquished by: (signature)	9-14-18 1250
Received by: (signature)	9/14/18 1250
Relinquished by: (signature)	9/14/18 1450
Received by: (signature) 2.4	9.14.18 14:50

Program & Regulatory Information
☐ AWQ STDS ☐ NY TOGS
☐ NYC Sewer Discharge ☐ NY CP-51
☐ Part 360 GW (Landfill)
☐ NY Restricted Use
☐ NY Unrestricted Use
☐ NY Part 375

Deliverables
☐ Enhanced Data Package
☐ NYSDEC EQuIS EDD
☐ EQuIS (Standard) EDD
☐ NY Regulatory EDD
☐ NY Regs Hits-Only EDD

Other:

Other:
NELAC and AIHA-LAP, LLC Accredited

Project Entity
☑ Government ☐ Municipality ☐ MWRA ☐ WRTA
☐ Federal ☐ 21 J ☐ School
☐ City ☐ Brownfield ☐ MBTA

Other
☐ Chromatogram
☐ *AIHA-LAP,LLC*

PCB ONLY
☐ Soxhlet
☐ Non Soxhlet

Table of Contents

I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples_____

con-test® ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client Land Remediation

Received By PB Date 9-14-18 Time 14:50

How were the samples received? In Cooler T No Cooler _____ On Ice T No Ice _____

Direct from Sampling _____ Ambient _____ Melted Ice _____

By Gun # 577 Actual Temp - 2.4

Were samples within Temperature? 2-6°C T By Blank # _____ Actual Temp - _____

Was Custody Seal Intact? NA Were Samples Tampered with? NA

Was COC Relinquished ? T Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? T Were samples received within holding time? T

Did COC include all pertinent Information? Client T Analysis T Sampler Name T

Project T ID's T Collection Dates/Times T

Are Sample labels filled out and legible? T

Are there Lab to Filters? F Who was notified? _____

Are there Rushes? F Who was notified? _____

Are there Short Holds? T Who was notified? Ashley

Is there enough Volume? T

Is there Headspace where applicable? NA MS/MSD? F

Proper Media/Containers Used? T Is splitting samples required? F

Were trip blanks received? F On COC? ~~NA~~ F

Do all samples have the proper pH? NA Acid _____ Base _____

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.	2	1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic	1	8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Comments:

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

September 18, 2018

Keith Decker
Land Remediation
74 Hudson River Road
Waterford, NY 12188

Project Location: Saranac Lake
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 18I0619

Enclosed are results of analyses for samples received by the laboratory on September 14, 2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Aaron L. Benoit
Project Manager

Table of Contents

Sample Summary 3

Case Narrative 4

Sample Results 5

18I0619-01 5

Sample Preparation Information 7

QC Data 8

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) 8

B212602 8

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Dissolved) 9

B212601 9

Flag/Qualifier Summary 10

Certifications 11

Chain of Custody/Sample Receipt 12

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Land Remediation
74 Hudson River Road
Waterford, NY 12188
ATTN: Keith Decker

REPORT DATE: 9/18/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18I0619

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Saranac Lake

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
OU2-WTP-Eff-09	18I0619-01	Waste Water		SM21-22 2540C SM21-22 2540D	

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Lisa A. Worthington
Project Manager

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake | Sample Description: | Work Order: 18I0619

Date Received: 9/14/2018

Field Sample #: OU2-WTP-Eff-09

Sample ID: 18I0619-01 | Start Date/Time: 9/14/2018 7:10:00AM

Sample Matrix: Waste Water | Stop Date/Time: 9/14/2018 7:14:00AM

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Suspended Solids	2.0	1.4	mg/L	1		SM21-22 2540D	9/17/18	9/17/18 12:20	LL

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake | Sample Description: | Work Order: 18I0619

Date Received: 9/14/2018

Field Sample #: OU2-WTP-Eff-09

Sample ID: 18I0619-01 | Start Date/Time: 9/14/2018 7:10:00AM

Sample Matrix: Waste Water | Stop Date/Time: 9/14/2018 7:14:00AM

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Dissolved)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Dissolved Solids	180	10	mg/L	1		SM21-22 2540C	9/17/18	9/17/18 13:45	LL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

SM21-22 2540C

Lab Number [Field ID]	Batch	Initial [mL]	Date
18I0619-01 [OU2-WTP-Eff-09]	B212601	50.0	09/17/18

SM21-22 2540D

Lab Number [Field ID]	Batch	Initial [mL]	Date
18I0619-01 [OU2-WTP-Eff-09]	B212602	350	09/17/18

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B212602 - SM21-22 2540D										
Blank (B212602-BLK1)				Prepared & Analyzed: 09/17/18						
Total Suspended Solids	ND	2.5	mg/L							
LCS (B212602-BS1)				Prepared & Analyzed: 09/17/18						
Total Suspended Solids	195	5.0	mg/L	200		97.5	64.3-117			

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Dissolved) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B212601 - SM21-22 2540C										
Blank (B212601-BLK1)				Prepared & Analyzed: 09/17/18						
Total Dissolved Solids	ND	10	mg/L							
LCS (B212601-BS1)				Prepared & Analyzed: 09/17/18						
Total Dissolved Solids	280	10	mg/L	293		96.2	61.4-114			

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level

Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.

No results have been blank subtracted unless specified in the case narrative section.

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SM21-22 2540C in Water	
Total Dissolved Solids	CT,MA,NH,NY,RI,NC,ME,VA
SM21-22 2540D in Water	
Total Suspended Solids	CT,MA,NH,NY,RI,NC,ME,VA

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	03/1/2020
MA	Massachusetts DEP	M-MA100	06/30/2019
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2019
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2019
RI	Rhode Island Department of Health	LAO00112	12/30/2018
NC	North Carolina Div. of Water Quality	652	12/31/2018
NJ	New Jersey DEP	MA007 NELAP	06/30/2019
FL	Florida Department of Health	E871027 NELAP	06/30/2019
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2019
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2018
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2019
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2019
NC-DW	North Carolina Department of Health	25703	07/31/2019

ALB

con-test® ANALYTICAL LABORATORY

18I0619

Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com

http://www.contestlabs.com Doc # 380 Rev 1_03242017

CHAIN OF CUSTODY RECORD (New York)

39 Spruce Street
East Longmeadow, MA 01028

Page _____ of _____

Company Name:	LAND remediation
Address:	74 Hudson River Road Waterford, NY
Phone:	
Project Name:	NYSDEC Saranac Lake Gas Co.
Project Location:	Saranac Lake Construction Water
Project Number:	
Project Manager:	Matthew Warren
Con-Test Quote Name/Number:	
Invoice Recipient:	mjw@land-remediation.com
Sampled By:	Vaughn Nelson, Kyle Jones

Requested Turnaround Time
7-Day ☐ 10-Day ☐
Due Date:

Rush-Approval Required
1-Day ☑ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
CLP Like Data Pkg Required: ☐
Email To: mjw@land-remediation.com
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	BOD-5	TDS	TSS	Oil & Grease 1664	8270 SVOC - PAH SIM	VOC 624.1 - (See Below)	VOC 8260 - Isopropyl Benzene & Toluene Only	608 PCB - 608 Pest - Endosulfan I, Heptachlor Epoxide	Metals- Pb, Zn, Cr.	pH
	OU2-WWTP-Eff-09	9/14/2018 7:10	9/14/2018 7:14	X		WW	L	x	x	x	x	x		x	x	x	x
	OU2-WWTP-Eff-09	9/14/2018 7:14	9/14/2018 7:15		x	WW	L						x				

# of Containers
[2] Preservation Code
[3] Container Code

Dissolved Metals Samples
☐ Field Filtered
☐ Lab to Filter

Orthophosphate Samples
☐ Field Filtered
☐ Lab to Filter

[1] Matrix Codes:
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define)

[2] Preservation Codes:
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

[3] Container Codes:
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Comments: VOC 624.1 - Benzene, Ethyl Benzene, Xylenes Total, and 124 TMB

48 Hour TAT TDS/TSS ; 5 day TAT BOD and Oil & Grease

Please use the following codes to indicate possible sample concentration within the **Conc Code** column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time: 9/14 9:15
Received by: (signature)	Date/Time: 9.14.18 9:25
Relinquished by: (signature)	Date/Time: 9.14.18 1250
eived by: (signature)	Date/Time: 9/14/18 1250
nquished by: (signature)	Date/Time: 9/14/18 1250
eived by: (signature)	Date/Time:

Program & Regulatory Information
☐ AWQ STDS ☐ NY TOGS
☐ NYC Sewer Discharge ☐ NY CP-51
☐ Part 360 GW (Landfill)
☐ NY Restricted Use
☐ NY Unrestricted Use
☐ NY Part 375
Other:

Deliverables
☐ Enhanced Data Package
☐ NYSDEC EQuIS EDD
☐ EQuIS (Standard) EDD
☐ NY Regulatory EDD
☐ NY Regs Hits-Only EDD
Other:
NELAC and AIHA-LAP, LLC Accredited

Project Entity
☑ Government ☐ Municipality ☐ MWRA ☐ WRTA
☐ Federal ☐ 21 J ☐ School
☐ City ☐ Brownfield ☐ MBTA

Other
☐ Chromatogram
☐ *AIHA-LAP,LLC*

PCB ONLY
☐ Soxhlet
☐ Non Soxhlet

Table of Contents

I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples_____

con-test® ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client Land Remediation

Received By PB Date 9.14.18 Time 14:50

How were the samples received? In Cooler T No Cooler ____ On Ice T No Ice ____ Direct from Sampling ____ Ambient ____ Melted Ice ____

Were samples within Temperature? 2-6°C T By Gun # 577 Actual Temp - 2.4 By Blank # ____ Actual Temp - ____

Was Custody Seal Intact? NA Were Samples Tampered with? NA

Was COC Relinquished ? T Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? T Were samples received within holding time? T

Did COC include all pertinent Information? Client T Project T Analysis T ID's T Sampler Name T Collection Dates/Times T

Are Sample labels filled out and legible? T

Are there Lab to Filters? F Who was notified? ____

Are there Rushes? T Who was notified? ashley

Are there Short Holds? T Who was notified? ashley

Is there enough Volume? T

Is there Headspace where applicable? NA MS/MSD? F

Proper Media/Containers Used? T Is splitting samples required? F

Were trip blanks received? F On COC? F

Do all samples have the proper pH? NA Acid ____ Base ____

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic	1	8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Comments:

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

September 21, 2018

Keith Decker
Land Remediation
74 Hudson River Road
Waterford, NY 12188

Project Location: Saranac Lake
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 18I0864

Enclosed are results of analyses for samples received by the laboratory on September 20, 2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Aaron L. Benoit
Project Manager

Table of Contents

Sample Summary 4

Case Narrative 5

Sample Results 6

18I0864-01 6

18I0864-02 11

Sample Preparation Information 13

QC Data 14

Volatile Organic Compounds by GC/MS 14

B212996 14

Volatile Organic Compounds by GC/MS 15

B212995 15

Semivolatile Organic Compounds by GC/MS 16

B213006 16

Organochloride Pesticides by GC/ECD 18

B212947 18

Polychlorinated Biphenyls By GC/ECD 19

B212896 19

Metals Analyses (Total) 20

B212950 20

B212954 20

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) 21

B212980 21

Pesticides Degradation Report 22

Dual Column RPD Report 23

Flag/Qualifier Summary 27

Table of Contents (continued)

Certifications 28

Chain of Custody/Sample Receipt 30

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Land Remediation
74 Hudson River Road
Waterford, NY 12188
ATTN: Keith Decker

REPORT DATE: 9/21/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18I0864

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Saranac Lake

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
OU2-WWTP-Eff-10	18I0864-01	Waste Water		EPA 200.7	
				EPA 200.8	
				EPA 608.3	
				SM21-22 4500 H B	
				SW-846 8270D	
OU2-WTP-Eff-10	18I0864-02	Waste Water		EPA 624.1	
				SW-846 8260C	

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

For method 8270, only PAHs were requested and reported.

SM21-22 4500 H B

Qualifications:

H-05

Holding time was exceeded. pH analysis should be performed immediately at time of sampling. Nominal 15 minute holding time was exceeded.

Analyte & Samples(s) Qualified:

pH

18I0864-01[OU2-WWTP-Eff-10]

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Lisa A. Worthington
Project Manager

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake | Sample Description: | Work Order: 18I0864

Date Received: 9/20/2018

Field Sample #: OU2-WWTP-Eff-10

Sample ID: 18I0864-01 | Start Date/Time: 9/19/2018 1:40:00PM

Sample Matrix: Waste Water | Stop Date/Time: 9/19/2018 1:48:00PM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene (SIM)	ND	0.29	0.058	µg/L	1		SW-846 8270D	9/20/18	9/21/18 10:25	IMR
Acenaphthylene (SIM)	ND	0.19	0.048	µg/L	1		SW-846 8270D	9/20/18	9/21/18 10:25	IMR
Anthracene (SIM)	ND	0.19	0.038	µg/L	1		SW-846 8270D	9/20/18	9/21/18 10:25	IMR
Benzo(a)anthracene (SIM)	ND	0.048	0.048	µg/L	1		SW-846 8270D	9/20/18	9/21/18 10:25	IMR
Benzo(a)pyrene (SIM)	ND	0.096	0.038	µg/L	1		SW-846 8270D	9/20/18	9/21/18 10:25	IMR
Benzo(b)fluoranthene (SIM)	ND	0.048	0.019	µg/L	1		SW-846 8270D	9/20/18	9/21/18 10:25	IMR
Benzo(g,h,i)perylene (SIM)	ND	0.48	0.067	µg/L	1		SW-846 8270D	9/20/18	9/21/18 10:25	IMR
Benzo(k)fluoranthene (SIM)	ND	0.038	0.019	µg/L	1		SW-846 8270D	9/20/18	9/21/18 11:22	IMR
Chrysene (SIM)	ND	0.19	0.029	µg/L	1		SW-846 8270D	9/20/18	9/21/18 10:25	IMR
Dibenz(a,h)anthracene (SIM)	ND	0.096	0.038	µg/L	1		SW-846 8270D	9/20/18	9/21/18 10:25	IMR
Fluoranthene (SIM)	ND	0.48	0.029	µg/L	1		SW-846 8270D	9/20/18	9/21/18 10:25	IMR
Fluorene (SIM)	ND	0.96	0.038	µg/L	1		SW-846 8270D	9/20/18	9/21/18 10:25	IMR
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.096	0.077	µg/L	1		SW-846 8270D	9/20/18	9/21/18 10:25	IMR
Naphthalene (SIM)	ND	0.96	0.067	µg/L	1		SW-846 8270D	9/20/18	9/21/18 10:25	IMR
Phenanthrene (SIM)	ND	0.048	0.038	µg/L	1		SW-846 8270D	9/20/18	9/21/18 10:25	IMR
Pyrene (SIM)	ND	0.96	0.029	µg/L	1		SW-846 8270D	9/20/18	9/21/18 10:25	IMR

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	64.1	30-130		9/21/18 10:25
Nitrobenzene-d5	73.9	30-130		9/21/18 11:22
2-Fluorobiphenyl	70.0	30-130		9/21/18 10:25
2-Fluorobiphenyl	62.1	30-130		9/21/18 11:22
p-Terphenyl-d14	65.0	30-130		9/21/18 10:25
p-Terphenyl-d14	64.5	30-130		9/21/18 11:22

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake | Sample Description: | Work Order: 18I0864

Date Received: 9/20/2018

Field Sample #: OU2-WWTP-Eff-10

Sample ID: 18I0864-01 | Start Date/Time: 9/19/2018 1:40:00PM

Sample Matrix: Waste Water | Stop Date/Time: 9/19/2018 1:48:00PM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Endosulfan I [1]	ND	0.0096	0.00041	µg/L	1		EPA 608.3	9/20/18	9/21/18 11:59	TG
Heptachlor epoxide [1]	ND	0.0096	0.00077	µg/L	1		EPA 608.3	9/20/18	9/21/18 11:59	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	73.5	30-150		9/21/18 11:59
Decachlorobiphenyl [2]	70.4	30-150		9/21/18 11:59
Tetrachloro-m-xylene [1]	65.4	30-150		9/21/18 11:59
Tetrachloro-m-xylene [2]	60.7	30-150		9/21/18 11:59

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake | Sample Description: | Work Order: 18I0864

Date Received: 9/20/2018

Field Sample #: OU2-WWTP-Eff-10

Sample ID: 18I0864-01 | Start Date/Time: 9/19/2018 1:40:00PM

Sample Matrix: Waste Water | Stop Date/Time: 9/19/2018 1:48:00PM

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.038	0.035	µg/L	1		EPA 608.3	9/20/18	9/21/18 10:50	KAL
Aroclor-1221 [1]	ND	0.038	0.031	µg/L	1		EPA 608.3	9/20/18	9/21/18 10:50	KAL
Aroclor-1232 [1]	ND	0.038	0.038	µg/L	1		EPA 608.3	9/20/18	9/21/18 10:50	KAL
Aroclor-1242 [1]	ND	0.038	0.033	µg/L	1		EPA 608.3	9/20/18	9/21/18 10:50	KAL
Aroclor-1248 [1]	ND	0.038	0.037	µg/L	1		EPA 608.3	9/20/18	9/21/18 10:50	KAL
Aroclor-1254 [1]	ND	0.038	0.020	µg/L	1		EPA 608.3	9/20/18	9/21/18 10:50	KAL
Aroclor-1260 [1]	ND	0.038	0.038	µg/L	1		EPA 608.3	9/20/18	9/21/18 10:50	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	66.3	30-150		9/21/18 10:50
Decachlorobiphenyl [2]	81.7	30-150		9/21/18 10:50
Tetrachloro-m-xylene [1]	63.6	30-150		9/21/18 10:50
Tetrachloro-m-xylene [2]	67.4	30-150		9/21/18 10:50

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake | Sample Description: | Work Order: 18I0864

Date Received: 9/20/2018

Field Sample #: OU2-WWTP-Eff-10

Sample ID: 18I0864-01 | Start Date/Time: 9/19/2018 1:40:00PM

Sample Matrix: Waste Water | Stop Date/Time: 9/19/2018 1:48:00PM

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Chromium	ND	0.0070	0.0061	mg/L	1		EPA 200.7	9/20/18	9/21/18 13:02	QNW
Lead	75	0.50	0.14	µg/L	1		EPA 200.8	9/20/18	9/21/18 10:43	WSD
Zinc	ND	0.010	0.0052	mg/L	1		EPA 200.7	9/20/18	9/21/18 13:02	QNW

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake | Sample Description: | Work Order: 18I0864

Date Received: 9/20/2018

Field Sample #: OU2-WWTP-Eff-10

Sample ID: 18I0864-01 | Start Date/Time: 9/19/2018 1:40:00PM

Sample Matrix: Waste Water | Stop Date/Time: 9/19/2018 1:48:00PM

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
pH @21.7°C	8.3		pH Units	1	H-05	SM21-22 4500 H B	9/20/18	9/20/18 18:36	AIA

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake | Sample Description: | Work Order: 18I0864

Date Received: 9/20/2018

Field Sample #: OU2-WTP-Eff-10

Sample ID: 18I0864-02 | Start Date/Time: 9/19/2018 1:48:00PM

Sample Matrix: Waste Water | Stop Date/Time: 9/19/2018 1:50:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Isopropylbenzene (Cumene)	ND	1.0	0.12	µg/L	1		SW-846 8260C	9/21/18	9/21/18 8:55	LBD
Toluene	ND	1.0	0.17	µg/L	1		SW-846 8260C	9/21/18	9/21/18 8:55	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	97.6	70-130		9/21/18 8:55
Toluene-d8	94.5	70-130		9/21/18 8:55
4-Bromofluorobenzene	101	70-130		9/21/18 8:55

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake | Sample Description: | Work Order: 18I0864

Date Received: 9/20/2018

Field Sample #: OU2-WTP-Eff-10

Sample ID: 18I0864-02 | Start Date/Time: 9/19/2018 1:48:00PM

Sample Matrix: Waste Water | Stop Date/Time: 9/19/2018 1:50:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	1.0	0.34	µg/L	1		EPA 624.1	9/21/18	9/21/18 8:55	LBD
Ethylbenzene	ND	2.0	0.37	µg/L	1		EPA 624.1	9/21/18	9/21/18 8:55	LBD
1,2,4-Trimethylbenzene	ND	1.0	0.34	µg/L	1		EPA 624.1	9/21/18	9/21/18 8:55	LBD
Xylenes (total)	ND	3.0		µg/L	1		EPA 624.1	9/21/18	9/21/18 8:55	LBD
m+p Xylene	ND	2.0	0.65	µg/L	1		EPA 624.1	9/21/18	9/21/18 8:55	LBD
o-Xylene	ND	2.0	0.35	µg/L	1		EPA 624.1	9/21/18	9/21/18 8:55	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	97.6	70-130		9/21/18 8:55
Toluene-d8	94.5	70-130		9/21/18 8:55
4-Bromofluorobenzene	101	70-130		9/21/18 8:55

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: EPA 200.7-EPA 200.7

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18I0864-01 [OU2-WWTP-Eff-10]	B212950	50.0	50.0	09/20/18

Prep Method: EPA 200.8-EPA 200.8

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18I0864-01 [OU2-WWTP-Eff-10]	B212954	50.0	50.0	09/20/18

Prep Method: SW-846 3510C-EPA 608.3

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18I0864-01 [OU2-WWTP-Eff-10]	B212896	1040	2.00	09/20/18

Prep Method: SW-846 3510C-EPA 608.3

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18I0864-01 [OU2-WWTP-Eff-10]	B212947	1040	2.00	09/20/18

Prep Method: SW-846 5030B-EPA 624.1

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18I0864-02 [OU2-WTP-Eff-10]	B212995	5	5.00	09/21/18

SM21-22 4500 H B

Lab Number [Field ID]	Batch	Initial [mL]	Date
18I0864-01 [OU2-WWTP-Eff-10]	B212980	50.0	09/20/18

Prep Method: SW-846 5030B-SW-846 8260C

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18I0864-02 [OU2-WTP-Eff-10]	B212996	5	5.00	09/21/18

Prep Method: SW-846 3510C-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18I0864-01 [OU2-WWTP-Eff-10]	B213006	1040	1.00	09/20/18
18I0864-01RE1 [OU2-WWTP-Eff-10]	B213006	1040	0.200	09/20/18

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B212996 - SW-846 5030B										
Blank (B212996-BLK1)				Prepared & Analyzed: 09/21/18						
Isopropylbenzene (Cumene)	ND	1.0	µg/L							
Toluene	ND	1.0	µg/L							
Surrogate: 1,2-Dichloroethane-d4	*23.8*		µg/L	25.0		95.1	70-130			
Surrogate: Toluene-d8	*24.4*		µg/L	25.0		97.4	70-130			
Surrogate: 4-Bromofluorobenzene	*26.0*		µg/L	25.0		104	70-130			
LCS (B212996-BS1)				Prepared & Analyzed: 09/21/18						
Isopropylbenzene (Cumene)	20.8	1.0	µg/L	20.0		104	70-130			
Toluene	19.3	1.0	µg/L	20.0		96.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	*24.5*		µg/L	25.0		97.9	70-130			
Surrogate: Toluene-d8	*24.4*		µg/L	25.0		97.8	70-130			
Surrogate: 4-Bromofluorobenzene	*25.8*		µg/L	25.0		103	70-130			
LCS Dup (B212996-BSD1)				Prepared & Analyzed: 09/21/18						
Isopropylbenzene (Cumene)	20.8	1.0	µg/L	20.0		104	70-130	0.481	25	
Toluene	20.0	1.0	µg/L	20.0		100	70-130	3.66	25	
Surrogate: 1,2-Dichloroethane-d4	*24.9*		µg/L	25.0		99.6	70-130			
Surrogate: Toluene-d8	*24.4*		µg/L	25.0		97.8	70-130			
Surrogate: 4-Bromofluorobenzene	*25.8*		µg/L	25.0		103	70-130			

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B212995 - SW-846 5030B										
Blank (B212995-BLK1)				Prepared & Analyzed: 09/21/18						
Benzene	ND	1.0	µg/L							
Ethylbenzene	ND	2.0	µg/L							
1,2,4-Trimethylbenzene	ND	1.0	µg/L							
Xylenes (total)	ND	3.0	µg/L							
m+p Xylene	ND	2.0	µg/L							
o-Xylene	ND	2.0	µg/L							
Surrogate: 1,2-Dichloroethane-d4	*23.8*		µg/L	25.0		95.1	70-130			
Surrogate: Toluene-d8	*24.4*		µg/L	25.0		97.4	70-130			
Surrogate: 4-Bromofluorobenzene	*26.0*		µg/L	25.0		104	70-130			
LCS (B212995-BS1)				Prepared & Analyzed: 09/21/18						
Benzene	19.1	1.0	µg/L	20.0		95.6	65-135			
Ethylbenzene	20.2	2.0	µg/L	20.0		101	60-140			
1,2,4-Trimethylbenzene	20.0	1.0	µg/L	20.0		99.8	70-130			
m+p Xylene	41.4	2.0	µg/L	40.0		104	70-130			
o-Xylene	20.8	2.0	µg/L	20.0		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	*24.9*		µg/L	25.0		99.6	70-130			
Surrogate: Toluene-d8	*24.4*		µg/L	25.0		97.8	70-130			
Surrogate: 4-Bromofluorobenzene	*25.8*		µg/L	25.0		103	70-130			

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B213006 - SW-846 3510C										
Blank (B213006-BLK1)				Prepared: 09/20/18 Analyzed: 09/21/18						
Acenaphthene (SIM)	ND	0.30	µg/L							
Acenaphthylene (SIM)	ND	0.20	µg/L							
Anthracene (SIM)	ND	0.20	µg/L							
Benzo(a)anthracene (SIM)	ND	0.050	µg/L							
Benzo(a)pyrene (SIM)	ND	0.10	µg/L							
Benzo(b)fluoranthene (SIM)	ND	0.050	µg/L							
Benzo(g,h,i)perylene (SIM)	ND	0.50	µg/L							
Chrysene (SIM)	ND	0.20	µg/L							
Dibenz(a,h)anthracene (SIM)	ND	0.10	µg/L							
Fluoranthene (SIM)	ND	0.50	µg/L							
Fluorene (SIM)	ND	1.0	µg/L							
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.10	µg/L							
Naphthalene (SIM)	ND	1.0	µg/L							
Phenanthrene (SIM)	ND	0.050	µg/L							
Pyrene (SIM)	ND	1.0	µg/L							
Surrogate: Nitrobenzene-d5	*70.0*		µg/L	100		70.0	30-130			
Surrogate: 2-Fluorobiphenyl	*71.2*		µg/L	100		71.2	30-130			
Surrogate: p-Terphenyl-d14	*73.7*		µg/L	100		73.7	30-130			
Blank (B213006-BLK2)				Prepared: 09/20/18 Analyzed: 09/21/18						
Benzo(k)fluoranthene (SIM)	ND	0.040	µg/L							
Surrogate: Nitrobenzene-d5	*79.3*		µg/L	100		79.3	30-130			
Surrogate: 2-Fluorobiphenyl	*62.0*		µg/L	100		62.0	30-130			
Surrogate: p-Terphenyl-d14	*70.5*		µg/L	100		70.5	30-130			
LCS (B213006-BS1)				Prepared: 09/20/18 Analyzed: 09/21/18						
Acenaphthene (SIM)	28.5	7.5	µg/L	50.0		57.0	40-140			
Acenaphthylene (SIM)	28.8	5.0	µg/L	50.0		57.6	40-140			
Anthracene (SIM)	31.2	5.0	µg/L	50.0		62.4	40-140			
Benzo(a)anthracene (SIM)	30.5	1.2	µg/L	50.0		61.0	40-140			
Benzo(a)pyrene (SIM)	31.8	2.5	µg/L	50.0		63.7	40-140			
Benzo(b)fluoranthene (SIM)	34.0	1.2	µg/L	50.0		68.0	40-140			
Benzo(g,h,i)perylene (SIM)	30.5	12	µg/L	50.0		61.0	40-140			
Benzo(k)fluoranthene (SIM)	32.6	5.0	µg/L	50.0		65.2	40-140			
Chrysene (SIM)	31.0	5.0	µg/L	50.0		62.0	40-140			
Dibenz(a,h)anthracene (SIM)	31.3	2.5	µg/L	50.0		62.6	40-140			
Fluoranthene (SIM)	30.0	12	µg/L	50.0		60.0	40-140			
Fluorene (SIM)	30.4	25	µg/L	50.0		60.8	40-140			
Indeno(1,2,3-cd)pyrene (SIM)	31.3	2.5	µg/L	50.0		62.6	40-140			
Naphthalene (SIM)	25.7	25	µg/L	50.0		51.4	40-140			
Phenanthrene (SIM)	29.9	1.2	µg/L	50.0		59.8	40-140			
Pyrene (SIM)	30.0	25	µg/L	50.0		60.1	40-140			
Surrogate: Nitrobenzene-d5	*51.1*		µg/L	100		51.1	30-130			
Surrogate: 2-Fluorobiphenyl	*48.7*		µg/L	100		48.7	30-130			
Surrogate: p-Terphenyl-d14	*42.0*		µg/L	100		42.0	30-130			

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B213006 - SW-846 3510C										
LCS Dup (B213006-BSD1)				Prepared: 09/20/18 Analyzed: 09/21/18						
Acenaphthene (SIM)	32.2	7.5	µg/L	50.0		64.4	40-140	12.2	20	
Acenaphthylene (SIM)	32.7	5.0	µg/L	50.0		65.4	40-140	12.8	20	
Anthracene (SIM)	34.9	5.0	µg/L	50.0		69.8	40-140	11.2	20	
Benzo(a)anthracene (SIM)	34.0	1.2	µg/L	50.0		68.0	40-140	10.9	20	
Benzo(a)pyrene (SIM)	35.7	2.5	µg/L	50.0		71.4	40-140	11.4	20	
Benzo(b)fluoranthene (SIM)	37.9	1.2	µg/L	50.0		75.8	40-140	10.8	20	
Benzo(g,h,i)perylene (SIM)	33.9	12	µg/L	50.0		67.8	40-140	10.6	20	
Benzo(k)fluoranthene (SIM)	36.6	5.0	µg/L	50.0		73.2	40-140	11.5	20	
Chrysene (SIM)	34.4	5.0	µg/L	50.0		68.8	40-140	10.5	20	
Dibenz(a,h)anthracene (SIM)	34.8	2.5	µg/L	50.0		69.6	40-140	10.6	20	
Fluoranthene (SIM)	33.7	12	µg/L	50.0		67.4	40-140	11.6	20	
Fluorene (SIM)	34.6	25	µg/L	50.0		69.2	40-140	12.8	20	
Indeno(1,2,3-cd)pyrene (SIM)	34.9	2.5	µg/L	50.0		69.8	40-140	11.0	20	‡
Naphthalene (SIM)	29.3	25	µg/L	50.0		58.6	40-140	13.3	20	
Phenanthrene (SIM)	33.4	1.2	µg/L	50.0		66.7	40-140	10.9	20	
Pyrene (SIM)	33.3	25	µg/L	50.0		66.6	40-140	10.3	20	
Surrogate: Nitrobenzene-d5	*56.4*		µg/L	100		56.4	30-130			
Surrogate: 2-Fluorobiphenyl	*54.8*		µg/L	100		54.8	30-130			
Surrogate: p-Terphenyl-d14	*47.2*		µg/L	100		47.2	30-130			

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B212947 - SW-846 3510C										
Blank (B212947-BLK1)				Prepared: 09/20/18 Analyzed: 09/21/18						
Endosulfan I	ND	0.010	µg/L							
Endosulfan I [2C]	ND	0.010	µg/L							
Heptachlor Epoxide	ND	0.010	µg/L							
Heptachlor Epoxide [2C]	ND	0.010	µg/L							
Surrogate: Decachlorobiphenyl	*0.282*		µg/L	0.400		70.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.269*		µg/L	0.400		67.2	30-150			
Surrogate: Tetrachloro-m-xylene	*0.285*		µg/L	0.400		71.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.263*		µg/L	0.400		65.7	30-150			
LCS (B212947-BS1)				Prepared: 09/20/18 Analyzed: 09/21/18						
Endosulfan I	0.75	0.050	µg/L	1.00		74.6	45-153			
Endosulfan I [2C]	0.71	0.050	µg/L	1.00		70.5	45-153			
Heptachlor Epoxide	0.74	0.050	µg/L	1.00		74.3	37-142			
Heptachlor Epoxide [2C]	0.70	0.050	µg/L	1.00		69.7	37-142			
Surrogate: Decachlorobiphenyl	*1.47*		µg/L	2.00		73.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.40*		µg/L	2.00		70.0	30-150			
Surrogate: Tetrachloro-m-xylene	*1.32*		µg/L	2.00		65.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.23*		µg/L	2.00		61.5	30-150			
LCS Dup (B212947-BSD1)				Prepared: 09/20/18 Analyzed: 09/21/18						
Endosulfan I	0.71	0.050	µg/L	1.00		71.5	45-153	4.19		
Endosulfan I [2C]	0.68	0.050	µg/L	1.00		67.6	45-153	4.18		
Heptachlor Epoxide	0.73	0.050	µg/L	1.00		72.5	37-142	2.39		
Heptachlor Epoxide [2C]	0.67	0.050	µg/L	1.00		66.6	37-142	4.56		
Surrogate: Decachlorobiphenyl	*1.44*		µg/L	2.00		72.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.37*		µg/L	2.00		68.5	30-150			
Surrogate: Tetrachloro-m-xylene	*1.27*		µg/L	2.00		63.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.18*		µg/L	2.00		59.0	30-150			

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B212896 - SW-846 3510C										
Blank (B212896-BLK1)				Prepared: 09/20/18 Analyzed: 09/21/18						
Aroclor-1016	ND	0.040	µg/L							
Aroclor-1016 [2C]	ND	0.040	µg/L							
Aroclor-1221	ND	0.040	µg/L							
Aroclor-1221 [2C]	ND	0.040	µg/L							
Aroclor-1232	ND	0.040	µg/L							
Aroclor-1232 [2C]	ND	0.040	µg/L							
Aroclor-1242	ND	0.040	µg/L							
Aroclor-1242 [2C]	ND	0.040	µg/L							
Aroclor-1248	ND	0.040	µg/L							
Aroclor-1248 [2C]	ND	0.040	µg/L							
Aroclor-1254	ND	0.040	µg/L							
Aroclor-1254 [2C]	ND	0.040	µg/L							
Aroclor-1260	ND	0.040	µg/L							
Aroclor-1260 [2C]	ND	0.040	µg/L							
Surrogate: Decachlorobiphenyl	*0.291*		µg/L	0.400		72.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.343*		µg/L	0.400		85.8	30-150			
Surrogate: Tetrachloro-m-xylene	*0.278*		µg/L	0.400		69.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.291*		µg/L	0.400		72.7	30-150			
LCS (B212896-BS1)				Prepared: 09/20/18 Analyzed: 09/21/18						
Aroclor-1016	0.43	0.20	µg/L	0.500		86.3	50-140			
Aroclor-1016 [2C]	0.43	0.20	µg/L	0.500		86.3	50-140			
Aroclor-1260	0.43	0.20	µg/L	0.500		86.0	8-140			
Aroclor-1260 [2C]	0.45	0.20	µg/L	0.500		90.6	8-140			
Surrogate: Decachlorobiphenyl	*1.50*		µg/L	2.00		75.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.77*		µg/L	2.00		88.6	30-150			
Surrogate: Tetrachloro-m-xylene	*1.32*		µg/L	2.00		66.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.37*		µg/L	2.00		68.6	30-150			
LCS Dup (B212896-BSD1)				Prepared: 09/20/18 Analyzed: 09/21/18						
Aroclor-1016	0.42	0.20	µg/L	0.500		84.9	50-140	1.61		
Aroclor-1016 [2C]	0.43	0.20	µg/L	0.500		86.8	50-140	0.566		
Aroclor-1260	0.43	0.20	µg/L	0.500		85.3	8-140	0.871		
Aroclor-1260 [2C]	0.44	0.20	µg/L	0.500		88.8	8-140	2.05		
Surrogate: Decachlorobiphenyl	*1.04*		µg/L	2.00		52.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.24*		µg/L	2.00		61.8	30-150			
Surrogate: Tetrachloro-m-xylene	*1.31*		µg/L	2.00		65.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.37*		µg/L	2.00		68.4	30-150			

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B212950 - EPA 200.7										
Blank (B212950-BLK1)				Prepared: 09/20/18 Analyzed: 09/21/18						
Chromium	ND	0.0070	mg/L							
Zinc	ND	0.010	mg/L							
LCS (B212950-BS1)				Prepared: 09/20/18 Analyzed: 09/21/18						
Chromium	0.510	0.0070	mg/L	0.500		102	85-115			
Zinc	1.04	0.010	mg/L	1.00		104	85-115			
LCS Dup (B212950-BSD1)				Prepared: 09/20/18 Analyzed: 09/21/18						
Chromium	0.494	0.0070	mg/L	0.500		98.9	85-115	3.21	20	
Zinc	1.00	0.010	mg/L	1.00		100	85-115	3.91	20	
Duplicate (B212950-DUP1)	**Source: 18I0864-01**			Prepared: 09/20/18 Analyzed: 09/21/18						
Chromium	ND	0.0070	mg/L		ND			NC	20	
Zinc	ND	0.010	mg/L		ND			NC	20	
Matrix Spike (B212950-MS1)	**Source: 18I0864-01**			Prepared: 09/20/18 Analyzed: 09/21/18						
Chromium	0.493	0.0070	mg/L	0.500	ND	98.6	70-130			
Zinc	1.01	0.010	mg/L	1.00	ND	101	70-130			
Batch B212954 - EPA 200.8										
Blank (B212954-BLK1)				Prepared: 09/20/18 Analyzed: 09/21/18						
Lead	0.26	0.50	µg/L							J
LCS (B212954-BS1)				Prepared: 09/20/18 Analyzed: 09/21/18						
Lead	566	5.0	µg/L	500		113	85-115			
LCS Dup (B212954-BSD1)				Prepared: 09/20/18 Analyzed: 09/21/18						
Lead	542	5.0	µg/L	500		108	85-115	4.40	20	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B212980 - SM21-22 4500 H B										
LCS (B212980-BS1)				Prepared & Analyzed: 09/20/18						
pH	6.04		pH Units	6.00		101	90-110			

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

BREAKDOWN REPORT

Lab Sample ID: **S027494-PEM1** **Analyzed:** **09/21/2018**

Column Number: **1**

Analyte	% Breakdown
4,4'-DDT [1]	0.76
Endrin [1]	2.23

Column Number: **2**

Analyte	% Breakdown
4,4'-DDT [2]	1.07
Endrin [2]	2.60

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

EPA 608.3

LCS

Lab Sample ID: B212896-BS1 Date(s) Analyzed 09/21/2018 09/21/2018

Instrument ID (1): ECD4 Instrument ID (2): ECD4

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.43	
	2	0.000	0.000	0.000	0.43	0.0
Aroclor-1260	1	0.000	0.000	0.000	0.43	
	2	0.000	0.000	0.000	0.45	4.6

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

EPA 608.3

LCS Dup

Lab Sample ID: B212896-BSD1 Date(s) Analyzed 09/21/2018 09/21/2018

Instrument ID (1): ECD4 Instrument ID (2): ECD4

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.42	
	2	0.000	0.000	0.000	0.43	2.4
Aroclor-1260	1	0.000	0.000	0.000	0.43	
	2	0.000	0.000	0.000	0.44	2.3

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

EPA 608.3

LCS

Lab Sample ID: B212947-BS1 Date(s) Analyzed 09/21/2018 09/21/2018

Instrument ID (1): ECD2 Instrument ID (2): ECD2

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Endosulfan I	1	6.881	0.000	0.000	0.75	
	2	6.604	0.000	0.000	0.71	5.5
Heptachlor Epoxide	1	6.597	0.000	0.000	0.74	
	2	6.335	0.000	0.000	0.70	5.6

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

EPA 608.3

LCS Dup

Lab Sample ID: B212947-BSD1 Date(s) Analyzed 09/21/2018 09/21/2018

Instrument ID (1): ECD2 Instrument ID (2): ECD2

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Endosulfan I	1	6.881	0.000	0.000	0.71	
	2	6.603	0.000	0.000	0.68	5.7
Heptachlor Epoxide	1	6.598	0.000	0.000	0.73	
	2	6.334	0.000	0.000	0.67	8.6

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
H-05	Holding time was exceeded. pH analysis should be performed immediately at time of sampling. Nominal 15 minute holding time was exceeded.
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
EPA 200.7 in Water	
Chromium	CT,MA,NH,NY,RI,NC,ME,VA
Zinc	CT,MA,NH,NY,RI,NC,ME,VA
EPA 200.8 in Water	
Lead	CT,MA,NH,NY,RI,NC,ME,VA
EPA 608.3 in Water	
Aroclor-1016	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1016 [2C]	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1221	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1221 [2C]	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1232	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1232 [2C]	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1242	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1242 [2C]	CT,MA,NH,NY,RI,NC,ME,VA
Endosulfan I	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1248	CT,MA,NH,NY,RI,NC,ME,VA
Endosulfan I [2C]	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1248 [2C]	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1254	CT,MA,NH,NY,RI,NC,ME,VA
Heptachlor Epoxide	CT,MA,NH,NY,RI,NC,ME,VA
Heptachlor Epoxide [2C]	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1254 [2C]	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1260	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1260 [2C]	CT,MA,NH,NY,RI,NC,ME,VA
EPA 624.1 in Water	
Benzene	CT,NY,RI,NC,MA,NH
Ethylbenzene	CT,NY,RI,NC,MA,NH
Toluene	CT,NY,RI,NC,MA,NH
1,2,4-Trimethylbenzene	MA
Xylenes (total)	NY,MA,NH
m+p Xylene	CT,NY,RI,NC,MA,NH
o-Xylene	CT,NY,RI,NC,MA,NH
SM21-22 4500 H B in Water	
pH	CT,MA,RI
SW-846 8260C in Water	
Benzene	CT,ME,NH,VA,NY
Ethylbenzene	CT,ME,NH,VA,NY
Isopropylbenzene (Cumene)	ME,VA,NY
Toluene	CT,ME,NH,VA,NY
1,2,4-Trimethylbenzene	ME,VA,NY
m+p Xylene	CT,ME,NH,VA,NY
o-Xylene	CT,ME,NH,VA,NY
Xylenes (total)	NY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	03/1/2020
MA	Massachusetts DEP	M-MA100	06/30/2019
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2019
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2019
RI	Rhode Island Department of Health	LAO00112	12/30/2018
NC	North Carolina Div. of Water Quality	652	12/31/2018
NJ	New Jersey DEP	MA007 NELAP	06/30/2019
FL	Florida Department of Health	E871027 NELAP	06/30/2019
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2019
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2018
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2019
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2019
NC-DW	North Carolina Department of Health	25703	07/31/2019

1810864

con-test ANALYTICAL LABORATORY

Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com

http://www.contestlabs.com

Doc # 380 Rev 1_03242017

CHAIN OF CUSTODY RECORD (New York)

39 Spruce Street
East Longmeadow, MA 01028

Page _____ of _____

Company Name:	LAND remediation
Address:	74 Hudson River Road Waterford, NY
Phone:	
Project Name:	NYSDEC Saranac Lake Gas Co.
Project Location:	Saranac Lake Construction Water
Project Number:	
Project Manager:	Matthew Warren
Con-Test Quote Name/Number:	
Invoice Recipient:	mjw@land-remediation.com
Sampled By:	Vaughn Nelson, Kyle Jones

Requested Turnaround Time
7-Day ☐ 10-Day ☐
Due Date:

Rush-Approval Required
1-Day ☑ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
CLP Like Data Pkg Required: ☐
Email To: mjw@land-remediation.com
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	BOD-5	TDS	TSS	Oil & Grease 1664	8270 SVOC - PAH SIM	VOC 624.1 - (See Below)	VOC 8260 - Isopropyl Benzene & Toluene Only	608 PCB - 608 Pest - Endosulfan I, Heptachlor Epoxide	Metals- Pb, Zn, Cr.	pH	# of Containers	[2] Preservation Code	[3] Container Code
1	OU2-WWTP-Eff-10	9/19/2018 13:40	9/19/2018 13:48	X		WW	L	x	x	x	x	x		x	x	x	x			
2	OU2-WWTP-Eff-10	9/19/2018 13:48	9/19/2018 13:50		x	WW	L						x							

Dissolved Metals Samples
☐ Field Filtered
☐ Lab to Filter

Orthophosphate Samples
☐ Field Filtered
☐ Lab to Filter

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define)

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

[3] **Container Codes:**
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Comments: VOC 624.1 - Benzene, Ethyl Benzene, Xylenes Total, and 124 TMB

48 Hour TAT TDS/TSS ; 5 day TAT BOD and Oil & Grease

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)		Date/Time: 9/19 15:00
Received by: (signature)	4.5	Date/Time: 9/20/18 9/16
Relinquished by: (signature)		Date/Time:
eived by: (signature)		Date/Time:
nquished by: (signature)		Date/Time:
eived by: (signature)		Date/Time:

Program & Regulatory Information
☐ AWQ STDS ☐ NY TOGS
☐ NYC Sewer Discharge ☐ NY CP-51
☐ Part 360 GW (Landfill)
☐ NY Restricted Use
☐ NY Unrestricted Use
☐ NY Part 375

Deliverables
☐ Enhanced Data Package
☐ NYSDEC EQuIS EDD
☐ EQuIS (Standard) EDD
☐ NY Regulatory EDD
☐ NY Regs Hits-Only EDD

Other:

Other:
NELAC and AIHA-LAP, LLC Accredited

Project Entity
☑ Government ☐ Municipality ☐ MWRA ☐ WRTA
☐ Federal ☐ 21 J ☐ School
☐ City ☐ Brownfield ☐ MBTA

Other
☐ Chromatogram
☐ *AIHA-LAP,LLC*

PCB ONLY
☐ Soxhlet
☐ Non Soxhlet

Table of Contents

Sign In

TRACK ANOTHER SHIPMENT

858841565813

Delivered
Thursday 9/20/2018 at 9:16 am

DELIVERED

Signed for by: P.BLAKE

GET STATUS UPDATES

OBTAIN PROOF OF DELIVERY

FROM

SAR US

TO

EAST LONGMEADOW, MA US

Travel History | Multiple-piece Shipment | Shipment

9/20/2018 - Thursday	9:16 am	Delivered MA

Expand History

9/19/2018 - Wednesday	4:05 pm	Picked up PLATTSBURGH, NY

Ask FedEx

OUR COMPANY

About FedEx
Our Portfolio
Investor Relations
Careers
FedEx Blog
Corporate Responsibility
Newsroom
Contact Us

MORE FROM FEDEX

FedEx Compatible
Developer Resource Center
FedEx Cross Border

LANGUAGE

Change Country

English

I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples_____

con-test® ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client LAND Remediation

Received By RAP Date 9/19/18 Time 916

How were the samples received? In Cooler T No Cooler _____ On Ice T No Ice _____ Direct from Sampling _____ Ambient _____ Melted Ice _____

Were samples within Temperature? 2-6°C T By Gun # 557 Actual Temp - 4.5 By Blank # _____ Actual Temp - _____

Was Custody Seal Intact? NA Were Samples Tampered with? NA

Was COC Relinquished ? T Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? T Were samples received within holding time? T

Did COC include all pertinent Information? Client T Analysis T Sampler Name T Project T ID's T Collection Dates/Times T

Are Sample labels filled out and legible? T

Are there Lab to Filters? F Who was notified? _____

Are there Rushes? T Who was notified? Irma, devin, lauren

Are there Short Holds? T Who was notified? Irma

Is there enough Volume? T

Is there Headspace where applicable? F MS/MSD? F

Proper Media/Containers Used? T Is splitting samples required? F

Were trip blanks received? F On COC? F

Do all samples have the proper pH? Acid _____ Base _____

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.	5	1 Liter Plastic		16 oz Amb.	
HCL-	3	500 mL Amb.		500 mL Plastic	1	8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic	1	4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Comments:

One of the unpreserved ambers was received shattered.

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

September 27, 2018

Keith Decker
Land Remediation
74 Hudson River Road
Waterford, NY 12188

Project Location: Saranac Lake
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 18I0867

Enclosed are results of analyses for samples received by the laboratory on September 20, 2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Aaron L. Benoit
Project Manager

Table of Contents

Sample Summary 3

Case Narrative 4

Sample Results 5

18I0867-01 5

Sample Preparation Information 6

QC Data 7

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) 7

B212985 7

B213203 7

Flag/Qualifier Summary 8

Certifications 9

Chain of Custody/Sample Receipt 10

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Land Remediation
74 Hudson River Road
Waterford, NY 12188
ATTN: Keith Decker

REPORT DATE: 9/27/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18I0867

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Saranac Lake

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
OU2-WWTP-Eff-10	18I0867-01	Waste Water		EPA 1664B SM 21-22 5210B	

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Lisa A. Worthington
Project Manager

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake | Sample Description: | Work Order: 18I0867

Date Received: 9/20/2018

Field Sample #: OU2-WWTP-Eff-10

Sample ID: 18I0867-01 | Start Date/Time: 9/19/2018 1:40:00PM

Sample Matrix: Waste Water | Stop Date/Time: 9/19/2018 1:48:00PM

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Biochemical Oxygen Demand	ND	4.0	mg/L	1		SM 21-22 5210B	9/20/18	9/20/18 16:17	LED
Oil & Grease (HEM)	ND	1.4	mg/L	1		EPA 1664B	9/25/18	9/25/18 13:15	LL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

EPA 1664B

Lab Number [Field ID]	Batch	Initial [mL]	Date
18I0867-01 [OU2-WWTP-Eff-10]	B213203	1000	09/25/18

SM 21-22 5210B

Lab Number [Field ID]	Batch	Initial [mL]	Date
18I0867-01 [OU2-WWTP-Eff-10]	B212985	150	09/20/18

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B212985 - SM 21-22 5210B										
Blank (B212985-BLK1)				Prepared & Analyzed: 09/20/18						
Biochemical Oxygen Demand	ND	2.0	mg/L							
LCS (B212985-BS1)				Prepared & Analyzed: 09/20/18						
Biochemical Oxygen Demand	200	2.0	mg/L	198		98.7	85-115			
Batch B213203 - EPA 1664B										
Blank (B213203-BLK1)				Prepared & Analyzed: 09/25/18						
Oil & Grease (HEM)	ND	1.4	mg/L							
Blank (B213203-BLK2)				Prepared & Analyzed: 09/25/18						
Oil & Grease (HEM)	ND	56	mg/L							
LCS (B213203-BS1)				Prepared & Analyzed: 09/25/18						
Oil & Grease (HEM)	20		mg/L	20.0		98.5	78-114			
LCS (B213203-BS2)				Prepared & Analyzed: 09/25/18						
Oil & Grease (HEM)	730		mg/L	800		91.0	78-114			

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level

Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.

No results have been blank subtracted unless specified in the case narrative section.

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
EPA 1664B in Water	
Oil & Grease (HEM)	CT,MA,NH,NY,RI,NC,ME,VA
SM 21-22 5210B in Water	
Biochemical Oxygen Demand	CT,MA,NH,NY,RI,ME,VA,NC

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	03/1/2020
MA	Massachusetts DEP	M-MA100	06/30/2019
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2019
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2019
RI	Rhode Island Department of Health	LAO00112	12/30/2018
NC	North Carolina Div. of Water Quality	652	12/31/2018
NJ	New Jersey DEP	MA007 NELAP	06/30/2019
FL	Florida Department of Health	E871027 NELAP	06/30/2019
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2019
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2018
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2019
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2019
NC-DW	North Carolina Department of Health	25703	07/31/2019

1810867

con-test® ANALYTICAL LABORATORY

Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com

http://www.contestlabs.com

Doc # 380 Rev 1_03242017

CHAIN OF CUSTODY RECORD (New York)

39 Spruce Street
East Longmeadow, MA 01028

Page _____ of _____

Company Name:	LAND remediation
Address:	74 Hudson River Road Waterford, NY
Phone:	
Project Name:	NYSDEC Saranac Lake Gas Co.
Project Location:	Saranac Lake Construction Water
Project Number:	
Project Manager:	Matthew Warren
Con-Test Quote Name/Number:	
Invoice Recipient:	mjw@land-remediation.com
Sampled By:	Vaughn Nelson, Kyle Jones

Requested Turnaround Time
7-Day ☐ 10-Day ☐
Due Date:

Rush Approval Required
1-Day ☑ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
CLP Like Data Pkg Required: ☐
Email To: mjw@land-remediation.com
Fax To #:

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	BOD-5	TDS	TSS	Oil & Grease 1664	8270 SVOC - PAH SIM	VOC 624.1 - (See Below)	VOC 8260 - Isopropyl Benzene & Toluene Only	608 PCB - 608 Pest - Endosulfan I, Heptachlor Epoxide	Metals- Pb, Zn, Cr.	pH	# of Containers	[2] Preservation Code	[3] Container Code
1	OU2-WWTP-Eff-10	9/19/2018 13:40	9/19/2018 13:48	X		WW	L	x	x	x	x	x		x	x	x	x			
	OU2-WWTP-Eff-10	9/19/2018 13:48	9/19/2018 13:50		x	WW	L						x							

ANALYSIS REQUESTED

Dissolved Metals Samples
☐ Field Filtered
☐ Lab to Filter

Orthophosphate Samples
☐ Field Filtered
☐ Lab to Filter

[1] Matrix Codes:
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define)

[2] Preservation Codes:
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

[3] Container Codes:
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Comments: VOC 624.1 - Benzene, Ethyl Benzene, Xylenes Total, and 124 TMB

48 Hour TAT TDS/TSS ; 5 day TAT BOD and Oil & Grease

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time: 9/19 15:00
Received by: (signature) 9.5	Date/Time: 9/20 15 9/6
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Program & Regulatory Information
☐ AWQ STDS ☐ NY TOGS
☐ NYC Sewer Discharge ☐ NY CP-51
☐ Part 360 GW (Landfill)
☐ NY Restricted Use
☐ NY Unrestricted Use
☐ NY Part 375

Deliverables
☐ Enhanced Data Package
☐ NYSDEC EQuIS EDD
☐ EQuIS (Standard) EDD
☐ NY Regulatory EDD
☐ NY Regs Hits-Only EDD

Other:

Other:
NELAC and AIHA-LAP, LLC Accredited

Project Entity
☑ Government ☐ Municipality ☐ MWRA ☐ WRTA
☐ Federal ☐ 21 J ☐ School
☐ City ☐ Brownfield ☐ MBTA

Other
☐ Chromatogram
☐ *AIHA-LAP,LLC*

PCB ONLY
☐ Soxhlet
☐ Non Soxhlet

Table of Contents

Sign In

TRACK ANOTHER SHIPMENT

858841565813

Delivered
Thursday 9/20/2018 at 9:16 am

DELIVERED

Signed for by: P.BLAKE

GET STATUS UPDATES

OBTAIN PROOF OF DELIVERY

FROM

SAR US

TO

EAST LONGMEADOW, MA US

Travel History | Multiple-piece Shipment | Shipment Facts

9/20/2018 - Thursday	9:16 am	Delivered MA

Expand History

9/19/2018 - Wednesday	4:05 pm	Picked up PLATTSBURGH, NY

Ask FedEx

OUR COMPANY

About FedEx
Our Portfolio
Investor Relations
Careers
FedEx Blog
Corporate Responsibility
Newsroom
Contact Us

MORE FROM FEDEX

FedEx Compatible
Developer Resource Center
FedEx Cross Border

LANGUAGE

Change Country

English

I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples_____

con-test® ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client LAND Remediation

Received By RAP Date 9/19/18 Time 916

How were the samples received? In Cooler T No Cooler _____ On Ice T No Ice _____

Direct from Sampling _____ Ambient _____ Melted Ice _____

By Gun # 557 Actual Temp - 4.5

Were samples within Temperature? 2-6°C T By Blank # _____ Actual Temp - _____

Was Custody Seal Intact? NA Were Samples Tampered with? NA

Was COC Relinquished ? T Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? T Were samples received within holding time? T

Did COC include all pertinent Information? Client T Analysis T Sampler Name T

Project T ID's T Collection Dates/Times T

Are Sample labels filled out and legible? T

Are there Lab to Filters? F Who was notified? _____

Are there Rushes? F Who was notified? _____

Are there Short Holds? T Who was notified? Jma

Is there enough Volume? T

Is there Headspace where applicable? F MS/MSD? F

Proper Media/Containers Used? T Is splitting samples required? F

Were trip blanks received? F On COC? F

Do all samples have the proper pH? N/A Acid _____ Base _____

Vials		Containers:	#		#		#
Unp-		1 Liter Amb.	2	1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic	1	8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Comments:

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

September 24, 2018

Keith Decker
Land Remediation
74 Hudson River Road
Waterford, NY 12188

Project Location: Saranac Lake
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 18I0866

Enclosed are results of analyses for samples received by the laboratory on September 20, 2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Aaron L. Benoit
Project Manager

Table of Contents

Sample Summary 3

Case Narrative 4

Sample Results 5

18I0866-01 5

Sample Preparation Information 7

QC Data 8

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) 8

B212905 8

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Dissolved) 9

B212969 9

Flag/Qualifier Summary 10

Certifications 11

Chain of Custody/Sample Receipt 12

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Land Remediation
74 Hudson River Road
Waterford, NY 12188
ATTN: Keith Decker

REPORT DATE: 9/24/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18I0866

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Saranac Lake

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
OU2-WWTP-Eff-10	18I0866-01	Waste Water		SM21-22 2540C SM21-22 2540D	

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Tod E. Kopyscinski
Laboratory Director

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake | Sample Description: | Work Order: 18I0866

Date Received: 9/20/2018

Field Sample #: OU2-WWTP-Eff-10 | Sampled: 9/19/2018 13:48

Sample ID: 18I0866-01

Sample Matrix: Waste Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Suspended Solids	ND	2.0	mg/L	1		SM21-22 2540D	9/20/18	9/20/18 14:00	LL

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake | Sample Description: | Work Order: 18I0866

Date Received: 9/20/2018

Field Sample #: OU2-WWTP-Eff-10 | Sampled: 9/19/2018 13:48

Sample ID: 18I0866-01

Sample Matrix: Waste Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Dissolved)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Dissolved Solids	84	10	mg/L	1		SM21-22 2540C	9/20/18	9/20/18 13:30	LL

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

SM21-22 2540C

Lab Number [Field ID]	Batch	Initial [mL]	Date
18I0866-01 [OU2-WWTP-Eff-10]	B212969	50.0	09/20/18

SM21-22 2540D

Lab Number [Field ID]	Batch	Initial [mL]	Date
18I0866-01 [OU2-WWTP-Eff-10]	B212905	250	09/20/18

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B212905 - SM21-22 2540D										
Blank (B212905-BLK1)				Prepared & Analyzed: 09/20/18						
Total Suspended Solids	ND	2.5	mg/L							
LCS (B212905-BS1)				Prepared & Analyzed: 09/20/18						
Total Suspended Solids	196	10	mg/L	200		98.0	64.3-117			

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Dissolved) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B212969 - SM21-22 2540C										
Blank (B212969-BLK1)				Prepared & Analyzed: 09/20/18						
Total Dissolved Solids	ND	10	mg/L							
LCS (B212969-BS1)				Prepared & Analyzed: 09/20/18						
Total Dissolved Solids	280	10	mg/L	293		94.2	61.4-114			

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level

Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.

No results have been blank subtracted unless specified in the case narrative section.

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SM21-22 2540C in Water	
Total Dissolved Solids	CT,MA,NH,NY,RI,NC,ME,VA
SM21-22 2540D in Water	
Total Suspended Solids	CT,MA,NH,NY,RI,NC,ME,VA

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	03/1/2020
MA	Massachusetts DEP	M-MA100	06/30/2019
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2019
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2019
RI	Rhode Island Department of Health	LAO00112	12/30/2018
NC	North Carolina Div. of Water Quality	652	12/31/2018
NJ	New Jersey DEP	MA007 NELAP	06/30/2019
FL	Florida Department of Health	E871027 NELAP	06/30/2019
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2019
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2018
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2019
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2019
NC-DW	North Carolina Department of Health	25703	07/31/2019

1810866

con-test ANALYTICAL LABORATORY

Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com

http://www.contestlabs.com Doc # 380 Rev 1_03242017

CHAIN OF CUSTODY RECORD (New York)

39 Spruce Street
East Longmeadow, MA 01028

Page _____ of _____

Company Name:	LAND remediation
Address:	74 Hudson River Road Waterford, NY
Phone:	
Project Name:	NYSDEC Saranac Lake Gas Co.
Project Location:	Saranac Lake Construction Water
Project Number:	
Project Manager:	Matthew Warren
Con-Test Quote Name/Number:	
Invoice Recipient:	mjw@land-remediation.com
Sampled By:	Vaughn Nelson, Kyle Jones

Requested Turnaround Time
7-Day ☐ 10-Day ☐
Due Date:

Rush-Approval Required
1-Day ☑ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
CLP Like Data Pkg Required: ☐
Email To: mjw@land-remediation.com
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	BOD-5	TDS	TSS	Oil & Grease 1664	8270 SVOC - PAH SIM	VOC 624.1 - (See Below)	VOC 8260 - Isopropyl Benzene & Toluene Only	608 PCB - 608 Pest - Endosulfan I, Heptachlor Epoxide	Metals- Pb, Zn, Cr.	pH	# of Containers
	OU2-WWTP-Eff-10	9/19/2018 13:40	9/19/2018 13:48	X		WW	L	x	x	x	x	x		x	x	x	x	
	OU2-WWTP-Eff-10	9/19/2018 13:48	9/19/2018 13:50		x	WW	L						x					

[2] Preservation Code
[3] Container Code

Dissolved Metals Samples
☐ Field Filtered
☐ Lab to Filter

Orthophosphate Samples
☐ Field Filtered
☐ Lab to Filter

[1] Matrix Codes:
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define)

[2] Preservation Codes:
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

[3] Container Codes:
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Comments: VOC 624.1 - Benzene, Ethyl Benzene, Xylenes Total, and 124 TMB

48 Hour TAT TDS/TSS ; 5 day TAT BOD and Oil & Grease

Please use the following codes to indicate possible sample concentration within the **Conc Code** column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

	Date/Time:
Relinquished by: (signature)	9/19 15:00
Received by: (signature) 4.5	9/19/18 916
Relinquished by: (signature)	
eived by: (signature)	
nquished by: (signature)	
eived by: (signature)	

Program & Regulatory Information
☐ AWQ STDS ☐ NY TOGS
☐ NYC Sewer Discharge ☐ NY CP-51
☐ Part 360 GW (Landfill)
☐ NY Restricted Use
☐ NY Unrestricted Use
☐ NY Part 375
Other:

Deliverables
☐ Enhanced Data Package
☐ NYSDEC EQuIS EDD
☐ EQuIS (Standard) EDD
☐ NY Regulatory EDD
☐ NY Regs Hits-Only EDD
Other:

NELAC and AIHA-LAP, LLC Accredited

Project Entity
☑ Government ☐ Municipality ☐ MWRA ☐ WRTA
☐ Federal ☐ 21 J ☐ School
☐ City ☐ Brownfield ☐ MBTA

Other
☐ Chromatogram
☐ *AIHA-LAP,LLC*

PCB ONLY
☐ Soxhlet
☐ Non Soxhlet

Table of Contents

TRACK ANOTHER SHIPMENT

858841565813

Delivered
Thursday 9/20/2018 at 9:16 am

DELIVERED

Signed for by: P.BLAKE

GET STATUS UPDATES

OBTAIN PROOF OF DELIVERY

FROM

SAR US

TO

EAST LONGMEADOW, MA US

Travel History | Multiple-piece Shipment | Shipment Facts

9/20/2018 - Thursday	9:16 am	Delivered MA

Expand History

9/19/2018 - Wednesday	4:05 pm	Picked up PLATTSBURGH, NY

Ask FedEx

OUR COMPANY

About FedEx
Our Portfolio
Investor Relations
Careers
FedEx Blog
Corporate Responsibility
Newsroom
Contact Us

MORE FROM FEDEX

FedEx Compatible
Developer Resource Center
FedEx Cross Border

LANGUAGE

Change Country

English

I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples_____

con-test® ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client LAND Remediation

Received By RAP Date 9/19/18 Time 916

How were the samples received? In Cooler T No Cooler _____ On Ice T No Ice _____

Direct from Sampling _____ Ambient _____ Melted Ice _____

By Gun # 557 Actual Temp - 4.5

Were samples within Temperature? 2-6°C T By Blank # _____ Actual Temp - _____

Was Custody Seal Intact? NA Were Samples Tampered with? NA

Was COC Relinquished ? T Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? T Were samples received within holding time? T

Did COC include all pertinent Information? Client T Analysis T Sampler Name T

Project T ID's T Collection Dates/Times T

Are Sample labels filled out and legible? T

Are there Lab to Filters? F Who was notified? _____

Are there Rushes? T Who was notified? irma

Are there Short Holds? T Who was notified? irma

Is there enough Volume? T

Is there Headspace where applicable? F MS/MSD? F

Proper Media/Containers Used? T Is splitting samples required? F

Were trip blanks received? F On COC? F

Do all samples have the proper pH? NA Acid _____ Base _____

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic	1	8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Comments:

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

September 26, 2018

Keith Decker
Land Remediation
74 Hudson River Road
Waterford, NY 12188

Project Location: Saranac Lake
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 18I1059

Enclosed are results of analyses for samples received by the laboratory on September 25, 2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Aaron L. Benoit
Project Manager

Table of Contents

Sample Summary 4

Case Narrative 5

Sample Results 6

18I1059-01 6

18I1059-02 11

Sample Preparation Information 13

QC Data 14

Volatile Organic Compounds by GC/MS 14

B213304 14

Volatile Organic Compounds by GC/MS 15

B213308 15

Semivolatile Organic Compounds by GC/MS 16

B213336 16

Organochloride Pesticides by GC/ECD 18

B213285 18

Polychlorinated Biphenyls By GC/ECD 19

B213284 19

Metals Analyses (Total) 20

B213280 20

B213282 20

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) 21

B213292 21

Pesticides Degradation Report 22

Dual Column RPD Report 23

Flag/Qualifier Summary 27

Table of Contents (continued)

Certifications 28

Chain of Custody/Sample Receipt 30

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Land Remediation
74 Hudson River Road
Waterford, NY 12188
ATTN: Keith Decker

REPORT DATE: 9/26/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18I1059

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Saranac Lake

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
OU2-WWTP-Eff-11	18I1059-01	Waste Water		EPA 200.7	
				EPA 200.8	
				EPA 608.3	
				SM21-22 4500 H B	
				SW-846 8270D	
OU2-WTP-Eff-11	18I1059-02	Waste Water		EPA 624.1	
				SW-846 8260C	

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

EPA 608.3

Qualifications:

L-07

Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.

Analyte & Samples(s) Qualified:

Aroclor-1016 [2C]
B213284-BS1

SM21-22 4500 H B

Qualifications:

H-05

Holding time was exceeded. pH analysis should be performed immediately at time of sampling. Nominal 15 minute holding time was exceeded.

Analyte & Samples(s) Qualified:

pH
18I1059-01[OU2-WWTP-Eff-11]

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Lisa A. Worthington
Project Manager

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake | Sample Description: | Work Order: 18I1059

Date Received: 9/25/2018

Field Sample #: OU2-WWTP-Eff-11

Sample ID: 18I1059-01 | Start Date/Time: 9/24/2018 1:11:00PM

Sample Matrix: Waste Water | Stop Date/Time: 9/24/2018 1:17:00PM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene (SIM)	ND	0.30	0.060	µg/L	1		SW-846 8270D	9/25/18	9/26/18 12:15	CJM
Acenaphthylene (SIM)	ND	0.20	0.050	µg/L	1		SW-846 8270D	9/25/18	9/26/18 12:15	CJM
Anthracene (SIM)	ND	0.20	0.040	µg/L	1		SW-846 8270D	9/25/18	9/26/18 12:15	CJM
Benzo(a)anthracene (SIM)	ND	0.050	0.050	µg/L	1		SW-846 8270D	9/25/18	9/26/18 12:15	CJM
Benzo(a)pyrene (SIM)	ND	0.10	0.040	µg/L	1		SW-846 8270D	9/25/18	9/26/18 12:15	CJM
Benzo(b)fluoranthene (SIM)	ND	0.050	0.020	µg/L	1		SW-846 8270D	9/25/18	9/26/18 12:15	CJM
Benzo(g,h,i)perylene (SIM)	ND	0.50	0.070	µg/L	1		SW-846 8270D	9/25/18	9/26/18 12:15	CJM
Benzo(k)fluoranthene (SIM)	ND	0.040	0.020	µg/L	1		SW-846 8270D	9/25/18	9/26/18 14:51	CJM
Chrysene (SIM)	ND	0.20	0.030	µg/L	1		SW-846 8270D	9/25/18	9/26/18 12:15	CJM
Dibenz(a,h)anthracene (SIM)	ND	0.10	0.040	µg/L	1		SW-846 8270D	9/25/18	9/26/18 12:15	CJM
Fluoranthene (SIM)	ND	0.50	0.030	µg/L	1		SW-846 8270D	9/25/18	9/26/18 12:15	CJM
Fluorene (SIM)	ND	1.0	0.040	µg/L	1		SW-846 8270D	9/25/18	9/26/18 12:15	CJM
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.10	0.080	µg/L	1		SW-846 8270D	9/25/18	9/26/18 12:15	CJM
Naphthalene (SIM)	ND	1.0	0.070	µg/L	1		SW-846 8270D	9/25/18	9/26/18 12:15	CJM
Phenanthrene (SIM)	ND	0.050	0.040	µg/L	1		SW-846 8270D	9/25/18	9/26/18 12:15	CJM
Pyrene (SIM)	ND	1.0	0.030	µg/L	1		SW-846 8270D	9/25/18	9/26/18 12:15	CJM

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	69.6	30-130		9/26/18 12:15
Nitrobenzene-d5	65.4	30-130		9/26/18 14:51
2-Fluorobiphenyl	74.4	30-130		9/26/18 12:15
2-Fluorobiphenyl	51.1	30-130		9/26/18 14:51
p-Terphenyl-d14	58.3	30-130		9/26/18 12:15
p-Terphenyl-d14	45.1	30-130		9/26/18 14:51

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake | Sample Description: | Work Order: 18I1059

Date Received: 9/25/2018

Field Sample #: OU2-WWTP-Eff-11

Sample ID: 18I1059-01 | Start Date/Time: 9/24/2018 1:11:00PM

Sample Matrix: Waste Water | Stop Date/Time: 9/24/2018 1:17:00PM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Endosulfan I [1]	ND	0.010	0.00042	µg/L	1		EPA 608.3	9/25/18	9/26/18 13:39	TG
Heptachlor epoxide [1]	ND	0.010	0.00080	µg/L	1		EPA 608.3	9/25/18	9/26/18 13:39	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	93.2	30-150		9/26/18 13:39
Decachlorobiphenyl [2]	82.1	30-150		9/26/18 13:39
Tetrachloro-m-xylene [1]	89.8	30-150		9/26/18 13:39
Tetrachloro-m-xylene [2]	91.1	30-150		9/26/18 13:39

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake | Sample Description: | Work Order: 18I1059

Date Received: 9/25/2018

Field Sample #: OU2-WWTP-Eff-11

Sample ID: 18I1059-01 | Start Date/Time: 9/24/2018 1:11:00PM

Sample Matrix: Waste Water | Stop Date/Time: 9/24/2018 1:17:00PM

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.040	0.037	µg/L	1		EPA 608.3	9/25/18	9/26/18 12:05	TG
Aroclor-1221 [1]	ND	0.040	0.032	µg/L	1		EPA 608.3	9/25/18	9/26/18 12:05	TG
Aroclor-1232 [1]	ND	0.040	0.040	µg/L	1		EPA 608.3	9/25/18	9/26/18 12:05	TG
Aroclor-1242 [1]	ND	0.040	0.035	µg/L	1		EPA 608.3	9/25/18	9/26/18 12:05	TG
Aroclor-1248 [1]	ND	0.040	0.038	µg/L	1		EPA 608.3	9/25/18	9/26/18 12:05	TG
Aroclor-1254 [1]	ND	0.040	0.021	µg/L	1		EPA 608.3	9/25/18	9/26/18 12:05	TG
Aroclor-1260 [1]	ND	0.040	0.039	µg/L	1		EPA 608.3	9/25/18	9/26/18 12:05	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	109	30-150		9/26/18 12:05
Decachlorobiphenyl [2]	122	30-150		9/26/18 12:05
Tetrachloro-m-xylene [1]	105	30-150		9/26/18 12:05
Tetrachloro-m-xylene [2]	119	30-150		9/26/18 12:05

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake | Sample Description: | Work Order: 18I1059

Date Received: 9/25/2018

Field Sample #: OU2-WWTP-Eff-11

Sample ID: 18I1059-01 | Start Date/Time: 9/24/2018 1:11:00PM

Sample Matrix: Waste Water | Stop Date/Time: 9/24/2018 1:17:00PM

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Chromium	ND	0.0070	0.0061	mg/L	1		EPA 200.7	9/25/18	9/26/18 14:02	QNW
Lead	ND	0.50	0.14	µg/L	1		EPA 200.8	9/25/18	9/26/18 10:17	MJH
Zinc	ND	0.010	0.0052	mg/L	1		EPA 200.7	9/25/18	9/26/18 14:02	QNW

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake | Sample Description: | Work Order: 18I1059

Date Received: 9/25/2018

Field Sample #: OU2-WWTP-Eff-11

Sample ID: 18I1059-01 | Start Date/Time: 9/24/2018 1:11:00PM

Sample Matrix: Waste Water | Stop Date/Time: 9/24/2018 1:17:00PM

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
pH @17.5°C	8.6		pH Units	1	H-05	SM21-22 4500 H B	9/25/18	9/25/18 19:10	LED

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake | Sample Description: | Work Order: 18I1059

Date Received: 9/25/2018

Field Sample #: OU2-WTP-Eff-11

Sample ID: 18I1059-02 | Start Date/Time: 9/24/2018 1:17:00PM

Sample Matrix: Waste Water | Stop Date/Time: 9/24/2018 1:19:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Isopropylbenzene (Cumene)	ND	1.0	0.12	µg/L	1		SW-846 8260C	9/26/18	9/26/18 10:43	LBD
Toluene	ND	1.0	0.17	µg/L	1		SW-846 8260C	9/26/18	9/26/18 10:43	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	99.7	70-130		9/26/18 10:43
Toluene-d8	97.5	70-130		9/26/18 10:43
4-Bromofluorobenzene	100	70-130		9/26/18 10:43

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake | Sample Description: | Work Order: 18I1059

Date Received: 9/25/2018

Field Sample #: OU2-WTP-Eff-11

Sample ID: 18I1059-02 | Start Date/Time: 9/24/2018 1:17:00PM

Sample Matrix: Waste Water | Stop Date/Time: 9/24/2018 1:19:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	1.0	0.34	µg/L	1		EPA 624.1	9/26/18	9/26/18 10:43	LBD
Ethylbenzene	ND	2.0	0.37	µg/L	1		EPA 624.1	9/26/18	9/26/18 10:43	LBD
1,2,4-Trimethylbenzene	ND	1.0	0.34	µg/L	1		EPA 624.1	9/26/18	9/26/18 10:43	LBD
Xylenes (total)	ND	3.0		µg/L	1		EPA 624.1	9/26/18	9/26/18 10:43	LBD
m+p Xylene	ND	2.0	0.65	µg/L	1		EPA 624.1	9/26/18	9/26/18 10:43	LBD
o-Xylene	ND	2.0	0.35	µg/L	1		EPA 624.1	9/26/18	9/26/18 10:43	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	99.7	70-130		9/26/18 10:43
Toluene-d8	97.5	70-130		9/26/18 10:43
4-Bromofluorobenzene	100	70-130		9/26/18 10:43

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: EPA 200.7-EPA 200.7

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18I1059-01 [OU2-WWTP-Eff-11]	B213280	50.0	50.0	09/25/18

Prep Method: EPA 200.8-EPA 200.8

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18I1059-01 [OU2-WWTP-Eff-11]	B213282	50.0	50.0	09/25/18

Prep Method: SW-846 3510C-EPA 608.3

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18I1059-01 [OU2-WWTP-Eff-11]	B213284	1000	2.00	09/25/18

Prep Method: SW-846 3510C-EPA 608.3

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18I1059-01 [OU2-WWTP-Eff-11]	B213285	1000	2.00	09/25/18

Prep Method: SW-846 5030B-EPA 624.1

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18I1059-02 [OU2-WTP-Eff-11]	B213308	5	5.00	09/26/18

SM21-22 4500 H B

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18I1059-01 [OU2-WWTP-Eff-11]	B213292	50.0		09/25/18

Prep Method: SW-846 5035-SW-846 8260C

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18I1059-02 [OU2-WTP-Eff-11]	B213304	5	5.00	09/26/18

Prep Method: SW-846 3510C-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18I1059-01 [OU2-WWTP-Eff-11]	B213336	1000	1.00	09/25/18
18I1059-01RE1 [OU2-WWTP-Eff-11]	B213336	1000	0.200	09/25/18

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B213304 - SW-846 5035										
Blank (B213304-BLK1)				Prepared & Analyzed: 09/26/18						
Isopropylbenzene (Cumene)	ND	1.0	µg/L							
Toluene	ND	1.0	µg/L							
Surrogate: 1,2-Dichloroethane-d4	*24.2*		µg/L	25.0		97.0	70-130			
Surrogate: Toluene-d8	*24.6*		µg/L	25.0		98.2	70-130			
Surrogate: 4-Bromofluorobenzene	*26.1*		µg/L	25.0		104	70-130			
LCS (B213304-BS1)				Prepared & Analyzed: 09/26/18						
Isopropylbenzene (Cumene)	21.0	1.0	µg/L	20.0		105	70-130			
Toluene	20.9	1.0	µg/L	20.0		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	*24.3*		µg/L	25.0		97.1	70-130			
Surrogate: Toluene-d8	*24.6*		µg/L	25.0		98.6	70-130			
Surrogate: 4-Bromofluorobenzene	*25.7*		µg/L	25.0		103	70-130			
LCS Dup (B213304-BSD1)				Prepared & Analyzed: 09/26/18						
Isopropylbenzene (Cumene)	20.6	1.0	µg/L	20.0		103	70-130	1.54	25	
Toluene	21.0	1.0	µg/L	20.0		105	70-130	0.239	25	
Surrogate: 1,2-Dichloroethane-d4	*24.6*		µg/L	25.0		98.3	70-130			
Surrogate: Toluene-d8	*25.0*		µg/L	25.0		100	70-130			
Surrogate: 4-Bromofluorobenzene	*26.2*		µg/L	25.0		105	70-130			

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B213308 - SW-846 5030B										
Blank (B213308-BLK1)				Prepared & Analyzed: 09/26/18						
Benzene	ND	1.0	µg/L							
Ethylbenzene	ND	2.0	µg/L							
1,2,4-Trimethylbenzene	ND	1.0	µg/L							
Xylenes (total)	ND	3.0	µg/L							
m+p Xylene	ND	2.0	µg/L							
o-Xylene	ND	2.0	µg/L							
Surrogate: 1,2-Dichloroethane-d4	*24.2*		µg/L	25.0		97.0	70-130			
Surrogate: Toluene-d8	*24.6*		µg/L	25.0		98.2	70-130			
Surrogate: 4-Bromofluorobenzene	*26.1*		µg/L	25.0		104	70-130			
LCS (B213308-BS1)				Prepared & Analyzed: 09/26/18						
Benzene	19.8	1.0	µg/L	20.0		99.2	65-135			
Ethylbenzene	20.4	2.0	µg/L	20.0		102	60-140			
1,2,4-Trimethylbenzene	19.2	1.0	µg/L	20.0		96.2	70-130			
m+p Xylene	41.1	2.0	µg/L	40.0		103	70-130			
o-Xylene	20.6	2.0	µg/L	20.0		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	*24.3*		µg/L	25.0		97.1	70-130			
Surrogate: Toluene-d8	*24.6*		µg/L	25.0		98.6	70-130			
Surrogate: 4-Bromofluorobenzene	*25.7*		µg/L	25.0		103	70-130			

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B213336 - SW-846 3510C										
Blank (B213336-BLK1)				Prepared & Analyzed: 09/26/18						
Acenaphthene (SIM)	ND	0.30	µg/L							
Acenaphthylene (SIM)	ND	0.20	µg/L							
Anthracene (SIM)	ND	0.20	µg/L							
Benzo(a)anthracene (SIM)	ND	0.050	µg/L							
Benzo(a)pyrene (SIM)	ND	0.10	µg/L							
Benzo(b)fluoranthene (SIM)	ND	0.050	µg/L							
Benzo(g,h,i)perylene (SIM)	ND	0.50	µg/L							
Chrysene (SIM)	ND	0.20	µg/L							
Dibenz(a,h)anthracene (SIM)	ND	0.10	µg/L							
Fluoranthene (SIM)	ND	0.50	µg/L							
Fluorene (SIM)	ND	1.0	µg/L							
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.10	µg/L							
Naphthalene (SIM)	ND	1.0	µg/L							
Phenanthrene (SIM)	ND	0.050	µg/L							
Pyrene (SIM)	ND	1.0	µg/L							
Surrogate: Nitrobenzene-d5	*69.0*		µg/L	100		69.0	30-130			
Surrogate: 2-Fluorobiphenyl	*74.5*		µg/L	100		74.5	30-130			
Surrogate: p-Terphenyl-d14	*79.7*		µg/L	100		79.7	30-130			
Blank (B213336-BLK2)				Prepared & Analyzed: 09/26/18						
Benzo(k)fluoranthene (SIM)	ND	0.040	µg/L							
Surrogate: Nitrobenzene-d5	*61.6*		µg/L	100		61.6	30-130			
Surrogate: 2-Fluorobiphenyl	*50.1*		µg/L	100		50.1	30-130			
Surrogate: p-Terphenyl-d14	*60.5*		µg/L	100		60.5	30-130			
LCS (B213336-BS1)				Prepared & Analyzed: 09/26/18						
Acenaphthene (SIM)	35.4	7.5	µg/L	50.0		70.8	40-140			
Acenaphthylene (SIM)	36.2	5.0	µg/L	50.0		72.3	40-140			
Anthracene (SIM)	39.0	5.0	µg/L	50.0		78.0	40-140			
Benzo(a)anthracene (SIM)	37.8	1.2	µg/L	50.0		75.6	40-140			
Benzo(a)pyrene (SIM)	40.4	2.5	µg/L	50.0		80.8	40-140			
Benzo(b)fluoranthene (SIM)	42.6	1.2	µg/L	50.0		85.2	40-140			
Benzo(g,h,i)perylene (SIM)	38.5	12	µg/L	50.0		77.0	40-140			
Benzo(k)fluoranthene (SIM)	41.1	5.0	µg/L	50.0		82.2	40-140			
Chrysene (SIM)	38.2	5.0	µg/L	50.0		76.5	40-140			
Dibenz(a,h)anthracene (SIM)	39.6	2.5	µg/L	50.0		79.3	40-140			
Fluoranthene (SIM)	37.0	12	µg/L	50.0		74.0	40-140			
Fluorene (SIM)	37.1	25	µg/L	50.0		74.2	40-140			
Indeno(1,2,3-cd)pyrene (SIM)	39.6	2.5	µg/L	50.0		79.2	40-140			
Naphthalene (SIM)	32.9	25	µg/L	50.0		65.8	40-140			
Phenanthrene (SIM)	37.4	1.2	µg/L	50.0		74.9	40-140			
Pyrene (SIM)	37.2	25	µg/L	50.0		74.3	40-140			
Surrogate: Nitrobenzene-d5	*65.6*		µg/L	100		65.6	30-130			
Surrogate: 2-Fluorobiphenyl	*64.8*		µg/L	100		64.8	30-130			
Surrogate: p-Terphenyl-d14	*55.8*		µg/L	100		55.8	30-130			

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B213336 - SW-846 3510C										
LCS Dup (B213336-BSD1)				Prepared & Analyzed: 09/26/18						
Acenaphthene (SIM)	37.7	7.5	µg/L	50.0		75.4	40-140	6.29	20	
Acenaphthylene (SIM)	38.1	5.0	µg/L	50.0		76.2	40-140	5.19	20	
Anthracene (SIM)	40.9	5.0	µg/L	50.0		81.8	40-140	4.88	20	
Benzo(a)anthracene (SIM)	40.2	1.2	µg/L	50.0		80.3	40-140	5.96	20	
Benzo(a)pyrene (SIM)	42.6	2.5	µg/L	50.0		85.1	40-140	5.12	20	
Benzo(b)fluoranthene (SIM)	44.8	1.2	µg/L	50.0		89.5	40-140	4.86	20	
Benzo(g,h,i)perylene (SIM)	40.1	12	µg/L	50.0		80.2	40-140	4.07	20	
Benzo(k)fluoranthene (SIM)	43.0	5.0	µg/L	50.0		86.0	40-140	4.40	20	
Chrysene (SIM)	40.2	5.0	µg/L	50.0		80.4	40-140	4.91	20	
Dibenz(a,h)anthracene (SIM)	41.2	2.5	µg/L	50.0		82.5	40-140	3.96	20	
Fluoranthene (SIM)	39.5	12	µg/L	50.0		79.0	40-140	6.47	20	
Fluorene (SIM)	39.8	25	µg/L	50.0		79.6	40-140	7.02	20	
Indeno(1,2,3-cd)pyrene (SIM)	41.4	2.5	µg/L	50.0		82.8	40-140	4.57	20	‡
Naphthalene (SIM)	34.8	25	µg/L	50.0		69.6	40-140	5.61	20	
Phenanthrene (SIM)	39.2	1.2	µg/L	50.0		78.4	40-140	4.50	20	
Pyrene (SIM)	38.3	25	µg/L	50.0		76.6	40-140	2.98	20	
Surrogate: Nitrobenzene-d5	*67.3*		µg/L	100		67.3	30-130			
Surrogate: 2-Fluorobiphenyl	*66.2*		µg/L	100		66.2	30-130			
Surrogate: p-Terphenyl-d14	*58.3*		µg/L	100		58.3	30-130			

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B213285 - SW-846 3510C										
Blank (B213285-BLK1)				Prepared: 09/25/18 Analyzed: 09/26/18						
Endosulfan I	ND	0.010	µg/L							
Endosulfan I [2C]	ND	0.010	µg/L							
Heptachlor Epoxide	ND	0.010	µg/L							
Heptachlor Epoxide [2C]	ND	0.010	µg/L							
Surrogate: Decachlorobiphenyl	*0.327*		µg/L	0.400		81.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.286*		µg/L	0.400		71.5	30-150			
Surrogate: Tetrachloro-m-xylene	*0.388*		µg/L	0.400		96.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.384*		µg/L	0.400		96.0	30-150			
LCS (B213285-BS1)				Prepared: 09/25/18 Analyzed: 09/26/18						
Endosulfan I	1.1	0.050	µg/L	1.00		108	45-153			
Endosulfan I [2C]	1.1	0.050	µg/L	1.00		108	45-153			
Heptachlor Epoxide	1.1	0.050	µg/L	1.00		107	37-142			
Heptachlor Epoxide [2C]	1.1	0.050	µg/L	1.00		107	37-142			
Surrogate: Decachlorobiphenyl	*1.70*		µg/L	2.00		85.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.48*		µg/L	2.00		74.1	30-150			
Surrogate: Tetrachloro-m-xylene	*2.05*		µg/L	2.00		102	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*2.05*		µg/L	2.00		102	30-150			
LCS Dup (B213285-BSD1)				Prepared: 09/25/18 Analyzed: 09/26/18						
Endosulfan I	1.1	0.050	µg/L	1.00		110	45-153	1.71		
Endosulfan I [2C]	1.1	0.050	µg/L	1.00		108	45-153	0.538		
Heptachlor Epoxide	1.1	0.050	µg/L	1.00		110	37-142	2.40		
Heptachlor Epoxide [2C]	1.1	0.050	µg/L	1.00		107	37-142	0.388		
Surrogate: Decachlorobiphenyl	*1.73*		µg/L	2.00		86.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.53*		µg/L	2.00		76.4	30-150			
Surrogate: Tetrachloro-m-xylene	*2.06*		µg/L	2.00		103	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*2.09*		µg/L	2.00		105	30-150			

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B213284 - SW-846 3510C											
Blank (B213284-BLK1)				Prepared: 09/25/18 Analyzed: 09/26/18							
Aroclor-1016	ND	0.040	µg/L								
Aroclor-1016 [2C]	ND	0.040	µg/L								
Aroclor-1221	ND	0.040	µg/L								
Aroclor-1221 [2C]	ND	0.040	µg/L								
Aroclor-1232	ND	0.040	µg/L								
Aroclor-1232 [2C]	ND	0.040	µg/L								
Aroclor-1242	ND	0.040	µg/L								
Aroclor-1242 [2C]	ND	0.040	µg/L								
Aroclor-1248	ND	0.040	µg/L								
Aroclor-1248 [2C]	ND	0.040	µg/L								
Aroclor-1254	ND	0.040	µg/L								
Aroclor-1254 [2C]	ND	0.040	µg/L								
Aroclor-1260	ND	0.040	µg/L								
Aroclor-1260 [2C]	ND	0.040	µg/L								
Surrogate: Decachlorobiphenyl	*0.357*		µg/L	0.400		89.3		30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.394*		µg/L	0.400		98.5		30-150			
Surrogate: Tetrachloro-m-xylene	*0.434*		µg/L	0.400		108		30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.500*		µg/L	0.400		125		30-150			
LCS (B213284-BS1)				Prepared: 09/25/18 Analyzed: 09/26/18							
Aroclor-1016	0.60	0.20	µg/L	0.500		119		50-140			
Aroclor-1016 [2C]	0.71	0.20	µg/L	0.500		**142**	*	50-140			L-07
Aroclor-1260	0.58	0.20	µg/L	0.500		116		8-140			
Aroclor-1260 [2C]	0.65	0.20	µg/L	0.500		129		8-140			
Surrogate: Decachlorobiphenyl	*2.00*		µg/L	2.00		99.9		30-150			
Surrogate: Decachlorobiphenyl [2C]	*2.23*		µg/L	2.00		111		30-150			
Surrogate: Tetrachloro-m-xylene	*2.33*		µg/L	2.00		116		30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*2.71*		µg/L	2.00		136		30-150			
LCS Dup (B213284-BSD1)				Prepared: 09/25/18 Analyzed: 09/26/18							
Aroclor-1016	0.49	0.20	µg/L	0.500		98.6		50-140	18.8		
Aroclor-1016 [2C]	0.62	0.20	µg/L	0.500		124		50-140	14.0		
Aroclor-1260	0.49	0.20	µg/L	0.500		97.2		8-140	17.4		
Aroclor-1260 [2C]	0.55	0.20	µg/L	0.500		110		8-140	15.8		
Surrogate: Decachlorobiphenyl	*1.66*		µg/L	2.00		83.2		30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.87*		µg/L	2.00		93.4		30-150			
Surrogate: Tetrachloro-m-xylene	*1.98*		µg/L	2.00		99.1		30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*2.32*		µg/L	2.00		116		30-150			

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B213280 - EPA 200.7										
Blank (B213280-BLK1)				Prepared: 09/25/18 Analyzed: 09/26/18						
Chromium	ND	0.0070	mg/L							
Zinc	ND	0.010	mg/L							
LCS (B213280-BS1)				Prepared: 09/25/18 Analyzed: 09/26/18						
Chromium	0.500	0.0070	mg/L	0.500		100	85-115			
Zinc	1.00	0.010	mg/L	1.00		100	85-115			
LCS Dup (B213280-BSD1)				Prepared: 09/25/18 Analyzed: 09/26/18						
Chromium	0.513	0.0070	mg/L	0.500		103	85-115	2.41	20	
Zinc	1.03	0.010	mg/L	1.00		103	85-115	2.56	20	
Batch B213282 - EPA 200.8										
Blank (B213282-BLK1)				Prepared: 09/25/18 Analyzed: 09/26/18						
Lead	ND	0.50	µg/L							
LCS (B213282-BS1)				Prepared: 09/25/18 Analyzed: 09/26/18						
Lead	519	5.0	µg/L	500		104	85-115			
LCS Dup (B213282-BSD1)				Prepared: 09/25/18 Analyzed: 09/26/18						
Lead	523	5.0	µg/L	500		105	85-115	0.846	20	

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B213292 - SM21-22 4500 H B										
LCS (B213292-BS1)				Prepared & Analyzed: 09/25/18						
pH	6.02		pH Units	6.00		100	90-110			

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

BREAKDOWN REPORT

Lab Sample ID: **S027652-PEM1** **Analyzed:** **09/26/2018**

Column Number: **1**

Analyte	% Breakdown
4,4'-DDT [1]	1.86
Endrin [1]	2.26

Column Number: **2**

Analyte	% Breakdown
4,4'-DDT [2]	2.09
Endrin [2]	2.09

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

EPA 608.3

LCS

Lab Sample ID: B213284-BS1 Date(s) Analyzed: 09/26/2018 09/26/2018

Instrument ID (1): ECD5 Instrument ID (2): ECD5

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.60	
	2	0.000	0.000	0.000	0.71	16.8
Aroclor-1260	1	0.000	0.000	0.000	0.58	
	2	0.000	0.000	0.000	0.65	11.4

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

EPA 608.3

LCS Dup

Lab Sample ID: B213284-BSD1 Date(s) Analyzed: 09/26/2018 09/26/2018

Instrument ID (1): ECD5 Instrument ID (2): ECD5

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.49	
	2	0.000	0.000	0.000	0.62	23.4
Aroclor-1260	1	0.000	0.000	0.000	0.49	
	2	0.000	0.000	0.000	0.55	11.5

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

EPA 608.3

LCS

Lab Sample ID: B213285-BS1 Date(s) Analyzed: 09/26/2018 09/26/2018

Instrument ID (1): ECD6 Instrument ID (2): ECD6

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Endosulfan I	1	6.722	0.000	0.000	1.1	
	2	6.690	0.000	0.000	1.1	0.0
Heptachlor Epoxide	1	6.448	0.000	0.000	1.1	
	2	6.417	0.000	0.000	1.1	0.0

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

EPA 608.3

LCS Dup

Lab Sample ID: B213285-BSD1 Date(s) Analyzed: 09/26/2018 09/26/2018

Instrument ID (1): ECD6 Instrument ID (2): ECD6

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Endosulfan I	1	6.723	0.000	0.000	1.1	
	2	6.690	0.000	0.000	1.1	0.0
Heptachlor Epoxide	1	6.448	0.000	0.000	1.1	
	2	6.417	0.000	0.000	1.1	0.0

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
H-05	Holding time was exceeded. pH analysis should be performed immediately at time of sampling. Nominal 15 minute holding time was exceeded.
L-07	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
EPA 200.7 in Water	
Chromium	CT,MA,NH,NY,RI,NC,ME,VA
Zinc	CT,MA,NH,NY,RI,NC,ME,VA
EPA 200.8 in Water	
Lead	CT,MA,NH,NY,RI,NC,ME,VA
EPA 608.3 in Water	
Aroclor-1016	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1016 [2C]	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1221	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1221 [2C]	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1232	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1232 [2C]	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1242	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1242 [2C]	CT,MA,NH,NY,RI,NC,ME,VA
Endosulfan I	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1248	CT,MA,NH,NY,RI,NC,ME,VA
Endosulfan I [2C]	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1248 [2C]	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1254	CT,MA,NH,NY,RI,NC,ME,VA
Heptachlor Epoxide	CT,MA,NH,NY,RI,NC,ME,VA
Heptachlor Epoxide [2C]	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1254 [2C]	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1260	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1260 [2C]	CT,MA,NH,NY,RI,NC,ME,VA
EPA 624.1 in Water	
Benzene	CT,NY,RI,NC,MA,NH
Ethylbenzene	CT,NY,RI,NC,MA,NH
Toluene	CT,NY,RI,NC,MA,NH
1,2,4-Trimethylbenzene	MA
Xylenes (total)	NY,MA,NH
m+p Xylene	CT,NY,RI,NC,MA,NH
o-Xylene	CT,NY,RI,NC,MA,NH
SM21-22 4500 H B in Water	
pH	CT,MA,RI
SW-846 8260C in Water	
Benzene	CT,ME,NH,VA,NY
Ethylbenzene	CT,ME,NH,VA,NY
Isopropylbenzene (Cumene)	ME,VA,NY
Toluene	CT,ME,NH,VA,NY
1,2,4-Trimethylbenzene	ME,VA,NY
m+p Xylene	CT,ME,NH,VA,NY
o-Xylene	CT,ME,NH,VA,NY
Xylenes (total)	NY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	03/1/2020
MA	Massachusetts DEP	M-MA100	06/30/2019
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2019
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2019
RI	Rhode Island Department of Health	LAO00112	12/30/2018
NC	North Carolina Div. of Water Quality	652	12/31/2018
NJ	New Jersey DEP	MA007 NELAP	06/30/2019
FL	Florida Department of Health	E871027 NELAP	06/30/2019
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2019
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2018
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2019
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2019
NC-DW	North Carolina Department of Health	25703	07/31/2019

18I1059

http://www.contestlabs.com Doc # 380 Rev 1_03242017

con-test ANALYTICAL LABORATORY

Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com

CHAIN OF CUSTODY RECORD (New York)

39 Spruce Street
East Longmeadow, MA 01028

Page _____ of _____

Company Name:	LAND remediation
Address:	74 Hudson River Road Waterford, NY
Phone:	
Project Name:	NYSDEC Saranac Lake Gas Co.
Project Location:	Saranac Lake Construction Water
Project Number:	
Project Manager:	Matthew Warren
Con-Test Quote Name/Number:	
Invoice Recipient:	mjw@land-remediation.com
Sampled By:	Vaughn Nelson, Kyle Jones

Requested Turnaround Time
7-Day ☐ 10-Day ☐
Due Date:

Rush Approval Required
1-Day ☑ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
CLP Like Data Pkg Required: ☐
Email To: mjw@land-remediation.com
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	BOD-5	TDS	TSS	Oil & Grease 1664	8270 SVOC - PAH SIM	VOC 624.1 - (See Below)	VOC 8260 - Isopropyl Benzene & Toluene Only	608 PCB - 608 Pest - Endosulfan I, Heptachlor Epoxide	Metals- Pb, Zn, Cr.	pH	# of Containers
1	OU2-WWTP-Eff-11	9/24/2018 13:11	9/24/2018 13:17	x		WW	L	x	x	x	x	x		x	x	x	x	
2	OU2-WWTP-Eff-11	9/24/2018 13:17	9/24/2018 13:19		x	WW	L						x					

[2] Preservation Code
[3] Container Code

Dissolved Metals Samples
☐ Field Filtered
☐ Lab to Filter

Orthophosphate Samples
☐ Field Filtered
☐ Lab to Filter

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define)

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

[3] **Container Codes:**
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Comments: VOC 624.1 - Benzene, Ethyl Benzene, Xylenes Total, and 124 TMB

48 Hour TAT TDS/TSS ; 5 day TAT BOD and Oil & Grease

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)		Date/Time: 9/25
Received by: (signature)		Date/Time: 9-25-18 850A
Relinquished by: (signature)		Date/Time: 9.25-18 1300
Received by: (signature)		Date/Time: 9-25-18 1300
Relinquished by: (signature)		Date/Time: 9-25-18 16:00
Received by: (signature)	3.0 9-25-18	Date/Time: 16:00

Program & Regulatory Information
☐ AWQ STDS ☐ NY TOGS
☐ NYC Sewer Discharge ☐ NY CP-51
☐ Part 360 GW (Landfill)
☐ NY Restricted Use
☐ NY Unrestricted Use
☐ NY Part 375
Other:

Deliverables
☐ Enhanced Data Package
☐ NYSDEC EQuIS EDD
☐ EQuIS (Standard) EDD
☐ NY Regulatory EDD
☐ NY Regs Hits-Only EDD
Other:
NELAC and AIHA-LAP, LLC Accredited

Project Entity
☑ Government ☐ Municipality ☐ MWRA ☐ WRTA
☐ Federal ☐ 21 J ☐ School
☐ City ☐ Brownfield ☐ MBTA

Other
☐ Chromatogram
☐ *AIHA-LAP,LLC*

PCB ONLY
☐ Soxhlet
☐ Non Soxhlet

Table of Contents

I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples_____

con-test® ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client Lane Remediation

Received By ESO Date 9-25-18 Time 16:00

How were the samples received? In Cooler T No Cooler _____ On Ice T No Ice _____

Direct from Sampling _____ Ambient _____ Melted Ice _____

By Gun # 577 Actual Temp - 3.0

Were samples within Temperature? 2-6°C T By Blank # _____ Actual Temp - _____

Was Custody Seal Intact? NA Were Samples Tampered with? NA

Was COC Relinquished ? T Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? T Were samples received within holding time? T

Did COC include all pertinent Information? Client T Analysis T Sampler Name T

Project T ID's T Collection Dates/Times T

Are Sample labels filled out and legible? T

Are there Lab to Filters? F Who was notified? _____

Are there Rushes? T Who was notified? Mike, Luke, Natalia

Are there Short Holds? T Who was notified? Luke

Is there enough Volume? T

Is there Headspace where applicable? F MS/MSD? F

Proper Media/Containers Used? T Is splitting samples required? F

Were trip blanks received? F On COC? F

Do all samples have the proper pH? Acid _____ Base _____

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.	6	1 Liter Plastic		16 oz Amb.	
HCL-	3	500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic	2	4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Comments:

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

October 2, 2018

Keith Decker
Land Remediation
74 Hudson River Road
Waterford, NY 12188

Project Location: Saranac Lake
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 18I1061

Enclosed are results of analyses for samples received by the laboratory on September 25, 2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Aaron L. Benoit
Project Manager

Table of Contents

Sample Summary 3

Case Narrative 4

Sample Results 5

18I1061-01 5

Sample Preparation Information 6

QC Data 7

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) 7

B213310 7

B213398 7

Flag/Qualifier Summary 8

Certifications 9

Chain of Custody/Sample Receipt 10

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Land Remediation
74 Hudson River Road
Waterford, NY 12188
ATTN: Keith Decker

REPORT DATE: 10/2/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18I1061

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Saranac Lake

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
OU2-WWTP-Eff-11	18I1061-01	Waste Water		EPA 1664B SM 21-22 5210B	

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Lisa A. Worthington
Project Manager

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake | Sample Description: | Work Order: 18I1061

Date Received: 9/25/2018

Field Sample #: OU2-WWTP-Eff-11

Sample ID: 18I1061-01 | Start Date/Time: 9/24/2018 1:11:00PM

Sample Matrix: Waste Water | Stop Date/Time: 9/24/2018 1:17:00PM

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Biochemical Oxygen Demand	ND	4.0	mg/L	1		SM 21-22 5210B	9/26/18	9/26/18 8:00	LED
Oil & Grease (HEM)	ND	1.4	mg/L	1		EPA 1664B	9/26/18	9/26/18 9:30	LL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

EPA 1664B

Lab Number [Field ID]	Batch	Initial [mL]	Date
18I1061-01 [OU2-WWTP-Eff-11]	B213310	1000	09/26/18

SM 21-22 5210B

Lab Number [Field ID]	Batch	Initial [mL]	Date
18I1061-01 [OU2-WWTP-Eff-11]	B213398	150	09/26/18

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B213310 - EPA 1664B										
Blank (B213310-BLK1)				Prepared & Analyzed: 09/26/18						
Oil & Grease (HEM)	ND	1.4	mg/L							
LCS (B213310-BS1)				Prepared & Analyzed: 09/26/18						
Oil & Grease (HEM)	22		mg/L	20.0		110	78-114			
Duplicate (B213310-DUP1)	**Source: 18I1061-01**			Prepared & Analyzed: 09/26/18						
Oil & Grease (HEM)	ND	1.4	mg/L		ND			NC	18	
Batch B213398 - SM 21-22 5210B										
Blank (B213398-BLK1)				Prepared & Analyzed: 09/26/18						
Biochemical Oxygen Demand	ND	2.0	mg/L							
LCS (B213398-BS1)				Prepared & Analyzed: 09/26/18						
Biochemical Oxygen Demand	210	2.0	mg/L	198		107	85-115			

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level

Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.

No results have been blank subtracted unless specified in the case narrative section.

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
EPA 1664B in Water	
Oil & Grease (HEM)	CT,MA,NH,NY,RI,NC,ME,VA
SM 21-22 5210B in Water	
Biochemical Oxygen Demand	CT,MA,NH,NY,RI,ME,VA,NC

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	03/1/2020
MA	Massachusetts DEP	M-MA100	06/30/2019
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2019
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2019
RI	Rhode Island Department of Health	LAO00112	12/30/2018
NC	North Carolina Div. of Water Quality	652	12/31/2018
NJ	New Jersey DEP	MA007 NELAP	06/30/2019
FL	Florida Department of Health	E871027 NELAP	06/30/2019
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2019
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2018
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2019
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2019
NC-DW	North Carolina Department of Health	25703	07/31/2019

18J1061

http://www.contestlabs.com Doc # 380 Rev 1_03242017

con-test ANALYTICAL LABORATORY

Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com

CHAIN OF CUSTODY RECORD (New York)

39 Spruce Street
East Longmeadow, MA 01028

Page _____ of _____

Company Name:	LAND remediation
Address:	74 Hudson River Road Waterford, NY
Phone:	
Project Name:	NYSDEC Saranac Lake Gas Co.
Project Location:	Saranac Lake Construction Water
Project Number:	
Project Manager:	Matthew Warren
Con-Test Quote Name/Number:	
Invoice Recipient:	mjw@land-remediation.com
Sampled By:	Vaughn Nelson, Kyle Jones

Requested Turnaround Time
7-Day ☐ 10-Day ☐
Due Date:

Rush-Approval Required
1-Day ☑ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
CLP Like Data Pkg Required: ☐
Email To: mjw@land-remediation.com
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code	BOD-5	TDS	TSS	Oil & Grease 1664	8270 SVOC - PAH SIM	VOC 624.1 - (See Below)	VOC 8260 - Isopropyl Benzene & Toluene Only	608 PCB - 608 Pest - Endosulfan I, Heptachlor Epoxide	Metals- Pb, Zn, Cr.	pH	# of Containers	[2] Preservation Code	[3] Container Code
	OU2-WWTP-Eff-11	9/24/2018 13:11	9/24/2018 13:17	X		WW	L	x	x	x	x	x		x	x	x	x			
	OU2-WWTP-Eff-11	9/24/2018 13:17	9/24/2018 13:19		x	WW	L						x							

Dissolved Metals Samples
☐ Field Filtered
☐ Lab to Filter

Orthophosphate Samples
☐ Field Filtered
☐ Lab to Filter

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define)

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

[3] **Container Codes:**
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Comments: VOC 624.1 - Benzene, Ethyl Benzene, Xylenes Total, and 124 TMB

48 Hour TAT TDS/TSS ; 5 day TAT BOD and Oil & Grease

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

	Date/Time:
Relinquished by: (signature)	9/25
Received by: (signature)	9.25-18 850A
Relinquished by: (signature)	9.25-18 1300
Received by: (signature)	9-25-18 13:00
Relinquished by: (signature)	9-25-18 16:00
Received by: (signature) 3.0	9-25-18 16:00

Program & Regulatory Information
☐ AWQ STDS ☐ NY TOGS
☐ NYC Sewer Discharge ☐ NY CP-51
☐ Part 360 GW (Landfill)
☐ NY Restricted Use
☐ NY Unrestricted Use
☐ NY Part 375
Other:

Deliverables
☐ Enhanced Data Package
☐ NYSDEC EQuIS EDD
☐ EQuIS (Standard) EDD
☐ NY Regulatory EDD
☐ NY Regs Hits-Only EDD
Other:
NELAC and AIHA-LAP, LLC Accredited

Project Entity
☑ Government ☐ Municipality ☐ MWRA ☐ WRTA
☐ Federal ☐ 21 J ☐ School
☐ City ☐ Brownfield ☐ MBTA

Other
☐ Chromatogram
☐ *AIHA-LAP,LLC*

PCB ONLY
☐ Soxhlet
☐ Non Soxhlet

Table of Contents

I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples_____

con-test® ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client Lane Remediation

Received By ESO Date 9-25-18 Time 16:00

How were the samples received? In Cooler T No Cooler _____ On Ice T No Ice _____

Direct from Sampling _____ Ambient _____ Melted Ice _____

By Gun # 527 Actual Temp - 3.0

Were samples within Temperature? 2-6°C T By Blank # _____ Actual Temp - _____

Was Custody Seal Intact? NA Were Samples Tampered with? NA

Was COC Relinquished ? T Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? T Were samples received within holding time? T

Did COC include all pertinent Information? Client T Analysis T Sampler Name T

Project T ID's T Collection Dates/Times T

Are Sample labels filled out and legible? T

Are there Lab to Filters? F Who was notified? _____

Are there Rushes? F Who was notified? _____

Are there Short Holds? T Who was notified? Luke

Is there enough Volume? T

Is there Headspace where applicable? F MS/MSD? F

Proper Media/Containers Used? T Is splitting samples required? F

Were trip blanks received? F On COC? F

Do all samples have the proper pH? NA Acid _____ Base _____

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.	2	1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic	1	8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Comments:

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

September 27, 2018

Keith Decker
Land Remediation
74 Hudson River Road
Waterford, NY 12188

Project Location: Saranac Lake
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 18I1060

Enclosed are results of analyses for samples received by the laboratory on September 25, 2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Aaron L. Benoit
Project Manager

Table of Contents

Sample Summary 3

Case Narrative 4

Sample Results 5

18I1060-01 5

Sample Preparation Information 7

QC Data 8

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) 8

B213307 8

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Dissolved) 9

B213306 9

Flag/Qualifier Summary 10

Certifications 11

Chain of Custody/Sample Receipt 12

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Land Remediation
74 Hudson River Road
Waterford, NY 12188
ATTN: Keith Decker

REPORT DATE: 9/27/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18I1060

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Saranac Lake

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
OU2-WWTP-Eff-11	18I1060-01	Waste Water		SM21-22 2540C SM21-22 2540D	

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

SM21-22 2540C

Qualifications:

R-04

Duplicate relative percent difference (RPD) is a less useful indicator of sample precision for sample results that are <5 times the reporting limit (RL).

Analyte & Samples(s) Qualified:

Total Dissolved Solids

18I1060-01[OU2-WWTP-Eff-11], B213306-DUP1

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Tod E. Kopyscinski
Laboratory Director

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake | Sample Description: | Work Order: 18I1060

Date Received: 9/25/2018

Field Sample #: OU2-WWTP-Eff-11

Sample ID: 18I1060-01 | Start Date/Time: 9/24/2018 1:11:00PM

Sample Matrix: Waste Water | Stop Date/Time: 9/24/2018 1:17:00PM

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Suspended Solids	ND	1.7	mg/L	1		SM21-22 2540D	9/26/18	9/26/18 13:55	LL

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake | Sample Description: | Work Order: 18I1060

Date Received: 9/25/2018

Field Sample #: OU2-WWTP-Eff-11

Sample ID: 18I1060-01 | Start Date/Time: 9/24/2018 1:11:00PM

Sample Matrix: Waste Water | Stop Date/Time: 9/24/2018 1:17:00PM

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Dissolved)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Dissolved Solids	32	10	mg/L	1	R-04	SM21-22 2540C	9/26/18	9/26/18 13:30	LL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

SM21-22 2540C

Lab Number [Field ID]	Batch	Initial [mL]	Date
18I1060-01 [OU2-WWTP-Eff-11]	B213306	50.0	09/26/18

SM21-22 2540D

Lab Number [Field ID]	Batch	Initial [mL]	Date
18I1060-01 [OU2-WWTP-Eff-11]	B213307	300	09/26/18

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B213307 - SM21-22 2540D										
Blank (B213307-BLK1)				Prepared & Analyzed: 09/26/18						
Total Suspended Solids	ND	2.5	mg/L							
LCS (B213307-BS1)				Prepared & Analyzed: 09/26/18						
Total Suspended Solids	169	5.0	mg/L	200		84.5	64.3-117			

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Dissolved) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD		RPD Limit	Notes
Batch B213306 - SM21-22 2540C											
Blank (B213306-BLK1)				Prepared & Analyzed: 09/26/18							
Total Dissolved Solids	ND	10	mg/L								
LCS (B213306-BS1)				Prepared & Analyzed: 09/26/18							
Total Dissolved Solids	230	10	mg/L	293		78.5	61.4-114				
Duplicate (B213306-DUP1)	**Source: 18I1060-01**			Prepared & Analyzed: 09/26/18							
Total Dissolved Solids	28	10	mg/L		32			**13.3**	*	5	R-04

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
R-04	Duplicate relative percent difference (RPD) is a less useful indicator of sample precision for sample results that are <5 times the reporting limit (RL).

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SM21-22 2540C in Water	
Total Dissolved Solids	CT,MA,NH,NY,RI,NC,ME,VA
SM21-22 2540D in Water	
Total Suspended Solids	CT,MA,NH,NY,RI,NC,ME,VA

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	03/1/2020
MA	Massachusetts DEP	M-MA100	06/30/2019
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2019
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2019
RI	Rhode Island Department of Health	LAO00112	12/30/2018
NC	North Carolina Div. of Water Quality	652	12/31/2018
NJ	New Jersey DEP	MA007 NELAP	06/30/2019
FL	Florida Department of Health	E871027 NELAP	06/30/2019
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2019
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2018
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2019
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2019
NC-DW	North Carolina Department of Health	25703	07/31/2019

181060

con-test® ANALYTICAL LABORATORY
Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com

http://www.contestlabs.com Doc # 380 Rev 1_03242017

CHAIN OF CUSTODY RECORD (New York)

39 Spruce Street
East Longmeadow, MA 01028

Company Name:	LAND remediation
Address:	74 Hudson River Road Waterford, NY
Phone:	
Project Name:	NYSDEC Saranac Lake Gas Co.
Project Location:	Saranac Lake Construction Water
Project Number:	
Project Manager:	Matthew Warren
Con-Test Quote Name/Number:	
Invoice Recipient:	mjw@land-remediation.com
Sampled By:	Vaughn Nelson, Kyle Jones

Requested Turnaround Time
7-Day ☐ 10-Day ☐
Due Date:

Rush-Approval Required
1-Day ☑ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
CLP Like Data Pkg Required: ☐
Email To: mjw@land-remediation.com
Fax To #:

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	BOD-5	TDS	TSS	Oil & Grease 1664	8270 SVOC - PAH SIM	VOC 624.1 - (See Below)	VOC 8260 - Isopropyl Benzene & Toluene Only	608 PCB - 608 Pest - Endosulfan I, Heptachlor Epoxide	Metals- Pb, Zn, Cr.	pH	# of Containers
	OU2-WWTP-Eff-11	9/24/2018 13:11	9/24/2018 13:17	X		WW	L	x	x	x	x	x		x	x	x	x	
	OU2-WWTP-Eff-11	9/24/2018 13:17	9/24/2018 13:19		x	WW	L						x					

ANALYSIS REQUESTED

Dissolved Metals Samples
☐ Field Filtered
☐ Lab to Filter

Orthophosphate Samples
☐ Field Filtered
☐ Lab to Filter

[2] Preservation Code
[3] Container Code

[1] Matrix Codes:
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define)

[2] Preservation Codes:
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

[3] Container Codes:
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Comments: VOC 624.1 - Benzene, Ethyl Benzene, Xylenes Total, and 124 TMB

48 Hour TAT TDS/TSS ; 5 day TAT BOD and Oil & Grease

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time: 9/25
Received by: (signature)	Date/Time: 9.25-18 850A
Relinquished by: (signature)	Date/Time: 9.25-18 1300
Received by: (signature)	Date/Time: 9-25-18 13:00
Relinquished by: (signature)	Date/Time: 9-25-18 16:00
Received by: (signature) 3.0 9-25-18	Date/Time: 16:00

Program & Regulatory Information
☐ AWQ STDS ☐ NY TOGS
☐ NYC Sewer Discharge ☐ NY CP-51
☐ Part 360 GW (Landfill)
☐ NY Restricted Use
☐ NY Unrestricted Use
☐ NY Part 375
Other:

Deliverables
☐ Enhanced Data Package
☐ NYSDEC EQuIS EDD
☐ EQuIS (Standard) EDD
☐ NY Regulatory EDD
☐ NY Regs Hits-Only EDD
Other:
MCLAC and AIHA LAP, LLC Accredited

Project Entity
☑ Government ☐ Municipality ☐ MWRA ☐ WRTA
☐ Federal ☐ 21 J ☐ School
☐ City ☐ Brownfield ☐ MBTA

Other
☐ Chromatogram
☐ *AIHA-LAP,LLC*

PCB ONLY
☐ Soxhlet
☐ Non Soxhlet

Table of Contents

I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples_____

con-test® ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client LGM Remediation

Received By ESO Date 9-25-18 Time 16:00

How were the samples received? In Cooler T No Cooler _____ On Ice T No Ice _____

Direct from Sampling _____ Ambient _____ Melted Ice _____

By Gun # 577 Actual Temp - 3.0

Were samples within Temperature? 2-6°C T By Blank # _____ Actual Temp - _____

Was Custody Seal Intact? NA Were Samples Tampered with? NA

Was COC Relinquished ? T Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? T Were samples received within holding time? T

Did COC include all pertinent Information? Client T Analysis T Sampler Name T

Project T ID's T Collection Dates/Times T

Are Sample labels filled out and legible? T

Are there Lab to Filters? F Who was notified? _____

Are there Rushes? T Who was notified? Luke

Are there Short Holds? T Who was notified? Luke

Is there enough Volume? T

Is there Headspace where applicable? F MS/MSD? F

Proper Media/Containers Used? T Is splitting samples required? F

Were trip blanks received? F On COC? F

Do all samples have the proper pH? NA Acid _____ Base _____

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic	1	8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Comments:

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

October 2, 2018

Keith Decker
Land Remediation
74 Hudson River Road
Waterford, NY 12188

Project Location: Saranca Lake
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 18I1285

Enclosed are results of analyses for samples received by the laboratory on September 28, 2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Aaron L. Benoit
Project Manager

Table of Contents

Sample Summary 3

Case Narrative 4

Sample Results 5

18I1285-01 5

18I1285-02 10

Sample Preparation Information 12

QC Data 13

Volatile Organic Compounds by GC/MS 13

B213635 13

Volatile Organic Compounds by GC/MS 14

B213618 14

Semivolatile Organic Compounds by GC/MS 15

B213691 15

Organochloride Pesticides by GC/ECD 17

B213701 17

Polychlorinated Biphenyls By GC/ECD 18

B213752 18

Metals Analyses (Total) 19

B213639 19

B213640 19

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) 20

B213592 20

Flag/Qualifier Summary 21

Certifications 22

Chain of Custody/Sample Receipt 24

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Land Remediation
74 Hudson River Road
Waterford, NY 12188
ATTN: Keith Decker

REPORT DATE: 10/2/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18I1285

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Saranca Lake

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
OU2-WWTP-Eff-12	18I1285-01	Waste Water		EPA 200.7	
				EPA 200.8	
				EPA 608.3	
				SM21-22 4500 H B	
				SW-846 8270D	
OU2-WWTP-Eff-12	18I1285-02	Waste Water		EPA 624.1	
				SW-846 8260C	

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

For method 8270, only PAHs were requested and reported.

SM21-22 4500 H B

Qualifications:

H-05

Holding time was exceeded. pH analysis should be performed immediately at time of sampling. Nominal 15 minute holding time was exceeded.

Analyte & Samples(s) Qualified:

pH

18I1285-01[OU2-WWTP-Eff-12], B213592-DUP1

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Lisa A. Worthington
Project Manager

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranca Lake | Sample Description: | Work Order: 18I1285

Date Received: 9/28/2018

Field Sample #: OU2-WWTP-Eff-12

Sample ID: 18I1285-01 | Start Date/Time: 9/27/2018 2:32:00PM

Sample Matrix: Waste Water | Stop Date/Time: 9/27/2018 2:36:00PM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene (SIM)	ND	0.30	0.060	µg/L	1		SW-846 8270D	9/29/18	10/1/18 17:37	CJM
Acenaphthylene (SIM)	ND	0.20	0.050	µg/L	1		SW-846 8270D	9/29/18	10/1/18 17:37	CJM
Anthracene (SIM)	ND	0.20	0.040	µg/L	1		SW-846 8270D	9/29/18	10/1/18 17:37	CJM
Benzo(a)anthracene (SIM)	0.057	0.050	0.050	µg/L	1		SW-846 8270D	9/29/18	10/1/18 17:37	CJM
Benzo(a)pyrene (SIM)	0.069	0.10	0.040	µg/L	1	J	SW-846 8270D	9/29/18	10/1/18 17:37	CJM
Benzo(b)fluoranthene (SIM)	0.057	0.050	0.020	µg/L	1		SW-846 8270D	9/29/18	10/1/18 17:37	CJM
Benzo(g,h,i)perylene (SIM)	ND	0.50	0.070	µg/L	1		SW-846 8270D	9/29/18	10/1/18 17:37	CJM
Benzo(k)fluoranthene (SIM)	0.022	0.040	0.020	µg/L	1	J	SW-846 8270D	9/29/18	10/2/18 13:42	IMR
Chrysene (SIM)	0.059	0.20	0.030	µg/L	1	J	SW-846 8270D	9/29/18	10/1/18 17:37	CJM
Dibenz(a,h)anthracene (SIM)	ND	0.10	0.040	µg/L	1		SW-846 8270D	9/29/18	10/1/18 17:37	CJM
Fluoranthene (SIM)	0.085	0.50	0.030	µg/L	1	J	SW-846 8270D	9/29/18	10/1/18 17:37	CJM
Fluorene (SIM)	ND	1.0	0.040	µg/L	1		SW-846 8270D	9/29/18	10/1/18 17:37	CJM
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.10	0.080	µg/L	1		SW-846 8270D	9/29/18	10/1/18 17:37	CJM
Naphthalene (SIM)	ND	1.0	0.070	µg/L	1		SW-846 8270D	9/29/18	10/1/18 17:37	CJM
Phenanthrene (SIM)	0.054	0.050	0.040	µg/L	1		SW-846 8270D	9/29/18	10/1/18 17:37	CJM
Pyrene (SIM)	0.15	1.0	0.030	µg/L	1	J	SW-846 8270D	9/29/18	10/1/18 17:37	CJM

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	78.5	30-130		10/1/18 17:37
Nitrobenzene-d5	82.3	30-130		10/2/18 13:42
2-Fluorobiphenyl	79.4	30-130		10/1/18 17:37
2-Fluorobiphenyl	63.5	30-130		10/2/18 13:42
p-Terphenyl-d14	74.7	30-130		10/1/18 17:37
p-Terphenyl-d14	66.5	30-130		10/2/18 13:42

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranca Lake | Sample Description: | Work Order: 18I1285

Date Received: 9/28/2018

Field Sample #: OU2-WWTP-Eff-12

Sample ID: 18I1285-01 | Start Date/Time: 9/27/2018 2:32:00PM

Sample Matrix: Waste Water | Stop Date/Time: 9/27/2018 2:36:00PM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Endosulfan I [1]	ND	0.010	0.00042	µg/L	1		EPA 608.3	9/28/18	10/1/18 22:11	TG
Heptachlor epoxide [1]	ND	0.010	0.00080	µg/L	1		EPA 608.3	9/28/18	10/1/18 22:11	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	86.8	30-150		10/1/18 22:11
Decachlorobiphenyl [2]	75.3	30-150		10/1/18 22:11
Tetrachloro-m-xylene [1]	84.7	30-150		10/1/18 22:11
Tetrachloro-m-xylene [2]	90.2	30-150		10/1/18 22:11

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranca Lake | Sample Description: | Work Order: 18I1285

Date Received: 9/28/2018

Field Sample #: OU2-WWTP-Eff-12

Sample ID: 18I1285-01 | Start Date/Time: 9/27/2018 2:32:00PM

Sample Matrix: Waste Water | Stop Date/Time: 9/27/2018 2:36:00PM

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.040	0.037	µg/L	1		EPA 608.3	9/28/18	10/1/18 12:08	WAL
Aroclor-1221 [1]	ND	0.040	0.032	µg/L	1		EPA 608.3	9/28/18	10/1/18 12:08	WAL
Aroclor-1232 [1]	ND	0.040	0.040	µg/L	1		EPA 608.3	9/28/18	10/1/18 12:08	WAL
Aroclor-1242 [1]	ND	0.040	0.035	µg/L	1		EPA 608.3	9/28/18	10/1/18 12:08	WAL
Aroclor-1248 [1]	ND	0.040	0.038	µg/L	1		EPA 608.3	9/28/18	10/1/18 12:08	WAL
Aroclor-1254 [1]	ND	0.040	0.021	µg/L	1		EPA 608.3	9/28/18	10/1/18 12:08	WAL
Aroclor-1260 [1]	ND	0.040	0.039	µg/L	1		EPA 608.3	9/28/18	10/1/18 12:08	WAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	76.7	30-150		10/1/18 12:08
Decachlorobiphenyl [2]	78.2	30-150		10/1/18 12:08
Tetrachloro-m-xylene [1]	93.9	30-150		10/1/18 12:08
Tetrachloro-m-xylene [2]	91.7	30-150		10/1/18 12:08

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranca Lake | Sample Description: | Work Order: 18I1285

Date Received: 9/28/2018

Field Sample #: OU2-WWTP-Eff-12

Sample ID: 18I1285-01 | Start Date/Time: 9/27/2018 2:32:00PM

Sample Matrix: Waste Water | Stop Date/Time: 9/27/2018 2:36:00PM

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Chromium	ND	0.0070	0.0061	mg/L	1		EPA 200.7	10/1/18	10/1/18 16:08	QNW
Lead	0.35	0.50	0.14	µg/L	1	J	EPA 200.8	10/1/18	10/1/18 15:45	QNW
Zinc	ND	0.010	0.0052	mg/L	1		EPA 200.7	10/1/18	10/1/18 16:08	QNW

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranca Lake | Sample Description: | Work Order: 18I1285

Date Received: 9/28/2018

Field Sample #: OU2-WWTP-Eff-12

Sample ID: 18I1285-01 | Start Date/Time: 9/27/2018 2:32:00PM

Sample Matrix: Waste Water | Stop Date/Time: 9/27/2018 2:36:00PM

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
pH @22°C	7.6		pH Units	1	H-05	SM21-22 4500 H B	9/28/18	9/28/18 19:42	LED

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranca Lake | Sample Description: | Work Order: 18I1285

Date Received: 9/28/2018

Field Sample #: OU2-WWTP-Eff-12

Sample ID: 18I1285-02 | Start Date/Time: 9/27/2018 2:37:00PM

Sample Matrix: Waste Water | Stop Date/Time: 9/27/2018 2:40:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Isopropylbenzene (Cumene)	ND	1.0	0.12	µg/L	1		SW-846 8260C	10/1/18	10/1/18 9:02	LBD
Toluene	ND	1.0	0.17	µg/L	1		SW-846 8260C	10/1/18	10/1/18 9:02	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	102	70-130		10/1/18 9:02
Toluene-d8	99.3	70-130		10/1/18 9:02
4-Bromofluorobenzene	101	70-130		10/1/18 9:02

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranca Lake | Sample Description: | Work Order: 18I1285

Date Received: 9/28/2018

Field Sample #: OU2-WWTP-Eff-12

Sample ID: 18I1285-02 | Start Date/Time: 9/27/2018 2:37:00PM

Sample Matrix: Waste Water | Stop Date/Time: 9/27/2018 2:40:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	1.0	0.34	µg/L	1		EPA 624.1	10/1/18	10/1/18 9:02	LBD
Ethylbenzene	ND	2.0	0.37	µg/L	1		EPA 624.1	10/1/18	10/1/18 9:02	LBD
1,2,4-Trimethylbenzene	ND	1.0	0.34	µg/L	1		EPA 624.1	10/1/18	10/1/18 9:02	LBD
Xylenes (total)	ND	3.0		µg/L	1		EPA 624.1	10/1/18	10/1/18 9:02	LBD
m+p Xylene	ND	2.0	0.65	µg/L	1		EPA 624.1	10/1/18	10/1/18 9:02	LBD
o-Xylene	ND	2.0	0.35	µg/L	1		EPA 624.1	10/1/18	10/1/18 9:02	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	102	70-130		10/1/18 9:02
Toluene-d8	99.3	70-130		10/1/18 9:02
4-Bromofluorobenzene	101	70-130		10/1/18 9:02

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: EPA 200.7-EPA 200.7

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18I1285-01 [OU2-WWTP-Eff-12]	B213639	50.0	50.0	10/01/18

Prep Method: EPA 200.8-EPA 200.8

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18I1285-01 [OU2-WWTP-Eff-12]	B213640	50.0	50.0	10/01/18

Prep Method: SW-846 3510C-EPA 608.3

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18I1285-01 [OU2-WWTP-Eff-12]	B213701	1000	2.00	09/28/18

Prep Method: SW-846 3510C-EPA 608.3

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18I1285-01 [OU2-WWTP-Eff-12]	B213752	1000	2.00	09/28/18

Prep Method: SW-846 5030B-EPA 624.1

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18I1285-02 [OU2-WWTP-Eff-12]	B213618	5	5.00	10/01/18

SM21-22 4500 H B

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18I1285-01 [OU2-WWTP-Eff-12]	B213592	50.0		09/28/18

Prep Method: SW-846 5030B-SW-846 8260C

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18I1285-02 [OU2-WWTP-Eff-12]	B213635	5	5.00	10/01/18

Prep Method: SW-846 3510C-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18I1285-01 [OU2-WWTP-Eff-12]	B213691	1000	1.00	09/29/18
18I1285-01RE1 [OU2-WWTP-Eff-12]	B213691	1000	0.200	09/29/18

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B213635 - SW-846 5030B										
Blank (B213635-BLK1)				Prepared & Analyzed: 10/01/18						
Isopropylbenzene (Cumene)	ND	1.0	µg/L							
Toluene	ND	1.0	µg/L							
Surrogate: 1,2-Dichloroethane-d4	*25.5*		µg/L	25.0		102	70-130			
Surrogate: Toluene-d8	*24.6*		µg/L	25.0		98.6	70-130			
Surrogate: 4-Bromofluorobenzene	*24.8*		µg/L	25.0		99.4	70-130			
LCS (B213635-BS1)				Prepared & Analyzed: 10/01/18						
Isopropylbenzene (Cumene)	21.4	1.0	µg/L	20.0		107	70-130			
Toluene	20.5	1.0	µg/L	20.0		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	*25.6*		µg/L	25.0		103	70-130			
Surrogate: Toluene-d8	*24.6*		µg/L	25.0		98.5	70-130			
Surrogate: 4-Bromofluorobenzene	*25.3*		µg/L	25.0		101	70-130			
LCS Dup (B213635-BSD1)				Prepared & Analyzed: 10/01/18						
Isopropylbenzene (Cumene)	21.0	1.0	µg/L	20.0		105	70-130	1.89	25	
Toluene	20.1	1.0	µg/L	20.0		101	70-130	1.77	25	
Surrogate: 1,2-Dichloroethane-d4	*25.3*		µg/L	25.0		101	70-130			
Surrogate: Toluene-d8	*24.4*		µg/L	25.0		97.4	70-130			
Surrogate: 4-Bromofluorobenzene	*25.6*		µg/L	25.0		103	70-130			

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B213618 - SW-846 5030B										
Blank (B213618-BLK1)				Prepared & Analyzed: 10/01/18						
Benzene	ND	1.0	µg/L							
Ethylbenzene	ND	2.0	µg/L							
1,2,4-Trimethylbenzene	ND	1.0	µg/L							
Xylenes (total)	ND	3.0	µg/L							
m+p Xylene	ND	2.0	µg/L							
o-Xylene	ND	2.0	µg/L							
Surrogate: 1,2-Dichloroethane-d4	*25.5*		µg/L	25.0		102	70-130			
Surrogate: Toluene-d8	*24.6*		µg/L	25.0		98.6	70-130			
Surrogate: 4-Bromofluorobenzene	*24.8*		µg/L	25.0		99.4	70-130			
LCS (B213618-BS1)				Prepared & Analyzed: 10/01/18						
Benzene	18.5	1.0	µg/L	20.0		92.4	65-135			
Ethylbenzene	20.1	2.0	µg/L	20.0		100	60-140			
1,2,4-Trimethylbenzene	20.3	1.0	µg/L	20.0		101	70-130			
m+p Xylene	41.2	2.0	µg/L	40.0		103	70-130			
o-Xylene	20.6	2.0	µg/L	20.0		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	*25.3*		µg/L	25.0		101	70-130			
Surrogate: Toluene-d8	*24.4*		µg/L	25.0		97.4	70-130			
Surrogate: 4-Bromofluorobenzene	*25.6*		µg/L	25.0		103	70-130			

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B213691 - SW-846 3510C										
Blank (B213691-BLK1)				Prepared: 09/29/18 Analyzed: 10/01/18						
Acenaphthene (SIM)	ND	0.30	µg/L							
Acenaphthylene (SIM)	ND	0.20	µg/L							
Anthracene (SIM)	ND	0.20	µg/L							
Benzo(a)anthracene (SIM)	ND	0.050	µg/L							
Benzo(a)pyrene (SIM)	ND	0.10	µg/L							
Benzo(b)fluoranthene (SIM)	ND	0.050	µg/L							
Benzo(g,h,i)perylene (SIM)	ND	0.50	µg/L							
Chrysene (SIM)	ND	0.20	µg/L							
Dibenz(a,h)anthracene (SIM)	ND	0.10	µg/L							
Fluoranthene (SIM)	ND	0.50	µg/L							
Fluorene (SIM)	ND	1.0	µg/L							
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.10	µg/L							
Naphthalene (SIM)	ND	1.0	µg/L							
Phenanthrene (SIM)	ND	0.050	µg/L							
Pyrene (SIM)	ND	1.0	µg/L							
Surrogate: Nitrobenzene-d5	*68.4*		µg/L	100		68.4	30-130			
Surrogate: 2-Fluorobiphenyl	*74.9*		µg/L	100		74.9	30-130			
Surrogate: p-Terphenyl-d14	*82.7*		µg/L	100		82.7	30-130			
Blank (B213691-BLK2)				Prepared: 09/29/18 Analyzed: 10/02/18						
Benzo(k)fluoranthene (SIM)	ND	0.040	µg/L							
Surrogate: Nitrobenzene-d5	*69.3*		µg/L	100		69.3	30-130			
Surrogate: 2-Fluorobiphenyl	*58.3*		µg/L	100		58.3	30-130			
Surrogate: p-Terphenyl-d14	*65.8*		µg/L	100		65.8	30-130			
LCS (B213691-BS1)				Prepared: 09/29/18 Analyzed: 10/01/18						
Acenaphthene (SIM)	34.8	7.5	µg/L	50.0		69.7	40-140			
Acenaphthylene (SIM)	35.6	5.0	µg/L	50.0		71.2	40-140			
Anthracene (SIM)	39.0	5.0	µg/L	50.0		78.1	40-140			
Benzo(a)anthracene (SIM)	38.4	1.2	µg/L	50.0		76.8	40-140			
Benzo(a)pyrene (SIM)	40.5	2.5	µg/L	50.0		81.0	40-140			
Benzo(b)fluoranthene (SIM)	42.2	1.2	µg/L	50.0		84.4	40-140			
Benzo(g,h,i)perylene (SIM)	36.5	12	µg/L	50.0		73.0	40-140			
Benzo(k)fluoranthene (SIM)	41.0	5.0	µg/L	50.0		82.0	40-140			
Chrysene (SIM)	37.7	5.0	µg/L	50.0		75.4	40-140			
Dibenz(a,h)anthracene (SIM)	39.2	2.5	µg/L	50.0		78.4	40-140			
Fluoranthene (SIM)	37.8	12	µg/L	50.0		75.6	40-140			
Fluorene (SIM)	37.1	25	µg/L	50.0		74.2	40-140			
Indeno(1,2,3-cd)pyrene (SIM)	39.7	2.5	µg/L	50.0		79.4	40-140			
Naphthalene (SIM)	31.7	25	µg/L	50.0		63.4	40-140			
Phenanthrene (SIM)	36.8	1.2	µg/L	50.0		73.6	40-140			
Pyrene (SIM)	36.5	25	µg/L	50.0		73.0	40-140			
Surrogate: Nitrobenzene-d5	*60.6*		µg/L	100		60.6	30-130			
Surrogate: 2-Fluorobiphenyl	*61.5*		µg/L	100		61.5	30-130			
Surrogate: p-Terphenyl-d14	*58.8*		µg/L	100		58.8	30-130			

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B213691 - SW-846 3510C										
LCS Dup (B213691-BSD1)				Prepared: 09/29/18 Analyzed: 10/01/18						
Acenaphthene (SIM)	34.2	7.5	µg/L	50.0		68.3	40-140	2.03	20	
Acenaphthylene (SIM)	34.7	5.0	µg/L	50.0		69.4	40-140	2.56	20	
Anthracene (SIM)	37.7	5.0	µg/L	50.0		75.4	40-140	3.45	20	
Benzo(a)anthracene (SIM)	37.3	1.2	µg/L	50.0		74.6	40-140	2.77	20	
Benzo(a)pyrene (SIM)	39.3	2.5	µg/L	50.0		78.6	40-140	3.01	20	
Benzo(b)fluoranthene (SIM)	40.8	1.2	µg/L	50.0		81.6	40-140	3.37	20	
Benzo(g,h,i)perylene (SIM)	35.5	12	µg/L	50.0		71.0	40-140	2.64	20	
Benzo(k)fluoranthene (SIM)	39.8	5.0	µg/L	50.0		79.6	40-140	3.03	20	
Chrysene (SIM)	36.5	5.0	µg/L	50.0		73.0	40-140	3.37	20	
Dibenz(a,h)anthracene (SIM)	38.2	2.5	µg/L	50.0		76.4	40-140	2.52	20	
Fluoranthene (SIM)	36.8	12	µg/L	50.0		73.6	40-140	2.68	20	
Fluorene (SIM)	36.2	25	µg/L	50.0		72.5	40-140	2.25	20	
Indeno(1,2,3-cd)pyrene (SIM)	39.1	2.5	µg/L	50.0		78.2	40-140	1.52	20	‡
Naphthalene (SIM)	30.8	25	µg/L	50.0		61.6	40-140	3.04	20	
Phenanthrene (SIM)	35.6	1.2	µg/L	50.0		71.2	40-140	3.31	20	
Pyrene (SIM)	35.0	25	µg/L	50.0		69.9	40-140	4.34	20	
Surrogate: Nitrobenzene-d5	*59.9*		µg/L	100		59.9	30-130			
Surrogate: 2-Fluorobiphenyl	*59.3*		µg/L	100		59.3	30-130			
Surrogate: p-Terphenyl-d14	*55.1*		µg/L	100		55.1	30-130			

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B213701 - SW-846 3510C										
Blank (B213701-BLK1)				Prepared: 09/28/18 Analyzed: 10/01/18						
Endosulfan I	ND	0.010	µg/L							
Endosulfan I [2C]	ND	0.010	µg/L							
Heptachlor Epoxide	ND	0.010	µg/L							
Heptachlor Epoxide [2C]	ND	0.010	µg/L							
Surrogate: Decachlorobiphenyl	*0.416*		µg/L	0.400		104	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.364*		µg/L	0.400		90.9	30-150			
Surrogate: Tetrachloro-m-xylene	*0.325*		µg/L	0.400		81.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.382*		µg/L	0.400		95.4	30-150			
LCS (B213701-BS1)				Prepared: 09/28/18 Analyzed: 10/01/18						
Endosulfan I	0.96	0.050	µg/L	1.00		96.1	45-153			
Endosulfan I [2C]	1.0	0.050	µg/L	1.00		99.9	45-153			
Heptachlor Epoxide	0.94	0.050	µg/L	1.00		94.2	37-142			
Heptachlor Epoxide [2C]	0.98	0.050	µg/L	1.00		97.8	37-142			
Surrogate: Decachlorobiphenyl	*2.10*		µg/L	2.00		105	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.82*		µg/L	2.00		91.0	30-150			
Surrogate: Tetrachloro-m-xylene	*1.70*		µg/L	2.00		85.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.96*		µg/L	2.00		98.0	30-150			
LCS Dup (B213701-BSD1)				Prepared: 09/28/18 Analyzed: 10/01/18						
Endosulfan I	0.97	0.050	µg/L	1.00		96.8	45-153	0.798		
Endosulfan I [2C]	1.0	0.050	µg/L	1.00		101	45-153	0.883		
Heptachlor Epoxide	0.94	0.050	µg/L	1.00		94.5	37-142	0.316		
Heptachlor Epoxide [2C]	0.99	0.050	µg/L	1.00		98.8	37-142	1.00		
Surrogate: Decachlorobiphenyl	*2.18*		µg/L	2.00		109	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.84*		µg/L	2.00		91.9	30-150			
Surrogate: Tetrachloro-m-xylene	*1.74*		µg/L	2.00		86.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*2.05*		µg/L	2.00		103	30-150			

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B213752 - SW-846 3510C										
Blank (B213752-BLK1)				Prepared: 09/28/18 Analyzed: 10/01/18						
Aroclor-1016	ND	0.20	µg/L							
Aroclor-1016 [2C]	ND	0.20	µg/L							
Aroclor-1221	ND	0.20	µg/L							
Aroclor-1221 [2C]	ND	0.20	µg/L							
Aroclor-1232	ND	0.20	µg/L							
Aroclor-1232 [2C]	ND	0.20	µg/L							
Aroclor-1242	ND	0.20	µg/L							
Aroclor-1242 [2C]	ND	0.20	µg/L							
Aroclor-1248	ND	0.20	µg/L							
Aroclor-1248 [2C]	ND	0.20	µg/L							
Aroclor-1254	ND	0.20	µg/L							
Aroclor-1254 [2C]	ND	0.20	µg/L							
Aroclor-1260	ND	0.20	µg/L							
Aroclor-1260 [2C]	ND	0.20	µg/L							
Surrogate: Decachlorobiphenyl	*2.04*		µg/L	2.00		102	30-150			
Surrogate: Decachlorobiphenyl [2C]	*2.08*		µg/L	2.00		104	30-150			
Surrogate: Tetrachloro-m-xylene	*2.06*		µg/L	2.00		103	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*2.01*		µg/L	2.00		100	30-150			
LCS (B213752-BS1)				Prepared: 09/28/18 Analyzed: 09/29/18						
Aroclor-1016	0.57	0.20	µg/L	0.500		114	50-140			
Aroclor-1016 [2C]	0.53	0.20	µg/L	0.500		107	50-140			
Aroclor-1260	0.57	0.20	µg/L	0.500		113	8-140			
Aroclor-1260 [2C]	0.55	0.20	µg/L	0.500		111	8-140			
Surrogate: Decachlorobiphenyl	*1.82*		µg/L	2.00		91.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	*2.12*		µg/L	2.00		106	30-150			
Surrogate: Tetrachloro-m-xylene	*1.87*		µg/L	2.00		93.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.83*		µg/L	2.00		91.4	30-150			
LCS Dup (B213752-BSD1)				Prepared: 09/28/18 Analyzed: 09/29/18						
Aroclor-1016	0.61	0.20	µg/L	0.500		123	50-140	6.94		
Aroclor-1016 [2C]	0.59	0.20	µg/L	0.500		118	50-140	10.1		
Aroclor-1260	0.60	0.20	µg/L	0.500		120	8-140	6.04		
Aroclor-1260 [2C]	0.60	0.20	µg/L	0.500		119	8-140	7.30		
Surrogate: Decachlorobiphenyl	*2.01*		µg/L	2.00		100	30-150			
Surrogate: Decachlorobiphenyl [2C]	*2.31*		µg/L	2.00		116	30-150			
Surrogate: Tetrachloro-m-xylene	*1.93*		µg/L	2.00		96.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.94*		µg/L	2.00		97.0	30-150			

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B213639 - EPA 200.7										
Blank (B213639-BLK1)				Prepared & Analyzed: 10/01/18						
Chromium	ND	0.0070	mg/L							
Zinc	ND	0.010	mg/L							
LCS (B213639-BS1)				Prepared & Analyzed: 10/01/18						
Chromium	0.511	0.0070	mg/L	0.500		102	85-115			
Zinc	1.03	0.010	mg/L	1.00		103	85-115			
LCS Dup (B213639-BSD1)				Prepared & Analyzed: 10/01/18						
Chromium	0.511	0.0070	mg/L	0.500		102	85-115	0.113	20	
Zinc	1.04	0.010	mg/L	1.00		104	85-115	0.819	20	
Duplicate (B213639-DUP1)	**Source: 18I1285-01**			Prepared & Analyzed: 10/01/18						
Chromium	ND	0.0070	mg/L		ND			NC	20	
Matrix Spike (B213639-MS1)	**Source: 18I1285-01**			Prepared & Analyzed: 10/01/18						
Chromium	0.508	0.0070	mg/L	0.500	ND	102	70-130			
Zinc	1.04	0.010	mg/L	1.00	ND	104	70-130			
Batch B213640 - EPA 200.8										
Blank (B213640-BLK1)				Prepared & Analyzed: 10/01/18						
Lead	ND	0.50	µg/L							
LCS (B213640-BS1)				Prepared & Analyzed: 10/01/18						
Lead	486	5.0	µg/L	500		97.1	85-115			
LCS Dup (B213640-BSD1)				Prepared & Analyzed: 10/01/18						
Lead	481	5.0	µg/L	500		96.2	85-115	0.935	20	
Duplicate (B213640-DUP1)	**Source: 18I1285-01**			Prepared & Analyzed: 10/01/18						
Lead	0.354	0.50	µg/L		0.347			1.90	20	J
Matrix Spike (B213640-MS1)	**Source: 18I1285-01**			Prepared & Analyzed: 10/01/18						
Lead	490	5.0	µg/L	500	ND	98.0	70-130			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B213592 - SM21-22 4500 H B										
LCS (B213592-BS1)				Prepared & Analyzed: 09/28/18						
pH	5.98		pH Units	6.00		99.7	90-110			
Duplicate (B213592-DUP1)		**Source: 18I1285-01**		Prepared & Analyzed: 09/28/18						
pH	7.6		pH Units		7.6			0.118	5	H-05

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
H-05	Holding time was exceeded. pH analysis should be performed immediately at time of sampling. Nominal 15 minute holding time was exceeded.
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
EPA 200.7 in Water	
Chromium	CT,MA,NH,NY,RI,NC,ME,VA
Zinc	CT,MA,NH,NY,RI,NC,ME,VA
EPA 200.8 in Water	
Lead	CT,MA,NH,NY,RI,NC,ME,VA
EPA 608.3 in Water	
Aroclor-1016	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1016 [2C]	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1221	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1221 [2C]	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1232	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1232 [2C]	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1242	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1242 [2C]	CT,MA,NH,NY,RI,NC,ME,VA
Endosulfan I	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1248	CT,MA,NH,NY,RI,NC,ME,VA
Endosulfan I [2C]	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1248 [2C]	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1254	CT,MA,NH,NY,RI,NC,ME,VA
Heptachlor Epoxide	CT,MA,NH,NY,RI,NC,ME,VA
Heptachlor Epoxide [2C]	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1254 [2C]	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1260	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1260 [2C]	CT,MA,NH,NY,RI,NC,ME,VA
EPA 624.1 in Water	
Benzene	CT,NY,RI,NC,MA,NH
Ethylbenzene	CT,NY,RI,NC,MA,NH
Toluene	CT,NY,RI,NC,MA,NH
1,2,4-Trimethylbenzene	MA
Xylenes (total)	NY,MA,NH
m+p Xylene	CT,NY,RI,NC,MA,NH
o-Xylene	CT,NY,RI,NC,MA,NH
SM21-22 4500 H B in Water	
pH	CT,MA,RI
SW-846 8260C in Water	
Benzene	CT,ME,NH,VA,NY
Ethylbenzene	CT,ME,NH,VA,NY
Isopropylbenzene (Cumene)	ME,VA,NY
Toluene	CT,ME,NH,VA,NY
1,2,4-Trimethylbenzene	ME,VA,NY
m+p Xylene	CT,ME,NH,VA,NY
o-Xylene	CT,ME,NH,VA,NY
Xylenes (total)	NY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	03/1/2020
MA	Massachusetts DEP	M-MA100	06/30/2019
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2019
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2019
RI	Rhode Island Department of Health	LAO00112	12/30/2018
NC	North Carolina Div. of Water Quality	652	12/31/2018
NJ	New Jersey DEP	MA007 NELAP	06/30/2019
FL	Florida Department of Health	E871027 NELAP	06/30/2019
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2019
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2018
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2019
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2019
NC-DW	North Carolina Department of Health	25703	07/31/2019

AL13 18I285

con-test ANALYTICAL LABORATORY

http://www.contestlabs.com Doc # 380 Rev 1_03242017

Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com

CHAIN OF CUSTODY RECORD (New York)

39 Spruce Street
East Longmeadow, MA 01028

Page _____ of _____

Company Name:	LAND remediation
Address:	74 Hudson River Road Waterford, NY
Phone:	
Project Name:	NYSDEC Saranac Lake Gas Co.
Project Location:	Saranac Lake Construction Water
Project Number:	
Project Manager:	Matthew Warren
Con-Test Quote Name/Number:	
Invoice Recipient:	mjw@land-remediation.com
Sampled By:	Vaughn Nelson, Kyle Jones

Requested Turnaround Time
7-Day ☐ 10-Day ☐
Due Date:

Rush-Approval Required
1-Day ☑ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
CLP Like Data Pkg Required: ☐
Email To: mjw@land-remediation.com
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	BOD-5	TDS	TSS	Oil & Grease 1664	8270 SVOC - PAH SIM	VOC 624.1 - (See Below)	VOC 8260 - Isopropyl Benzene & Toluene Only	608 PCB - 608 Pest - Endosulfan I, Heptachlor Epoxide	Metals- Pb, Zn, Cr.	pH
1	OU2-WWTP-Eff-12	9/27/2018 14:32	9/27/2018 14:36	X		WW	L	x	x	x	x	x		x	x	x	x
2	OU2-WWTP-Eff-12	9/27/2018 14:37	9/27/2018 14:40		x	WW	L						x				

# of Containers
[2] Preservation Code
[3] Container Code

Dissolved Metals Samples
☐ Field Filtered
☐ Lab to Filter

Orthophosphate Samples
☐ Field Filtered
☐ Lab to Filter

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define)

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

[3] **Container Codes:**
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Comments: VOC 624.1 - Benzene, Ethyl Benzene, Xylenes Total, and 124 TMB

48 Hour TAT TDS/TSS ; 5 day TAT BOD and Oil & Grease

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

	Date/Time:
Relinquished by: (signature) Kyle Jones	9/27
Received by: (signature)	9-27-18 4:30 PM
Relinquished by: (signature)	9-27-18 1930
Received by: (signature) Paul Racine	9-28-18 15:15
Relinquished by: (signature) Paul Racine	9-28-18 17:10
Received by: (signature) 9-28-18 2.6 17:10	

Program & Regulatory Information
☐ AWQ STDS ☐ NY TOGS
☐ NYC Sewer Discharge ☐ NY CP-51
☐ Part 360 GW (Landfill)
☐ NY Restricted Use
☐ NY Unrestricted Use
☐ NY Part 375
Other:

Deliverables
☐ Enhanced Data Package
☐ NYSDEC EQuIS EDD
☐ EQuIS (Standard) EDD
☐ NY Regulatory EDD
☐ NY Regs Hits-Only EDD
Other:

Project Entity
☑ Government ☐ Municipality ☐ MWRA ☐ WRTA
☐ Federal ☐ 21 J ☐ School
☐ City ☐ Brownfield ☐ MBTA

Other
☐ Chromatogram
☐ AIHA-LAP,LLC

PCB ONLY
☐ Soxhlet
☐ Non Soxhlet

Table of Contents

I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples_____

con-test® ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client Land Remediation

Received By ESD Date 9-28-18 Time 15:10

How were the samples received? In Cooler T No Cooler _____ On Ice T No Ice _____

Direct from Sampling _____ Ambient _____ Melted Ice _____

By Gun # 573 Actual Temp - 2.6

Were samples within Temperature? 2-6°C T By Blank # _____ Actual Temp - _____

Was Custody Seal Intact? NA Were Samples Tampered with? NA

Was COC Relinquished ? T Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? T Were samples received within holding time? T

Did COC include all pertinent Information? Client T Project T Analysis T ID's T Sampler Name T Collection Dates/Times T

Are Sample labels filled out and legible? T

Are there Lab to Filters? F Who was notified? _____

Are there Rushes? T Who was notified? Ray, Natalie, Luke

Are there Short Holds? T Who was notified? Luke

Is there enough Volume? T

Is there Headspace where applicable? F MS/MSD? F

Proper Media/Containers Used? T Is splitting samples required? F

Were trip blanks received? F On COC? F

Do all samples have the proper pH? Acid T L2 Base _____

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.	6	1 Liter Plastic		16 oz Amb.	
HCL-	3	500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic	1	4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Comments:

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

October 4, 2018

Keith Decker
Land Remediation
74 Hudson River Road
Waterford, NY 12188

Project Location: Saranca Lake
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 18I1287

Enclosed are results of analyses for samples received by the laboratory on September 28, 2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Aaron L. Benoit
Project Manager

Table of Contents

Sample Summary 3

Case Narrative 4

Sample Results 5

18I1287-01 5

Sample Preparation Information 6

QC Data 7

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) 7

B213597 7

B213738 7

Flag/Qualifier Summary 8

Certifications 9

Chain of Custody/Sample Receipt 10

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Land Remediation
74 Hudson River Road
Waterford, NY 12188
ATTN: Keith Decker

REPORT DATE: 10/4/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18I1287

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Saranca Lake

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
OU2-WWTP-Eff-12	18I1287-01	Waste Water		EPA 1664B SM 21-22 5210B	

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

EPA 1664B

Qualifications:

MS-07

Matrix spike recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery.Possibility of sample matrix effects that lead to low bias for reported result or non-homogeneous sample aliquot cannot be eliminated.

Analyte & Samples(s) Qualified:

Oil & Grease (HEM)

18I1287-01[OU2-WWTP-Eff-12], B213738-MS1

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Tod E. Kopyscinski
Laboratory Director

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranca Lake | Sample Description: | Work Order: 18I1287

Date Received: 9/28/2018

Field Sample #: OU2-WWTP-Eff-12

Sample ID: 18I1287-01 | Start Date/Time: 9/27/2018 2:32:00PM

Sample Matrix: Waste Water | Stop Date/Time: 9/27/2018 2:36:00PM

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Biochemical Oxygen Demand	ND	4.0	mg/L	1		SM 21-22 5210B	9/28/18	9/28/18 16:30	LED
Oil & Grease (HEM)	ND	1.4	mg/L	1	MS-07	EPA 1664B	10/2/18	10/2/18 12:50	LL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

EPA 1664B

Lab Number [Field ID]	Batch	Initial [mL]	Date
18I1287-01 [OU2-WWTP-Eff-12]	B213738	980	10/02/18

SM 21-22 5210B

Lab Number [Field ID]	Batch	Initial [mL]	Date
18I1287-01 [OU2-WWTP-Eff-12]	B213597	150	09/28/18

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B213597 - SM 21-22 5210B											
Blank (B213597-BLK1)				Prepared & Analyzed: 09/28/18							
Biochemical Oxygen Demand	ND	2.0	mg/L								
LCS (B213597-BS1)				Prepared & Analyzed: 09/28/18							
Biochemical Oxygen Demand	180	2.0	mg/L	198		91.6		85-115			
Batch B213738 - EPA 1664B											
Blank (B213738-BLK1)				Prepared & Analyzed: 10/02/18							
Oil & Grease (HEM)	ND	1.4	mg/L								
Blank (B213738-BLK2)				Prepared & Analyzed: 10/02/18							
Oil & Grease (HEM)	ND	56	mg/L								
LCS (B213738-BS1)				Prepared & Analyzed: 10/02/18							
Oil & Grease (HEM)	22		mg/L	20.0		108		78-114			
LCS (B213738-BS2)				Prepared & Analyzed: 10/02/18							
Oil & Grease (HEM)	710		mg/L	800		89.0		78-114			
Matrix Spike (B213738-MS1)	**Source: 18I1287-01**			Prepared & Analyzed: 10/02/18							
Oil & Grease (HEM)	150	14	mg/L	200	ND	**75.5**	*	78-114			MS-07

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
MS-07	Matrix spike recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery.Possibility of sample matrix effects that lead to low bias for reported result or non-homogeneous sample aliquot cannot be eliminated.

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
EPA 1664B in Water	
Oil & Grease (HEM)	CT,MA,NH,NY,RI,NC,ME,VA
SM 21-22 5210B in Water	
Biochemical Oxygen Demand	CT,MA,NH,NY,RI,ME,VA,NC

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	03/1/2020
MA	Massachusetts DEP	M-MA100	06/30/2019
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2019
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2019
RI	Rhode Island Department of Health	LAO00112	12/30/2018
NC	North Carolina Div. of Water Quality	652	12/31/2018
NJ	New Jersey DEP	MA007 NELAP	06/30/2019
FL	Florida Department of Health	E871027 NELAP	06/30/2019
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2019
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2018
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2019
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2019
NC-DW	North Carolina Department of Health	25703	07/31/2019

ALB

con-test
ANALYTICAL LABORATORY

18i287

Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com

http://www.contestlabs.com

Doc # 380 Rev 1_03242017

CHAIN OF CUSTODY RECORD (New York)

39 Spruce Street
East Longmeadow, MA 01028

Page _____ of _____

Company Name:	LAND remediation
Address:	74 Hudson River Road Waterford, NY
Phone:	
Project Name:	NYSDEC Saranac Lake Gas Co.
Project Location:	Saranac Lake Construction Water
Project Number:	
Project Manager:	Matthew Warren
Con-Test Quote Name/Number:	
Invoice Recipient:	mjw@land-remediation.com
Sampled By:	Vaughn Nelson, Kyle Jones

Requested Turnaround Time
7-Day ☐ 10-Day ☐
Due Date:

Rush-Approval Required
1-Day ☑ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
CLP Like Data Pkg Required: ☐
Email To: mjw@land-remediation.com
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	BOD-5	TDS	TSS	Oil & Grease 1664	8270 SVOC - PAH SIM	VOC 624.1 - (See Below)	VOC 8260 - Isopropyl Benzene & Toluene Only	608 PCB - 608 Pest - Endosulfan I, Heptachlor Epoxide	Metals- Pb, Zn, Cr.	pH
1	OU2-WWTP-Eff-12	9/27/2018 14:32	9/27/2018 14:36	X		WW	L	x	x	x	x	x		x	x	x	x
	OU2-WWTP-Eff-12	9/27/2018 14:37	9/27/2018 14:40		x	WW	L						x				

# of Containers
[2] Preservation Code
[3] Container Code

Dissolved Metals Samples
☐ Field Filtered
☐ Lab to Filter

Orthophosphate Samples
☐ Field Filtered
☐ Lab to Filter

[1] Matrix Codes:
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define)

[2] Preservation Codes:
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

[3] Container Codes:
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Comments: VOC 624.1 - Benzene, Ethyl Benzene, Xylenes Total, and 124 TMB

48 Hour TAT TDS/TSS ; 5 day TAT BOD and Oil & Grease

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time: 9/27
Received by: (signature)	Date/Time: 9-27-18 4:30 PM
Relinquished by: (signature)	Date/Time: 9/27-18 1930
Received by: (signature)	Date/Time: 9-28-18 15:15
Acquished by: (signature)	Date/Time: 9-28-18 17:10
Received by: (signature) 9-28-18 17:10 2.6	Date/Time:

Program & Regulatory Information
☐ AWQ STDS ☐ NY TOGS
☐ NYC Sewer Discharge ☐ NY CP-51
☐ Part 360 GW (Landfill)
☐ NY Restricted Use
☐ NY Unrestricted Use
☐ NY Part 375
Other:

Deliverables
☐ Enhanced Data Package
☐ NYSDEC EQuIS EDD
☐ EQuIS (Standard) EDD
☐ NY Regulatory EDD
☐ NY Regs Hits-Only EDD
Other:

NELAC and AIHA-LAP, LLC Accredited

Project Entity
☑ Government ☐ Municipality ☐ MWRA ☐ WRTA
☐ Federal ☐ 21 J ☐ School
☐ City ☐ Brownfield ☐ MBTA

Other
☐ Chromatogram
☐ *AIHA-LAP,LLC*

PCB ONLY
☐ Soxhlet
☐ Non Soxhlet

Table of Contents

I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples_____

con-test® ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client: Land Remediation

Received By: ESD Date: 9-28-18 Time: 15:10

How were the samples received? In Cooler: T No Cooler: _____ On Ice: T No Ice: _____ Direct from Sampling: _____ Ambient: _____ Melted Ice: _____

Were samples within Temperature? 2-6°C: T By Gun #: 557 Actual Temp - 2.6 By Blank #: _____ Actual Temp - _____

Was Custody Seal Intact? NA Were Samples Tampered with? NA

Was COC Relinquished ? T Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? T Were samples received within holding time? T

Did COC include all pertinent Information? Client: T Analysis: T Sampler Name: T Project: T ID's: T Collection Dates/Times: T

Are Sample labels filled out and legible? T

Are there Lab to Filters? F Who was notified? _____

Are there Rushes? F Who was notified? _____

Are there Short Holds? T Who was notified? Luke

Is there enough Volume? T

Is there Headspace where applicable? F MS/MSD? F

Proper Media/Containers Used? T Is splitting samples required? F

Were trip blanks received? F On COC? _____

Do all samples have the proper pH? NA Acid: _____ Base: _____

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.	2	1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic	1	8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Comments:

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

October 2, 2018

Keith Decker
Land Remediation
74 Hudson River Road
Waterford, NY 12188

Project Location: Saranca Lake
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 18I1286

Enclosed are results of analyses for samples received by the laboratory on September 28, 2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Aaron L. Benoit
Project Manager

Table of Contents

Sample Summary 3

Case Narrative 4

Sample Results 5

18I1286-01 5

Sample Preparation Information 7

QC Data 8

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) 8

B213631 8

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Dissolved) 9

B213629 9

Flag/Qualifier Summary 10

Certifications 11

Chain of Custody/Sample Receipt 12

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Land Remediation
74 Hudson River Road
Waterford, NY 12188
ATTN: Keith Decker

REPORT DATE: 10/2/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18I1286

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Saranca Lake

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
OU2-WWTP-Eff-12	18I1286-01	Waste Water		SM21-22 2540C SM21-22 2540D	

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

SM21-22 2540D

Qualifications:

R-04

Duplicate relative percent difference (RPD) is a less useful indicator of sample precision for sample results that are <5 times the reporting limit (RL).

Analyte & Samples(s) Qualified:

Total Suspended Solids

18I1286-01[OU2-WWTP-Eff-12], B213631-DUP2

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Lisa A. Worthington
Project Manager

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranca Lake | Sample Description: | Work Order: 18I1286

Date Received: 9/28/2018

Field Sample #: OU2-WWTP-Eff-12

Sample ID: 18I1286-01 | Start Date/Time: 9/27/2018 2:32:00PM

Sample Matrix: Waste Water | Stop Date/Time: 9/27/2018 2:36:00PM

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Suspended Solids	5.0	5.0	mg/L	1	R-04	SM21-22 2540D	10/1/18	10/1/18 12:00	LL

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranca Lake | Sample Description: | Work Order: 18I1286

Date Received: 9/28/2018

Field Sample #: OU2-WWTP-Eff-12

Sample ID: 18I1286-01 | Start Date/Time: 9/27/2018 2:32:00PM

Sample Matrix: Waste Water | Stop Date/Time: 9/27/2018 2:36:00PM

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Dissolved)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Dissolved Solids	26	10	mg/L	1		SM21-22 2540C	10/1/18	10/1/18 13:25	LL

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

SM21-22 2540C

Lab Number [Field ID]	Batch	Initial [mL]	Date
18I1286-01 [OU2-WWTP-Eff-12]	B213629	50.0	10/01/18

SM21-22 2540D

Lab Number [Field ID]	Batch	Initial [mL]	Date
18I1286-01 [OU2-WWTP-Eff-12]	B213631	100	10/01/18

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD		RPD Limit	Notes
Batch B213631 - SM21-22 2540D											
Blank (B213631-BLK1)				Prepared & Analyzed: 10/01/18							
Total Suspended Solids	ND	2.5	mg/L								
LCS (B213631-BS1)				Prepared & Analyzed: 10/01/18							
Total Suspended Solids	198	5.0	mg/L	200		99.0	64.3-117				
Duplicate (B213631-DUP2)	**Source: 18I1286-01**			Prepared & Analyzed: 10/01/18							
Total Suspended Solids	9.0	5.0	mg/L		5.0			**57.1**	*	5	R-04

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Dissolved) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B213629 - SM21-22 2540C										
Blank (B213629-BLK1)				Prepared & Analyzed: 10/01/18						
Total Dissolved Solids	ND	10	mg/L							
LCS (B213629-BS1)				Prepared & Analyzed: 10/01/18						
Total Dissolved Solids	280	10	mg/L	293		95.6	61.4-114			

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
R-04	Duplicate relative percent difference (RPD) is a less useful indicator of sample precision for sample results that are <5 times the reporting limit (RL).

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SM21-22 2540C in Water	
Total Dissolved Solids	CT,MA,NH,NY,RI,NC,ME,VA
SM21-22 2540D in Water	
Total Suspended Solids	CT,MA,NH,NY,RI,NC,ME,VA

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	03/1/2020
MA	Massachusetts DEP	M-MA100	06/30/2019
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2019
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2019
RI	Rhode Island Department of Health	LAO00112	12/30/2018
NC	North Carolina Div. of Water Quality	652	12/31/2018
NJ	New Jersey DEP	MA007 NELAP	06/30/2019
FL	Florida Department of Health	E871027 NELAP	06/30/2019
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2019
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2018
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2019
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2019
NC-DW	North Carolina Department of Health	25703	07/31/2019

ALB

con-test® ANALYTICAL LABORATORY

181286

http://www.contestlabs.com

Doc # 380 Rev 1_03242017

Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com

CHAIN OF CUSTODY RECORD (New York)

39 Spruce Street
East Longmeadow, MA 01028

Company Name:	LAND remediation
Address:	74 Hudson River Road Waterford, NY
Phone:	
Project Name:	NYSDEC Saranac Lake Gas Co.
Project Location:	Saranac Lake Construction Water
Project Number:	
Project Manager:	Matthew Warren
Con-Test Quote Name/Number:	
Invoice Recipient:	mjw@land-remediation.com
Sampled By:	Vaughn Nelson, Kyle Jones

Requested Turnaround Time
7-Day ☐ 10-Day ☐
Due Date:

Rush-Approval Required
1-Day ☑ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
CLP Like Data Pkg Required: ☐
Email To: mjw@land-remediation.com
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	BOD-5	TDS	TSS	Oil & Grease 1664	8270 SVOC - PAH SIM	VOC 624.1 - (See Below)	VOC 8260 - Isopropyl Benzene & Toluene Only	608 PCB - 608 Pest - Endosulfan I, Heptachlor Epoxide	Metals- Pb, Zn, Cr.	pH	# of Containers
	OU2-WWTP-Eff-12	9/27/2018 14:32	9/27/2018 14:36	X		WW	L	x	x	x	x	x		x	x	x	x	
	OU2-WWTP-Eff-12	9/27/2018 14:37	9/27/2018 14:40		x	WW	L						x					

[2] Preservation Code
[3] Container Code

Dissolved Metals Samples
☐ Field Filtered
☐ Lab to Filter

Orthophosphate Samples
☐ Field Filtered
☐ Lab to Filter

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define)

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

[3] **Container Codes:**
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Comments: VOC 624.1 - Benzene, Ethyl Benzene, Xylenes Total, and 124 TMB

48 Hour TAT TDS/TSS ; 5 day TAT BOD and Oil & Grease

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Kyle Jones	Date/Time: 9/27
Received by: (signature)		Date/Time: 9-27-18 4:30 PM
Relinquished by: (signature)		Date/Time: 9-27-18 1930
Received by: (signature)	Paul Racine	Date/Time: 9-28-18 15:15
Relinquished by: (signature)	Paul Racine	Date/Time: 9-28-18 17:10
Received by: (signature)	9-28-18 17:10	Date/Time: 2.0

Program & Regulatory Information
☐ AWQ STDS ☐ NY TOGS
☐ NYC Sewer Discharge ☐ NY CP-51
☐ Part 360 GW (Landfill)
☐ NY Restricted Use
☐ NY Unrestricted Use
☐ NY Part 375

Deliverables
☐ Enhanced Data Package
☐ NYSDEC EQuIS EDD
☐ EQuIS (Standard) EDD
☐ NY Regulatory EDD
☐ NY Regs Hits-Only EDD

Other:
NELAP and AIHA-LAP, LLC Accredited

Other:
Project Entity
☑ Government ☐ Municipality ☐ MWRA ☐ WRTA
☐ Federal ☐ 21 J ☐ School
☐ City ☐ Brownfield ☐ MBTA

Other
☐ Chromatogram
☐ *AIHA-LAP,LLC*

PCB ONLY
☐ Soxhlet
☐ Non Soxhlet

Table of Contents

I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples_____

con-test® ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client Land Remediation **Received By** ESD Date 9-28-18 Time 17:10

How were the samples received? In Cooler T No Cooler _____ On Ice T No Ice _____ Direct from Sampling _____ Ambient _____ Melted Ice _____

By Gun # 573 Actual Temp - 2.6

Were samples within Temperature? 2-6°C T By Blank # _____ Actual Temp - _____

Was Custody Seal Intact? NA Were Samples Tampered with? NA

Was COC Relinquished ? T Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? T Were samples received within holding time? T

Did COC include all pertinent Information? Client T Project T Analysis T ID's T Sampler Name T Collection Dates/Times T

Are Sample labels filled out and legible? T

Are there Lab to Filters? F Who was notified? _____

Are there Rushes? T Who was notified? Luke

Are there Short Holds? F Who was notified? _____

Is there enough Volume? T

Is there Headspace where applicable? F MS/MSD? F

Proper Media/Containers Used? T Is splitting samples required? F

Were trip blanks received? F On COC? F

Do all samples have the proper pH? N/A Acid _____ Base _____

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic	@ 21	8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Comments:

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

October 4, 2018

Keith Decker
Land Remediation
74 Hudson River Road
Waterford, NY 12188

Project Location: Saranac Lake
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 18J0089

Enclosed are results of analyses for samples received by the laboratory on October 2, 2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Aaron L. Benoit
Project Manager

Table of Contents

Sample Summary 4

Case Narrative 5

Sample Results 6

18J0089-01 6

18J0089-02 11

Sample Preparation Information 13

QC Data 14

Volatile Organic Compounds by GC/MS 14

B213840 14

Volatile Organic Compounds by GC/MS 15

B213839 15

Semivolatile Organic Compounds by GC/MS 16

B213846 16

Organochloride Pesticides by GC/ECD 18

B213824 18

Polychlorinated Biphenyls By GC/ECD 19

B213823 19

Metals Analyses (Total) 20

B213850 20

B213851 20

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) 21

B213820 21

Pesticides Degradation Report 22

Dual Column RPD Report 23

Flag/Qualifier Summary 27

Table of Contents (continued)

Certifications 28

Chain of Custody/Sample Receipt 30

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Land Remediation
74 Hudson River Road
Waterford, NY 12188
ATTN: Keith Decker

REPORT DATE: 10/4/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18J0089

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Saranac Lake

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
OU2-WWTP-Eff-13	18J0089-01	Waste Water		EPA 200.7	
				EPA 200.8	
				EPA 608.3	
				SM21-22 4500 H B	
				SW-846 8270D	
OU2-WWTP-Eff-13	18J0089-02	Waste Water		EPA 624.1	
				SW-846 8260C	

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

For method 8270, only PAHs were requested and reported.

SM21-22 4500 H B

Qualifications:

H-05

Holding time was exceeded. pH analysis should be performed immediately at time of sampling. Nominal 15 minute holding time was exceeded.

Analyte & Samples(s) Qualified:

pH
18J0089-01[OU2-WWTP-Eff-13], B213820-DUP1

SW-846 8270D

Qualifications:

B-05

Data is not affected by elevated level in laboratory blank since sample(s) result is "Not Detected".

Analyte & Samples(s) Qualified:

Naphthalene (SIM)
B213846-BLK1

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Daren J. Damboragian
Director of Operations

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake | Sample Description: | Work Order: 18J0089

Date Received: 10/2/2018

Field Sample #: OU2-WWTP-Eff-13

Sample ID: 18J0089-01 | Start Date/Time: 10/1/2018 1:08:00PM

Sample Matrix: Waste Water | Stop Date/Time: 10/1/2018 1:11:00PM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene (SIM)	ND	0.30	0.060	µg/L	1		SW-846 8270D	10/2/18	10/3/18 9:53	IMR
Acenaphthylene (SIM)	ND	0.20	0.050	µg/L	1		SW-846 8270D	10/2/18	10/3/18 9:53	IMR
Anthracene (SIM)	ND	0.20	0.040	µg/L	1		SW-846 8270D	10/2/18	10/3/18 9:53	IMR
Benzo(a)anthracene (SIM)	0.079	0.050	0.050	µg/L	1		SW-846 8270D	10/2/18	10/3/18 9:53	IMR
Benzo(a)pyrene (SIM)	0.083	0.10	0.040	µg/L	1	J	SW-846 8270D	10/2/18	10/3/18 9:53	IMR
Benzo(b)fluoranthene (SIM)	0.070	0.050	0.020	µg/L	1		SW-846 8270D	10/2/18	10/3/18 9:53	IMR
Benzo(g,h,i)perylene (SIM)	ND	0.50	0.070	µg/L	1		SW-846 8270D	10/2/18	10/3/18 9:53	IMR
Benzo(k)fluoranthene (SIM)	0.027	0.040	0.020	µg/L	1	J	SW-846 8270D	10/2/18	10/3/18 10:50	IMR
Chrysene (SIM)	0.076	0.20	0.030	µg/L	1	J	SW-846 8270D	10/2/18	10/3/18 9:53	IMR
Dibenz(a,h)anthracene (SIM)	ND	0.10	0.040	µg/L	1		SW-846 8270D	10/2/18	10/3/18 9:53	IMR
Fluoranthene (SIM)	0.13	0.50	0.030	µg/L	1	J	SW-846 8270D	10/2/18	10/3/18 9:53	IMR
Fluorene (SIM)	ND	1.0	0.040	µg/L	1		SW-846 8270D	10/2/18	10/3/18 9:53	IMR
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.10	0.080	µg/L	1		SW-846 8270D	10/2/18	10/3/18 9:53	IMR
Naphthalene (SIM)	ND	1.0	0.070	µg/L	1		SW-846 8270D	10/2/18	10/3/18 9:53	IMR
Phenanthrene (SIM)	0.084	0.050	0.040	µg/L	1		SW-846 8270D	10/2/18	10/3/18 9:53	IMR
Pyrene (SIM)	0.21	1.0	0.030	µg/L	1	J	SW-846 8270D	10/2/18	10/3/18 9:53	IMR

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	81.1	30-130		10/3/18 9:53
Nitrobenzene-d5	81.3	30-130		10/3/18 10:50
2-Fluorobiphenyl	79.1	30-130		10/3/18 9:53
2-Fluorobiphenyl	57.4	30-130		10/3/18 10:50
p-Terphenyl-d14	58.3	30-130		10/3/18 9:53
p-Terphenyl-d14	52.0	30-130		10/3/18 10:50

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake | Sample Description: | Work Order: 18J0089

Date Received: 10/2/2018

Field Sample #: OU2-WWTP-Eff-13

Sample ID: 18J0089-01 | Start Date/Time: 10/1/2018 1:08:00PM

Sample Matrix: Waste Water | Stop Date/Time: 10/1/2018 1:11:00PM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Endosulfan I [1]	ND	0.010	0.00042	µg/L	1		EPA 608.3	10/2/18	10/3/18 11:58	TG
Heptachlor epoxide [1]	ND	0.010	0.00080	µg/L	1		EPA 608.3	10/2/18	10/3/18 11:58	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	92.7	30-150		10/3/18 11:58
Decachlorobiphenyl [2]	75.3	30-150		10/3/18 11:58
Tetrachloro-m-xylene [1]	77.7	30-150		10/3/18 11:58
Tetrachloro-m-xylene [2]	79.2	30-150		10/3/18 11:58

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake | Sample Description: | Work Order: 18J0089

Date Received: 10/2/2018

Field Sample #: OU2-WWTP-Eff-13

Sample ID: 18J0089-01 | Start Date/Time: 10/1/2018 1:08:00PM

Sample Matrix: Waste Water | Stop Date/Time: 10/1/2018 1:11:00PM

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.040	0.037	µg/L	1		EPA 608.3	10/2/18	10/3/18 10:57	TG
Aroclor-1221 [1]	ND	0.040	0.032	µg/L	1		EPA 608.3	10/2/18	10/3/18 10:57	TG
Aroclor-1232 [1]	ND	0.040	0.040	µg/L	1		EPA 608.3	10/2/18	10/3/18 10:57	TG
Aroclor-1242 [1]	ND	0.040	0.035	µg/L	1		EPA 608.3	10/2/18	10/3/18 10:57	TG
Aroclor-1248 [1]	ND	0.040	0.038	µg/L	1		EPA 608.3	10/2/18	10/3/18 10:57	TG
Aroclor-1254 [1]	ND	0.040	0.021	µg/L	1		EPA 608.3	10/2/18	10/3/18 10:57	TG
Aroclor-1260 [1]	ND	0.040	0.039	µg/L	1		EPA 608.3	10/2/18	10/3/18 10:57	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	91.6	30-150		10/3/18 10:57
Decachlorobiphenyl [2]	96.4	30-150		10/3/18 10:57
Tetrachloro-m-xylene [1]	91.6	30-150		10/3/18 10:57
Tetrachloro-m-xylene [2]	98.6	30-150		10/3/18 10:57

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake | Sample Description: | Work Order: 18J0089

Date Received: 10/2/2018

Field Sample #: OU2-WWTP-Eff-13

Sample ID: 18J0089-01 | Start Date/Time: 10/1/2018 1:08:00PM

Sample Matrix: Waste Water | Stop Date/Time: 10/1/2018 1:11:00PM

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Chromium	ND	0.0070	0.0061	mg/L	1		EPA 200.7	10/3/18	10/4/18 14:13	QNW
Lead	0.43	0.50	0.14	µg/L	1	J	EPA 200.8	10/3/18	10/4/18 12:24	MJH
Zinc	0.0061	0.010	0.0052	mg/L	1	J	EPA 200.7	10/3/18	10/4/18 14:13	QNW

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake | Sample Description: | Work Order: 18J0089

Date Received: 10/2/2018

Field Sample #: OU2-WWTP-Eff-13

Sample ID: 18J0089-01 | Start Date/Time: 10/1/2018 1:08:00PM

Sample Matrix: Waste Water | Stop Date/Time: 10/1/2018 1:11:00PM

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
pH @17.5°C	7.2		pH Units	1	H-05	SM21-22 4500 H B	10/2/18	10/2/18 19:32	LED

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake | Sample Description: | Work Order: 18J0089

Date Received: 10/2/2018

Field Sample #: OU2-WWTP-Eff-13

Sample ID: 18J0089-02 | Start Date/Time: 10/1/2018 1:11:00PM

Sample Matrix: Waste Water | Stop Date/Time: 10/1/2018 1:12:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Isopropylbenzene (Cumene)	ND	1.0	0.12	µg/L	1		SW-846 8260C	10/3/18	10/3/18 13:57	LBD
Toluene	ND	1.0	0.17	µg/L	1		SW-846 8260C	10/3/18	10/3/18 13:57	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	99.7	70-130		10/3/18 13:57
Toluene-d8	99.9	70-130		10/3/18 13:57
4-Bromofluorobenzene	105	70-130		10/3/18 13:57

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake | Sample Description: | Work Order: 18J0089

Date Received: 10/2/2018

Field Sample #: OU2-WWTP-Eff-13

Sample ID: 18J0089-02 | Start Date/Time: 10/1/2018 1:11:00PM

Sample Matrix: Waste Water | Stop Date/Time: 10/1/2018 1:12:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	1.0	0.34	µg/L	1		EPA 624.1	10/3/18	10/3/18 13:57	LBD
Ethylbenzene	ND	2.0	0.37	µg/L	1		EPA 624.1	10/3/18	10/3/18 13:57	LBD
1,2,4-Trimethylbenzene	ND	1.0	0.34	µg/L	1		EPA 624.1	10/3/18	10/3/18 13:57	LBD
Xylenes (total)	ND	3.0		µg/L	1		EPA 624.1	10/3/18	10/3/18 13:57	LBD
m+p Xylene	ND	2.0	0.65	µg/L	1		EPA 624.1	10/3/18	10/3/18 13:57	LBD
o-Xylene	ND	2.0	0.35	µg/L	1		EPA 624.1	10/3/18	10/3/18 13:57	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	99.7	70-130		10/3/18 13:57
Toluene-d8	99.9	70-130		10/3/18 13:57
4-Bromofluorobenzene	105	70-130		10/3/18 13:57

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: EPA 200.7-EPA 200.7

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18J0089-01 [OU2-WWTP-Eff-13]	B213850	50.0	50.0	10/03/18

Prep Method: EPA 200.8-EPA 200.8

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18J0089-01 [OU2-WWTP-Eff-13]	B213851	50.0	50.0	10/03/18

Prep Method: SW-846 3510C-EPA 608.3

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18J0089-01 [OU2-WWTP-Eff-13]	B213823	1000	2.00	10/02/18

Prep Method: SW-846 3510C-EPA 608.3

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18J0089-01 [OU2-WWTP-Eff-13]	B213824	1000	2.00	10/02/18

Prep Method: SW-846 5030B-EPA 624.1

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18J0089-02 [OU2-WWTP-Eff-13]	B213839	5	5.00	10/03/18

SM21-22 4500 H B

Lab Number [Field ID]	Batch	Initial [mL]	Date
18J0089-01 [OU2-WWTP-Eff-13]	B213820	50.0	10/02/18

Prep Method: SW-846 5030B-SW-846 8260C

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18J0089-02 [OU2-WWTP-Eff-13]	B213840	5	5.00	10/03/18

Prep Method: SW-846 3510C-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18J0089-01 [OU2-WWTP-Eff-13]	B213846	1000	1.00	10/02/18
18J0089-01RE1 [OU2-WWTP-Eff-13]	B213846	1000	0.200	10/02/18

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B213840 - SW-846 5030B										
Blank (B213840-BLK1)				Prepared & Analyzed: 10/03/18						
Isopropylbenzene (Cumene)	ND	1.0	µg/L							
Toluene	ND	1.0	µg/L							
Surrogate: 1,2-Dichloroethane-d4	*25.2*		µg/L	25.0		101	70-130			
Surrogate: Toluene-d8	*24.9*		µg/L	25.0		99.5	70-130			
Surrogate: 4-Bromofluorobenzene	*26.4*		µg/L	25.0		105	70-130			
LCS (B213840-BS1)				Prepared & Analyzed: 10/03/18						
Isopropylbenzene (Cumene)	22.0	1.0	µg/L	20.0		110	70-130			
Toluene	21.3	1.0	µg/L	20.0		107	70-130			
Surrogate: 1,2-Dichloroethane-d4	*24.6*		µg/L	25.0		98.4	70-130			
Surrogate: Toluene-d8	*25.3*		µg/L	25.0		101	70-130			
Surrogate: 4-Bromofluorobenzene	*26.2*		µg/L	25.0		105	70-130			
LCS Dup (B213840-BSD1)				Prepared & Analyzed: 10/03/18						
Isopropylbenzene (Cumene)	21.3	1.0	µg/L	20.0		106	70-130	3.28	25	
Toluene	20.3	1.0	µg/L	20.0		101	70-130	4.95	25	
Surrogate: 1,2-Dichloroethane-d4	*24.7*		µg/L	25.0		98.7	70-130			
Surrogate: Toluene-d8	*24.7*		µg/L	25.0		98.9	70-130			
Surrogate: 4-Bromofluorobenzene	*26.2*		µg/L	25.0		105	70-130			

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B213839 - SW-846 5030B										
Blank (B213839-BLK1)				Prepared & Analyzed: 10/03/18						
Benzene	ND	1.0	µg/L							
Ethylbenzene	ND	2.0	µg/L							
1,2,4-Trimethylbenzene	ND	1.0	µg/L							
Xylenes (total)	ND	3.0	µg/L							
m+p Xylene	ND	2.0	µg/L							
o-Xylene	ND	2.0	µg/L							
Surrogate: 1,2-Dichloroethane-d4	*25.2*		µg/L	25.0		101	70-130			
Surrogate: Toluene-d8	*24.9*		µg/L	25.0		99.5	70-130			
Surrogate: 4-Bromofluorobenzene	*26.4*		µg/L	25.0		105	70-130			
LCS (B213839-BS1)				Prepared & Analyzed: 10/03/18						
Benzene	19.1	1.0	µg/L	20.0		95.4	65-135			
Ethylbenzene	21.1	2.0	µg/L	20.0		106	60-140			
1,2,4-Trimethylbenzene	19.8	1.0	µg/L	20.0		99.2	70-130			
m+p Xylene	43.0	2.0	µg/L	40.0		108	70-130			
o-Xylene	21.5	2.0	µg/L	20.0		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	*24.6*		µg/L	25.0		98.4	70-130			
Surrogate: Toluene-d8	*25.3*		µg/L	25.0		101	70-130			
Surrogate: 4-Bromofluorobenzene	*26.2*		µg/L	25.0		105	70-130			

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B213846 - SW-846 3510C										
Blank (B213846-BLK1)				Prepared: 10/02/18 Analyzed: 10/03/18						
Acenaphthene (SIM)	ND	0.30	µg/L							
Acenaphthylene (SIM)	ND	0.20	µg/L							
Anthracene (SIM)	ND	0.20	µg/L							
Benzo(a)anthracene (SIM)	ND	0.050	µg/L							
Benzo(a)pyrene (SIM)	ND	0.10	µg/L							
Benzo(b)fluoranthene (SIM)	ND	0.050	µg/L							
Benzo(g,h,i)perylene (SIM)	ND	0.50	µg/L							
Benzo(k)fluoranthene (SIM)	ND	0.20	µg/L							
Chrysene (SIM)	ND	0.20	µg/L							
Dibenz(a,h)anthracene (SIM)	ND	0.10	µg/L							
Fluoranthene (SIM)	ND	0.50	µg/L							
Fluorene (SIM)	ND	1.0	µg/L							
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.10	µg/L							
Naphthalene (SIM)	0.15	1.0	µg/L							B-05, J
Phenanthrene (SIM)	ND	0.050	µg/L							
Pyrene (SIM)	ND	1.0	µg/L							
Surrogate: Nitrobenzene-d5	*86.2*		µg/L	100		86.2	30-130			
Surrogate: 2-Fluorobiphenyl	*88.5*		µg/L	100		88.5	30-130			
Surrogate: p-Terphenyl-d14	*93.8*		µg/L	100		93.8	30-130			
Blank (B213846-BLK2)				Prepared: 10/02/18 Analyzed: 10/03/18						
Benzo(k)fluoranthene (SIM)	ND	0.040	µg/L							
Surrogate: Nitrobenzene-d5	*67.8*		µg/L	100		67.8	30-130			
Surrogate: 2-Fluorobiphenyl	*52.7*		µg/L	100		52.7	30-130			
Surrogate: p-Terphenyl-d14	*65.6*		µg/L	100		65.6	30-130			
LCS (B213846-BS1)				Prepared: 10/02/18 Analyzed: 10/03/18						
Acenaphthene (SIM)	37.9	7.5	µg/L	50.0		75.8	40-140			
Acenaphthylene (SIM)	38.6	5.0	µg/L	50.0		77.3	40-140			
Anthracene (SIM)	41.7	5.0	µg/L	50.0		83.4	40-140			
Benzo(a)anthracene (SIM)	40.4	1.2	µg/L	50.0		80.8	40-140			
Benzo(a)pyrene (SIM)	42.3	2.5	µg/L	50.0		84.6	40-140			
Benzo(b)fluoranthene (SIM)	44.4	1.2	µg/L	50.0		88.8	40-140			
Benzo(g,h,i)perylene (SIM)	38.0	12	µg/L	50.0		76.0	40-140			
Benzo(k)fluoranthene (SIM)	41.8	5.0	µg/L	50.0		83.6	40-140			
Chrysene (SIM)	39.0	5.0	µg/L	50.0		78.1	40-140			
Dibenz(a,h)anthracene (SIM)	39.9	2.5	µg/L	50.0		79.8	40-140			
Fluoranthene (SIM)	40.5	12	µg/L	50.0		81.0	40-140			
Fluorene (SIM)	40.2	25	µg/L	50.0		80.4	40-140			
Indeno(1,2,3-cd)pyrene (SIM)	40.9	2.5	µg/L	50.0		81.8	40-140			
Naphthalene (SIM)	34.8	25	µg/L	50.0		69.6	40-140			
Phenanthrene (SIM)	39.3	1.2	µg/L	50.0		78.6	40-140			
Pyrene (SIM)	38.7	25	µg/L	50.0		77.4	40-140			
Surrogate: Nitrobenzene-d5	*70.6*		µg/L	100		70.6	30-130			
Surrogate: 2-Fluorobiphenyl	*64.8*		µg/L	100		64.8	30-130			
Surrogate: p-Terphenyl-d14	*56.5*		µg/L	100		56.5	30-130			

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B213846 - SW-846 3510C										
LCS Dup (B213846-BSD1)				Prepared: 10/02/18 Analyzed: 10/03/18						
Acenaphthene (SIM)	34.7	7.5	µg/L	50.0		69.4	40-140	8.81	20	
Acenaphthylene (SIM)	35.5	5.0	µg/L	50.0		71.0	40-140	8.43	20	
Anthracene (SIM)	37.0	5.0	µg/L	50.0		74.1	40-140	11.9	20	
Benzo(a)anthracene (SIM)	36.6	1.2	µg/L	50.0		73.3	40-140	9.67	20	
Benzo(a)pyrene (SIM)	38.6	2.5	µg/L	50.0		77.1	40-140	9.22	20	
Benzo(b)fluoranthene (SIM)	40.4	1.2	µg/L	50.0		80.8	40-140	9.49	20	
Benzo(g,h,i)perylene (SIM)	34.9	12	µg/L	50.0		69.8	40-140	8.51	20	
Benzo(k)fluoranthene (SIM)	38.3	5.0	µg/L	50.0		76.6	40-140	8.74	20	
Chrysene (SIM)	35.6	5.0	µg/L	50.0		71.2	40-140	9.24	20	
Dibenz(a,h)anthracene (SIM)	37.1	2.5	µg/L	50.0		74.2	40-140	7.34	20	
Fluoranthene (SIM)	36.2	12	µg/L	50.0		72.3	40-140	11.3	20	
Fluorene (SIM)	35.9	25	µg/L	50.0		71.8	40-140	11.3	20	
Indeno(1,2,3-cd)pyrene (SIM)	37.6	2.5	µg/L	50.0		75.2	40-140	8.54	20	‡
Naphthalene (SIM)	32.3	25	µg/L	50.0		64.6	40-140	7.45	20	
Phenanthrene (SIM)	35.4	1.2	µg/L	50.0		70.8	40-140	10.4	20	
Pyrene (SIM)	35.4	25	µg/L	50.0		70.8	40-140	8.91	20	
Surrogate: Nitrobenzene-d5	*64.3*		µg/L	100		64.3	30-130			
Surrogate: 2-Fluorobiphenyl	*59.5*		µg/L	100		59.5	30-130			
Surrogate: p-Terphenyl-d14	*51.5*		µg/L	100		51.5	30-130			

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B213824 - SW-846 3510C										
Blank (B213824-BLK1)				Prepared: 10/02/18 Analyzed: 10/03/18						
Endosulfan I	ND	0.010	µg/L							
Endosulfan I [2C]	ND	0.010	µg/L							
Heptachlor Epoxide	ND	0.010	µg/L							
Heptachlor Epoxide [2C]	ND	0.010	µg/L							
Surrogate: Decachlorobiphenyl	*0.490*		µg/L	0.400		123	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.402*		µg/L	0.400		100	30-150			
Surrogate: Tetrachloro-m-xylene	*0.370*		µg/L	0.400		92.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.384*		µg/L	0.400		96.0	30-150			
LCS (B213824-BS1)				Prepared: 10/02/18 Analyzed: 10/03/18						
Endosulfan I	0.86	0.050	µg/L	1.00		86.3	45-153			
Endosulfan I [2C]	0.88	0.050	µg/L	1.00		87.9	45-153			
Heptachlor Epoxide	0.85	0.050	µg/L	1.00		84.8	37-142			
Heptachlor Epoxide [2C]	0.86	0.050	µg/L	1.00		85.9	37-142			
Surrogate: Decachlorobiphenyl	*1.72*		µg/L	2.00		86.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.39*		µg/L	2.00		69.4	30-150			
Surrogate: Tetrachloro-m-xylene	*1.47*		µg/L	2.00		73.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.56*		µg/L	2.00		78.2	30-150			
LCS Dup (B213824-BSD1)				Prepared: 10/02/18 Analyzed: 10/03/18						
Endosulfan I	0.82	0.050	µg/L	1.00		82.5	45-153	4.46		
Endosulfan I [2C]	0.84	0.050	µg/L	1.00		83.9	45-153	4.71		
Heptachlor Epoxide	0.81	0.050	µg/L	1.00		80.8	37-142	4.79		
Heptachlor Epoxide [2C]	0.82	0.050	µg/L	1.00		82.0	37-142	4.62		
Surrogate: Decachlorobiphenyl	*1.29*		µg/L	2.00		64.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.05*		µg/L	2.00		52.4	30-150			
Surrogate: Tetrachloro-m-xylene	*1.40*		µg/L	2.00		69.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.47*		µg/L	2.00		73.5	30-150			

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B213823 - SW-846 3510C										
Blank (B213823-BLK1)				Prepared: 10/02/18 Analyzed: 10/03/18						
Aroclor-1016	ND	0.040	µg/L							
Aroclor-1016 [2C]	ND	0.040	µg/L							
Aroclor-1221	ND	0.040	µg/L							
Aroclor-1221 [2C]	ND	0.040	µg/L							
Aroclor-1232	ND	0.040	µg/L							
Aroclor-1232 [2C]	ND	0.040	µg/L							
Aroclor-1242	ND	0.040	µg/L							
Aroclor-1242 [2C]	ND	0.040	µg/L							
Aroclor-1248	ND	0.040	µg/L							
Aroclor-1248 [2C]	ND	0.040	µg/L							
Aroclor-1254	ND	0.040	µg/L							
Aroclor-1254 [2C]	ND	0.040	µg/L							
Aroclor-1260	ND	0.040	µg/L							
Aroclor-1260 [2C]	ND	0.040	µg/L							
Surrogate: Decachlorobiphenyl	*0.474*		µg/L	0.400		119	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.494*		µg/L	0.400		123	30-150			
Surrogate: Tetrachloro-m-xylene	*0.423*		µg/L	0.400		106	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.453*		µg/L	0.400		113	30-150			
LCS (B213823-BS1)				Prepared: 10/02/18 Analyzed: 10/03/18						
Aroclor-1016	0.54	0.20	µg/L	0.500		108	50-140			
Aroclor-1016 [2C]	0.54	0.20	µg/L	0.500		108	50-140			
Aroclor-1260	0.49	0.20	µg/L	0.500		98.2	8-140			
Aroclor-1260 [2C]	0.52	0.20	µg/L	0.500		103	8-140			
Surrogate: Decachlorobiphenyl	*1.74*		µg/L	2.00		87.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.82*		µg/L	2.00		90.9	30-150			
Surrogate: Tetrachloro-m-xylene	*1.57*		µg/L	2.00		78.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.69*		µg/L	2.00		84.4	30-150			
LCS Dup (B213823-BSD1)				Prepared: 10/02/18 Analyzed: 10/03/18						
Aroclor-1016	0.50	0.20	µg/L	0.500		101	50-140	6.78		
Aroclor-1016 [2C]	0.50	0.20	µg/L	0.500		100	50-140	7.22		
Aroclor-1260	0.50	0.20	µg/L	0.500		99.3	8-140	1.10		
Aroclor-1260 [2C]	0.51	0.20	µg/L	0.500		102	8-140	1.74		
Surrogate: Decachlorobiphenyl	*1.56*		µg/L	2.00		77.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.62*		µg/L	2.00		81.0	30-150			
Surrogate: Tetrachloro-m-xylene	*1.57*		µg/L	2.00		78.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.70*		µg/L	2.00		84.9	30-150			

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B213850 - EPA 200.7										
Blank (B213850-BLK1)				Prepared: 10/03/18 Analyzed: 10/04/18						
Chromium	ND	0.0070	mg/L							
Zinc	ND	0.010	mg/L							
LCS (B213850-BS1)				Prepared: 10/03/18 Analyzed: 10/04/18						
Chromium	0.509	0.0070	mg/L	0.500		102	85-115			
Zinc	1.05	0.010	mg/L	1.00		105	85-115			
LCS Dup (B213850-BSD1)				Prepared: 10/03/18 Analyzed: 10/04/18						
Chromium	0.513	0.0070	mg/L	0.500		103	85-115	0.736	20	
Zinc	1.06	0.010	mg/L	1.00		106	85-115	0.686	20	
Batch B213851 - EPA 200.8										
Blank (B213851-BLK1)				Prepared: 10/03/18 Analyzed: 10/04/18						
Lead	ND	0.50	µg/L							
LCS (B213851-BS1)				Prepared: 10/03/18 Analyzed: 10/04/18						
Lead	496	5.0	µg/L	500		99.3	85-115			
LCS Dup (B213851-BSD1)				Prepared: 10/03/18 Analyzed: 10/04/18						
Lead	508	5.0	µg/L	500		102	85-115	2.30	20	

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B213820 - SM21-22 4500 H B										
LCS (B213820-BS1)				Prepared & Analyzed: 10/02/18						
pH	5.98		pH Units	6.00		99.8	90-110			
Duplicate (B213820-DUP1)		**Source: 18J0089-01**		Prepared & Analyzed: 10/02/18						
pH	7.2		pH Units		7.2			0.391	5	H-05

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

BREAKDOWN REPORT

Lab Sample ID: **S027898-PEM1** **Analyzed:** **10/03/2018**

Column Number: **1**

Analyte	% Breakdown
4,4'-DDT [1]	2.51
Endrin [1]	2.86

Column Number: **2**

Analyte	% Breakdown
4,4'-DDT [2]	2.32
Endrin [2]	2.55

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

EPA 608.3

LCS

Lab Sample ID: B213823-BS1 Date(s) Analyzed 10/03/2018 10/03/2018

Instrument ID (1): ECD 9 Instrument ID (2): ECD 9

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.54	
	2	0.000	0.000	0.000	0.54	0.0
Aroclor-1260	1	0.000	0.000	0.000	0.49	
	2	0.000	0.000	0.000	0.52	5.9

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

EPA 608.3

LCS Dup

Lab Sample ID: B213823-BSD1 Date(s) Analyzed 10/03/2018 10/03/2018

Instrument ID (1): ECD 9 Instrument ID (2): ECD 9

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.50	
	2	0.000	0.000	0.000	0.50	0.0
Aroclor-1260	1	0.000	0.000	0.000	0.50	
	2	0.000	0.000	0.000	0.51	2.0

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

EPA 608.3

LCS

Lab Sample ID: B213824-BS1 Date(s) Analyzed 10/03/2018 10/03/2018

Instrument ID (1): ECD6 Instrument ID (2): ECD6

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Endosulfan I	1	6.652	0.000	0.000	0.86	
	2	6.623	0.000	0.000	0.88	2.3
Heptachlor Epoxide	1	6.380	0.000	0.000	0.85	
	2	6.354	0.000	0.000	0.86	1.2

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

EPA 608.3

LCS Dup

Lab Sample ID: B213824-BSD1 Date(s) Analyzed 10/03/2018 10/03/2018

Instrument ID (1): ECD6 Instrument ID (2): ECD6

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Endosulfan I	1	6.651	0.000	0.000	0.82	
	2	6.623	0.000	0.000	0.84	1.2
Heptachlor Epoxide	1	6.380	0.000	0.000	0.81	
	2	6.354	0.000	0.000	0.82	1.2

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
B-05	Data is not affected by elevated level in laboratory blank since sample(s) result is "Not Detected".
H-05	Holding time was exceeded. pH analysis should be performed immediately at time of sampling. Nominal 15 minute holding time was exceeded.
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
EPA 200.7 in Water	
Chromium	CT,MA,NH,NY,RI,NC,ME,VA
Zinc	CT,MA,NH,NY,RI,NC,ME,VA
EPA 200.8 in Water	
Lead	CT,MA,NH,NY,RI,NC,ME,VA
EPA 608.3 in Water	
Aroclor-1016	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1016 [2C]	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1221	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1221 [2C]	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1232	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1232 [2C]	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1242	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1242 [2C]	CT,MA,NH,NY,RI,NC,ME,VA
Endosulfan I	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1248	CT,MA,NH,NY,RI,NC,ME,VA
Endosulfan I [2C]	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1248 [2C]	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1254	CT,MA,NH,NY,RI,NC,ME,VA
Heptachlor Epoxide	CT,MA,NH,NY,RI,NC,ME,VA
Heptachlor Epoxide [2C]	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1254 [2C]	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1260	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1260 [2C]	CT,MA,NH,NY,RI,NC,ME,VA
EPA 624.1 in Water	
Benzene	CT,NY,RI,NC,MA,NH
Ethylbenzene	CT,NY,RI,NC,MA,NH
Toluene	CT,NY,RI,NC,MA,NH
1,2,4-Trimethylbenzene	MA
Xylenes (total)	NY,MA,NH
m+p Xylene	CT,NY,RI,NC,MA,NH
o-Xylene	CT,NY,RI,NC,MA,NH
SM21-22 4500 H B in Water	
pH	CT,MA,RI
SW-846 8260C in Water	
Benzene	CT,ME,NH,VA,NY
Ethylbenzene	CT,ME,NH,VA,NY
Isopropylbenzene (Cumene)	ME,VA,NY
Toluene	CT,ME,NH,VA,NY
1,2,4-Trimethylbenzene	ME,VA,NY
m+p Xylene	CT,ME,NH,VA,NY
o-Xylene	CT,ME,NH,VA,NY
Xylenes (total)	NY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	03/1/2020
MA	Massachusetts DEP	M-MA100	06/30/2019
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2019
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2019
RI	Rhode Island Department of Health	LAO00112	12/30/2018
NC	North Carolina Div. of Water Quality	652	12/31/2018
NJ	New Jersey DEP	MA007 NELAP	06/30/2019
FL	Florida Department of Health	E871027 NELAP	06/30/2019
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2019
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2018
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2019
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2019
NC-DW	North Carolina Department of Health	25703	07/31/2019

con-test ANALYTICAL LABORATORY
ALB

http://www.contestlabs.com

Doc # 380 Rev 1_03242017

Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com

18J6084 CHAIN OF CUSTODY RECORD (New York)

39 Spruce Street
East Longmeadow, MA 01028

Page ____ of ____

Company Name:	LAND remediation
Address:	74 Hudson River Road Waterford, NY
Phone:	
Project Name:	NYSDEC Saranac Lake Gas Co.
Project Location:	Saranac Lake Construction Water
Project Number:	
Project Manager:	Matthew Warren
Con-Test Quote Name/Number:	
Invoice Recipient:	mjw@land-remediation.com
Sampled By:	Vaughn Nelson, Kyle Jones

Requested Turnaround Time
7-Day ☐ 10-Day ☐
Due Date:

Rush-Approval Required
1-Day ☑ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
CLP Like Data Pkg Required: ☐
Email To: mjw@land-remediation.com
Fax To #:

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	BOD-5	TDS	TSS	Oil & Grease 1664	8270 SVOC - PAH SIM	VOC 624.1 - (See Below)	VOC 8260 - Isopropyl Benzene & Toluene Only	608 PCB - 608 Pest - Endosulfan I, Heptachlor Epoxide	Metals- Pb, Zn, Cr.	pH
1	OU2-WWTP-Eff-13	10/1/2018 13:08	10/1/2018 13:11	x		WW	L	x	x	x	x	x		x	x	x	x
2	OU2-WWTP-Eff-13	10/1/2018 13:11	10/1/2018 13:12		x	WW	L						x				

ANALYSIS REQUESTED

# of Containers												
[2] Preservation Code												
[3] Container Code												

Dissolved Metals Samples
☐ Field Filtered
☐ Lab to Filter

Orthophosphate Samples
☐ Field Filtered
☐ Lab to Filter

[1] Matrix Codes:
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define)

[2] Preservation Codes:
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

[3] Container Codes:
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Comments: VOC 624.1 - Benzene, Ethyl Benzene, Xylenes Total, and 124 TMB

48 Hour TAT TDS/TSS ; 5 day TAT BOD and Oil & Grease

Please use the following codes to indicate possible sample concentration within the **Conc Code** column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

	Date/Time:
Relinquished by: (signature)	10/2 9:00
Received by: (signature)	10-2-18 9:00
Relinquished by: (signature)	10-2-18 1400
Received by: (signature)	10-2-18 1400
Relinquished by: (signature)	10-2-18 1800
Received by: (signature) 5.3	10/2/18 18:00

Program & Regulatory Information
☐ AWQ STDS ☐ NY TOGS
☐ NYC Sewer Discharge ☐ NY CP-51
☐ Part 360 GW (Landfill)
☐ NY Restricted Use
☐ NY Unrestricted Use
☐ NY Part 375
Other:

Deliverables
☐ Enhanced Data Package
☐ NYSDEC EQuIS EDD
☐ EQuIS (Standard) EDD
☐ NY Regulatory EDD
☐ NY Regs Hits-Only EDD
Other:

NELAC and AIHA-LAP, LLC Accredited

Project Entity
☑ Government ☐ Municipality ☐ MWRA ☐ WRTA
☐ Federal ☐ 21 J ☐ School
☐ City ☐ Brownfield ☐ MBTA

Other
☐ Chromatogram
☐ *AIHA-LAP,LLC*

PCB ONLY
☐ Soxhlet
☐ Non Soxhlet

Table of Contents

I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples_____

con-test® ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client ~~LAMP~~ LAND

Received By NP Date 10/2/18 Time 1800

How were the samples received? In Cooler T No Cooler _____ On Ice T No Ice _____ Direct from Sampling _____ Ambient _____ Melted Ice _____

Were samples within Temperature? 2-6°C T By Gun # 527 Actual Temp - 5.3 By Blank # _____ Actual Temp - _____

Was Custody Seal Intact? N/A Were Samples Tampered with? N/A

Was COC Relinquished ? T Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? T Were samples received within holding time? T

Did COC include all pertinent Information? Client T Project T Analysis T ID's T Sampler Name T Collection Dates/Times T

Are Sample labels filled out and legible? T

Are there Lab to Filters? F Who was notified? _____

Are there Rushes? T Who was notified? Ray

Are there Short Holds? T Who was notified? Luke

Is there enough Volume? T

Is there Headspace where applicable? F MS/MSD? F

Proper Media/Containers Used? T Is splitting samples required? F

Were trip blanks received? F On COC? F

Do all samples have the proper pH? Acid T<2 Base _____

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.	6	1 Liter Plastic		16 oz Amb.	
HCL-	3	500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic	1	4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Comments:

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

October 9, 2018

Keith Decker
Land Remediation
74 Hudson River Road
Waterford, NY 12188

Project Location: Saranac Lake
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 18J0091

Enclosed are results of analyses for samples received by the laboratory on October 2, 2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Aaron L. Benoit
Project Manager

Table of Contents

Sample Summary 3

Case Narrative 4

Sample Results 5

18J0091-01 5

Sample Preparation Information 6

QC Data 7

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) 7

B213941 7

B214170 7

Flag/Qualifier Summary 8

Certifications 9

Chain of Custody/Sample Receipt 10

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Land Remediation
74 Hudson River Road
Waterford, NY 12188
ATTN: Keith Decker

REPORT DATE: 10/9/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18J0091

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Saranac Lake

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
OU2-WWTP-Eff-13	18J0091-01	Waste Water		EPA 1664B SM 21-22 5210B	

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Lisa A. Worthington
Project Manager

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake | Sample Description: | Work Order: 18J0091

Date Received: 10/2/2018

Field Sample #: OU2-WWTP-Eff-13

Sample ID: 18J0091-01 | Start Date/Time: 10/1/2018 1:08:00PM

Sample Matrix: Waste Water | Stop Date/Time: 10/1/2018 1:11:00PM

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Biochemical Oxygen Demand	ND	4.0	mg/L	1		SM 21-22 5210B	10/3/18	10/3/18 1:00	LED
Oil & Grease (HEM)	ND	1.4	mg/L	1		EPA 1664B	10/8/18	10/8/18 13:10	LL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

EPA 1664B

Lab Number [Field ID]	Batch	Initial [mL]	Date
18J0091-01 [OU2-WWTP-Eff-13]	B214170	1000	10/08/18

SM 21-22 5210B

Lab Number [Field ID]	Batch	Initial [mL]	Date
18J0091-01 [OU2-WWTP-Eff-13]	B213941	150	10/03/18

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B213941 - SM 21-22 5210B										
Blank (B213941-BLK1)				Prepared & Analyzed: 10/03/18						
Biochemical Oxygen Demand	ND	2.0	mg/L							
LCS (B213941-BS1)				Prepared & Analyzed: 10/03/18						
Biochemical Oxygen Demand	170	2.0	mg/L	198		88.1	85-115			
Batch B214170 - EPA 1664B										
Blank (B214170-BLK1)				Prepared & Analyzed: 10/08/18						
Oil & Grease (HEM)	ND	1.4	mg/L							
LCS (B214170-BS1)				Prepared & Analyzed: 10/08/18						
Oil & Grease (HEM)	20		mg/L	20.0		99.5	78-114			
Duplicate (B214170-DUP1)	**Source: 18J0091-01**			Prepared & Analyzed: 10/08/18						
Oil & Grease (HEM)	ND	1.4	mg/L		ND			NC	18	

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level

Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.

No results have been blank subtracted unless specified in the case narrative section.

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
EPA 1664B in Water	
Oil & Grease (HEM)	CT,MA,NH,NY,RI,NC,ME,VA
SM 21-22 5210B in Water	
Biochemical Oxygen Demand	CT,MA,NH,NY,RI,ME,VA,NC

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	03/1/2020
MA	Massachusetts DEP	M-MA100	06/30/2019
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2019
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2019
RI	Rhode Island Department of Health	LAO00112	12/30/2018
NC	North Carolina Div. of Water Quality	652	12/31/2018
NJ	New Jersey DEP	MA007 NELAP	06/30/2019
FL	Florida Department of Health	E871027 NELAP	06/30/2019
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2019
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2018
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2019
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2019
NC-DW	North Carolina Department of Health	25703	07/31/2019

con-test ANALYTICAL LABORATORY
ALB
Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com

18J0091 CHAIN OF CUSTODY RECORD (New York)

39 Spruce Street
East Longmeadow, MA 01028

Company Name:	LAND remediation
Address:	74 Hudson River Road Waterford, NY
Phone:	
Project Name:	NYSDEC Saranac Lake Gas Co.
Project Location:	Saranac Lake Construction Water
Project Number:	
Project Manager:	Matthew Warren
Con-Test Quote Name/Number:	
Invoice Recipient:	mjw@land-remediation.com
Sampled By:	Vaughn Nelson, Kyle Jones

Requested Turnaround Time
7-Day ☐ 10-Day ☐
Due Date:

Rush-Approval Required
1-Day ☑ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
CLP Like Data Pkg Required: ☐
Email To: mjw@land-remediation.com
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	BOD-5	TDS	TSS	Oil & Grease 1664	8270 SVOC - PAH SIM	VOC 624.1 - (See Below)	VOC 8260 - Isopropyl Benzene & Toluene Only	608 PCB - 608 Pest - Endosulfan I, Heptachlor Epoxide	Metals- Pb, Zn, Cr.	pH	# of Containers
	OU2-WWTP-Eff-13	10/1/2018 13:08	10/1/2018 13:11	X		WW	L	x	x	x	x	x		x	x	x	x	
	OU2-WWTP-Eff-13	10/1/2018 13:11	10/1/2018 13:12		x	WW	L						x					

[2] Preservation Code
[3] Container Code

Dissolved Metals Samples
☐ Field Filtered
☐ Lab to Filter

Orthophosphate Samples
☐ Field Filtered
☐ Lab to Filter

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define)

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

[3] **Container Codes:**
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Comments: VOC 624.1 - Benzene, Ethyl Benzene, Xylenes Total, and 124 TMB

48 Hour TAT TDS/TSS ; 5 day TAT BOD and Oil & Grease

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)		Date/Time: 10/2 9:00
Received by: (signature)		Date/Time: 10-2-18 9:00
Relinquished by: (signature)		Date/Time: 10-2-18 1400
Received by: (signature)		Date/Time: 10-2-18 1400
Relinquished by: (signature)		Date/Time: 10-2-18 1800
Received by: (signature)	5.3	Date/Time: 10/2/18 18:00

Program & Regulatory Information
☐ AWQ STDS ☐ NY TOGS
☐ NYC Sewer Discharge ☐ NY CP-51
☐ Part 360 GW (Landfill)
☐ NY Restricted Use
☐ NY Unrestricted Use
☐ NY Part 375
Other:

Deliverables
☐ Enhanced Data Package
☐ NYSDEC EQuIS EDD
☐ EQuIS (Standard) EDD
☐ NY Regulatory EDD
☐ NY Regs Hits-Only EDD
Other:

Project Entity
☑ Government ☐ Municipality ☐ MWRA ☐ WRTA
☐ Federal ☐ 21 J ☐ School
☐ City ☐ Brownfield ☐ MBTA

Other
☐ Chromatogram
☐ *AIHA-LAP,LLC*

PCB ONLY
☐ Soxhlet
☐ Non Soxhlet

Table of Contents

I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples_____

con-test® ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client ~~LAM~~ LAND

Received By NP Date 10/2/18 Time 1800

How were the samples received? In Cooler T No Cooler _____ On Ice T No Ice _____

Direct from Sampling _____ Ambient _____ Melted Ice _____

By Gun # 577 Actual Temp - 5.3

Were samples within Temperature? 2-6°C T By Blank # _____ Actual Temp - _____

Was Custody Seal Intact? N/A Were Samples Tampered with? N/A

Was COC Relinquished ? T Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? T Were samples received within holding time? T

Did COC include all pertinent Information? Client T Analysis T Sampler Name T

Project T ID's T Collection Dates/Times T

Are Sample labels filled out and legible? T

Are there Lab to Filters? F Who was notified? _____

Are there Rushes? F Who was notified? _____

Are there Short Holds? T Who was notified? Luke

Is there enough Volume? T

Is there Headspace where applicable? N/A MS/MSD? F

Proper Media/Containers Used? T Is splitting samples required? F

Were trip blanks received? F On COC? F

Do all samples have the proper pH? N/A Acid _____ Base _____

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.	2	1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic	1	8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Comments:

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

October 4, 2018

Keith Decker
Land Remediation
74 Hudson River Road
Waterford, NY 12188

Project Location: Saranac Lake
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 18J0090

Enclosed are results of analyses for samples received by the laboratory on October 2, 2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Aaron L. Benoit
Project Manager

Table of Contents

Sample Summary 3

Case Narrative 4

Sample Results 5

18J0090-01 5

Sample Preparation Information 7

QC Data 8

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) 8

B213835 8

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Dissolved) 9

B213834 9

Flag/Qualifier Summary 10

Certifications 11

Chain of Custody/Sample Receipt 12

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Land Remediation
74 Hudson River Road
Waterford, NY 12188
ATTN: Keith Decker

REPORT DATE: 10/4/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18J0090

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Saranac Lake

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
OU2-WWTP-Eff-13	18J0090-01	Waste Water		SM21-22 2540C SM21-22 2540D	

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Lisa A. Worthington
Project Manager

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake | Sample Description: | Work Order: 18J0090

Date Received: 10/2/2018

Field Sample #: OU2-WWTP-Eff-13

Sample ID: 18J0090-01 | Start Date/Time: 10/1/2018 1:08:00PM

Sample Matrix: Waste Water | Stop Date/Time: 10/1/2018 1:11:00PM

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Suspended Solids	10	2.0	mg/L	1		SM21-22 2540D	10/3/18	10/3/18 13:35	LL

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake | Sample Description: | Work Order: 18J0090

Date Received: 10/2/2018

Field Sample #: OU2-WWTP-Eff-13

Sample ID: 18J0090-01 | Start Date/Time: 10/1/2018 1:08:00PM

Sample Matrix: Waste Water | Stop Date/Time: 10/1/2018 1:11:00PM

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Dissolved)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Dissolved Solids	150	10	mg/L	1		SM21-22 2540C	10/3/18	10/3/18 13:45	LL

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

SM21-22 2540C

Lab Number [Field ID]	Batch	Initial [mL]	Date
18J0090-01 [OU2-WWTP-Eff-13]	B213834	50.0	10/03/18

SM21-22 2540D

Lab Number [Field ID]	Batch	Initial [mL]	Date
18J0090-01 [OU2-WWTP-Eff-13]	B213835	250	10/03/18

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B213835 - SM21-22 2540D										
Blank (B213835-BLK1)				Prepared & Analyzed: 10/03/18						
Total Suspended Solids	ND	2.5	mg/L							
LCS (B213835-BS1)				Prepared & Analyzed: 10/03/18						
Total Suspended Solids	224	20	mg/L	200		112	64.3-117			

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Dissolved) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B213834 - SM21-22 2540C										
Blank (B213834-BLK1)				Prepared & Analyzed: 10/03/18						
Total Dissolved Solids	ND	10	mg/L							
LCS (B213834-BS1)				Prepared & Analyzed: 10/03/18						
Total Dissolved Solids	310	10	mg/L	293		105	61.4-114			
Duplicate (B213834-DUP1)	**Source: 18J0090-01**			Prepared & Analyzed: 10/03/18						
Total Dissolved Solids	150	10	mg/L		150			1.32	5	

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level

Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.

No results have been blank subtracted unless specified in the case narrative section.

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SM21-22 2540C in Water	
Total Dissolved Solids	CT,MA,NH,NY,RI,NC,ME,VA
SM21-22 2540D in Water	
Total Suspended Solids	CT,MA,NH,NY,RI,NC,ME,VA

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	03/1/2020
MA	Massachusetts DEP	M-MA100	06/30/2019
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2019
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2019
RI	Rhode Island Department of Health	LAO00112	12/30/2018
NC	North Carolina Div. of Water Quality	652	12/31/2018
NJ	New Jersey DEP	MA007 NELAP	06/30/2019
FL	Florida Department of Health	E871027 NELAP	06/30/2019
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2019
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2018
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2019
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2019
NC-DW	North Carolina Department of Health	25703	07/31/2019

con-test ANALYTICAL LABORATORY
ALB
Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com
39 Spruce Street
East Longmeadow, MA 01028

1850090

CHAIN OF CUSTODY RECORD (New York)

Company Name:	LAND remediation
Address: 74 Hudson River Road Waterford, NY	
Phone:	
Project Name:	NYSDEC Saranac Lake Gas Co.
Project Location:	Saranac Lake Construction Water
Project Number:	
Project Manager:	Matthew Warren
Con-Test Quote Name/Number:	
Invoice Recipient:	mjw@land-remediation.com
Sampled By:	Vaughn Nelson, Kyle Jones

Requested Turnaround Time
7-Day ☐ 10-Day ☐
Due Date:

Rush-Approval Required
1-Day ☑ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
CLP Like Data Pkg Required: ☐
Email To: mjw@land-remediation.com
Fax To #:

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	BOD-5	TDS	TSS	Oil & Grease 1664	8270 SVOC - PAH SIM	VOC 624.1 - (See Below)	VOC 8260 - Isopropyl Benzene & Toluene Only	608 PCB - 608 Pest - Endosulfan I, Heptachlor Epoxide	Metals- Pb, Zn, Cr.	pH	# of Containers
	OU2-WWTP-Eff-13	10/1/2018 13:08	10/1/2018 13:11	X		WW	L	x	x	x	x	x		x	x	x	x	
	OU2-WWTP-Eff-13	10/1/2018 13:11	10/1/2018 13:12		x	WW	L						x					

ANALYSIS REQUESTED

[2] Preservation Code
[3] Container Code

Dissolved Metals Samples
☐ Field Filtered
☐ Lab to Filter

Orthophosphate Samples
☐ Field Filtered
☐ Lab to Filter

[1] Matrix Codes:
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define)

[2] Preservation Codes:
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

[3] Container Codes:
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Comments: VOC 624.1 - Benzene, Ethyl Benzene, Xylenes Total, and 124 TMB

48 Hour TAT TDS/TSS ; 5 day TAT BOD and Oil & Grease

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time: 10/2 9:00
Received by: (signature)	Date/Time: 10-2-18 9:00
Relinquished by: (signature)	Date/Time: 10-2-18 1400
Received by: (signature)	Date/Time: 10-2-18 1400
Relinquished by: (signature)	Date/Time: 10-2-18 1800
Received by: (signature) 5.3	Date/Time: 10/2/18 18:00

Program & Regulatory Information
☐ AWQ STDS ☐ NY TOGS
☐ NYC Sewer Discharge ☐ NY CP-51
☐ Part 360 GW (Landfill)
☐ NY Restricted Use
☐ NY Unrestricted Use
☐ NY Part 375
Other:

Deliverables
☐ Enhanced Data Package
☐ NYSDEC EQuIS EDD
☐ EQuIS (Standard) EDD
☐ NY Regulatory EDD
☐ NY Regs Hits-Only EDD
Other:

Project Entity
☑ Government ☐ Municipality ☐ MWRA ☐ WRTA
☐ Federal ☐ 21 J ☐ School
☐ City ☐ Brownfield ☐ MBTA

Other
☐ Chromatogram
☐ *AIHA-LAP,LLC*

PCB ONLY
☐ Soxhlet
☐ Non Soxhlet

Table of Contents

I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples_____

con-test® ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client ~~LAMP~~ LAND

Received By NP Date 10/2/18 Time 18:00

How were the samples received? In Cooler T No Cooler _____ On Ice T No Ice _____

Direct from Sampling _____ Ambient _____ Melted Ice _____

By Gun # 517 Actual Temp - 5.3

Were samples within Temperature? 2-6°C T By Blank # _____ Actual Temp - _____

Was Custody Seal Intact? N/A Were Samples Tampered with? N/A

Was COC Relinquished ? T Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? T Were samples received within holding time? T

Did COC include all pertinent Information? Client T Analysis T Sampler Name T

Project T ID's T Collection Dates/Times T

Are Sample labels filled out and legible? T

Are there Lab to Filters? F Who was notified? _____

Are there Rushes? T Who was notified? Luke

Are there Short Holds? F Who was notified? _____

Is there enough Volume? T

Is there Headspace where applicable? N/A MS/MSD? F

Proper Media/Containers Used? T Is splitting samples required? F

Were trip blanks received? F On COC? F

Do all samples have the proper pH? N/A Acid _____ Base _____

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic	1	8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Comments:

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

October 8, 2018

Keith Decker
Land Remediation
74 Hudson River Road
Waterford, NY 12188

Project Location: Saranac Lake
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 18J0207

Enclosed are results of analyses for samples received by the laboratory on October 4, 2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Aaron L. Benoit
Project Manager

Table of Contents

Sample Summary 3

Case Narrative 4

Sample Results 5

18J0207-01 5

18J0207-02 10

Sample Preparation Information 12

QC Data 13

Volatile Organic Compounds by GC/MS 13

B214019 13

Volatile Organic Compounds by GC/MS 14

B214018 14

Semivolatile Organic Compounds by GC/MS 15

B214080 15

Organochloride Pesticides by GC/ECD 17

B213988 17

Polychlorinated Biphenyls By GC/ECD 18

B213987 18

Metals Analyses (Total) 19

B214026 19

B214028 19

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) 20

B214048 20

Flag/Qualifier Summary 21

Certifications 22

Chain of Custody/Sample Receipt 24

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Land Remediation
74 Hudson River Road
Waterford, NY 12188
ATTN: Keith Decker

REPORT DATE: 10/8/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18J0207

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Saranac Lake

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
OU2-WWTP-Eff-14	18J0207-01	Waste Water		EPA 200.7	
				EPA 200.8	
				EPA 608.3	
				SM21-22 4500 H B	
				SW-846 8270D	
OU2-WWTP-Eff-14	18J0207-02	Waste Water		EPA 624.1	
				SW-846 8260C	

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

For method 8270, only PAHs were requested and reported.

SM21-22 4500 H B

Qualifications:

H-05

Holding time was exceeded. pH analysis should be performed immediately at time of sampling. Nominal 15 minute holding time was exceeded.

Analyte & Samples(s) Qualified:

pH

18J0207-01[OU2-WWTP-Eff-14], B214048-DUP1

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Lisa A. Worthington
Project Manager

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake | Sample Description: | Work Order: 18J0207

Date Received: 10/4/2018

Field Sample #: OU2-WWTP-Eff-14 | Sampled: 10/3/2018 14:53

Sample ID: 18J0207-01

Sample Matrix: Waste Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene (SIM)	ND	0.29	0.058	µg/L	1		SW-846 8270D	10/4/18	10/5/18 12:24	IMR
Acenaphthylene (SIM)	ND	0.19	0.048	µg/L	1		SW-846 8270D	10/4/18	10/5/18 12:24	IMR
Anthracene (SIM)	ND	0.19	0.038	µg/L	1		SW-846 8270D	10/4/18	10/5/18 12:24	IMR
Benzo(a)anthracene (SIM)	ND	0.048	0.048	µg/L	1		SW-846 8270D	10/4/18	10/5/18 12:24	IMR
Benzo(a)pyrene (SIM)	ND	0.096	0.038	µg/L	1		SW-846 8270D	10/4/18	10/5/18 12:24	IMR
Benzo(b)fluoranthene (SIM)	ND	0.048	0.019	µg/L	1		SW-846 8270D	10/4/18	10/5/18 12:24	IMR
Benzo(g,h,i)perylene (SIM)	ND	0.48	0.067	µg/L	1		SW-846 8270D	10/4/18	10/5/18 12:24	IMR
Benzo(k)fluoranthene (SIM)	ND	0.038	0.019	µg/L	1		SW-846 8270D	10/4/18	10/5/18 13:48	IMR
Chrysene (SIM)	ND	0.19	0.029	µg/L	1		SW-846 8270D	10/4/18	10/5/18 12:24	IMR
Dibenz(a,h)anthracene (SIM)	ND	0.096	0.038	µg/L	1		SW-846 8270D	10/4/18	10/5/18 12:24	IMR
Fluoranthene (SIM)	ND	0.48	0.029	µg/L	1		SW-846 8270D	10/4/18	10/5/18 12:24	IMR
Fluorene (SIM)	ND	0.96	0.038	µg/L	1		SW-846 8270D	10/4/18	10/5/18 12:24	IMR
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.096	0.077	µg/L	1		SW-846 8270D	10/4/18	10/5/18 12:24	IMR
Naphthalene (SIM)	ND	0.96	0.067	µg/L	1		SW-846 8270D	10/4/18	10/5/18 12:24	IMR
Phenanthrene (SIM)	ND	0.048	0.038	µg/L	1		SW-846 8270D	10/4/18	10/5/18 12:24	IMR
Pyrene (SIM)	ND	0.96	0.029	µg/L	1		SW-846 8270D	10/4/18	10/5/18 12:24	IMR

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	80.4	30-130		10/5/18 12:24
Nitrobenzene-d5	64.9	30-130		10/5/18 13:48
2-Fluorobiphenyl	75.4	30-130		10/5/18 12:24
2-Fluorobiphenyl	46.9	30-130		10/5/18 13:48
p-Terphenyl-d14	75.2	30-130		10/5/18 12:24
p-Terphenyl-d14	50.7	30-130		10/5/18 13:48

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake | Sample Description: | Work Order: 18J0207

Date Received: 10/4/2018

Field Sample #: OU2-WWTP-Eff-14 | Sampled: 10/3/2018 14:53

Sample ID: 18J0207-01

Sample Matrix: Waste Water

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Endosulfan I [1]	ND	0.0096	0.00041	µg/L	1		EPA 608.3	10/4/18	10/6/18 1:07	TG
Heptachlor epoxide [1]	ND	0.0096	0.00077	µg/L	1		EPA 608.3	10/4/18	10/6/18 1:07	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	91.5	30-150		10/6/18 1:07
Decachlorobiphenyl [2]	93.5	30-150		10/6/18 1:07
Tetrachloro-m-xylene [1]	43.8	30-150		10/6/18 1:07
Tetrachloro-m-xylene [2]	52.4	30-150		10/6/18 1:07

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake | Sample Description: | Work Order: 18J0207

Date Received: 10/4/2018

Field Sample #: OU2-WWTP-Eff-14 | Sampled: 10/3/2018 14:53

Sample ID: 18J0207-01

Sample Matrix: Waste Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.038	0.035	µg/L	1		EPA 608.3	10/4/18	10/5/18 14:02	TG
Aroclor-1221 [1]	ND	0.038	0.031	µg/L	1		EPA 608.3	10/4/18	10/5/18 14:02	TG
Aroclor-1232 [1]	ND	0.038	0.038	µg/L	1		EPA 608.3	10/4/18	10/5/18 14:02	TG
Aroclor-1242 [1]	ND	0.038	0.033	µg/L	1		EPA 608.3	10/4/18	10/5/18 14:02	TG
Aroclor-1248 [1]	ND	0.038	0.037	µg/L	1		EPA 608.3	10/4/18	10/5/18 14:02	TG
Aroclor-1254 [1]	ND	0.038	0.020	µg/L	1		EPA 608.3	10/4/18	10/5/18 14:02	TG
Aroclor-1260 [1]	ND	0.038	0.038	µg/L	1		EPA 608.3	10/4/18	10/5/18 14:02	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	90.3	30-150		10/5/18 14:02
Decachlorobiphenyl [2]	87.0	30-150		10/5/18 14:02
Tetrachloro-m-xylene [1]	79.9	30-150		10/5/18 14:02
Tetrachloro-m-xylene [2]	79.0	30-150		10/5/18 14:02

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake | Sample Description: | Work Order: 18J0207

Date Received: 10/4/2018

Field Sample #: OU2-WWTP-Eff-14 | Sampled: 10/3/2018 14:53

Sample ID: 18J0207-01

Sample Matrix: Waste Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Chromium	ND	0.0070	0.0061	mg/L	1		EPA 200.7	10/4/18	10/5/18 14:26	QNW
Lead	0.24	0.50	0.14	µg/L	1	J	EPA 200.8	10/4/18	10/5/18 19:17	MJH
Zinc	0.010	0.010	0.0052	mg/L	1		EPA 200.7	10/4/18	10/5/18 14:26	QNW

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake | Sample Description: | Work Order: 18J0207

Date Received: 10/4/2018

Field Sample #: OU2-WWTP-Eff-14 | Sampled: 10/3/2018 14:53

Sample ID: 18J0207-01

Sample Matrix: Waste Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
pH @23.7°C	6.9		pH Units	1	H-05	SM21-22 4500 H B	10/4/18	10/4/18 22:15	LED

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake | Sample Description: | Work Order: 18J0207

Date Received: 10/4/2018

Field Sample #: OU2-WWTP-Eff-14 | Sampled: 10/3/2018 14:54

Sample ID: 18J0207-02

Sample Matrix: Waste Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Isopropylbenzene (Cumene)	ND	1.0	0.12	µg/L	1		SW-846 8260C	10/4/18	10/5/18 7:26	EEH
Toluene	ND	1.0	0.17	µg/L	1		SW-846 8260C	10/4/18	10/5/18 7:26	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	80.5	70-130		10/5/18 7:26
Toluene-d8	101	70-130		10/5/18 7:26
4-Bromofluorobenzene	97.4	70-130		10/5/18 7:26

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake | Sample Description: | Work Order: 18J0207

Date Received: 10/4/2018

Field Sample #: OU2-WWTP-Eff-14 | Sampled: 10/3/2018 14:54

Sample ID: 18J0207-02

Sample Matrix: Waste Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	1.0	0.34	µg/L	1		EPA 624.1	10/4/18	10/5/18 7:26	EEH
Ethylbenzene	ND	2.0	0.37	µg/L	1		EPA 624.1	10/4/18	10/5/18 7:26	EEH
1,2,4-Trimethylbenzene	ND	1.0	0.34	µg/L	1		EPA 624.1	10/4/18	10/5/18 7:26	EEH
Xylenes (total)	ND	3.0		µg/L	1		EPA 624.1	10/4/18	10/5/18 7:26	EEH
m+p Xylene	ND	2.0	0.65	µg/L	1		EPA 624.1	10/4/18	10/5/18 7:26	EEH
o-Xylene	ND	2.0	0.35	µg/L	1		EPA 624.1	10/4/18	10/5/18 7:26	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual		
1,2-Dichloroethane-d4	80.5	70-130		10/5/18 7:26	
Toluene-d8	101	70-130		10/5/18 7:26	
4-Bromofluorobenzene	97.4	70-130		10/5/18 7:26	

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: EPA 200.7-EPA 200.7

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18J0207-01 [OU2-WWTP-Eff-14]	B214026	50.0	50.0	10/04/18

Prep Method: EPA 200.8-EPA 200.8

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18J0207-01 [OU2-WWTP-Eff-14]	B214028	50.0	50.0	10/04/18

Prep Method: SW-846 3510C-EPA 608.3

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18J0207-01 [OU2-WWTP-Eff-14]	B213987	1040	2.00	10/04/18

Prep Method: SW-846 3510C-EPA 608.3

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18J0207-01 [OU2-WWTP-Eff-14]	B213988	1040	2.00	10/04/18

Prep Method: SW-846 5030B-EPA 624.1

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18J0207-02 [OU2-WWTP-Eff-14]	B214018	5	5.00	10/04/18

SM21-22 4500 H B

Lab Number [Field ID]	Batch	Initial [mL]	Date
18J0207-01 [OU2-WWTP-Eff-14]	B214048	50.0	10/04/18

Prep Method: SW-846 5030B-SW-846 8260C

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18J0207-02 [OU2-WWTP-Eff-14]	B214019	5	5.00	10/04/18

Prep Method: SW-846 3510C-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18J0207-01 [OU2-WWTP-Eff-14]	B214080	1040	1.00	10/04/18
18J0207-01RE1 [OU2-WWTP-Eff-14]	B214080	1040	0.200	10/04/18

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B214019 - SW-846 5030B										
Blank (B214019-BLK1)				Prepared: 10/04/18 Analyzed: 10/05/18						
Isopropylbenzene (Cumene)	ND	1.0	µg/L							
Toluene	ND	1.0	µg/L							
Surrogate: 1,2-Dichloroethane-d4	*20.4*		µg/L	25.0		81.8	70-130			
Surrogate: Toluene-d8	*25.0*		µg/L	25.0		100	70-130			
Surrogate: 4-Bromofluorobenzene	*24.6*		µg/L	25.0		98.5	70-130			
LCS (B214019-BS1)				Prepared: 10/04/18 Analyzed: 10/05/18						
Isopropylbenzene (Cumene)	22.6	1.0	µg/L	20.0		113	70-130			
Toluene	20.6	1.0	µg/L	20.0		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	*20.3*		µg/L	25.0		81.1	70-130			
Surrogate: Toluene-d8	*25.1*		µg/L	25.0		100	70-130			
Surrogate: 4-Bromofluorobenzene	*24.9*		µg/L	25.0		99.4	70-130			
LCS Dup (B214019-BSD1)				Prepared: 10/04/18 Analyzed: 10/05/18						
Isopropylbenzene (Cumene)	22.8	1.0	µg/L	20.0		114	70-130	0.529	25	
Toluene	20.4	1.0	µg/L	20.0		102	70-130	0.976	25	
Surrogate: 1,2-Dichloroethane-d4	*20.4*		µg/L	25.0		81.5	70-130			
Surrogate: Toluene-d8	*25.2*		µg/L	25.0		101	70-130			
Surrogate: 4-Bromofluorobenzene	*25.0*		µg/L	25.0		99.8	70-130			

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B214018 - SW-846 5030B										
Blank (B214018-BLK1)				Prepared: 10/04/18 Analyzed: 10/05/18						
Benzene	ND	1.0	µg/L							
Ethylbenzene	ND	2.0	µg/L							
1,2,4-Trimethylbenzene	ND	1.0	µg/L							
Xylenes (total)	ND	3.0	µg/L							
m+p Xylene	ND	2.0	µg/L							
o-Xylene	ND	2.0	µg/L							
Surrogate: 1,2-Dichloroethane-d4	*20.4*		µg/L	25.0		81.8	70-130			
Surrogate: Toluene-d8	*25.0*		µg/L	25.0		100	70-130			
Surrogate: 4-Bromofluorobenzene	*24.6*		µg/L	25.0		98.5	70-130			
LCS (B214018-BS1)				Prepared: 10/04/18 Analyzed: 10/05/18						
Benzene	19.0	1.0	µg/L	20.0		94.8	65-135			
Ethylbenzene	21.7	2.0	µg/L	20.0		108	60-140			
1,2,4-Trimethylbenzene	20.0	1.0	µg/L	20.0		99.8	70-130			
m+p Xylene	41.4	2.0	µg/L	40.0		103	70-130			
o-Xylene	20.7	2.0	µg/L	20.0		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	*20.4*		µg/L	25.0		81.5	70-130			
Surrogate: Toluene-d8	*25.2*		µg/L	25.0		101	70-130			
Surrogate: 4-Bromofluorobenzene	*25.0*		µg/L	25.0		99.8	70-130			

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B214080 - SW-846 3510C										
Blank (B214080-BLK1)				Prepared: 10/04/18 Analyzed: 10/05/18						
Acenaphthene (SIM)	ND	0.30	µg/L							
Acenaphthylene (SIM)	ND	0.20	µg/L							
Anthracene (SIM)	ND	0.20	µg/L							
Benzo(a)anthracene (SIM)	ND	0.050	µg/L							
Benzo(a)pyrene (SIM)	ND	0.10	µg/L							
Benzo(b)fluoranthene (SIM)	ND	0.050	µg/L							
Benzo(g,h,i)perylene (SIM)	ND	0.50	µg/L							
Chrysene (SIM)	ND	0.20	µg/L							
Dibenz(a,h)anthracene (SIM)	ND	0.10	µg/L							
Fluoranthene (SIM)	ND	0.50	µg/L							
Fluorene (SIM)	ND	1.0	µg/L							
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.10	µg/L							
Naphthalene (SIM)	ND	1.0	µg/L							
Phenanthrene (SIM)	ND	0.050	µg/L							
Pyrene (SIM)	ND	1.0	µg/L							
Surrogate: Nitrobenzene-d5	*80.0*		µg/L	100		80.0	30-130			
Surrogate: 2-Fluorobiphenyl	*85.2*		µg/L	100		85.2	30-130			
Surrogate: p-Terphenyl-d14	*89.8*		µg/L	100		89.8	30-130			
Blank (B214080-BLK2)				Prepared: 10/04/18 Analyzed: 10/05/18						
Benzo(k)fluoranthene (SIM)	ND	0.040	µg/L							
Surrogate: Nitrobenzene-d5	*48.1*		µg/L	100		48.1	30-130			
Surrogate: 2-Fluorobiphenyl	*40.3*		µg/L	100		40.3	30-130			
Surrogate: p-Terphenyl-d14	*57.5*		µg/L	100		57.5	30-130			
LCS (B214080-BS1)				Prepared: 10/04/18 Analyzed: 10/05/18						
Acenaphthene (SIM)	31.8	7.5	µg/L	50.0		63.6	40-140			
Acenaphthylene (SIM)	32.2	5.0	µg/L	50.0		64.4	40-140			
Anthracene (SIM)	36.3	5.0	µg/L	50.0		72.6	40-140			
Benzo(a)anthracene (SIM)	36.0	1.2	µg/L	50.0		72.0	40-140			
Benzo(a)pyrene (SIM)	37.8	2.5	µg/L	50.0		75.5	40-140			
Benzo(b)fluoranthene (SIM)	38.4	1.2	µg/L	50.0		76.9	40-140			
Benzo(g,h,i)perylene (SIM)	36.4	12	µg/L	50.0		72.8	40-140			
Benzo(k)fluoranthene (SIM)	36.4	5.0	µg/L	50.0		72.8	40-140			
Chrysene (SIM)	35.4	5.0	µg/L	50.0		70.8	40-140			
Dibenz(a,h)anthracene (SIM)	37.0	2.5	µg/L	50.0		74.0	40-140			
Fluoranthene (SIM)	36.3	12	µg/L	50.0		72.6	40-140			
Fluorene (SIM)	34.0	25	µg/L	50.0		68.0	40-140			
Indeno(1,2,3-cd)pyrene (SIM)	37.8	2.5	µg/L	50.0		75.6	40-140			
Naphthalene (SIM)	28.4	25	µg/L	50.0		56.8	40-140			
Phenanthrene (SIM)	34.0	1.2	µg/L	50.0		68.0	40-140			
Pyrene (SIM)	33.1	25	µg/L	50.0		66.2	40-140			
Surrogate: Nitrobenzene-d5	*46.5*		µg/L	100		46.5	30-130			
Surrogate: 2-Fluorobiphenyl	*53.3*		µg/L	100		53.3	30-130			
Surrogate: p-Terphenyl-d14	*51.6*		µg/L	100		51.6	30-130			

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B214080 - SW-846 3510C										
LCS Dup (B214080-BSD1)				Prepared: 10/04/18 Analyzed: 10/05/18						
Acenaphthene (SIM)	32.6	7.5	µg/L	50.0		65.3	40-140	2.72	20	
Acenaphthylene (SIM)	33.3	5.0	µg/L	50.0		66.6	40-140	3.51	20	
Anthracene (SIM)	37.0	5.0	µg/L	50.0		74.0	40-140	1.98	20	
Benzo(a)anthracene (SIM)	37.8	1.2	µg/L	50.0		75.7	40-140	4.94	20	
Benzo(a)pyrene (SIM)	38.6	2.5	µg/L	50.0		77.2	40-140	2.23	20	
Benzo(b)fluoranthene (SIM)	39.5	1.2	µg/L	50.0		79.0	40-140	2.76	20	
Benzo(g,h,i)perylene (SIM)	37.0	12	µg/L	50.0		74.1	40-140	1.77	20	
Benzo(k)fluoranthene (SIM)	37.2	5.0	µg/L	50.0		74.4	40-140	2.17	20	
Chrysene (SIM)	36.1	5.0	µg/L	50.0		72.2	40-140	1.82	20	
Dibenz(a,h)anthracene (SIM)	37.7	2.5	µg/L	50.0		75.4	40-140	1.81	20	
Fluoranthene (SIM)	36.6	12	µg/L	50.0		73.2	40-140	0.823	20	
Fluorene (SIM)	34.6	25	µg/L	50.0		69.3	40-140	1.97	20	
Indeno(1,2,3-cd)pyrene (SIM)	38.5	2.5	µg/L	50.0		77.0	40-140	1.90	20	‡
Naphthalene (SIM)	29.2	25	µg/L	50.0		58.4	40-140	2.69	20	
Phenanthrene (SIM)	34.8	1.2	µg/L	50.0		69.6	40-140	2.32	20	
Pyrene (SIM)	34.0	25	µg/L	50.0		68.0	40-140	2.76	20	
Surrogate: Nitrobenzene-d5	*51.8*		µg/L	100		51.8	30-130			
Surrogate: 2-Fluorobiphenyl	*56.6*		µg/L	100		56.6	30-130			
Surrogate: p-Terphenyl-d14	*52.0*		µg/L	100		52.0	30-130			

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B213988 - SW-846 3510C										
Blank (B213988-BLK1)				Prepared: 10/04/18 Analyzed: 10/05/18						
Endosulfan I	ND	0.010	µg/L							
Endosulfan I [2C]	ND	0.010	µg/L							
Heptachlor Epoxide	ND	0.010	µg/L							
Heptachlor Epoxide [2C]	ND	0.010	µg/L							
Surrogate: Decachlorobiphenyl	*0.291*		µg/L	0.400		72.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.306*		µg/L	0.400		76.5	30-150			
Surrogate: Tetrachloro-m-xylene	*0.159*		µg/L	0.400		39.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.198*		µg/L	0.400		49.5	30-150			
LCS (B213988-BS1)				Prepared: 10/04/18 Analyzed: 10/05/18						
Endosulfan I	0.81	0.050	µg/L	1.00		81.3	45-153			
Endosulfan I [2C]	0.85	0.050	µg/L	1.00		84.7	45-153			
Heptachlor Epoxide	0.79	0.050	µg/L	1.00		79.2	37-142			
Heptachlor Epoxide [2C]	0.81	0.050	µg/L	1.00		80.6	37-142			
Surrogate: Decachlorobiphenyl	*1.68*		µg/L	2.00		84.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.76*		µg/L	2.00		87.8	30-150			
Surrogate: Tetrachloro-m-xylene	*0.924*		µg/L	2.00		46.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.17*		µg/L	2.00		58.5	30-150			
LCS Dup (B213988-BSD1)				Prepared: 10/04/18 Analyzed: 10/05/18						
Endosulfan I	0.85	0.050	µg/L	1.00		84.5	45-153	3.92		
Endosulfan I [2C]	0.88	0.050	µg/L	1.00		88.3	45-153	4.18		
Heptachlor Epoxide	0.82	0.050	µg/L	1.00		82.4	37-142	3.89		
Heptachlor Epoxide [2C]	0.84	0.050	µg/L	1.00		84.3	37-142	4.41		
Surrogate: Decachlorobiphenyl	*1.77*		µg/L	2.00		88.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.85*		µg/L	2.00		92.5	30-150			
Surrogate: Tetrachloro-m-xylene	*0.957*		µg/L	2.00		47.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.19*		µg/L	2.00		59.5	30-150			

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B213987 - SW-846 3510C										
Blank (B213987-BLK1)				Prepared: 10/04/18 Analyzed: 10/05/18						
Aroclor-1016	ND	0.040	µg/L							
Aroclor-1016 [2C]	ND	0.040	µg/L							
Aroclor-1221	ND	0.040	µg/L							
Aroclor-1221 [2C]	ND	0.040	µg/L							
Aroclor-1232	ND	0.040	µg/L							
Aroclor-1232 [2C]	ND	0.040	µg/L							
Aroclor-1242	ND	0.040	µg/L							
Aroclor-1242 [2C]	ND	0.040	µg/L							
Aroclor-1248	ND	0.040	µg/L							
Aroclor-1248 [2C]	ND	0.040	µg/L							
Aroclor-1254	ND	0.040	µg/L							
Aroclor-1254 [2C]	ND	0.040	µg/L							
Aroclor-1260	ND	0.040	µg/L							
Aroclor-1260 [2C]	ND	0.040	µg/L							
Surrogate: Decachlorobiphenyl	*0.293*		µg/L	0.400		73.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.285*		µg/L	0.400		71.3	30-150			
Surrogate: Tetrachloro-m-xylene	*0.257*		µg/L	0.400		64.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.263*		µg/L	0.400		65.7	30-150			
LCS (B213987-BS1)				Prepared: 10/04/18 Analyzed: 10/05/18						
Aroclor-1016	0.53	0.20	µg/L	0.500		106	50-140			
Aroclor-1016 [2C]	0.54	0.20	µg/L	0.500		109	50-140			
Aroclor-1260	0.50	0.20	µg/L	0.500		100	8-140			
Aroclor-1260 [2C]	0.53	0.20	µg/L	0.500		105	8-140			
Surrogate: Decachlorobiphenyl	*1.62*		µg/L	2.00		81.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.58*		µg/L	2.00		78.9	30-150			
Surrogate: Tetrachloro-m-xylene	*1.60*		µg/L	2.00		80.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.64*		µg/L	2.00		81.9	30-150			
LCS Dup (B213987-BSD1)				Prepared: 10/04/18 Analyzed: 10/05/18						
Aroclor-1016	0.53	0.20	µg/L	0.500		105	50-140	0.507		
Aroclor-1016 [2C]	0.53	0.20	µg/L	0.500		107	50-140	1.78		
Aroclor-1260	0.51	0.20	µg/L	0.500		103	8-140	2.09		
Aroclor-1260 [2C]	0.53	0.20	µg/L	0.500		107	8-140	1.82		
Surrogate: Decachlorobiphenyl	*1.69*		µg/L	2.00		84.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.65*		µg/L	2.00		82.5	30-150			
Surrogate: Tetrachloro-m-xylene	*1.59*		µg/L	2.00		79.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.62*		µg/L	2.00		80.9	30-150			

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B214026 - EPA 200.7										
Blank (B214026-BLK1)				Prepared: 10/04/18 Analyzed: 10/05/18						
Chromium	ND	0.0070	mg/L							
Zinc	ND	0.010	mg/L							
LCS (B214026-BS1)				Prepared: 10/04/18 Analyzed: 10/05/18						
Chromium	0.516	0.0070	mg/L	0.500		103	85-115			
Zinc	1.06	0.010	mg/L	1.00		106	85-115			
LCS Dup (B214026-BSD1)				Prepared: 10/04/18 Analyzed: 10/05/18						
Chromium	0.456	0.0070	mg/L	0.500		91.2	85-115	12.3	20	
Zinc	0.943	0.010	mg/L	1.00		94.3	85-115	11.8	20	
Batch B214028 - EPA 200.8										
Blank (B214028-BLK1)				Prepared: 10/04/18 Analyzed: 10/05/18						
Lead	ND	0.50	µg/L							
LCS (B214028-BS1)				Prepared: 10/04/18 Analyzed: 10/05/18						
Lead	523	5.0	µg/L	500		105	85-115			
LCS Dup (B214028-BSD1)				Prepared: 10/04/18 Analyzed: 10/05/18						
Lead	532	5.0	µg/L	500		106	85-115	1.60	20	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B214048 - SM21-22 4500 H B										
LCS (B214048-BS1)				Prepared & Analyzed: 10/04/18						
pH	6.02		pH Units	6.00		100	90-110			
Duplicate (B214048-DUP1)	**Source: 18J0207-01**			Prepared & Analyzed: 10/04/18						
pH	6.9		pH Units		6.9			0.202	5	H-05

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
H-05	Holding time was exceeded. pH analysis should be performed immediately at time of sampling. Nominal 15 minute holding time was exceeded.
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
EPA 200.7 in Water	
Chromium	CT,MA,NH,NY,RI,NC,ME,VA
Zinc	CT,MA,NH,NY,RI,NC,ME,VA
EPA 200.8 in Water	
Lead	CT,MA,NH,NY,RI,NC,ME,VA
EPA 608.3 in Water	
Aroclor-1016	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1016 [2C]	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1221	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1221 [2C]	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1232	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1232 [2C]	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1242	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1242 [2C]	CT,MA,NH,NY,RI,NC,ME,VA
Endosulfan I	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1248	CT,MA,NH,NY,RI,NC,ME,VA
Endosulfan I [2C]	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1248 [2C]	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1254	CT,MA,NH,NY,RI,NC,ME,VA
Heptachlor Epoxide	CT,MA,NH,NY,RI,NC,ME,VA
Heptachlor Epoxide [2C]	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1254 [2C]	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1260	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1260 [2C]	CT,MA,NH,NY,RI,NC,ME,VA
EPA 624.1 in Water	
Benzene	CT,NY,RI,NC,MA,NH
Ethylbenzene	CT,NY,RI,NC,MA,NH
Toluene	CT,NY,RI,NC,MA,NH
1,2,4-Trimethylbenzene	MA
Xylenes (total)	NY,MA,NH
m+p Xylene	CT,NY,RI,NC,MA,NH
o-Xylene	CT,NY,RI,NC,MA,NH
SM21-22 4500 H B in Water	
pH	CT,MA,RI
SW-846 8260C in Water	
Benzene	CT,ME,NH,VA,NY
Ethylbenzene	CT,ME,NH,VA,NY
Isopropylbenzene (Cumene)	ME,VA,NY
Toluene	CT,ME,NH,VA,NY
1,2,4-Trimethylbenzene	ME,VA,NY
m+p Xylene	CT,ME,NH,VA,NY
o-Xylene	CT,ME,NH,VA,NY
Xylenes (total)	NY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	03/1/2020
MA	Massachusetts DEP	M-MA100	06/30/2019
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2019
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2019
RI	Rhode Island Department of Health	LAO00112	12/30/2018
NC	North Carolina Div. of Water Quality	652	12/31/2018
NJ	New Jersey DEP	MA007 NELAP	06/30/2019
FL	Florida Department of Health	E871027 NELAP	06/30/2019
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2019
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2018
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2019
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2019
NC-DW	North Carolina Department of Health	25703	07/31/2019

18J020T

con-test ANALYTICAL LABORATORY

Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com

http://www.contestlabs.com Doc # 380 Rev 1_03242017

CHAIN OF CUSTODY RECORD (New York)

39 Spruce Street
East Longmeadow, MA 01028

Company Name:	LAND remediation
Address:	74 Hudson River Road Waterford, NY
Phone:	
Project Name:	NYSDEC Saranac Lake Gas Co.
Project Location:	Saranac Lake Construction Water
Project Number:	
Project Manager:	Matthew Warren
Con-Test Quote Name/Number:	
Invoice Recipient:	mjw@land-remediation.com
Sampled By:	Vaughn Nelson, Kyle Jones

Requested Turnaround Time
7-Day ☐ 10-Day ☐
Due Date:

Rush Approval Required
1-Day ☑ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
CLP Like Data Pkg Required: ☐
Email To: mjw@land-remediation.com
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	BOD-5	TDS	TSS	Oil & Grease 1664	8270 SVOC - PAH SIM	VOC 624.1 - (See Below)	VOC 8260 - Isopropyl Benzene & Toluene Only	608 PCB - 608 Pest - Endosulfan I, Heptachlor Epoxide	Metals- Pb, Zn, Cr.	pH	# of Containers
1	OU2-WWTP-Eff-14	10/3/2018 14:49	10/3/2018 14:53	X		WW	L	x	x	x	x	x		x	x	x	x	
2	OU2-WWTP-Eff-14	10/3/2018 14:53	10/3/2018 14:54		x	WW	L						x					

[2] Preservation Code
[3] Container Code

Dissolved Metals Samples
☐ Field Filtered
☐ Lab to Filter

Orthophosphate Samples
☐ Field Filtered
☐ Lab to Filter

[1] Matrix Codes:
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define)

[2] Preservation Codes:
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

[3] Container Codes:
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Comments: VOC 624.1 - Benzene, Ethyl Benzene, Xylenes Total, and 124 TMB

48 Hour TAT TDS/TSS ; 5 day TAT BOD and Oil & Grease

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time: 10/3 15:30
Received by: (signature)	Date/Time: 10/4 9:13
Relinquished by: (signature)	Date/Time:
ived by: (signature)	Date/Time:
quished by: (signature)	Date/Time:
ived by: (signature)	Date/Time:

Program & Regulatory Information
☐ AWQ STDS ☐ NY TOGS
☐ NYC Sewer Discharge ☐ NY CP-51
☐ Part 360 GW (Landfill)
☐ NY Restricted Use
☐ NY Unrestricted Use
☐ NY Part 375
Other:

Deliverables
☐ Enhanced Data Package
☐ NYSDEC EQuIS EDD
☐ EQuIS (Standard) EDD
☐ NY Regulatory EDD
☐ NY Regs Hits-Only EDD
Other:

NELAC and AIHA-LAP, LLC Accredited

Project Entity
☑ Government ☐ Municipality ☐ MWRA ☐ WRTA
☐ Federal ☐ 21 J ☐ School
☐ City ☐ Brownfield ☐ MBTA

Other
☐ Chromatogram
☐ *AIHA-LAP,LLC*

PCB ONLY
☐ Soxhlet
☐ Non Soxhlet

Table of Contents

Sign In

TRACK ANOTHER SHIPMENT

813219360926

Delivered
Thursday 10/04/2018 at 9:13 am

DELIVERED

Signed for by: B.BECCA

GET STATUS UPDATES

OBTAIN PROOF OF DELIVERY

FROM

US

TO

EAST LONGMEADOW, MA US

Travel History | Shipment Facts

10/04/2018 - Thursday	9:13 am	Delivered MA

Expand History

10/03/2018 - Wednesday	4:15 pm	Picked up PLATTSBURGH, NY

Ask FedEx

OUR COMPANY

About FedEx
Our Portfolio
Investor Relations
Careers
FedEx Blog
Corporate Responsibility
Newsroom
Contact Us

MORE FROM FEDEX

FedEx Compatible
Developer Resource Center
FedEx Cross Border

LANGUAGE

Change Country

English

I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples_____

con-test® ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client LAND Remediation

Received By RAP Date 10/4/18 Time 913

How were the samples received? In Cooler T No Cooler _____ On Ice T No Ice _____ Direct from Sampling _____ Ambient _____ Melted Ice _____

Were samples within Temperature? 2-6°C T By Gun # 557 Actual Temp - 4.1 By Blank # _____ Actual Temp -

Was Custody Seal Intact? NA Were Samples Tampered with? NA

Was COC Relinquished ? T Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? T Were samples received within holding time? T

Did COC include all pertinent Information? Client T Analysis T Sampler Name T Project T ID's T Collection Dates/Times T

Are Sample labels filled out and legible? T

Are there Lab to Filters? F Who was notified? _____

Are there Rushes? T Who was notified? Devin + Lucy + Lauren + Alex

Are there Short Holds? T Who was notified? Lucy

Is there enough Volume? T

Is there Headspace where applicable? F MS/MSD? F

Proper Media/Containers Used? T Is splitting samples required? F

Were trip blanks received? F On COC? F

Do all samples have the proper pH? Acid pH<2 Base _____

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.	4	1 Liter Plastic		16 oz Amb.	
HCL-	3	500 mL Amb.		500 mL Plastic	1	8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic	1	4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Comments:

2 unpreserved 1 liter ambers were received shattered.

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

October 11, 2018

Keith Decker
Land Remediation
74 Hudson River Road
Waterford, NY 12188

Project Location: Saranac Lake
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 18J0209

Enclosed are results of analyses for samples received by the laboratory on October 4, 2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Aaron L. Benoit
Project Manager

Table of Contents

Sample Summary 3

Case Narrative 4

Sample Results 5

18J0209-01 5

Sample Preparation Information 6

QC Data 7

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) 7

B214050 7

B214170 7

Flag/Qualifier Summary 8

Certifications 9

Chain of Custody/Sample Receipt 10

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Land Remediation
74 Hudson River Road
Waterford, NY 12188
ATTN: Keith Decker

REPORT DATE: 10/11/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18J0209

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Saranac Lake

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
OU2-WWTP-Eff-14	18J0209-01	Waste Water		EPA 1664B SM 21-22 5210B	

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Lisa A. Worthington
Project Manager

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake | Sample Description: | Work Order: 18J0209

Date Received: 10/4/2018

Field Sample #: OU2-WWTP-Eff-14

Sample ID: 18J0209-01 | Start Date/Time: 10/3/2018 2:49:00PM

Sample Matrix: Waste Water | Stop Date/Time: 10/3/2018 2:53:00PM

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Biochemical Oxygen Demand	4.5	4.0	mg/L	1		SM 21-22 5210B	10/4/18	10/4/18 16:14	LED
Oil & Grease (HEM)	ND	1.4	mg/L	1		EPA 1664B	10/8/18	10/8/18 13:10	LL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

EPA 1664B

Lab Number [Field ID]	Batch	Initial [mL]	Date
18J0209-01 [OU2-WWTP-Eff-14]	B214170	1000	10/08/18

SM 21-22 5210B

Lab Number [Field ID]	Batch	Initial [mL]	Date
18J0209-01 [OU2-WWTP-Eff-14]	B214050	150	10/04/18

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B214050 - SM 21-22 5210B										
Blank (B214050-BLK1)				Prepared & Analyzed: 10/04/18						
Biochemical Oxygen Demand	ND	2.0	mg/L							
LCS (B214050-BS1)				Prepared & Analyzed: 10/04/18						
Biochemical Oxygen Demand	180	2.0	mg/L	198		91.2	85-115			
Batch B214170 - EPA 1664B										
Blank (B214170-BLK1)				Prepared & Analyzed: 10/08/18						
Oil & Grease (HEM)	ND	1.4	mg/L							
LCS (B214170-BS1)				Prepared & Analyzed: 10/08/18						
Oil & Grease (HEM)	20		mg/L	20.0		99.5	78-114			

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level

Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.

No results have been blank subtracted unless specified in the case narrative section.

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
EPA 1664B in Water	
Oil & Grease (HEM)	CT,MA,NH,NY,RI,NC,ME,VA
SM 21-22 5210B in Water	
Biochemical Oxygen Demand	CT,MA,NH,NY,RI,ME,VA,NC

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	03/1/2020
MA	Massachusetts DEP	M-MA100	06/30/2019
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2019
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2019
RI	Rhode Island Department of Health	LAO00112	12/30/2018
NC	North Carolina Div. of Water Quality	652	12/31/2018
NJ	New Jersey DEP	MA007 NELAP	06/30/2019
FL	Florida Department of Health	E871027 NELAP	06/30/2019
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2019
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2018
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2019
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2019
NC-DW	North Carolina Department of Health	25703	07/31/2019

18J0209

con-test® ANALYTICAL LABORATORY

Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com

http://www.contestlabs.com Doc # 380 Rev 1_03242017

CHAIN OF CUSTODY RECORD (New York)

39 Spruce Street
East Longmeadow, MA 01028

Page _____ of _____

Company Name:	LAND remediation
Address: 74 Hudson River Road Waterford, NY	
Phone:	
Project Name:	NYSDEC Saranac Lake Gas Co.
Project Location:	Saranac Lake Construction Water
Project Number:	
Project Manager:	Matthew Warren
Con-Test Quote Name/Number:	
Invoice Recipient:	mjw@land-remediation.com
Sampled By:	Vaughn Nelson, Kyle Jones

Requested Turnaround Time
7-Day ☐ 10-Day ☐
Due Date:

Rush-Approval Required
1-Day ☑ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
CLP Like Data Pkg Required: ☐
Email To: mjw@land-remediation.com
Fax To #:

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code	BOD-5	TDS	TSS	Oil & Grease 1664	8270 SVOC - PAH SIM	VOC 624.1 - (See Below)	VOC 8260 - Isopropyl Benzene & Toluene Only	608 PCB - 608 Pest - Endosulfan I, Heptachlor Epoxide	Metals- Pb, Zn, Cr.	pH	# of Containers
	OU2-WWTP-Eff-14	10/3/2018 14:49	10/3/2018 14:53	X		WW	L	x	x	x	x	x		x	x	x	x	
	OU2-WWTP-Eff-14	10/3/2018 14:53	10/3/2018 14:54		x	WW	L						x					

ANALYSIS REQUESTED

Dissolved Metals Samples
☐ Field Filtered
☐ Lab to Filter

Orthophosphate Samples
☐ Field Filtered
☐ Lab to Filter

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define)

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

[3] **Container Codes:**
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Comments: VOC 624.1 - Benzene, Ethyl Benzene, Xylenes Total, and 124 TMB

48 Hour TAT TDS/TSS ; 5 day TAT BOD and Oil & Grease

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time: 10/3 15:30
Received by: (signature) 4.1	Date/Time: 10/4 18 913
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Program & Regulatory Information
☐ AWQ STDS ☐ NY TOGS
☐ NYC Sewer Discharge ☐ NY CP-51
☐ Part 360 GW (Landfill)
☐ NY Restricted Use
☐ NY Unrestricted Use
☐ NY Part 375
Other:

Deliverables
☐ Enhanced Data Package
☐ NYSDEC EQuIS EDD
☐ EQuIS (Standard) EDD
☐ NY Regulatory EDD
☐ NY Regs Hits-Only EDD
Other:

Project Entity
☑ Government ☐ Municipality ☐ MWRA ☐ WRTA
☐ Federal ☐ 21 J ☐ School
☐ City ☐ Brownfield ☐ MBTA

Other
☐ Chromatogram
☐ *AIHA-LAP,LLC*

PCB ONLY
☐ Soxhlet
☐ Non Soxhlet

Table of Contents

Sign In

TRACK ANOTHER SHIPMENT

813219360926

Delivered
Thursday 10/04/2018 at 9:13 am

DELIVERED

Signed for by: B.BECCA

GET STATUS UPDATES

OBTAIN PROOF OF DELIVERY

FROM

US

TO

EAST LONGMEADOW, MA US

Travel History | Shipment Facts

10/04/2018 - Thursday	9:13 am	Delivered MA

Expand History

10/03/2018 - Wednesday	4:15 pm	Picked up PLATTSBURGH, NY

Ask FedEx

OUR COMPANY

About FedEx
Our Portfolio
Investor Relations
Careers
FedEx Blog
Corporate Responsibility
Newsroom
Contact Us

MORE FROM FEDEX

FedEx Compatible
Developer Resource Center
FedEx Cross Border

LANGUAGE

Change Country

English

I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples_____

con-test® ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client LAND Remediation

Received By RAP Date 10/4/18 Time 913

How were the samples received? In Cooler T No Cooler _____ On Ice T No Ice _____

Direct from Sampling _____ Ambient _____ Melted Ice _____

Were samples within Temperature? 2-6°C T By Gun # 557 Actual Temp - 4.1

By Blank # _____ Actual Temp - _____

Was Custody Seal Intact? NA Were Samples Tampered with? NA

Was COC Relinquished ? T Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? T Were samples received within holding time? T

Did COC include all pertinent Information? Client T Analysis T Sampler Name T

Project T ID's T Collection Dates/Times T

Are Sample labels filled out and legible? T

Are there Lab to Filters? F Who was notified? _____

Are there Rushes? F Who was notified? _____

Are there Short Holds? T Who was notified? Lucy

Is there enough Volume? T

Is there Headspace where applicable? F MS/MSD? F

Proper Media/Containers Used? T Is splitting samples required? F

Were trip blanks received? F On COC? F

Do all samples have the proper pH? N/A Acid _____ Base _____

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.	2	1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic	1	8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic	Kemp	4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Comments:

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

October 8, 2018

Keith Decker
Land Remediation
74 Hudson River Road
Waterford, NY 12188

Project Location: Saranac Lake
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 18J0208

Enclosed are results of analyses for samples received by the laboratory on October 4, 2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Aaron L. Benoit
Project Manager

Table of Contents

Sample Summary 3

Case Narrative 4

Sample Results 5

18J0208-01 5

Sample Preparation Information 7

QC Data 8

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) 8

B213964 8

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Dissolved) 9

B214006 9

Flag/Qualifier Summary 10

Certifications 11

Chain of Custody/Sample Receipt 12

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Land Remediation
74 Hudson River Road
Waterford, NY 12188
ATTN: Keith Decker

REPORT DATE: 10/8/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18J0208

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Saranac Lake

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
OU2-WWTP-Eff-14	18J0208-01	Waste Water		SM21-22 2540C SM21-22 2540D	

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Lisa A. Worthington
Project Manager

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake | Sample Description: | Work Order: 18J0208

Date Received: 10/4/2018

Field Sample #: OU2-WWTP-Eff-14

Sample ID: 18J0208-01 | Start Date/Time: 10/3/2018 2:49:00PM

Sample Matrix: Waste Water | Stop Date/Time: 10/3/2018 2:53:00PM

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Suspended Solids	ND	1.4	mg/L	1		SM21-22 2540D	10/4/18	10/4/18 12:55	LL

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake | Sample Description: | Work Order: 18J0208

Date Received: 10/4/2018

Field Sample #: OU2-WWTP-Eff-14

Sample ID: 18J0208-01 | Start Date/Time: 10/3/2018 2:49:00PM

Sample Matrix: Waste Water | Stop Date/Time: 10/3/2018 2:53:00PM

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Dissolved)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Dissolved Solids	110	10	mg/L	1		SM21-22 2540C	10/4/18	10/4/18 13:15	LL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

SM21-22 2540C

Lab Number [Field ID]	Batch	Initial [mL]	Date
18J0208-01 [OU2-WWTP-Eff-14]	B214006	50.0	10/04/18

SM21-22 2540D

Lab Number [Field ID]	Batch	Initial [mL]	Date
18J0208-01 [OU2-WWTP-Eff-14]	B213964	350	10/04/18

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B213964 - SM21-22 2540D										
Blank (B213964-BLK1)				Prepared & Analyzed: 10/04/18						
Total Suspended Solids	ND	2.5	mg/L							
LCS (B213964-BS1)				Prepared & Analyzed: 10/04/18						
Total Suspended Solids	167	5.0	mg/L	200		83.5	64.3-117			

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Dissolved) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B214006 - SM21-22 2540C										
Blank (B214006-BLK1)				Prepared & Analyzed: 10/04/18						
Total Dissolved Solids	ND	10	mg/L							
LCS (B214006-BS1)				Prepared & Analyzed: 10/04/18						
Total Dissolved Solids	240	10	mg/L	293		83.3	61.4-114			
Duplicate (B214006-DUP1)	**Source: 18J0208-01**			Prepared & Analyzed: 10/04/18						
Total Dissolved Solids	110	10	mg/L		110			1.87	5	

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level

Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.

No results have been blank subtracted unless specified in the case narrative section.

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SM21-22 2540C in Water	
Total Dissolved Solids	CT,MA,NH,NY,RI,NC,ME,VA
SM21-22 2540D in Water	
Total Suspended Solids	CT,MA,NH,NY,RI,NC,ME,VA

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	03/1/2020
MA	Massachusetts DEP	M-MA100	06/30/2019
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2019
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2019
RI	Rhode Island Department of Health	LAO00112	12/30/2018
NC	North Carolina Div. of Water Quality	652	12/31/2018
NJ	New Jersey DEP	MA007 NELAP	06/30/2019
FL	Florida Department of Health	E871027 NELAP	06/30/2019
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2019
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2018
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2019
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2019
NC-DW	North Carolina Department of Health	25703	07/31/2019

18J0208

con-test ANALYTICAL LABORATORY

http://www.contestlabs.com Doc # 380 Rev 1_03242017

CHAIN OF CUSTODY RECORD (New York)

Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com

39 Spruce Street
East Longmeadow, MA 01028

Company Name: LAND remediation
Address: 74 Hudson River Road Waterford, NY
Phone:

Project Name: NYSDEC Saranac Lake Gas Co.
Project Location: Saranac Lake Construction Water
Project Number:
Project Manager: Matthew Warren
Con-Test Quote Name/Number:
Invoice Recipient: mjw@land-remediation.com
Sampled By: Vaughn Nelson, Kyle Jones

Requested Turnaround Time
7-Day ☐ 10-Day ☐
Due Date:

Rush-Approval Required
1-Day ☑ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
CLP Like Data Pkg Required: ☐
Email To: mjw@land-remediation.com
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code	BOD-5	TDS	TSS	Oil & Grease 1664	8270 SVOC - PAH SIM	VOC 624.1 - (See Below)	VOC 8260 - Isopropyl Benzene & Toluene Only	608 PCB - 608 Pest - Endosulfan I, Heptachlor Epoxide	Metals- Pb, Zn, Cr.	pH	# of Containers	[2] Preservation Code	[3] Container Code
1	OU2-WWTP-Eff-14	10/3/2018 14:49	10/3/2018 14:53	X		WW	L	x	x	x	x	x		x	x	x	x			
	OU2-WWTP-Eff-14	10/3/2018 14:53	10/3/2018 14:54		x	WW	L						x							

Dissolved Metals Samples
☐ Field Filtered
☐ Lab to Filter

Orthophosphate Samples
☐ Field Filtered
☐ Lab to Filter

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define)

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

[3] **Container Codes:**
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Comments: VOC 624.1 - Benzene, Ethyl Benzene, Xylenes Total, and 124 TMB

48 Hour TAT TDS/TSS ; 5 day TAT BOD and Oil & Grease

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

	Date/Time:
Relinquished by: (signature)	10/3 15:30
Received by: (signature) 4.1 10/4	18 913
Relinquished by: (signature)	
Received by: (signature)	
Relinquished by: (signature)	
Received by: (signature)	

Program & Regulatory Information
☐ AWQ STDS ☐ NY TOGS
☐ NYC Sewer Discharge ☐ NY CP-51
☐ Part 360 GW (Landfill)
☐ NY Restricted Use
☐ NY Unrestricted Use
☐ NY Part 375
Other:

Deliverables
☐ Enhanced Data Package
☐ NYSDEC EQuIS EDD
☐ EQuIS (Standard) EDD
☐ NY Regulatory EDD
☐ NY Regs Hits-Only EDD
Other:

Project Entity
☑ Government ☐ Municipality ☐ MWRA ☐ WRTA
☐ Federal ☐ 21 J ☐ School
☐ City ☐ Brownfield ☐ MBTA

Other
☐ Chromatogram
☐ *AIHA-LAP,LLC*

PCB ONLY
☐ Soxhlet
☐ Non Soxhlet

Table of Contents

Sign In

TRACK ANOTHER SHIPMENT

813219360926

Delivered
Thursday 10/04/2018 at 9:13 am

DELIVERED

Signed for by: B.BECCA

GET STATUS UPDATES

OBTAIN PROOF OF DELIVERY

FROM

US

TO

EAST LONGMEADOW, MA US

Travel History | Shipment Facts

10/04/2018 - Thursday	9:13 am	Delivered MA

Expand History

10/03/2018 - Wednesday	4:15 pm	Picked up PLATTSBURGH, NY

Ask FedEx

OUR COMPANY

About FedEx
Our Portfolio
Investor Relations
Careers
FedEx Blog
Corporate Responsibility
Newsroom
Contact Us

MORE FROM FEDEX

FedEx Compatible
Developer Resource Center
FedEx Cross Border

LANGUAGE

Change Country

English

I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples_____

con-test® ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client LAND Remediation

Received By RAP Date 10/4/18 Time 913

How were the samples received? In Cooler T No Cooler _____ On Ice T No Ice _____ Direct from Sampling _____ Ambient _____ Melted Ice _____

By Gun # 557 Actual Temp - 4.1

Were samples within Temperature? 2-6°C T By Blank # _____ Actual Temp - _____

Was Custody Seal Intact? NA Were Samples Tampered with? NA

Was COC Relinquished ? T Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? T Were samples received within holding time? T

Did COC include all pertinent Information? Client T Project T Analysis T ID's T Sampler Name T Collection Dates/Times T

Are Sample labels filled out and legible? T

Are there Lab to Filters? F Who was notified? _____

Are there Rushes? T Who was notified? Lucy

Are there Short Holds? T Who was notified? Lucy

Is there enough Volume? T

Is there Headspace where applicable? F MS/MSD? F

Proper Media/Containers Used? T Is splitting samples required? F

Were trip blanks received? F On COC? F

Do all samples have the proper pH? N/A Acid _____ Base _____

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Comments:

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

October 12, 2018

Keith Decker
Land Remediation
74 Hudson River Road
Waterford, NY 12188

Project Location: Saranac Lake
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 18J0539

Enclosed are results of analyses for samples received by the laboratory on October 11, 2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Aaron L. Benoit
Project Manager

Table of Contents

Sample Summary 4

Case Narrative 5

Sample Results 6

18J0539-01 6

18J0539-02 11

Sample Preparation Information 13

QC Data 14

Volatile Organic Compounds by GC/MS 14

B214560 14

Volatile Organic Compounds by GC/MS 15

B214559 15

Semivolatile Organic Compounds by GC/MS 16

B214577 16

Organochloride Pesticides by GC/ECD 18

B214555 18

Polychlorinated Biphenyls By GC/ECD 19

B214491 19

Metals Analyses (Total) 20

B214581 20

B214582 20

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) 21

B214604 21

Pesticides Degradation Report 22

Dual Column RPD Report 23

Flag/Qualifier Summary 27

Table of Contents (continued)

Certifications 28

Chain of Custody/Sample Receipt 30

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Land Remediation
74 Hudson River Road
Waterford, NY 12188
ATTN: Keith Decker

REPORT DATE: 10/12/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18J0539

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Saranac Lake

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
OU2-WWTP-Eff-15	18J0539-01	Waste Water		EPA 200.7	
				EPA 200.8	
				EPA 608.3	
				SM21-22 4500 H B	
				SW-846 8270D	
OU2-WWTP-Eff-15	18J0539-02	Waste Water		EPA 624.1	
				SW-846 8260C	

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

For method 8270, only PAHs were requested and reported.

SM21-22 4500 H B

Qualifications:

H-05

Holding time was exceeded. pH analysis should be performed immediately at time of sampling. Nominal 15 minute holding time was exceeded.

Analyte & Samples(s) Qualified:

pH

18J0539-01[OU2-WWTP-Eff-15], B214604-DUP1

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Lisa A. Worthington
Project Manager

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake | Sample Description: | Work Order: 18J0539

Date Received: 10/11/2018

Field Sample #: OU2-WWTP-Eff-15

Sample ID: 18J0539-01 | Start Date/Time: 10/10/2018 12:00:00AM

Sample Matrix: Waste Water | Stop Date/Time: 10/10/2018 3:20:00PM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene (SIM)	ND	0.29	0.058	µg/L	1		SW-846 8270D	10/11/18	10/12/18 11:11	CJM
Acenaphthylene (SIM)	ND	0.19	0.048	µg/L	1		SW-846 8270D	10/11/18	10/12/18 11:11	CJM
Anthracene (SIM)	ND	0.19	0.038	µg/L	1		SW-846 8270D	10/11/18	10/12/18 11:11	CJM
Benzo(a)anthracene (SIM)	ND	0.048	0.048	µg/L	1		SW-846 8270D	10/11/18	10/12/18 11:11	CJM
Benzo(a)pyrene (SIM)	ND	0.096	0.038	µg/L	1		SW-846 8270D	10/11/18	10/12/18 11:11	CJM
Benzo(b)fluoranthene (SIM)	ND	0.048	0.019	µg/L	1		SW-846 8270D	10/11/18	10/12/18 11:11	CJM
Benzo(g,h,i)perylene (SIM)	ND	0.48	0.067	µg/L	1		SW-846 8270D	10/11/18	10/12/18 11:11	CJM
Benzo(k)fluoranthene (SIM)	ND	0.038	0.019	µg/L	1		SW-846 8270D	10/11/18	10/12/18 11:39	CJM
Chrysene (SIM)	ND	0.19	0.029	µg/L	1		SW-846 8270D	10/11/18	10/12/18 11:11	CJM
Dibenz(a,h)anthracene (SIM)	ND	0.096	0.038	µg/L	1		SW-846 8270D	10/11/18	10/12/18 11:11	CJM
Fluoranthene (SIM)	ND	0.48	0.029	µg/L	1		SW-846 8270D	10/11/18	10/12/18 11:11	CJM
Fluorene (SIM)	ND	0.96	0.038	µg/L	1		SW-846 8270D	10/11/18	10/12/18 11:11	CJM
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.096	0.077	µg/L	1		SW-846 8270D	10/11/18	10/12/18 11:11	CJM
Naphthalene (SIM)	ND	0.96	0.067	µg/L	1		SW-846 8270D	10/11/18	10/12/18 11:11	CJM
Phenanthrene (SIM)	ND	0.048	0.038	µg/L	1		SW-846 8270D	10/11/18	10/12/18 11:11	CJM
Pyrene (SIM)	ND	0.96	0.029	µg/L	1		SW-846 8270D	10/11/18	10/12/18 11:11	CJM

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	66.0	30-130		10/12/18 11:11
Nitrobenzene-d5	45.9	30-130		10/12/18 11:39
2-Fluorobiphenyl	66.9	30-130		10/12/18 11:11
2-Fluorobiphenyl	40.7	30-130		10/12/18 11:39
p-Terphenyl-d14	62.3	30-130		10/12/18 11:11
p-Terphenyl-d14	44.0	30-130		10/12/18 11:39

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake | Sample Description: | Work Order: 18J0539

Date Received: 10/11/2018

Field Sample #: OU2-WWTP-Eff-15

Sample ID: 18J0539-01 | Start Date/Time: 10/10/2018 12:00:00AM

Sample Matrix: Waste Water | Stop Date/Time: 10/10/2018 3:20:00PM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Endosulfan I [1]	ND	0.0095	0.00040	µg/L	1		EPA 608.3	10/11/18	10/12/18 13:08	PJG
Heptachlor epoxide [1]	ND	0.0095	0.00076	µg/L	1		EPA 608.3	10/11/18	10/12/18 13:08	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	70.7	30-150		10/12/18 13:08
Decachlorobiphenyl [2]	78.9	30-150		10/12/18 13:08
Tetrachloro-m-xylene [1]	65.4	30-150		10/12/18 13:08
Tetrachloro-m-xylene [2]	70.3	30-150		10/12/18 13:08

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake | Sample Description: | Work Order: 18J0539

Date Received: 10/11/2018

Field Sample #: OU2-WWTP-Eff-15

Sample ID: 18J0539-01 | Start Date/Time: 10/10/2018 12:00:00AM

Sample Matrix: Waste Water | Stop Date/Time: 10/10/2018 3:20:00PM

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.038	0.035	µg/L	1		EPA 608.3	10/11/18	10/11/18 20:56	KAL
Aroclor-1221 [1]	ND	0.038	0.031	µg/L	1		EPA 608.3	10/11/18	10/11/18 20:56	KAL
Aroclor-1232 [1]	ND	0.038	0.038	µg/L	1		EPA 608.3	10/11/18	10/11/18 20:56	KAL
Aroclor-1242 [1]	ND	0.038	0.033	µg/L	1		EPA 608.3	10/11/18	10/11/18 20:56	KAL
Aroclor-1248 [1]	ND	0.038	0.036	µg/L	1		EPA 608.3	10/11/18	10/11/18 20:56	KAL
Aroclor-1254 [1]	ND	0.038	0.020	µg/L	1		EPA 608.3	10/11/18	10/11/18 20:56	KAL
Aroclor-1260 [1]	ND	0.038	0.037	µg/L	1		EPA 608.3	10/11/18	10/11/18 20:56	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	78.6	30-150		10/11/18 20:56
Decachlorobiphenyl [2]	89.0	30-150		10/11/18 20:56
Tetrachloro-m-xylene [1]	70.8	30-150		10/11/18 20:56
Tetrachloro-m-xylene [2]	74.5	30-150		10/11/18 20:56

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake | Sample Description: | Work Order: 18J0539

Date Received: 10/11/2018

Field Sample #: OU2-WWTP-Eff-15

Sample ID: 18J0539-01 | Start Date/Time: 10/10/2018 12:00:00AM

Sample Matrix: Waste Water | Stop Date/Time: 10/10/2018 3:20:00PM

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Chromium	ND	0.0070	0.0061	mg/L	1		EPA 200.7	10/11/18	10/12/18 12:53	QNW
Lead	ND	0.50	0.14	µg/L	1		EPA 200.8	10/11/18	10/12/18 10:40	MJH
Zinc	0.013	0.010	0.0052	mg/L	1		EPA 200.7	10/11/18	10/12/18 12:53	QNW

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake | Sample Description: | Work Order: 18J0539

Date Received: 10/11/2018

Field Sample #: OU2-WWTP-Eff-15

Sample ID: 18J0539-01 | Start Date/Time: 10/10/2018 12:00:00AM

Sample Matrix: Waste Water | Stop Date/Time: 10/10/2018 3:20:00PM

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
pH @20.6°C	6.9		pH Units	1	H-05	SM21-22 4500 H B	10/11/18	10/11/18 23:17	LED

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake | Sample Description: | Work Order: 18J0539

Date Received: 10/11/2018

Field Sample #: OU2-WWTP-Eff-15

Sample ID: 18J0539-02 | Start Date/Time: 10/10/2018 12:00:00AM

Sample Matrix: Waste Water | Stop Date/Time: 10/10/2018 3:20:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Isopropylbenzene (Cumene)	ND	1.0	0.12	µg/L	1		SW-846 8260C	10/11/18	10/11/18 20:42	LBD
Toluene	ND	1.0	0.17	µg/L	1		SW-846 8260C	10/11/18	10/11/18 20:42	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	98.9	70-130		10/11/18 20:42
Toluene-d8	99.8	70-130		10/11/18 20:42
4-Bromofluorobenzene	106	70-130		10/11/18 20:42

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake | Sample Description: | Work Order: 18J0539

Date Received: 10/11/2018

Field Sample #: OU2-WWTP-Eff-15

Sample ID: 18J0539-02 | Start Date/Time: 10/10/2018 12:00:00AM

Sample Matrix: Waste Water | Stop Date/Time: 10/10/2018 3:20:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	1.0	0.34	µg/L	1		EPA 624.1	10/11/18	10/11/18 20:42	LBD
Ethylbenzene	ND	2.0	0.37	µg/L	1		EPA 624.1	10/11/18	10/11/18 20:42	LBD
1,2,4-Trimethylbenzene	ND	1.0	0.34	µg/L	1		EPA 624.1	10/11/18	10/11/18 20:42	LBD
Xylenes (total)	ND	3.0		µg/L	1		EPA 624.1	10/11/18	10/11/18 20:42	LBD
m+p Xylene	ND	2.0	0.65	µg/L	1		EPA 624.1	10/11/18	10/11/18 20:42	LBD
o-Xylene	ND	2.0	0.35	µg/L	1		EPA 624.1	10/11/18	10/11/18 20:42	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	98.9	70-130		10/11/18 20:42
Toluene-d8	99.8	70-130		10/11/18 20:42
4-Bromofluorobenzene	106	70-130		10/11/18 20:42

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: EPA 200.7-EPA 200.7

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18J0539-01 [OU2-WWTP-Eff-15]	B214581	50.0	50.0	10/11/18

Prep Method: EPA 200.8-EPA 200.8

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18J0539-01 [OU2-WWTP-Eff-15]	B214582	50.0	50.0	10/11/18

Prep Method: SW-846 3510C-EPA 608.3

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18J0539-01 [OU2-WWTP-Eff-15]	B214491	1050	2.00	10/11/18

Prep Method: SW-846 3510C-EPA 608.3

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18J0539-01 [OU2-WWTP-Eff-15]	B214555	1050	2.00	10/11/18

Prep Method: SW-846 5030B-EPA 624.1

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18J0539-02 [OU2-WWTP-Eff-15]	B214559	5	5.00	10/11/18

SM21-22 4500 H B

Lab Number [Field ID]	Batch	Initial [mL]		Date
18J0539-01 [OU2-WWTP-Eff-15]	B214604	50.0		10/11/18

Prep Method: SW-846 5030B-SW-846 8260C

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18J0539-02 [OU2-WWTP-Eff-15]	B214560	5	5.00	10/11/18

Prep Method: SW-846 3510C-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18J0539-01 [OU2-WWTP-Eff-15]	B214577	1040	1.00	10/11/18
18J0539-01RE1 [OU2-WWTP-Eff-15]	B214577	1040	0.200	10/11/18

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B214560 - SW-846 5030B										
Blank (B214560-BLK1)				Prepared & Analyzed: 10/11/18						
Isopropylbenzene (Cumene)	ND	1.0	µg/L							
Toluene	ND	1.0	µg/L							
Surrogate: 1,2-Dichloroethane-d4	*24.9*		µg/L	25.0		99.4	70-130			
Surrogate: Toluene-d8	*24.4*		µg/L	25.0		97.4	70-130			
Surrogate: 4-Bromofluorobenzene	*25.7*		µg/L	25.0		103	70-130			
LCS (B214560-BS1)				Prepared & Analyzed: 10/11/18						
Isopropylbenzene (Cumene)	21.0	1.0	µg/L	20.0		105	70-130			
Toluene	20.2	1.0	µg/L	20.0		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	*25.2*		µg/L	25.0		101	70-130			
Surrogate: Toluene-d8	*25.3*		µg/L	25.0		101	70-130			
Surrogate: 4-Bromofluorobenzene	*25.9*		µg/L	25.0		104	70-130			
LCS Dup (B214560-BSD1)				Prepared & Analyzed: 10/11/18						
Isopropylbenzene (Cumene)	20.9	1.0	µg/L	20.0		104	70-130	0.620	25	
Toluene	20.2	1.0	µg/L	20.0		101	70-130	0.0992	25	
Surrogate: 1,2-Dichloroethane-d4	*25.4*		µg/L	25.0		101	70-130			
Surrogate: Toluene-d8	*25.0*		µg/L	25.0		100	70-130			
Surrogate: 4-Bromofluorobenzene	*26.1*		µg/L	25.0		104	70-130			

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B214559 - SW-846 5030B										
Blank (B214559-BLK1)				Prepared & Analyzed: 10/11/18						
Benzene	ND	1.0	µg/L							
Ethylbenzene	ND	2.0	µg/L							
1,2,4-Trimethylbenzene	ND	1.0	µg/L							
Xylenes (total)	ND	3.0	µg/L							
m+p Xylene	ND	2.0	µg/L							
o-Xylene	ND	2.0	µg/L							
Surrogate: 1,2-Dichloroethane-d4	*24.9*		µg/L	25.0		99.4	70-130			
Surrogate: Toluene-d8	*24.4*		µg/L	25.0		97.4	70-130			
Surrogate: 4-Bromofluorobenzene	*25.7*		µg/L	25.0		103	70-130			
LCS (B214559-BS1)				Prepared & Analyzed: 10/11/18						
Benzene	18.2	1.0	µg/L	20.0		91.2	65-135			
Ethylbenzene	20.3	2.0	µg/L	20.0		102	60-140			
1,2,4-Trimethylbenzene	19.6	1.0	µg/L	20.0		98.2	70-130			
m+p Xylene	41.4	2.0	µg/L	40.0		104	70-130			
o-Xylene	20.5	2.0	µg/L	20.0		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	*25.4*		µg/L	25.0		101	70-130			
Surrogate: Toluene-d8	*25.0*		µg/L	25.0		100	70-130			
Surrogate: 4-Bromofluorobenzene	*26.1*		µg/L	25.0		104	70-130			

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B214577 - SW-846 3510C										
Blank (B214577-BLK1)				Prepared: 10/11/18 Analyzed: 10/12/18						
Acenaphthene (SIM)	ND	0.30	µg/L							
Acenaphthylene (SIM)	ND	0.20	µg/L							
Anthracene (SIM)	ND	0.20	µg/L							
Benzo(a)anthracene (SIM)	ND	0.050	µg/L							
Benzo(a)pyrene (SIM)	ND	0.10	µg/L							
Benzo(b)fluoranthene (SIM)	ND	0.050	µg/L							
Benzo(g,h,i)perylene (SIM)	ND	0.50	µg/L							
Benzo(k)fluoranthene (SIM)	ND	0.20	µg/L							
Chrysene (SIM)	ND	0.20	µg/L							
Dibenz(a,h)anthracene (SIM)	ND	0.10	µg/L							
Fluoranthene (SIM)	ND	0.50	µg/L							
Fluorene (SIM)	ND	1.0	µg/L							
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.10	µg/L							
Naphthalene (SIM)	ND	1.0	µg/L							
Phenanthrene (SIM)	ND	0.050	µg/L							
Pyrene (SIM)	ND	1.0	µg/L							
Surrogate: Nitrobenzene-d5	*77.2*		µg/L	100		77.2	30-130			
Surrogate: 2-Fluorobiphenyl	*77.4*		µg/L	100		77.4	30-130			
Surrogate: p-Terphenyl-d14	*73.6*		µg/L	100		73.6	30-130			
Blank (B214577-BLK2)				Prepared: 10/11/18 Analyzed: 10/12/18						
Benzo(k)fluoranthene (SIM)	ND	0.040	µg/L							
Surrogate: Nitrobenzene-d5	*61.3*		µg/L	100		61.3	30-130			
Surrogate: 2-Fluorobiphenyl	*47.2*		µg/L	100		47.2	30-130			
Surrogate: p-Terphenyl-d14	*53.3*		µg/L	100		53.3	30-130			
LCS (B214577-BS1)				Prepared: 10/11/18 Analyzed: 10/12/18						
Acenaphthene (SIM)	35.3	7.5	µg/L	50.0		70.6	40-140			
Acenaphthylene (SIM)	35.7	5.0	µg/L	50.0		71.4	40-140			
Anthracene (SIM)	37.9	5.0	µg/L	50.0		75.8	40-140			
Benzo(a)anthracene (SIM)	36.4	1.2	µg/L	50.0		72.8	40-140			
Benzo(a)pyrene (SIM)	38.4	2.5	µg/L	50.0		76.7	40-140			
Benzo(b)fluoranthene (SIM)	39.1	1.2	µg/L	50.0		78.2	40-140			
Benzo(g,h,i)perylene (SIM)	36.4	12	µg/L	50.0		72.8	40-140			
Benzo(k)fluoranthene (SIM)	37.4	5.0	µg/L	50.0		74.8	40-140			
Chrysene (SIM)	35.8	5.0	µg/L	50.0		71.6	40-140			
Dibenz(a,h)anthracene (SIM)	37.6	2.5	µg/L	50.0		75.1	40-140			
Fluoranthene (SIM)	37.7	12	µg/L	50.0		75.4	40-140			
Fluorene (SIM)	37.6	25	µg/L	50.0		75.2	40-140			
Indeno(1,2,3-cd)pyrene (SIM)	37.8	2.5	µg/L	50.0		75.5	40-140			
Naphthalene (SIM)	32.6	25	µg/L	50.0		65.2	40-140			
Phenanthrene (SIM)	35.4	1.2	µg/L	50.0		70.9	40-140			
Pyrene (SIM)	33.7	25	µg/L	50.0		67.4	40-140			
Surrogate: Nitrobenzene-d5	*62.9*		µg/L	100		62.9	30-130			
Surrogate: 2-Fluorobiphenyl	*58.9*		µg/L	100		58.9	30-130			
Surrogate: p-Terphenyl-d14	*49.0*		µg/L	100		49.0	30-130			

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B214577 - SW-846 3510C										
LCS Dup (B214577-BSD1)				Prepared: 10/11/18 Analyzed: 10/12/18						
Acenaphthene (SIM)	32.7	7.5	µg/L	50.0		65.4	40-140	7.50	20	
Acenaphthylene (SIM)	33.4	5.0	µg/L	50.0		66.8	40-140	6.65	20	
Anthracene (SIM)	35.4	5.0	µg/L	50.0		70.7	40-140	7.03	20	
Benzo(a)anthracene (SIM)	34.4	1.2	µg/L	50.0		68.8	40-140	5.65	20	
Benzo(a)pyrene (SIM)	36.2	2.5	µg/L	50.0		72.5	40-140	5.63	20	
Benzo(b)fluoranthene (SIM)	37.2	1.2	µg/L	50.0		74.4	40-140	5.04	20	
Benzo(g,h,i)perylene (SIM)	34.6	12	µg/L	50.0		69.1	40-140	5.21	20	
Benzo(k)fluoranthene (SIM)	35.6	5.0	µg/L	50.0		71.2	40-140	4.86	20	
Chrysene (SIM)	33.9	5.0	µg/L	50.0		67.8	40-140	5.31	20	
Dibenz(a,h)anthracene (SIM)	35.6	2.5	µg/L	50.0		71.1	40-140	5.47	20	
Fluoranthene (SIM)	35.1	12	µg/L	50.0		70.2	40-140	7.14	20	
Fluorene (SIM)	34.8	25	µg/L	50.0		69.5	40-140	7.94	20	
Indeno(1,2,3-cd)pyrene (SIM)	35.7	2.5	µg/L	50.0		71.4	40-140	5.58	20	‡
Naphthalene (SIM)	31.0	25	µg/L	50.0		62.0	40-140	5.04	20	
Phenanthrene (SIM)	33.0	1.2	µg/L	50.0		65.9	40-140	7.31	20	
Pyrene (SIM)	32.0	25	µg/L	50.0		64.0	40-140	5.10	20	
Surrogate: Nitrobenzene-d5	*60.2*		µg/L	100		60.2	30-130			
Surrogate: 2-Fluorobiphenyl	*55.2*		µg/L	100		55.2	30-130			
Surrogate: p-Terphenyl-d14	*46.7*		µg/L	100		46.7	30-130			

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B214555 - SW-846 3510C										
Blank (B214555-BLK1)				Prepared: 10/11/18 Analyzed: 10/12/18						
Endosulfan I	ND	0.010	µg/L							
Endosulfan I [2C]	ND	0.010	µg/L							
Heptachlor Epoxide	ND	0.010	µg/L							
Heptachlor Epoxide [2C]	ND	0.010	µg/L							
Surrogate: Decachlorobiphenyl	*0.218*		µg/L	0.400		54.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.235*		µg/L	0.400		58.7	30-150			
Surrogate: Tetrachloro-m-xylene	*0.245*		µg/L	0.400		61.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.248*		µg/L	0.400		62.1	30-150			
LCS (B214555-BS1)				Prepared: 10/11/18 Analyzed: 10/12/18						
Endosulfan I	0.84	0.050	µg/L	1.00		83.8	45-153			
Endosulfan I [2C]	0.89	0.050	µg/L	1.00		89.2	45-153			
Heptachlor Epoxide	0.84	0.050	µg/L	1.00		83.8	37-142			
Heptachlor Epoxide [2C]	0.87	0.050	µg/L	1.00		87.0	37-142			
Surrogate: Decachlorobiphenyl	*1.51*		µg/L	2.00		75.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.62*		µg/L	2.00		81.2	30-150			
Surrogate: Tetrachloro-m-xylene	*1.54*		µg/L	2.00		76.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.65*		µg/L	2.00		82.3	30-150			
LCS Dup (B214555-BSD1)				Prepared: 10/11/18 Analyzed: 10/12/18						
Endosulfan I	0.83	0.050	µg/L	1.00		82.7	45-153	1.36		
Endosulfan I [2C]	0.89	0.050	µg/L	1.00		88.9	45-153	0.428		
Heptachlor Epoxide	0.83	0.050	µg/L	1.00		82.8	37-142	1.13		
Heptachlor Epoxide [2C]	0.86	0.050	µg/L	1.00		86.4	37-142	0.773		
Surrogate: Decachlorobiphenyl	*1.58*		µg/L	2.00		79.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.70*		µg/L	2.00		84.9	30-150			
Surrogate: Tetrachloro-m-xylene	*1.48*		µg/L	2.00		74.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.66*		µg/L	2.00		83.2	30-150			

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B214491 - SW-846 3510C										
Blank (B214491-BLK1)				Prepared & Analyzed: 10/11/18						
Aroclor-1016	ND	0.040	µg/L							
Aroclor-1016 [2C]	ND	0.040	µg/L							
Aroclor-1221	ND	0.040	µg/L							
Aroclor-1221 [2C]	ND	0.040	µg/L							
Aroclor-1232	ND	0.040	µg/L							
Aroclor-1232 [2C]	ND	0.040	µg/L							
Aroclor-1242	ND	0.040	µg/L							
Aroclor-1242 [2C]	ND	0.040	µg/L							
Aroclor-1248	ND	0.040	µg/L							
Aroclor-1248 [2C]	ND	0.040	µg/L							
Aroclor-1254	ND	0.040	µg/L							
Aroclor-1254 [2C]	ND	0.040	µg/L							
Aroclor-1260	ND	0.040	µg/L							
Aroclor-1260 [2C]	ND	0.040	µg/L							
Surrogate: Decachlorobiphenyl	*0.269*		µg/L	0.400		67.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.305*		µg/L	0.400		76.1	30-150			
Surrogate: Tetrachloro-m-xylene	*0.294*		µg/L	0.400		73.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.310*		µg/L	0.400		77.5	30-150			
LCS (B214491-BS1)				Prepared & Analyzed: 10/11/18						
Aroclor-1016	0.44	0.20	µg/L	0.500		87.6	50-140			
Aroclor-1016 [2C]	0.45	0.20	µg/L	0.500		89.9	50-140			
Aroclor-1260	0.44	0.20	µg/L	0.500		88.9	8-140			
Aroclor-1260 [2C]	0.48	0.20	µg/L	0.500		96.3	8-140			
Surrogate: Decachlorobiphenyl	*1.39*		µg/L	2.00		69.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.59*		µg/L	2.00		79.5	30-150			
Surrogate: Tetrachloro-m-xylene	*1.39*		µg/L	2.00		69.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.45*		µg/L	2.00		72.3	30-150			
LCS Dup (B214491-BSD1)				Prepared & Analyzed: 10/11/18						
Aroclor-1016	0.42	0.20	µg/L	0.500		83.8	50-140	4.46		
Aroclor-1016 [2C]	0.43	0.20	µg/L	0.500		86.4	50-140	4.07		
Aroclor-1260	0.42	0.20	µg/L	0.500		84.4	8-140	5.16		
Aroclor-1260 [2C]	0.46	0.20	µg/L	0.500		91.2	8-140	5.43		
Surrogate: Decachlorobiphenyl	*1.38*		µg/L	2.00		68.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.56*		µg/L	2.00		77.9	30-150			
Surrogate: Tetrachloro-m-xylene	*1.32*		µg/L	2.00		66.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.38*		µg/L	2.00		68.9	30-150			

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B214581 - EPA 200.7										
Blank (B214581-BLK1)				Prepared: 10/11/18 Analyzed: 10/12/18						
Chromium	ND	0.0070	mg/L							
Zinc	ND	0.010	mg/L							
LCS (B214581-BS1)				Prepared: 10/11/18 Analyzed: 10/12/18						
Chromium	0.523	0.0070	mg/L	0.500		105	85-115			
Zinc	1.05	0.010	mg/L	1.00		105	85-115			
LCS Dup (B214581-BSD1)				Prepared: 10/11/18 Analyzed: 10/12/18						
Chromium	0.529	0.0070	mg/L	0.500		106	85-115	1.11	20	
Zinc	1.06	0.010	mg/L	1.00		106	85-115	1.01	20	
Batch B214582 - EPA 200.8										
Blank (B214582-BLK1)				Prepared: 10/11/18 Analyzed: 10/12/18						
Lead	ND	0.50	µg/L							
LCS (B214582-BS1)				Prepared: 10/11/18 Analyzed: 10/12/18						
Lead	530	5.0	µg/L	500		106	85-115			
LCS Dup (B214582-BSD1)				Prepared: 10/11/18 Analyzed: 10/12/18						
Lead	534	5.0	µg/L	500		107	85-115	0.783	20	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B214604 - SM21-22 4500 H B										
LCS (B214604-BS1)				Prepared & Analyzed: 10/11/18						
pH	5.96		pH Units	6.00		99.2	90-110			
Duplicate (B214604-DUP1)		**Source: 18J0539-01**		Prepared & Analyzed: 10/11/18						
pH	6.8		pH Units		6.9			0.527	5	H-05

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

BREAKDOWN REPORT

Lab Sample ID: **S028264-PEM1** **Analyzed:** **10/12/2018**

Column Number: **1**

Analyte	% Breakdown
4,4'-DDT [1]	0.71
Endrin [1]	3.97

Column Number: **2**

Analyte	% Breakdown
4,4'-DDT [2]	0.71
Endrin [2]	3.56

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

EPA 608.3

LCS

Lab Sample ID: B214491-BS1 Date(s) Analyzed: 10/11/2018 10/11/2018

Instrument ID (1): ECD4 Instrument ID (2): ECD4

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.44	
	2	0.000	0.000	0.000	0.45	2.3
Aroclor-1260	1	0.000	0.000	0.000	0.44	
	2	0.000	0.000	0.000	0.48	8.7

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

EPA 608.3

LCS Dup

Lab Sample ID: B214491-BSD1 Date(s) Analyzed: 10/11/2018 10/11/2018

Instrument ID (1): ECD4 Instrument ID (2): ECD4

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.42	
	2	0.000	0.000	0.000	0.43	2.4
Aroclor-1260	1	0.000	0.000	0.000	0.42	
	2	0.000	0.000	0.000	0.46	9.1

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

EPA 608.3

LCS

Lab Sample ID: B214555-BS1 Date(s) Analyzed: 10/12/2018 10/12/2018

Instrument ID (1): ECD6 Instrument ID (2): ECD6

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Endosulfan I	1	6.456	0.000	0.000	0.84	
	2	6.442	0.000	0.000	0.89	5.8
Heptachlor Epoxide	1	6.194	0.000	0.000	0.84	
	2	6.182	0.000	0.000	0.87	3.5

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

EPA 608.3

LCS Dup

Lab Sample ID: B214555-BSD1 Date(s) Analyzed: 10/12/2018 10/12/2018

Instrument ID (1): ECD6 Instrument ID (2): ECD6

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Endosulfan I	1	6.456	0.000	0.000	0.83	
	2	6.442	0.000	0.000	0.89	7.0
Heptachlor Epoxide	1	6.194	0.000	0.000	0.83	
	2	6.181	0.000	0.000	0.86	3.6

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
H-05	Holding time was exceeded. pH analysis should be performed immediately at time of sampling. Nominal 15 minute holding time was exceeded.

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
EPA 200.7 in Water	
Chromium	CT,MA,NH,NY,RI,NC,ME,VA
Zinc	CT,MA,NH,NY,RI,NC,ME,VA
EPA 200.8 in Water	
Lead	CT,MA,NH,NY,RI,NC,ME,VA
EPA 608.3 in Water	
Aroclor-1016	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1016 [2C]	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1221	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1221 [2C]	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1232	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1232 [2C]	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1242	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1242 [2C]	CT,MA,NH,NY,RI,NC,ME,VA
Endosulfan I	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1248	CT,MA,NH,NY,RI,NC,ME,VA
Endosulfan I [2C]	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1248 [2C]	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1254	CT,MA,NH,NY,RI,NC,ME,VA
Heptachlor Epoxide	CT,MA,NH,NY,RI,NC,ME,VA
Heptachlor Epoxide [2C]	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1254 [2C]	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1260	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1260 [2C]	CT,MA,NH,NY,RI,NC,ME,VA
EPA 624.1 in Water	
Benzene	CT,NY,RI,NC,MA,NH
Ethylbenzene	CT,NY,RI,NC,MA,NH
Toluene	CT,NY,RI,NC,MA,NH
1,2,4-Trimethylbenzene	MA
Xylenes (total)	NY,MA,NH
m+p Xylene	CT,NY,RI,NC,MA,NH
o-Xylene	CT,NY,RI,NC,MA,NH
SM21-22 4500 H B in Water	
pH	CT,MA,RI
SW-846 8260C in Water	
Benzene	CT,ME,NH,VA,NY
Ethylbenzene	CT,ME,NH,VA,NY
Isopropylbenzene (Cumene)	ME,VA,NY
Toluene	CT,ME,NH,VA,NY
1,2,4-Trimethylbenzene	ME,VA,NY
m+p Xylene	CT,ME,NH,VA,NY
o-Xylene	CT,ME,NH,VA,NY
Xylenes (total)	NY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	03/1/2020
MA	Massachusetts DEP	M-MA100	06/30/2019
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2019
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2019
RI	Rhode Island Department of Health	LAO00112	12/30/2018
NC	North Carolina Div. of Water Quality	652	12/31/2018
NJ	New Jersey DEP	MA007 NELAP	06/30/2019
FL	Florida Department of Health	E871027 NELAP	06/30/2019
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2019
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2018
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2019
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2019
NC-DW	North Carolina Department of Health	25703	07/31/2019

18J0539

con-test ANALYTICAL LABORATORY

Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com

http://www.contestlabs.com Doc # 380 Rev 1_03242017

CHAIN OF CUSTODY RECORD (New York)

39 Spruce Street
East Longmeadow, MA 01028

Page _____ of _____

Company Name:	LAND remediation
Address:	74 Hudson River Road Waterford, NY
Phone:	
Project Name:	NYSDEC Saranac Lake Gas Co.
Project Location:	Saranac Lake Construction Water
Project Number:	
Project Manager:	Matthew Warren
Con-Test Quote Name/Number:	
Invoice Recipient:	mjw@land-remediation.com
Sampled By:	Vaughn Nelson, Kyle Jones

Requested Turnaround Time
7-Day ☐ 10-Day ☐
Due Date:

Rush-Approval Required
1-Day ☑ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
CLP Like Data Pkg Required: ☐
Email To: mjw@land-remediation.com
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	BOD-5	TDS	TSS	Oil & Grease 1664	8270 SVOC - PAH SIM	VOC 624.1 - (See Below)	VOC 8260 - Isopropyl Benzene & Toluene Only	608 PCB - 608 Pest - Endosulfan I, Heptachlor Epoxide	Metals- Pb, Zn, Cr.	pH
1	OU2-WWTP-Eff-15	10/10/2018 0:00	10/10/2018 3:20	X		WW	L	x	x	x	x	x		x	x	x	x
2	OU2-WWTP-Eff-15	10/10/2018 0:00	10/10/2018 3:20pm		x	WW	L						x				

# of Containers
[2] Preservation Code
[3] Container Code

Dissolved Metals Samples
☐ Field Filtered
☐ Lab to Filter

Orthophosphate Samples
☐ Field Filtered
☐ Lab to Filter

[1] Matrix Codes:
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define)

[2] Preservation Codes:
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

[3] Container Codes:
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Comments: VOC 624.1 - Benzene, Ethyl Benzene, Xylenes Total, and 124 TMB

48 Hour TAT TDS/TSS ; 5 day TAT BOD and Oil & Grease

Please use the following codes to indicate possible sample concentration within the **Conc Code** column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time: 10-10-18 3:30pm	
Received by: (signature) 2.6	Date/Time: 10/10/18 904	
Relinquished by: (signature)	Date/Time:	
ived by: (signature)	Date/Time:	
quished by: (signature)	Date/Time:	
ived by: (signature)	Date/Time:	

Program & Regulatory Information
☐ AWQ STDS ☐ NY TOGS
☐ NYC Sewer Discharge ☐ NY CP-51
☐ Part 360 GW (Landfill)
☐ NY Restricted Use
☐ NY Unrestricted Use
☐ NY Part 375
Other:

Deliverables
☐ Enhanced Data Package
☐ NYSDEC EQuIS EDD
☐ EQuIS (Standard) EDD
☐ NY Regulatory EDD
☐ NY Regs Hits-Only EDD
Other:

NELAC and AIHA-LAP, LLC Accredited

Project Entity
☑ Government ☐ Municipality ☐ MWRA ☐ WRTA
☐ Federal ☐ 21 J ☐ School
☐ City ☐ Brownfield ☐ MBTA

Other
☐ Chromatogram
☐ *AIHA-LAP,LLC*

PCB ONLY
☐ Soxhlet
☐ Non Soxhlet

Page 30 of 32

Table of Contents

Sign In

TRACK ANOTHER SHIPMENT

867759934852

Delivered
Thursday 10/11/2018 at 9:04 am

DELIVERED

Signed for by: B.BECCA

GET STATUS UPDATES

OBTAIN PROOF OF DELIVERY

FROM

SAR US

TO

EAST LONGMEADOW, MA US

Travel History | Multiple-piece Shipment | Shipment Facts

10/11/2018 - Thursday	9:04 am	Delivered MA

Expand History

10/10/2018 - Wednesday	4:18 pm	Picked up PLATTSBURGH, NY

Ask FedEx

OUR COMPANY

About FedEx
Our Portfolio
Investor Relations
Careers
FedEx Blog
Corporate Responsibility
Newsroom
Contact Us

MORE FROM FEDEX

FedEx Compatible
Developer Resource Center
FedEx Cross Border

LANGUAGE

Change Country

English

I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples_____

con-test® ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client LAND Remediation

Received By RAP Date 10/11/18 Time 904

How were the samples received? In Cooler T No Cooler _____ On Ice T No Ice _____ Direct from Sampling _____ Ambient _____ Melted Ice _____

Were samples within Temperature? 2-6°C T By Gun # 557 Actual Temp - 2.6 By Blank # _____ Actual Temp - _____

Was Custody Seal Intact? NA Were Samples Tampered with? NA

Was COC Relinquished ? T Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? T Were samples received within holding time? T

Did COC include all pertinent Information? Client T Project T Analysis T ID's T Sampler Name T Collection Dates/Times T

Are Sample labels filled out and legible? T

Are there Lab to Filters? F Who was notified? _____

Are there Rushes? T Who was notified? Lucy, Jamie, Lauren & Alex

Are there Short Holds? T Who was notified? Lucy

Is there enough Volume? T

Is there Headspace where applicable? F MS/MSD? F

Proper Media/Containers Used? T Is splitting samples required? P

Were trip blanks received? F On COC? F

Do all samples have the proper pH? Acid pH<2 Base _____

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.	6	1 Liter Plastic		16 oz Amb.	
HCL-	3	500 mL Amb.		500 mL Plastic	1	8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic	1	4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Comments:

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

October 15, 2018

Keith Decker
Land Remediation
74 Hudson River Road
Waterford, NY 12188

Project Location: Saranac Lake
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 18J0540

Enclosed are results of analyses for samples received by the laboratory on October 11, 2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Aaron L. Benoit
Project Manager

Table of Contents

Sample Summary 3

Case Narrative 4

Sample Results 5

18J0540-01 5

Sample Preparation Information 7

QC Data 8

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) 8

B214507 8

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Dissolved) 9

B214506 9

Flag/Qualifier Summary 10

Certifications 11

Chain of Custody/Sample Receipt 12

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Land Remediation
74 Hudson River Road
Waterford, NY 12188
ATTN: Keith Decker

REPORT DATE: 10/15/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18J0540

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Saranac Lake

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
OU2-WWTP-Eff-15	18J0540-01	Waste Water		SM21-22 2540C SM21-22 2540D	

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Lisa A. Worthington
Project Manager

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake | Sample Description: | Work Order: 18J0540

Date Received: 10/11/2018

Field Sample #: OU2-WWTP-Eff-15

Sample ID: 18J0540-01 | Start Date/Time: 10/10/2018 12:00:00AM

Sample Matrix: Waste Water | Stop Date/Time: 10/10/2018 3:20:00PM

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Suspended Solids	ND	2.0	mg/L	1		SM21-22 2540D	10/11/18	10/11/18 13:35	LL

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake | Sample Description: | Work Order: 18J0540

Date Received: 10/11/2018

Field Sample #: OU2-WWTP-Eff-15

Sample ID: 18J0540-01 | Start Date/Time: 10/10/2018 12:00:00AM

Sample Matrix: Waste Water | Stop Date/Time: 10/10/2018 3:20:00PM

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Dissolved)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Dissolved Solids	140	10	mg/L	1		SM21-22 2540C	10/11/18	10/11/18 13:15	LL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

SM21-22 2540C

Lab Number [Field ID]	Batch	Initial [mL]	Date
18J0540-01 [OU2-WWTP-Eff-15]	B214506	50.0	10/11/18

SM21-22 2540D

Lab Number [Field ID]	Batch	Initial [mL]	Date
18J0540-01 [OU2-WWTP-Eff-15]	B214507	250	10/11/18

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B214507 - SM21-22 2540D										
Blank (B214507-BLK1)				Prepared & Analyzed: 10/11/18						
Total Suspended Solids	ND	2.5	mg/L							
LCS (B214507-BS1)				Prepared & Analyzed: 10/11/18						
Total Suspended Solids	170	10	mg/L	200		85.0	64.3-117			

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Dissolved) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B214506 - SM21-22 2540C										
Blank (B214506-BLK1)				Prepared & Analyzed: 10/11/18						
Total Dissolved Solids	ND	10	mg/L							
LCS (B214506-BS1)				Prepared & Analyzed: 10/11/18						
Total Dissolved Solids	250	10	mg/L	293		85.3	61.4-114			

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level

Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.

No results have been blank subtracted unless specified in the case narrative section.

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SM21-22 2540C in Water	
Total Dissolved Solids	CT,MA,NH,NY,RI,NC,ME,VA
SM21-22 2540D in Water	
Total Suspended Solids	CT,MA,NH,NY,RI,NC,ME,VA

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	03/1/2020
MA	Massachusetts DEP	M-MA100	06/30/2019
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2019
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2019
RI	Rhode Island Department of Health	LAO00112	12/30/2018
NC	North Carolina Div. of Water Quality	652	12/31/2018
NJ	New Jersey DEP	MA007 NELAP	06/30/2019
FL	Florida Department of Health	E871027 NELAP	06/30/2019
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2019
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2018
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2019
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2019
NC-DW	North Carolina Department of Health	25703	07/31/2019

1810540

con-test ANALYTICAL LABORATORY

Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com

http://www.contestlabs.com Doc # 380 Rev 1_03242017

CHAIN OF CUSTODY RECORD (New York)

39 Spruce Street
East Longmeadow, MA 01028

Page ____ of ____

Company Name:	LAND remediation
Address:	74 Hudson River Road Waterford, NY
Phone:	
Project Name:	NYSDEC Saranac Lake Gas Co.
Project Location:	Saranac Lake Construction Water
Project Number:	
Project Manager:	Matthew Warren
Con-Test Quote Name/Number:	
Invoice Recipient:	mjw@land-remediation.com
Sampled By:	Vaughn Nelson, Kyle Jones

Requested Turnaround Time
7-Day ☐ 10-Day ☐
Due Date:

Rush-Approval Required
1-Day ☑ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
CLP Like Data Pkg Required: ☐
Email To: mjw@land-remediation.com
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	BOD-5	TDS	TSS	Oil & Grease 1664	8270 SVOC - PAH SIM	VOC 624.1 - (See Below)	VOC 8260 - Isopropyl Benzene & Toluene Only	608 PCB - 608 Pest - Endosulfan I, Heptachlor Epoxide	Metals- Pb, Zn, Cr.	pH	# of Containers
	OU2-WWTP-Eff-15	10/10/2018 0:00	10/10/2018 3:20	X		WW	L	x	x	x	x	x		x	x	x	x	
	OU2-WWTP-Eff-15	10/10/2018 0:00	10/10/2018 3:20pm		X	WW	L						x					

[2] Preservation Code
[3] Container Code

Dissolved Metals Samples
☐ Field Filtered
☐ Lab to Filter

Orthophosphate Samples
☐ Field Filtered
☐ Lab to Filter

[1] Matrix Codes:
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define)

[2] Preservation Codes:
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

[3] Container Codes:
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Comments: VOC 624.1 - Benzene, Ethyl Benzene, Xylenes Total, and 124 TMB

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

48 Hour TAT TDS/TSS ; 5 day TAT BOD and Oil & Grease

Relinquished by: (signature)	Date/Time:	10-10-18 3:30pm
Received by: (signature) 2.6	Date/Time:	10/10/18 904
Relinquished by: (signature)	Date/Time:	
Received by: (signature)	Date/Time:	
Relinquished by: (signature)	Date/Time:	
Received by: (signature)	Date/Time:	

Program & Regulatory Information
☐ AWQ STDS ☐ NY TOGS
☐ NYC Sewer Discharge ☐ NY CP-51
☐ Part 360 GW (Landfill)
☐ NY Restricted Use
☐ NY Unrestricted Use
☐ NY Part 375
Other:

Deliverables
☐ Enhanced Data Package
☐ NYSDEC EQuIS EDD
☐ EQuIS (Standard) EDD
☐ NY Regulatory EDD
☐ NY Regs Hits-Only EDD
Other:

Project Entity
☑ Government ☐ Municipality ☐ MWRA ☐ WRTA
☐ Federal ☐ 21 J ☐ School
☐ City ☐ Brownfield ☐ MBTA

Other
☐ Chromatogram
☐ *AIHA-LAP,LLC*

PCB ONLY
☐ Soxhlet
☐ Non Soxhlet

Table of Contents

Sign In

TRACK ANOTHER SHIPMENT

867759934852

Delivered
Thursday 10/11/2018 at 9:04 am

DELIVERED

Signed for by: B.BECCA

GET STATUS UPDATES

OBTAIN PROOF OF DELIVERY

FROM

SAR US

TO

EAST LONGMEADOW, MA US

Travel History | Multiple-piece Shipment | Shipment Facts

10/11/2018 - Thursday	9:04 am	Delivered MA

Expand History

10/10/2018 - Wednesday	4:18 pm	Picked up PLATTSBURGH, NY

Ask FedEx

OUR COMPANY

About FedEx
Our Portfolio
Investor Relations
Careers
FedEx Blog
Corporate Responsibility
Newsroom
Contact Us

MORE FROM FEDEX

FedEx Compatible
Developer Resource Center
FedEx Cross Border

LANGUAGE

Change Country

English

I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples_____

con-test® ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client LAND Remediation

Received By RAP Date 10/11/18 Time 904

How were the samples received? In Cooler T No Cooler _____ On Ice T No Ice _____ Direct from Sampling _____ Ambient _____ Melted Ice _____

Were samples within Temperature? 2-6°C T By Gun # 537 Actual Temp - 2.6 By Blank # _____ Actual Temp - _____

Was Custody Seal Intact? NA Were Samples Tampered with? NA

Was COC Relinquished ? T Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? T Were samples received within holding time? T

Did COC include all pertinent Information? Client T Project T Analysis T ID's F Sampler Name T Collection Dates/Times T

Are Sample labels filled out and legible? T

Are there Lab to Filters? F Who was notified? _____

Are there Rushes? T Who was notified? Lucy

Are there Short Holds? T Who was notified? Lucy

Is there enough Volume? T

Is there Headspace where applicable? F MS/MSD? F

Proper Media/Containers Used? T Is splitting samples required? F

Were trip blanks received? F On COC? F

Do all samples have the proper pH? N/A Acid _____ Base _____

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic	1	8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Comments:

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

October 18, 2018

Keith Decker
Land Remediation
74 Hudson River Road
Waterford, NY 12188

Project Location: Saranac Lake
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 18J0541

Enclosed are results of analyses for samples received by the laboratory on October 11, 2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Aaron L. Benoit
Project Manager

Table of Contents

Sample Summary 3

Case Narrative 4

Sample Results 5

18J0541-01 5

Sample Preparation Information 6

QC Data 7

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) 7

B214599 7

B214989 7

Flag/Qualifier Summary 8

Certifications 9

Chain of Custody/Sample Receipt 10

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Land Remediation
74 Hudson River Road
Waterford, NY 12188
ATTN: Keith Decker

REPORT DATE: 10/18/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18J0541

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Saranac Lake

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
OU2-WWTP-Eff-15	18J0541-01	Waste Water		EPA 1664B SM 21-22 5210B	

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Lisa A. Worthington
Project Manager

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake | Sample Description: | Work Order: 18J0541

Date Received: 10/11/2018

Field Sample #: OU2-WWTP-Eff-15

Sample ID: 18J0541-01 | Start Date/Time: 10/10/2018 12:00:00AM

Sample Matrix: Waste Water | Stop Date/Time: 10/10/2018 3:20:00PM

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Biochemical Oxygen Demand	ND	4.0	mg/L	1		SM 21-22 5210B	10/11/18	10/11/18 17:01	LED
Oil & Grease (HEM)	ND	1.6	mg/L	1		EPA 1664B	10/17/18	10/17/18 9:00	LL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

EPA 1664B

Lab Number [Field ID]	Batch	Initial [mL]	Date
18J0541-01 [OU2-WWTP-Eff-15]	B214989	900	10/17/18

SM 21-22 5210B

Lab Number [Field ID]	Batch	Initial [mL]	Date
18J0541-01 [OU2-WWTP-Eff-15]	B214599	150	10/11/18

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B214599 - SM 21-22 5210B										
Blank (B214599-BLK1)				Prepared & Analyzed: 10/11/18						
Biochemical Oxygen Demand	ND	2.0	mg/L							
LCS (B214599-BS1)				Prepared & Analyzed: 10/11/18						
Biochemical Oxygen Demand	180	2.0	mg/L	198		91.0	85-115			
Batch B214989 - EPA 1664B										
Blank (B214989-BLK1)				Prepared & Analyzed: 10/17/18						
Oil & Grease (HEM)	ND	1.4	mg/L							
Blank (B214989-BLK2)				Prepared & Analyzed: 10/17/18						
Oil & Grease (HEM)	ND	56	mg/L							
LCS (B214989-BS1)				Prepared & Analyzed: 10/17/18						
Oil & Grease (HEM)	19		mg/L	20.0		95.0	78-114			
LCS (B214989-BS2)				Prepared & Analyzed: 10/17/18						
Oil & Grease (HEM)	710		mg/L	800		88.5	78-114			
Matrix Spike (B214989-MS1)		**Source: 18J0541-01**		Prepared & Analyzed: 10/17/18						
Oil & Grease (HEM)	220	14	mg/L	200	ND	110	78-114			

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level

Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.

No results have been blank subtracted unless specified in the case narrative section.

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
EPA 1664B in Water	
Oil & Grease (HEM)	CT,MA,NH,NY,RI,NC,ME,VA
SM 21-22 5210B in Water	
Biochemical Oxygen Demand	CT,MA,NH,NY,RI,ME,VA,NC

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	03/1/2020
MA	Massachusetts DEP	M-MA100	06/30/2019
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2019
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2019
RI	Rhode Island Department of Health	LAO00112	12/30/2018
NC	North Carolina Div. of Water Quality	652	12/31/2018
NJ	New Jersey DEP	MA007 NELAP	06/30/2019
FL	Florida Department of Health	E871027 NELAP	06/30/2019
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2019
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2018
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2019
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2019
NC-DW	North Carolina Department of Health	25703	07/31/2019

1810541

con-test® ANALYTICAL LABORATORY

http://www.contestlabs.com Doc # 380 Rev 1_03242017

Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com

CHAIN OF CUSTODY RECORD (New York)

39 Spruce Street
East Longmeadow, MA 01028

Page _____ of _____

Company Name:	LAND remediation
Address:	74 Hudson River Road Waterford, NY
Phone:	
Project Name:	NYSDEC Saranac Lake Gas Co.
Project Location:	Saranac Lake Construction Water
Project Number:	
Project Manager:	Matthew Warren
Con-Test Quote Name/Number:	
Invoice Recipient:	mjw@land-remediation.com
Sampled By:	Vaughn Nelson, Kyle Jones

Requested Turnaround Time
7-Day ☐ 10-Day ☐
Due Date:

Rush-Approval Required
1-Day ☑ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
CLP Like Data Pkg Required: ☐
Email To: mjw@land-remediation.com
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	BOD-5	TDS	TSS	Oil & Grease 1664	8270 SVOC - PAH SIM	VOC 624.1 - (See Below)	VOC 8260 - Isopropyl Benzene & Toluene Only	608 PCB - 608 Pest - Endosulfan I, Heptachlor Epoxide	Metals- Pb, Zn, Cr.	pH	# of Containers
1	OU2-WWTP-Eff-15	10/10/2018 0:00	10/10/2018 3:20	X		WW	L	x	x	x	x	x		x	x	x	x	
	OU2-WWTP-Eff-15	10/10/2018 0:00	10/10/2018 3:20pm		x	WW	L						x					

[2] Preservation Code
[3] Container Code

Dissolved Metals Samples
☐ Field Filtered
☐ Lab to Filter

Orthophosphate Samples
☐ Field Filtered
☐ Lab to Filter

[1] Matrix Codes:
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define)

[2] Preservation Codes:
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

[3] Container Codes:
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Comments: VOC 624.1 - Benzene, Ethyl Benzene, Xylenes Total, and 124 TMB

48 Hour TAT TDS/TSS ; 5 day TAT BOD and Oil & Grease

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time: 10-10-18 3:30pm
Received by: (signature) 2.6	Date/Time: 10/10/18 904
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Program & Regulatory Information
☐ AWQ STDS ☐ NY TOGS
☐ NYC Sewer Discharge ☐ NY CP-51
☐ Part 360 GW (Landfill)
☐ NY Restricted Use
☐ NY Unrestricted Use
☐ NY Part 375
Other:

Deliverables
☐ Enhanced Data Package
☐ NYSDEC EQuIS EDD
☐ EQuIS (Standard) EDD
☐ NY Regulatory EDD
☐ NY Regs Hits-Only EDD
Other:

Project Entity
☑ Government ☐ Municipality ☐ MWRA ☐ WRTA
☐ Federal ☐ 21 J ☐ School
☐ City ☐ Brownfield ☐ MBTA

Other
☐ Chromatogram
☐ AIHA-LAP,LLC

PCB ONLY
☐ Soxhlet
☐ Non Soxhlet

Page 10 of 12

Table of Contents

Sign In

TRACK ANOTHER SHIPMENT

867759934852

Delivered
Thursday 10/11/2018 at 9:04 am

DELIVERED

Signed for by: B.BECCA

GET STATUS UPDATES

OBTAIN PROOF OF DELIVERY

FROM

SAR US

TO

EAST LONGMEADOW, MA US

Travel History | Multiple-piece Shipment | Shipment Facts

10/11/2018 - Thursday	9:04 am	Delivered MA

Expand History

10/10/2018 - Wednesday	4:18 pm	Picked up PLATTSBURGH, NY

Ask FedEx

OUR COMPANY

About FedEx
Our Portfolio
Investor Relations
Careers
FedEx Blog
Corporate Responsibility
Newsroom
Contact Us

MORE FROM FEDEX

FedEx Compatible
Developer Resource Center
FedEx Cross Border

LANGUAGE

Change Country

English

I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples_____

con-test® ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client LAND Remediation

Received By RAP Date 10/11/18 Time 904

How were the samples received? In Cooler T No Cooler _____ On Ice T No Ice _____ Direct from Sampling _____ Ambient _____ Melted Ice _____

Were samples within Temperature? 2-6°C T By Gun # 557 Actual Temp - 2.6 By Blank # _____ Actual Temp - _____

Was Custody Seal Intact? NA Were Samples Tampered with? NA

Was COC Relinquished ? T Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? T Were samples received within holding time? T

Did COC include all pertinent Information? Client T Analysis T Sampler Name T Project T ID's T Collection Dates/Times T

Are Sample labels filled out and legible? T

Are there Lab to Filters? F Who was notified? _____

Are there Rushes? F Who was notified? _____

Are there Short Holds? T Who was notified? Lucy

Is there enough Volume? T

Is there Headspace where applicable? F MS/MSD? F

Proper Media/Containers Used? T Is splitting samples required? F

Were trip blanks received? F On COC? F

Do all samples have the proper pH? N/A Acid _____ Base _____

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.	2	1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic	1	8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Comments:

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

October 17, 2018

Keith Decker
Land Remediation
74 Hudson River Road
Waterford, NY 12188

Project Location: Saranac Lake
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 18J0755

Enclosed are results of analyses for samples received by the laboratory on October 16, 2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Aaron L. Benoit
Project Manager

Table of Contents

Sample Summary 4

Case Narrative 5

Sample Results 6

18J0755-01 6

18J0755-02 11

Sample Preparation Information 13

QC Data 14

Volatile Organic Compounds by GC/MS 14

B214977 14

Volatile Organic Compounds by GC/MS 15

B215031 15

Semivolatile Organic Compounds by GC/MS 16

B214997 16

Organochloride Pesticides by GC/ECD 18

B214934 18

Polychlorinated Biphenyls By GC/ECD 19

B214933 19

Metals Analyses (Total) 20

B214916 20

B214917 20

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) 21

B214960 21

Pesticides Degradation Report 22

Dual Column RPD Report 24

Flag/Qualifier Summary 28

Table of Contents (continued)

Certifications 29

Chain of Custody/Sample Receipt 31

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Land Remediation
74 Hudson River Road
Waterford, NY 12188
ATTN: Keith Decker

REPORT DATE: 10/17/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18J0755

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Saranac Lake

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
OU2-WWTP-Eff-16	18J0755-01	Waste Water		EPA 200.7	
				EPA 200.8	
				EPA 608.3	
				SM21-22 4500 H B	
				SW-846 8270D	
OU2-WWTP-Eff-16	18J0755-02	Waste Water		EPA 624.1	
				SW-846 8260C	

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

For method 8270, only PAHs were requested and reported.

SM21-22 4500 H B

Qualifications:

H-05

Holding time was exceeded. pH analysis should be performed immediately at time of sampling. Nominal 15 minute holding time was exceeded.

Analyte & Samples(s) Qualified:

pH

18J0755-01[OU2-WWTP-Eff-16]

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Lisa A. Worthington
Project Manager

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake | Sample Description: | Work Order: 18J0755

Date Received: 10/16/2018

Field Sample #: OU2-WWTP-Eff-16

Sample ID: 18J0755-01 | Start Date/Time: 10/15/2018 2:59:00PM

Sample Matrix: Waste Water | Stop Date/Time: 10/15/2018 3:10:00PM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene (SIM)	ND	0.29	0.058	µg/L	1		SW-846 8270D	10/16/18	10/17/18 12:40	IMR
Acenaphthylene (SIM)	ND	0.19	0.048	µg/L	1		SW-846 8270D	10/16/18	10/17/18 12:40	IMR
Anthracene (SIM)	ND	0.19	0.038	µg/L	1		SW-846 8270D	10/16/18	10/17/18 12:40	IMR
Benzo(a)anthracene (SIM)	ND	0.048	0.048	µg/L	1		SW-846 8270D	10/16/18	10/17/18 12:40	IMR
Benzo(a)pyrene (SIM)	ND	0.096	0.038	µg/L	1		SW-846 8270D	10/16/18	10/17/18 12:40	IMR
Benzo(b)fluoranthene (SIM)	ND	0.048	0.019	µg/L	1		SW-846 8270D	10/16/18	10/17/18 12:40	IMR
Benzo(g,h,i)perylene (SIM)	ND	0.48	0.067	µg/L	1		SW-846 8270D	10/16/18	10/17/18 12:40	IMR
Benzo(k)fluoranthene (SIM)	ND	0.038	0.019	µg/L	1		SW-846 8270D	10/16/18	10/17/18 13:09	IMR
Chrysene (SIM)	ND	0.19	0.029	µg/L	1		SW-846 8270D	10/16/18	10/17/18 12:40	IMR
Dibenz(a,h)anthracene (SIM)	ND	0.096	0.038	µg/L	1		SW-846 8270D	10/16/18	10/17/18 12:40	IMR
Fluoranthene (SIM)	ND	0.48	0.029	µg/L	1		SW-846 8270D	10/16/18	10/17/18 12:40	IMR
Fluorene (SIM)	ND	0.96	0.038	µg/L	1		SW-846 8270D	10/16/18	10/17/18 12:40	IMR
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.096	0.077	µg/L	1		SW-846 8270D	10/16/18	10/17/18 12:40	IMR
Naphthalene (SIM)	ND	0.96	0.067	µg/L	1		SW-846 8270D	10/16/18	10/17/18 12:40	IMR
Phenanthrene (SIM)	ND	0.048	0.038	µg/L	1		SW-846 8270D	10/16/18	10/17/18 12:40	IMR
Pyrene (SIM)	ND	0.96	0.029	µg/L	1		SW-846 8270D	10/16/18	10/17/18 12:40	IMR

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	79.3	30-130		10/17/18 12:40
Nitrobenzene-d5	68.3	30-130		10/17/18 13:09
2-Fluorobiphenyl	78.3	30-130		10/17/18 12:40
2-Fluorobiphenyl	51.8	30-130		10/17/18 13:09
p-Terphenyl-d14	68.0	30-130		10/17/18 12:40
p-Terphenyl-d14	52.3	30-130		10/17/18 13:09

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake | Sample Description: | Work Order: 18J0755

Date Received: 10/16/2018

Field Sample #: OU2-WWTP-Eff-16

Sample ID: 18J0755-01 | Start Date/Time: 10/15/2018 2:59:00PM

Sample Matrix: Waste Water | Stop Date/Time: 10/15/2018 3:10:00PM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Endosulfan I [1]	ND	0.010	0.00042	µg/L	1		EPA 608.3	10/16/18	10/17/18 13:16	TG
Heptachlor epoxide [1]	ND	0.010	0.00080	µg/L	1		EPA 608.3	10/16/18	10/17/18 13:16	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	87.6	30-150		10/17/18 13:16
Decachlorobiphenyl [2]	91.8	30-150		10/17/18 13:16
Tetrachloro-m-xylene [1]	77.9	30-150		10/17/18 13:16
Tetrachloro-m-xylene [2]	81.9	30-150		10/17/18 13:16

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake | Sample Description: | Work Order: 18J0755

Date Received: 10/16/2018

Field Sample #: OU2-WWTP-Eff-16

Sample ID: 18J0755-01 | Start Date/Time: 10/15/2018 2:59:00PM

Sample Matrix: Waste Water | Stop Date/Time: 10/15/2018 3:10:00PM

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.040	0.037	µg/L	1		EPA 608.3	10/16/18	10/17/18 11:40	KAL
Aroclor-1221 [1]	ND	0.040	0.032	µg/L	1		EPA 608.3	10/16/18	10/17/18 11:40	KAL
Aroclor-1232 [1]	ND	0.040	0.040	µg/L	1		EPA 608.3	10/16/18	10/17/18 11:40	KAL
Aroclor-1242 [1]	ND	0.040	0.035	µg/L	1		EPA 608.3	10/16/18	10/17/18 11:40	KAL
Aroclor-1248 [1]	ND	0.040	0.038	µg/L	1		EPA 608.3	10/16/18	10/17/18 11:40	KAL
Aroclor-1254 [1]	ND	0.040	0.021	µg/L	1		EPA 608.3	10/16/18	10/17/18 11:40	KAL
Aroclor-1260 [1]	ND	0.040	0.039	µg/L	1		EPA 608.3	10/16/18	10/17/18 11:40	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	92.8	30-150		10/17/18 11:40
Decachlorobiphenyl [2]	107	30-150		10/17/18 11:40
Tetrachloro-m-xylene [1]	86.1	30-150		10/17/18 11:40
Tetrachloro-m-xylene [2]	92.6	30-150		10/17/18 11:40

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake | Sample Description: | Work Order: 18J0755

Date Received: 10/16/2018

Field Sample #: OU2-WWTP-Eff-16

Sample ID: 18J0755-01 | Start Date/Time: 10/15/2018 2:59:00PM

Sample Matrix: Waste Water | Stop Date/Time: 10/15/2018 3:10:00PM

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Chromium	ND	0.0070	0.0061	mg/L	1		EPA 200.7	10/16/18	10/17/18 14:05	QNW
Lead	ND	0.50	0.14	µg/L	1		EPA 200.8	10/16/18	10/17/18 12:12	MJH
Zinc	ND	0.010	0.0052	mg/L	1		EPA 200.7	10/16/18	10/17/18 14:05	QNW

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake | Sample Description: | Work Order: 18J0755

Date Received: 10/16/2018

Field Sample #: OU2-WWTP-Eff-16

Sample ID: 18J0755-01 | Start Date/Time: 10/15/2018 2:59:00PM

Sample Matrix: Waste Water | Stop Date/Time: 10/15/2018 3:10:00PM

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
pH @17.1°C	6.7		pH Units	1	H-05	SM21-22 4500 H B	10/16/18	10/16/18 17:00	LED

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake | Sample Description: | Work Order: 18J0755

Date Received: 10/16/2018

Field Sample #: OU2-WWTP-Eff-16

Sample ID: 18J0755-02 | Start Date/Time: 10/15/2018 2:59:00PM

Sample Matrix: Waste Water | Stop Date/Time: 10/15/2018 3:10:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Isopropylbenzene (Cumene)	ND	1.0	0.12	µg/L	1		SW-846 8260C	10/17/18	10/17/18 12:21	LBD
Toluene	ND	1.0	0.17	µg/L	1		SW-846 8260C	10/17/18	10/17/18 12:21	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	93.7	70-130		10/17/18 12:21
Toluene-d8	98.9	70-130		10/17/18 12:21
4-Bromofluorobenzene	101	70-130		10/17/18 12:21

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake | Sample Description: | Work Order: 18J0755

Date Received: 10/16/2018

Field Sample #: OU2-WWTP-Eff-16

Sample ID: 18J0755-02 | Start Date/Time: 10/15/2018 2:59:00PM

Sample Matrix: Waste Water | Stop Date/Time: 10/15/2018 3:10:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	1.0	0.34	µg/L	1		EPA 624.1	10/17/18	10/17/18 12:21	LBD
Ethylbenzene	ND	2.0	0.37	µg/L	1		EPA 624.1	10/17/18	10/17/18 12:21	LBD
1,2,4-Trimethylbenzene	ND	1.0	0.34	µg/L	1		EPA 624.1	10/17/18	10/17/18 12:21	LBD
Xylenes (total)	ND	3.0		µg/L	1		EPA 624.1	10/17/18	10/17/18 12:21	LBD
m+p Xylene	ND	2.0	0.65	µg/L	1		EPA 624.1	10/17/18	10/17/18 12:21	LBD
o-Xylene	ND	2.0	0.35	µg/L	1		EPA 624.1	10/17/18	10/17/18 12:21	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	93.7	70-130		10/17/18 12:21
Toluene-d8	98.9	70-130		10/17/18 12:21
4-Bromofluorobenzene	101	70-130		10/17/18 12:21

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: EPA 200.7-EPA 200.7

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18J0755-01 [OU2-WWTP-Eff-16]	B214916	50.0	50.0	10/16/18

Prep Method: EPA 200.8-EPA 200.8

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18J0755-01 [OU2-WWTP-Eff-16]	B214917	50.0	50.0	10/16/18

Prep Method: SW-846 3510C-EPA 608.3

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18J0755-01 [OU2-WWTP-Eff-16]	B214933	1000	2.00	10/16/18

Prep Method: SW-846 3510C-EPA 608.3

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18J0755-01 [OU2-WWTP-Eff-16]	B214934	1000	2.00	10/16/18

Prep Method: SW-846 5030B-EPA 624.1

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18J0755-02 [OU2-WWTP-Eff-16]	B215031	5	5.00	10/17/18

SM21-22 4500 H B

Lab Number [Field ID]	Batch	Initial [mL]	Date
18J0755-01 [OU2-WWTP-Eff-16]	B214960	50.0	10/16/18

Prep Method: SW-846 5030B-SW-846 8260C

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18J0755-02 [OU2-WWTP-Eff-16]	B214977	5	5.00	10/17/18

Prep Method: SW-846 3510C-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18J0755-01 [OU2-WWTP-Eff-16]	B214997	1040	1.00	10/16/18
18J0755-01RE1 [OU2-WWTP-Eff-16]	B214997	1040	0.200	10/16/18

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B214977 - SW-846 5030B										
Blank (B214977-BLK1)				Prepared & Analyzed: 10/17/18						
Isopropylbenzene (Cumene)	ND	1.0	µg/L							
Toluene	ND	1.0	µg/L							
Surrogate: 1,2-Dichloroethane-d4	*23.5*		µg/L	25.0		94.2	70-130			
Surrogate: Toluene-d8	*24.6*		µg/L	25.0		98.4	70-130			
Surrogate: 4-Bromofluorobenzene	*26.0*		µg/L	25.0		104	70-130			
LCS (B214977-BS1)				Prepared & Analyzed: 10/17/18						
Isopropylbenzene (Cumene)	20.3	1.0	µg/L	20.0		101	70-130			
Toluene	19.5	1.0	µg/L	20.0		97.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	*23.1*		µg/L	25.0		92.4	70-130			
Surrogate: Toluene-d8	*25.0*		µg/L	25.0		100	70-130			
Surrogate: 4-Bromofluorobenzene	*25.7*		µg/L	25.0		103	70-130			
LCS Dup (B214977-BSD1)				Prepared & Analyzed: 10/17/18						
Isopropylbenzene (Cumene)	20.3	1.0	µg/L	20.0		102	70-130	0.296	25	
Toluene	20.1	1.0	µg/L	20.0		100	70-130	2.99	25	
Surrogate: 1,2-Dichloroethane-d4	*23.0*		µg/L	25.0		91.9	70-130			
Surrogate: Toluene-d8	*25.1*		µg/L	25.0		100	70-130			
Surrogate: 4-Bromofluorobenzene	*25.2*		µg/L	25.0		101	70-130			

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B215031 - SW-846 5030B										
Blank (B215031-BLK1)				Prepared & Analyzed: 10/17/18						
Benzene	ND	1.0	µg/L							
Ethylbenzene	ND	2.0	µg/L							
1,2,4-Trimethylbenzene	ND	1.0	µg/L							
Xylenes (total)	ND	3.0	µg/L							
m+p Xylene	ND	2.0	µg/L							
o-Xylene	ND	2.0	µg/L							
Surrogate: 1,2-Dichloroethane-d4	*23.5*		µg/L	25.0		94.2	70-130			
Surrogate: Toluene-d8	*24.6*		µg/L	25.0		98.4	70-130			
Surrogate: 4-Bromofluorobenzene	*26.0*		µg/L	25.0		104	70-130			
LCS (B215031-BS1)				Prepared & Analyzed: 10/17/18						
Benzene	17.6	1.0	µg/L	20.0		88.2	65-135			
Ethylbenzene	20.2	2.0	µg/L	20.0		101	60-140			
1,2,4-Trimethylbenzene	19.7	1.0	µg/L	20.0		98.3	70-130			
m+p Xylene	40.9	2.0	µg/L	40.0		102	70-130			
o-Xylene	20.4	2.0	µg/L	20.0		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	*23.0*		µg/L	25.0		91.9	70-130			
Surrogate: Toluene-d8	*25.1*		µg/L	25.0		100	70-130			
Surrogate: 4-Bromofluorobenzene	*25.2*		µg/L	25.0		101	70-130			

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B214997 - SW-846 3510C										
Blank (B214997-BLK1)				Prepared: 10/16/18 Analyzed: 10/17/18						
Acenaphthene (SIM)	ND	0.30	µg/L							
Acenaphthylene (SIM)	ND	0.20	µg/L							
Anthracene (SIM)	ND	0.20	µg/L							
Benzo(a)anthracene (SIM)	ND	0.050	µg/L							
Benzo(a)pyrene (SIM)	ND	0.10	µg/L							
Benzo(b)fluoranthene (SIM)	ND	0.050	µg/L							
Benzo(g,h,i)perylene (SIM)	ND	0.50	µg/L							
Benzo(k)fluoranthene (SIM)	ND	0.20	µg/L							
Chrysene (SIM)	ND	0.20	µg/L							
Dibenz(a,h)anthracene (SIM)	ND	0.10	µg/L							
Fluoranthene (SIM)	ND	0.50	µg/L							
Fluorene (SIM)	ND	1.0	µg/L							
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.10	µg/L							
Naphthalene (SIM)	ND	1.0	µg/L							
Phenanthrene (SIM)	ND	0.050	µg/L							
Pyrene (SIM)	ND	1.0	µg/L							
Surrogate: Nitrobenzene-d5	*56.9*		µg/L	100		56.9	30-130			
Surrogate: 2-Fluorobiphenyl	*57.9*		µg/L	100		57.9	30-130			
Surrogate: p-Terphenyl-d14	*57.6*		µg/L	100		57.6	30-130			
Blank (B214997-BLK2)				Prepared: 10/16/18 Analyzed: 10/17/18						
Benzo(k)fluoranthene (SIM)	ND	0.040	µg/L							
Surrogate: Nitrobenzene-d5	*65.4*		µg/L	100		65.4	30-130			
Surrogate: 2-Fluorobiphenyl	*50.3*		µg/L	100		50.3	30-130			
Surrogate: p-Terphenyl-d14	*54.4*		µg/L	100		54.4	30-130			
LCS (B214997-BS1)				Prepared: 10/16/18 Analyzed: 10/17/18						
Acenaphthene (SIM)	29.4	7.5	µg/L	50.0		58.7	40-140			
Acenaphthylene (SIM)	30.4	5.0	µg/L	50.0		60.7	40-140			
Anthracene (SIM)	32.0	5.0	µg/L	50.0		64.0	40-140			
Benzo(a)anthracene (SIM)	31.7	1.2	µg/L	50.0		63.4	40-140			
Benzo(a)pyrene (SIM)	33.0	2.5	µg/L	50.0		66.0	40-140			
Benzo(b)fluoranthene (SIM)	33.8	1.2	µg/L	50.0		67.6	40-140			
Benzo(g,h,i)perylene (SIM)	32.1	12	µg/L	50.0		64.2	40-140			
Benzo(k)fluoranthene (SIM)	31.3	5.0	µg/L	50.0		62.6	40-140			
Chrysene (SIM)	31.1	5.0	µg/L	50.0		62.2	40-140			
Dibenz(a,h)anthracene (SIM)	32.8	2.5	µg/L	50.0		65.6	40-140			
Fluoranthene (SIM)	31.9	12	µg/L	50.0		63.8	40-140			
Fluorene (SIM)	30.8	25	µg/L	50.0		61.5	40-140			
Indeno(1,2,3-cd)pyrene (SIM)	33.6	2.5	µg/L	50.0		67.2	40-140			
Naphthalene (SIM)	27.4	25	µg/L	50.0		54.7	40-140			
Phenanthrene (SIM)	30.1	1.2	µg/L	50.0		60.2	40-140			
Pyrene (SIM)	29.4	25	µg/L	50.0		58.8	40-140			
Surrogate: Nitrobenzene-d5	*52.9*		µg/L	100		52.9	30-130			
Surrogate: 2-Fluorobiphenyl	*49.7*		µg/L	100		49.7	30-130			
Surrogate: p-Terphenyl-d14	*43.9*		µg/L	100		43.9	30-130			

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B214997 - SW-846 3510C										
LCS Dup (B214997-BSD1)				Prepared: 10/16/18 Analyzed: 10/17/18						
Acenaphthene (SIM)	29.2	7.5	µg/L	50.0		58.4	40-140	0.512	20	
Acenaphthylene (SIM)	30.2	5.0	µg/L	50.0		60.3	40-140	0.661	20	
Anthracene (SIM)	31.9	5.0	µg/L	50.0		63.8	40-140	0.313	20	
Benzo(a)anthracene (SIM)	31.7	1.2	µg/L	50.0		63.4	40-140	0.00	20	
Benzo(a)pyrene (SIM)	33.0	2.5	µg/L	50.0		66.0	40-140	0.152	20	
Benzo(b)fluoranthene (SIM)	33.4	1.2	µg/L	50.0		66.8	40-140	1.12	20	
Benzo(g,h,i)perylene (SIM)	32.1	12	µg/L	50.0		64.2	40-140	0.0779	20	
Benzo(k)fluoranthene (SIM)	31.3	5.0	µg/L	50.0		62.6	40-140	0.00	20	
Chrysene (SIM)	31.0	5.0	µg/L	50.0		62.0	40-140	0.322	20	
Dibenz(a,h)anthracene (SIM)	32.8	2.5	µg/L	50.0		65.5	40-140	0.153	20	
Fluoranthene (SIM)	31.9	12	µg/L	50.0		63.8	40-140	0.0783	20	
Fluorene (SIM)	30.7	25	µg/L	50.0		61.4	40-140	0.0813	20	
Indeno(1,2,3-cd)pyrene (SIM)	33.5	2.5	µg/L	50.0		67.0	40-140	0.224	20	‡
Naphthalene (SIM)	27.4	25	µg/L	50.0		54.8	40-140	0.183	20	
Phenanthrene (SIM)	30.0	1.2	µg/L	50.0		59.9	40-140	0.583	20	
Pyrene (SIM)	29.2	25	µg/L	50.0		58.5	40-140	0.512	20	
Surrogate: Nitrobenzene-d5	*52.5*		µg/L	100		52.5	30-130			
Surrogate: 2-Fluorobiphenyl	*50.1*		µg/L	100		50.1	30-130			
Surrogate: p-Terphenyl-d14	*42.3*		µg/L	100		42.3	30-130			

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B214934 - SW-846 3510C										
Blank (B214934-BLK1)				Prepared: 10/16/18 Analyzed: 10/17/18						
Endosulfan I	ND	0.010	µg/L							
Endosulfan I [2C]	ND	0.010	µg/L							
Heptachlor Epoxide	ND	0.010	µg/L							
Heptachlor Epoxide [2C]	ND	0.010	µg/L							
Surrogate: Decachlorobiphenyl	*0.366*		µg/L	0.400		91.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.355*		µg/L	0.400		88.7	30-150			
Surrogate: Tetrachloro-m-xylene	*0.350*		µg/L	0.400		87.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.359*		µg/L	0.400		89.7	30-150			
LCS (B214934-BS1)				Prepared: 10/16/18 Analyzed: 10/17/18						
Endosulfan I	0.89	0.050	µg/L	1.00		88.8	45-153			
Endosulfan I [2C]	0.87	0.050	µg/L	1.00		87.4	45-153			
Heptachlor Epoxide	0.88	0.050	µg/L	1.00		87.8	37-142			
Heptachlor Epoxide [2C]	0.86	0.050	µg/L	1.00		86.5	37-142			
Surrogate: Decachlorobiphenyl	*1.83*		µg/L	2.00		91.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.73*		µg/L	2.00		86.3	30-150			
Surrogate: Tetrachloro-m-xylene	*1.71*		µg/L	2.00		85.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.75*		µg/L	2.00		87.4	30-150			
LCS Dup (B214934-BSD1)				Prepared: 10/16/18 Analyzed: 10/17/18						
Endosulfan I	0.91	0.050	µg/L	1.00		91.2	45-153	2.69		
Endosulfan I [2C]	0.89	0.050	µg/L	1.00		89.1	45-153	1.95		
Heptachlor Epoxide	0.90	0.050	µg/L	1.00		90.3	37-142	2.79		
Heptachlor Epoxide [2C]	0.88	0.050	µg/L	1.00		88.1	37-142	1.88		
Surrogate: Decachlorobiphenyl	*1.79*		µg/L	2.00		89.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.66*		µg/L	2.00		83.1	30-150			
Surrogate: Tetrachloro-m-xylene	*1.68*		µg/L	2.00		84.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.71*		µg/L	2.00		85.4	30-150			

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B214933 - SW-846 3510C										
Blank (B214933-BLK1)				Prepared: 10/16/18 Analyzed: 10/17/18						
Aroclor-1016	ND	0.040	µg/L							
Aroclor-1016 [2C]	ND	0.040	µg/L							
Aroclor-1221	ND	0.040	µg/L							
Aroclor-1221 [2C]	ND	0.040	µg/L							
Aroclor-1232	ND	0.040	µg/L							
Aroclor-1232 [2C]	ND	0.040	µg/L							
Aroclor-1242	ND	0.040	µg/L							
Aroclor-1242 [2C]	ND	0.040	µg/L							
Aroclor-1248	ND	0.040	µg/L							
Aroclor-1248 [2C]	ND	0.040	µg/L							
Aroclor-1254	ND	0.040	µg/L							
Aroclor-1254 [2C]	ND	0.040	µg/L							
Aroclor-1260	ND	0.040	µg/L							
Aroclor-1260 [2C]	ND	0.040	µg/L							
Surrogate: Decachlorobiphenyl	*0.385*		µg/L	0.400		96.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.444*		µg/L	0.400		111	30-150			
Surrogate: Tetrachloro-m-xylene	*0.406*		µg/L	0.400		101	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.438*		µg/L	0.400		109	30-150			
LCS (B214933-BS1)				Prepared: 10/16/18 Analyzed: 10/17/18						
Aroclor-1016	0.54	0.20	µg/L	0.500		108	50-140			
Aroclor-1016 [2C]	0.55	0.20	µg/L	0.500		109	50-140			
Aroclor-1260	0.50	0.20	µg/L	0.500		99.4	8-140			
Aroclor-1260 [2C]	0.54	0.20	µg/L	0.500		109	8-140			
Surrogate: Decachlorobiphenyl	*1.74*		µg/L	2.00		86.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	*2.00*		µg/L	2.00		99.9	30-150			
Surrogate: Tetrachloro-m-xylene	*1.82*		µg/L	2.00		91.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.97*		µg/L	2.00		98.4	30-150			
LCS Dup (B214933-BSD1)				Prepared: 10/16/18 Analyzed: 10/17/18						
Aroclor-1016	0.56	0.20	µg/L	0.500		111	50-140	2.58		
Aroclor-1016 [2C]	0.57	0.20	µg/L	0.500		113	50-140	3.26		
Aroclor-1260	0.51	0.20	µg/L	0.500		102	8-140	2.70		
Aroclor-1260 [2C]	0.55	0.20	µg/L	0.500		110	8-140	1.08		
Surrogate: Decachlorobiphenyl	*1.68*		µg/L	2.00		83.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.93*		µg/L	2.00		96.5	30-150			
Surrogate: Tetrachloro-m-xylene	*1.87*		µg/L	2.00		93.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*2.02*		µg/L	2.00		101	30-150			

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B214916 - EPA 200.7										
Blank (B214916-BLK1)				Prepared: 10/16/18 Analyzed: 10/17/18						
Chromium	ND	0.0070	mg/L							
Zinc	ND	0.010	mg/L							
LCS (B214916-BS1)				Prepared: 10/16/18 Analyzed: 10/17/18						
Chromium	0.525	0.0070	mg/L	0.500		105	85-115			
Zinc	1.04	0.010	mg/L	1.00		104	85-115			
LCS Dup (B214916-BSD1)				Prepared: 10/16/18 Analyzed: 10/17/18						
Chromium	0.521	0.0070	mg/L	0.500		104	85-115	0.652	20	
Zinc	1.04	0.010	mg/L	1.00		104	85-115	0.680	20	
Batch B214917 - EPA 200.8										
Blank (B214917-BLK1)				Prepared: 10/16/18 Analyzed: 10/17/18						
Lead	ND	0.50	µg/L							
LCS (B214917-BS1)				Prepared: 10/16/18 Analyzed: 10/17/18						
Lead	494	5.0	µg/L	500		98.9	85-115			
LCS Dup (B214917-BSD1)				Prepared: 10/16/18 Analyzed: 10/17/18						
Lead	492	5.0	µg/L	500		98.5	85-115	0.420	20	

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B214960 - SM21-22 4500 H B										
LCS (B214960-BS1)			Prepared & Analyzed: 10/16/18							
pH	5.96		pH Units	6.00		99.4	90-110			

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

BREAKDOWN REPORT

Lab Sample ID:	S028418-PEM1	Analyzed:	10/16/2018

Column Number: 1

Analyte	% Breakdown
4,4'-DDT [1]	1.00
Endrin [1]	3.51

Column Number: 2

Analyte	% Breakdown
4,4'-DDT [2]	0.86
Endrin [2]	3.12

BREAKDOWN REPORT

Lab Sample ID:	S028418-PEM2	Analyzed:	10/16/2018

Column Number: 1

Analyte	% Breakdown
4,4'-DDT [1]	1.14
Endrin [1]	2.64

Column Number: 2

Analyte	% Breakdown
4,4'-DDT [2]	1.01
Endrin [2]	2.24

BREAKDOWN REPORT

Lab Sample ID:	S028418-PEM3	Analyzed:	10/17/2018

Column Number: 1

Analyte	% Breakdown
4,4'-DDT [1]	1.17
Endrin [1]	2.89

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

BREAKDOWN REPORT

Lab Sample ID:	**S028418-PEM3**	**Analyzed:**	**10/17/2018**

Column Number: **2**

Analyte	% Breakdown
4,4'-DDT [2]	1.04
Endrin [2]	2.39

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

EPA 608.3

LCS

Lab Sample ID: B214933-BS1 Date(s) Analyzed 10/17/2018 10/17/2018

Instrument ID (1): ECD 9 Instrument ID (2): ECD 9

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.54	
	2	0.000	0.000	0.000	0.55	1.8
Aroclor-1260	1	0.000	0.000	0.000	0.50	
	2	0.000	0.000	0.000	0.54	7.7

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

EPA 608.3

LCS Dup

Lab Sample ID: B214933-BSD1 Date(s) Analyzed 10/17/2018 10/17/2018

Instrument ID (1): ECD 9 Instrument ID (2): ECD 9

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.56	
	2	0.000	0.000	0.000	0.57	1.8
Aroclor-1260	1	0.000	0.000	0.000	0.51	
	2	0.000	0.000	0.000	0.55	7.6

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

EPA 608.3

LCS

Lab Sample ID: B214934-BS1 Date(s) Analyzed 10/17/2018 10/17/2018

Instrument ID (1): ECD6 Instrument ID (2): ECD6

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Endosulfan I	1	6.452	0.000	0.000	0.89	
	2	6.441	0.000	0.000	0.87	2.3
Heptachlor Epoxide	1	6.191	0.000	0.000	0.88	
	2	6.180	0.000	0.000	0.86	2.3

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

EPA 608.3

LCS Dup

Lab Sample ID: B214934-BSD1 Date(s) Analyzed 10/17/2018 10/17/2018

Instrument ID (1): ECD6 Instrument ID (2): ECD6

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Endosulfan I	1	6.452	0.000	0.000	0.91	
	2	6.441	0.000	0.000	0.89	2.2
Heptachlor Epoxide	1	6.191	0.000	0.000	0.90	
	2	6.180	0.000	0.000	0.88	2.3

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
H-05	Holding time was exceeded. pH analysis should be performed immediately at time of sampling. Nominal 15 minute holding time was exceeded.

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
EPA 200.7 in Water	
Chromium	CT,MA,NH,NY,RI,NC,ME,VA
Zinc	CT,MA,NH,NY,RI,NC,ME,VA
EPA 200.8 in Water	
Lead	CT,MA,NH,NY,RI,NC,ME,VA
EPA 608.3 in Water	
Aroclor-1016	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1016 [2C]	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1221	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1221 [2C]	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1232	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1232 [2C]	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1242	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1242 [2C]	CT,MA,NH,NY,RI,NC,ME,VA
Endosulfan I	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1248	CT,MA,NH,NY,RI,NC,ME,VA
Endosulfan I [2C]	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1248 [2C]	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1254	CT,MA,NH,NY,RI,NC,ME,VA
Heptachlor Epoxide	CT,MA,NH,NY,RI,NC,ME,VA
Heptachlor Epoxide [2C]	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1254 [2C]	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1260	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1260 [2C]	CT,MA,NH,NY,RI,NC,ME,VA
EPA 624.1 in Water	
Benzene	CT,NY,RI,NC,MA,NH
Ethylbenzene	CT,NY,RI,NC,MA,NH
Toluene	CT,NY,RI,NC,MA,NH
1,2,4-Trimethylbenzene	MA
Xylenes (total)	NY,MA,NH
m+p Xylene	CT,NY,RI,NC,MA,NH
o-Xylene	CT,NY,RI,NC,MA,NH
SM21-22 4500 H B in Water	
pH	CT,MA,RI
SW-846 8260C in Water	
Benzene	CT,ME,NH,VA,NY
Ethylbenzene	CT,ME,NH,VA,NY
Isopropylbenzene (Cumene)	ME,VA,NY
Toluene	CT,ME,NH,VA,NY
1,2,4-Trimethylbenzene	ME,VA,NY
m+p Xylene	CT,ME,NH,VA,NY
o-Xylene	CT,ME,NH,VA,NY
Xylenes (total)	NY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	03/1/2020
MA	Massachusetts DEP	M-MA100	06/30/2019
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2019
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2019
RI	Rhode Island Department of Health	LAO00112	12/30/2018
NC	North Carolina Div. of Water Quality	652	12/31/2018
NJ	New Jersey DEP	MA007 NELAP	06/30/2019
FL	Florida Department of Health	E871027 NELAP	06/30/2019
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2019
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2018
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2019
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2019
NC-DW	North Carolina Department of Health	25703	07/31/2019

18J0755

con-test ANALYTICAL LABORATORY

Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com

http://www.contestlabs.com Doc # 380 Rev 1_03242017

CHAIN OF CUSTODY RECORD (New York)

39 Spruce Street
East Longmeadow, MA 01028

Page _____ of _____

Company Name:	LAND remediation
Address:	74 Hudson River Road Waterford, NY
Phone:	
Project Name:	NYSDEC Saranac Lake Gas Co.
Project Location:	Saranac Lake Construction Water
Project Number:	
Project Manager:	Matthew Warren
Con-Test Quote Name/Number:	
Invoice Recipient:	mjw@land-remediation.com
Sampled By:	Vaughn Nelson

Requested Turnaround Time
7-Day ☐ 10-Day ☐
Due Date:

Rush-Approval Required
1-Day ☑ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
CLP Like Data Pkg Required: ☐
Email To: mjw@land-remediation.com
Fax To #:

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	BOD-5	TDS	TSS	Oil & Grease 1664	8270 SVOC - PAH SIM	VOC 624.1 - (See Below)	VOC 8260 - Isopropyl Benzene & Toluene Only	608 PCB - 608 Pest - Endosulfan I, Heptachlor Epoxide	Metals- Pb, Zn, Cr.	pH
1	OU2-WWTP-Eff-16	10/15/2018 2:59pm	10/15/2018 3:10	X		WW	L	x	x	x	x	x		x	x	x	x
2	OU2-WWTP-Eff-16	10/15/2018 2:59pm	10/15/2018 3:10pm		x	WW	L						x				

ANALYSIS REQUESTED

# of Containers
[2] Preservation Code
[3] Container Code

Dissolved Metals Samples
☐ Field Filtered
☐ Lab to Filter

Orthophosphate Samples
☐ Field Filtered
☐ Lab to Filter

[1] Matrix Codes:
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define)

[2] Preservation Codes:
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

[3] Container Codes:
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Comments: VOC 624.1 - Benzene, Ethyl Benzene, Xylenes Total, and 124 TMB

48 Hour TAT TDS/TSS ; 5 day TAT BOD and Oil & Grease

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time: 10/15/18 3:30pm
Received by: (signature)	Date/Time: 10/16/18 845
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Program & Regulatory Information
☐ AWQ STDS ☐ NY TOGS
☐ NYC Sewer Discharge ☐ NY CP-51
☐ Part 360 GW (Landfill)
☐ NY Restricted Use
☐ NY Unrestricted Use
☐ NY Part 375
Other:

Deliverables
☐ Enhanced Data Package
☐ NYSDEC EQuIS EDD
☐ EQuIS (Standard) EDD
☐ NY Regulatory EDD
☐ NY Regs Hits-Only EDD
Other:

Project Entity
☑ Government ☐ Municipality ☐ MWRA ☐ WRTA
☐ Federal ☐ 21 J ☐ School
☐ City ☐ Brownfield ☐ MBTA

Other
☐ Chromatogram
☐ *AIHA-LAP,LLC*

PCB ONLY
☐ Soxhlet
☐ Non Soxhlet

Table of Contents

TRACK ANOTHER SHIPMENT

813219356419

Delivered
Tuesday 10/16/2018 at 8:45 am

DELIVERED

Signed for by: B.BECCA

GET STATUS UPDATES

OBTAIN PROOF OF DELIVERY

FROM

SAR US

TO

EAST LONGMEADOW, MA US

Travel History Shipment

10/16/2018 - Tuesday	8:45 am	Delivered MA

Expand History

10/15/2018 - Monday	4:14 pm	Picked up PLATTSBURGH, NY

Ask FedEx

I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples_____

con-test® ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client Land Remediation

Received By RAP Date 10.16.18 Time 845

How were the samples received? In Cooler T No Cooler _____ On Ice T No Ice _____ Direct from Sampling _____ Ambient _____ Melted Ice _____

Were samples within Temperature? 2-6°C T By Gun # 537 Actual Temp - 2.2 By Blank # _____ Actual Temp - _____

Was Custody Seal Intact? NA Were Samples Tampered with? NA

Was COC Relinquished ? T Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? T Were samples received within holding time? T

Did COC include all pertinent Information? Client T Analysis T Sampler Name T Project T ID's T Collection Dates/Times T

Are Sample labels filled out and legible? T

Are there Lab to Filters? F Who was notified? _____

Are there Rushes? T Who was notified? Lucy, Cate, Lauren + Emily

Are there Short Holds? T Who was notified? Lucy

Is there enough Volume? T

Is there Headspace where applicable? F MS/MSD? F

Proper Media/Containers Used? T Is splitting samples required? F

Were trip blanks received? F On COC? F

Do all samples have the proper pH? Acid pH<2 Base _____

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.	6	1 Liter Plastic		16 oz Amb.	
HCL-	3	500 mL Amb.		500 mL Plastic	1	8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic	1	4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Comments:

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

October 18, 2018

Keith Decker
Land Remediation
74 Hudson River Road
Waterford, NY 12188

Project Location: Saranac Lake
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 18J0756

Enclosed are results of analyses for samples received by the laboratory on October 16, 2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Aaron L. Benoit
Project Manager

Table of Contents

Sample Summary 3

Case Narrative 4

Sample Results 5

18J0756-01 5

Sample Preparation Information 7

QC Data 8

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) 8

B214870 8

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Dissolved) 9

B214869 9

Flag/Qualifier Summary 10

Certifications 11

Chain of Custody/Sample Receipt 12

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Land Remediation
74 Hudson River Road
Waterford, NY 12188
ATTN: Keith Decker

REPORT DATE: 10/18/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18J0756

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Saranac Lake

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
OU2-WWTP-Eff-16	18J0756-01	Waste Water		SM21-22 2540C SM21-22 2540D	

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

SM21-22 2540C

Qualifications:

R-02

Duplicate RPD is outside of control limits. Outlier can be attributed to sample non-homogeneity encountered during sample prep.

Analyte & Samples(s) Qualified:

Total Dissolved Solids
18J0756-01[OU2-WWTP-Eff-16], B214869-DUP1

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Lisa A. Worthington
Project Manager

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake | Sample Description: | Work Order: 18J0756

Date Received: 10/16/2018

Field Sample #: OU2-WWTP-Eff-16

Sample ID: 18J0756-01 | Start Date/Time: 10/15/2018 2:59:00PM

Sample Matrix: Waste Water | Stop Date/Time: 10/15/2018 3:10:00PM

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Suspended Solids	2.0	2.0	mg/L	1		SM21-22 2540D	10/16/18	10/16/18 13:50	LL

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake | Sample Description: | Work Order: 18J0756

Date Received: 10/16/2018

Field Sample #: OU2-WWTP-Eff-16

Sample ID: 18J0756-01 | Start Date/Time: 10/15/2018 2:59:00PM

Sample Matrix: Waste Water | Stop Date/Time: 10/15/2018 3:10:00PM

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Dissolved)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Dissolved Solids	290	10	mg/L	1	R-02	SM21-22 2540C	10/16/18	10/16/18 12:30	LL

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

SM21-22 2540C

Lab Number [Field ID]	Batch	Initial [mL]	Date
18J0756-01 [OU2-WWTP-Eff-16]	B214869	50.0	10/16/18

SM21-22 2540D

Lab Number [Field ID]	Batch	Initial [mL]	Date
18J0756-01 [OU2-WWTP-Eff-16]	B214870	250	10/16/18

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B214870 - SM21-22 2540D										
Blank (B214870-BLK1)				Prepared & Analyzed: 10/16/18						
Total Suspended Solids	ND	2.5	mg/L							
LCS (B214870-BS1)				Prepared & Analyzed: 10/16/18						
Total Suspended Solids	200	10	mg/L	200		100	64.3-117			

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Dissolved) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD		RPD Limit	Notes
Batch B214869 - SM21-22 2540C											
Blank (B214869-BLK1)				Prepared & Analyzed: 10/16/18							
Total Dissolved Solids	ND	10	mg/L								
LCS (B214869-BS1)				Prepared & Analyzed: 10/16/18							
Total Dissolved Solids	260	10	mg/L	293		88.7	61.4-114				
Duplicate (B214869-DUP1)	**Source: 18J0756-01**			Prepared & Analyzed: 10/16/18							
Total Dissolved Solids	230	10	mg/L		290			**23.1**	*	5	R-02

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
R-02	Duplicate RPD is outside of control limits. Outlier can be attributed to sample non-homogeneity encountered during sample prep.

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SM21-22 2540C in Water	
Total Dissolved Solids	CT,MA,NH,NY,RI,NC,ME,VA
SM21-22 2540D in Water	
Total Suspended Solids	CT,MA,NH,NY,RI,NC,ME,VA

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	03/1/2020
MA	Massachusetts DEP	M-MA100	06/30/2019
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2019
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2019
RI	Rhode Island Department of Health	LAO00112	12/30/2018
NC	North Carolina Div. of Water Quality	652	12/31/2018
NJ	New Jersey DEP	MA007 NELAP	06/30/2019
FL	Florida Department of Health	E871027 NELAP	06/30/2019
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2019
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2018
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2019
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2019
NC-DW	North Carolina Department of Health	25703	07/31/2019

18J0756

con-test ANALYTICAL LABORATORY

Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com

http://www.contestlabs.com Doc # 380 Rev 1_03242017

CHAIN OF CUSTODY RECORD (New York)

39 Spruce Street
East Longmeadow, MA 01028

Page ____ of ____

Company Name:	LAND remediation
Address:	74 Hudson River Road Waterford, NY
Phone:	
Project Name:	NYSDEC Saranac Lake Gas Co.
Project Location:	Saranac Lake Construction Water
Project Number:	
Project Manager:	Matthew Warren
Con-Test Quote Name/Number:	
Invoice Recipient:	mjw@land-remediation.com
Sampled By:	Vaughn Nelson

Requested Turnaround Time
7-Day ☐ 10-Day ☐
Due Date:

Rush-Approval Required
1-Day ☑ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
CLP Like Data Pkg Required: ☐
Email To: mjw@land-remediation.com
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	BOD-5	TDS	TSS	Oil & Grease 1664	8270 SVOC - PAH SIM	VOC 624.1 - (See Below)	VOC 8260 - Isopropyl Benzene & Toluene Only	608 PCB - 608 Pest - Endosulfan I, Heptachlor Epoxide	Metals- Pb, Zn, Cr.	pH
1	OU2-WWTP-Eff-16	10/15/2018 2:59pm	10/15/2018 3:10	X		WW	L	x	x	x	x	x		x	x	x	x
	OU2-WWTP-Eff-16	10/15/2018 2:59pm	10/15/2018 3:10pm		x	WW	L						x				

# of Containers
[2] Preservation Code
[3] Container Code

Dissolved Metals Samples
☐ Field Filtered
☐ Lab to Filter

Orthophosphate Samples
☐ Field Filtered
☐ Lab to Filter

[1] Matrix Codes:
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define)

[2] Preservation Codes:
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

[3] Container Codes:
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Comments: VOC 624.1 - Benzene, Ethyl Benzene, Xylenes Total, and 124 TMB

48 Hour TAT TDS/TSS ; 5 day TAT BOD and Oil & Grease

Please use the following codes to indicate possible sample concentration within the **Conc Code** column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time: 10/15/18 3:30pm
Received by: (signature)	Date/Time: 10/16/18 8:45
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Program & Regulatory Information
☐ AWQ STDS ☐ NY TOGS
☐ NYC Sewer Discharge ☐ NY CP-51
☐ Part 360 GW (Landfill)
☐ NY Restricted Use
☐ NY Unrestricted Use
☐ NY Part 375
Other:

Deliverables
☐ Enhanced Data Package
☐ NYSDEC EQuIS EDD
☐ EQuIS (Standard) EDD
☐ NY Regulatory EDD
☐ NY Regs Hits-Only EDD
Other:

NELAC and AIHA-LAP, LLC Accredited

Project Entity
☑ Government ☐ Municipality ☐ MWRA ☐ WRTA
☐ Federal ☐ 21 J ☐ School
☐ City ☐ Brownfield ☐ MBTA

Other
☐ Chromatogram
☐ *AIHA-LAP,LLC*

PCB ONLY
☐ Soxhlet
☐ Non Soxhlet

Table of Contents

TRACK ANOTHER SHIPMENT

813219356419

Delivered
Tuesday 10/16/2018 at 8:45 am

DELIVERED

Signed for by: B.BECCA

GET STATUS UPDATES

OBTAIN PROOF OF DELIVERY

FROM

SAR US

TO

EAST LONGMEADOW, MA US

Travel History | Shipment Facts

10/16/2018 - Tuesday	8:45 am	Delivered MA

Expand History

10/15/2018 - Monday	4:14 pm	Picked up PLATTSBURGH, NY

Ask FedEx

OUR COMPANY

About FedEx
Our Portfolio
Investor Relations
Careers
FedEx Blog
Corporate Responsibility
Newsroom
Contact Us

MORE FROM FEDEX

FedEx Compatible
Developer Resource Center
FedEx Cross Border

LANGUAGE

Change Country

English

I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples_____

con-test® ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client Land Remediation

Received By RMP Date 10/ice/18 Time 845

How were the samples received? In Cooler T No Cooler _____ On Ice T No Ice _____

Direct from Sampling _____ Ambient _____ Melted Ice _____

Were samples within Temperature? 2-6°C T By Gun # 557 Actual Temp - 2.2

By Blank # _____ Actual Temp - _____

Was Custody Seal Intact? NA Were Samples Tampered with? NA

Was COC Relinquished ? T Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? T Were samples received within holding time? T

Did COC include all pertinent Information? Client T Analysis T Sampler Name T

Project T ID's T Collection Dates/Times T

Are Sample labels filled out and legible? T

Are there Lab to Filters? F Who was notified? _____

Are there Rushes? T Who was notified? Lucy

Are there Short Holds? T Who was notified? Lucy

Is there enough Volume? T

Is there Headspace where applicable? F MS/MSD? F

Proper Media/Containers Used? T Is splitting samples required? F

Were trip blanks received? F On COC? F

Do all samples have the proper pH? N/A Acid _____ Base _____

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic	1	8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Comments:

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

October 23, 2018

Keith Decker
Land Remediation
74 Hudson River Road
Waterford, NY 12188

Project Location: Saranac Lake
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 18J0757

Enclosed are results of analyses for samples received by the laboratory on October 16, 2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Aaron L. Benoit
Project Manager

Table of Contents

Sample Summary 3

Case Narrative 4

Sample Results 5

18J0757-01 5

Sample Preparation Information 6

QC Data 7

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) 7

B214989 7

B215077 7

Flag/Qualifier Summary 8

Certifications 9

Chain of Custody/Sample Receipt 10

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Land Remediation
74 Hudson River Road
Waterford, NY 12188
ATTN: Keith Decker

REPORT DATE: 10/23/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18J0757

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Saranac Lake

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
OU2-WWTP-Eff-16	18J0757-01	Waste Water		EPA 1664B SM 21-22 5210B	

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Lisa A. Worthington
Project Manager

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake | Sample Description: | Work Order: 18J0757

Date Received: 10/16/2018

Field Sample #: OU2-WWTP-Eff-16

Sample ID: 18J0757-01 | Start Date/Time: 10/15/2018 2:59:00PM

Sample Matrix: Waste Water | Stop Date/Time: 10/15/2018 3:10:00PM

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Biochemical Oxygen Demand	ND	4.0	mg/L	1		SM 21-22 5210B	10/17/18	10/17/18 15:00	LED
Oil & Grease (HEM)	ND	1.4	mg/L	1		EPA 1664B	10/17/18	10/17/18 9:00	LL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

EPA 1664B

Lab Number [Field ID]	Batch	Initial [mL]	Date
18J0757-01 [OU2-WWTP-Eff-16]	B214989	1000	10/17/18

SM 21-22 5210B

Lab Number [Field ID]	Batch	Initial [mL]	Date
18J0757-01 [OU2-WWTP-Eff-16]	B215077	150	10/17/18

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B214989 - EPA 1664B										
Blank (B214989-BLK1)				Prepared & Analyzed: 10/17/18						
Oil & Grease (HEM)	ND	1.4	mg/L							
Blank (B214989-BLK2)				Prepared & Analyzed: 10/17/18						
Oil & Grease (HEM)	ND	56	mg/L							
LCS (B214989-BS1)				Prepared & Analyzed: 10/17/18						
Oil & Grease (HEM)	19		mg/L	20.0		95.0	78-114			
LCS (B214989-BS2)				Prepared & Analyzed: 10/17/18						
Oil & Grease (HEM)	710		mg/L	800		88.5	78-114			
Batch B215077 - SM 21-22 5210B										
Blank (B215077-BLK1)				Prepared & Analyzed: 10/17/18						
Biochemical Oxygen Demand	ND	2.0	mg/L							
LCS (B215077-BS1)				Prepared & Analyzed: 10/17/18						
Biochemical Oxygen Demand	180	2.0	mg/L	198		88.6	85-115			

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level

Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.

No results have been blank subtracted unless specified in the case narrative section.

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
EPA 1664B in Water	
Oil & Grease (HEM)	CT,MA,NH,NY,RI,NC,ME,VA
SM 21-22 5210B in Water	
Biochemical Oxygen Demand	CT,MA,NH,NY,RI,ME,VA,NC

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	03/1/2020
MA	Massachusetts DEP	M-MA100	06/30/2019
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2019
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2019
RI	Rhode Island Department of Health	LAO00112	12/30/2018
NC	North Carolina Div. of Water Quality	652	12/31/2018
NJ	New Jersey DEP	MA007 NELAP	06/30/2019
FL	Florida Department of Health	E871027 NELAP	06/30/2019
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2019
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2018
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2019
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2019
NC-DW	North Carolina Department of Health	25703	07/31/2019

18J0757

con-test® ANALYTICAL LABORATORY

http://www.contestlabs.com Doc # 380 Rev 1_03242017

Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com

CHAIN OF CUSTODY RECORD (New York)

39 Spruce Street
East Longmeadow, MA 01028

Page _____ of _____

Company Name: LAND remediation
Address: 74 Hudson River Road Waterford, NY
Phone:
Project Name: NYSDEC Saranac Lake Gas Co.
Project Location: Saranac Lake Construction Water
Project Number:
Project Manager: Matthew Warren
Con-Test Quote Name/Number:
Invoice Recipient: mjw@land-remediation.com
Sampled By: Vaughn Nelson

Requested Turnaround Time
7-Day ☐ 10-Day ☐
Due Date:

Rush-Approval Required
1-Day ☑ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
CLP Like Data Pkg Required: ☐
Email To: mjw@land-remediation.com
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	BOD-5	TDS	TSS	Oil & Grease 1664	8270 SVOC - PAH SIM	VOC 624.1 - (See Below)	VOC 8260 - Isopropyl Benzene & Toluene Only	608 PCB - 608 Pest - Endosulfan I, Heptachlor Epoxide	Metals- Pb, Zn, Cr.	pH	# of Containers
	OU2-WWTP-Eff-16	10/15/2018 2:59pm	10/15/2018 3:10	X		WW	L	x	x	x	x	x		x	x	x	x	
	OU2-WWTP-Eff-16	10/15/2018 2:59pm	10/15/2018 3:10pm		x	WW	L						x					

[2] Preservation Code
[3] Container Code

Dissolved Metals Samples
☐ Field Filtered
☐ Lab to Filter

Orthophosphate Samples
☐ Field Filtered
☐ Lab to Filter

[1] Matrix Codes:
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define)

[2] Preservation Codes:
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

[3] Container Codes:
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Comments: VOC 624.1 - Benzene, Ethyl Benzene, Xylenes Total, and 124 TMB

48 Hour TAT TDS/TSS ; 5 day TAT BOD and Oil & Grease

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

	Date/Time:
Relinquished by: (signature)	10/15/18 3:30pm
Received by: (signature)	10/16/18 845
Relinquished by: (signature)	
Received by: (signature)	
Relinquished by: (signature)	
Received by: (signature)	

Program & Regulatory Information
☐ AWQ STDS ☐ NY TOGS
☐ NYC Sewer Discharge ☐ NY CP-51
☐ Part 360 GW (Landfill)
☐ NY Restricted Use
☐ NY Unrestricted Use
☐ NY Part 375
Other:

Deliverables
☐ Enhanced Data Package
☐ NYSDEC EQuIS EDD
☐ EQuIS (Standard) EDD
☐ NY Regulatory EDD
☐ NY Regs Hits-Only EDD
Other:

Project Entity
☑ Government ☐ Municipality ☐ MWRA ☐ WRTA
☐ Federal ☐ 21 J ☐ School
☐ City ☐ Brownfield ☐ MBTA

Other
☐ Chromatogram
☐ *AIHA-LAP,LLC*

PCB ONLY
☐ Soxhlet
☐ Non Soxhlet

Table of Contents

TRACK ANOTHER SHIPMENT

813219356419

Delivered
Tuesday 10/16/2018 at 8:45 am

DELIVERED

Signed for by: B.BECCA

GET STATUS UPDATES

OBTAIN PROOF OF DELIVERY

FROM

SAR US

TO

EAST LONGMEADOW, MA US

Travel History | Shipment Facts

10/16/2018 - Tuesday	8:45 am	Delivered MA

Expand History

10/15/2018 - Monday	4:14 pm	Picked up PLATTSBURGH, NY

Ask FedEx

OUR COMPANY

About FedEx
Our Portfolio
Investor Relations
Careers
FedEx Blog
Corporate Responsibility
Newsroom
Contact Us

MORE FROM FEDEX

FedEx Compatible
Developer Resource Center
FedEx Cross Border

LANGUAGE

Change Country

English

I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples_____

con-test® ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client LAND Remediation

Received By RAP Date 10/16/18 Time 845

How were the samples received? In Cooler T No Cooler _____ On Ice T No Ice _____ Direct from Sampling _____ Ambient _____ Melted Ice _____

Were samples within Temperature? 2-6°C T By Gun # 557 Actual Temp - 2.2 By Blank # _____ Actual Temp - _____

Was Custody Seal Intact? NA Were Samples Tampered with? NA

Was COC Relinquished ? T Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? T Were samples received within holding time? T

Did COC include all pertinent Information? Client T Analysis T Sampler Name T Project T ID's T Collection Dates/Times T

Are Sample labels filled out and legible? T

Are there Lab to Filters? F Who was notified? _____

Are there Rushes? F Who was notified? _____

Are there Short Holds? T Who was notified? Lucy

Is there enough Volume? T

Is there Headspace where applicable? F MS/MSD? F

Proper Media/Containers Used? T Is splitting samples required? F

Were trip blanks received? F On COC? F

Do all samples have the proper pH? NA Acid _____ Base _____

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.	2	1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic	1	8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Comments:

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

October 24, 2018

Keith Decker
Land Remediation
74 Hudson River Road
Waterford, NY 12188

Project Location: Saranac Lake
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 18J1114

Enclosed are results of analyses for samples received by the laboratory on October 23, 2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Aaron L. Benoit
Project Manager

Table of Contents

Sample Summary 4

Case Narrative 5

Sample Results 6

18J1114-01 6

18J1114-02 11

Sample Preparation Information 13

QC Data 14

Volatile Organic Compounds by GC/MS 14

B215455 14

Volatile Organic Compounds by GC/MS 15

B215453 15

Semivolatile Organic Compounds by GC/MS 16

B215504 16

Organochloride Pesticides by GC/ECD 18

B215475 18

Polychlorinated Biphenyls By GC/ECD 19

B215443 19

Metals Analyses (Total) 20

B215499 20

B215500 20

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) 21

B215516 21

Pesticides Degradation Report 22

Dual Column RPD Report 24

Flag/Qualifier Summary 28

Table of Contents (continued)

Certifications 29

Chain of Custody/Sample Receipt 31

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Land Remediation
74 Hudson River Road
Waterford, NY 12188
ATTN: Keith Decker

REPORT DATE: 10/24/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18J1114

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Saranac Lake

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
OU2-WWTP-Eff-17	18J1114-01	Waste Water		EPA 200.7	
				EPA 200.8	
				EPA 608.3	
				SM21-22 4500 H B	
				SW-846 8270D	
OU2-WWTP-Eff-17	18J1114-02	Waste Water		EPA 624.1	
				SW-846 8260C	

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

For method 8270, only PAHs were requested and reported.

SM21-22 4500 H B

Qualifications:

H-05

Holding time was exceeded. pH analysis should be performed immediately at time of sampling. Nominal 15 minute holding time was exceeded.

Analyte & Samples(s) Qualified:

pH

18J1114-01[OU2-WWTP-Eff-17]

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Tod E. Kopyscinski
Laboratory Director

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake | Sample Description: | Work Order: 18J1114

Date Received: 10/23/2018

Field Sample #: OU2-WWTP-Eff-17

Sample ID: 18J1114-01 | Start Date/Time: 10/22/2018 2:40:00PM

Sample Matrix: Waste Water | Stop Date/Time: 10/22/2018 2:54:00PM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene (SIM)	ND	0.29	0.058	µg/L	1		SW-846 8270D	10/23/18	10/24/18 8:44	IMR
Acenaphthylene (SIM)	ND	0.19	0.048	µg/L	1		SW-846 8270D	10/23/18	10/24/18 8:44	IMR
Anthracene (SIM)	ND	0.19	0.038	µg/L	1		SW-846 8270D	10/23/18	10/24/18 8:44	IMR
Benzo(a)anthracene (SIM)	ND	0.048	0.048	µg/L	1		SW-846 8270D	10/23/18	10/24/18 8:44	IMR
Benzo(a)pyrene (SIM)	ND	0.096	0.038	µg/L	1		SW-846 8270D	10/23/18	10/24/18 8:44	IMR
Benzo(b)fluoranthene (SIM)	ND	0.048	0.019	µg/L	1		SW-846 8270D	10/23/18	10/24/18 8:44	IMR
Benzo(g,h,i)perylene (SIM)	ND	0.48	0.067	µg/L	1		SW-846 8270D	10/23/18	10/24/18 8:44	IMR
Benzo(k)fluoranthene (SIM)	ND	0.038	0.019	µg/L	1		SW-846 8270D	10/23/18	10/24/18 11:08	IMR
Chrysene (SIM)	ND	0.19	0.029	µg/L	1		SW-846 8270D	10/23/18	10/24/18 8:44	IMR
Dibenz(a,h)anthracene (SIM)	ND	0.096	0.038	µg/L	1		SW-846 8270D	10/23/18	10/24/18 8:44	IMR
Fluoranthene (SIM)	ND	0.48	0.029	µg/L	1		SW-846 8270D	10/23/18	10/24/18 8:44	IMR
Fluorene (SIM)	ND	0.96	0.038	µg/L	1		SW-846 8270D	10/23/18	10/24/18 8:44	IMR
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.096	0.077	µg/L	1		SW-846 8270D	10/23/18	10/24/18 8:44	IMR
Naphthalene (SIM)	ND	0.96	0.067	µg/L	1		SW-846 8270D	10/23/18	10/24/18 8:44	IMR
Phenanthrene (SIM)	ND	0.048	0.038	µg/L	1		SW-846 8270D	10/23/18	10/24/18 8:44	IMR
Pyrene (SIM)	ND	0.96	0.029	µg/L	1		SW-846 8270D	10/23/18	10/24/18 8:44	IMR

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	54.0	30-130		10/24/18 8:44
Nitrobenzene-d5	41.6	30-130		10/24/18 11:08
2-Fluorobiphenyl	40.3	30-130		10/24/18 8:44
2-Fluorobiphenyl	31.1	30-130		10/24/18 11:08
p-Terphenyl-d14	45.2	30-130		10/24/18 8:44
p-Terphenyl-d14	37.6	30-130		10/24/18 11:08

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake | Sample Description: | Work Order: 18J1114

Date Received: 10/23/2018

Field Sample #: OU2-WWTP-Eff-17

Sample ID: 18J1114-01 | Start Date/Time: 10/22/2018 2:40:00PM

Sample Matrix: Waste Water | Stop Date/Time: 10/22/2018 2:54:00PM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Endosulfan I [1]	ND	0.0096	0.00041	µg/L	1		EPA 608.3	10/23/18	10/24/18 13:50	TG
Heptachlor epoxide [1]	ND	0.0096	0.00077	µg/L	1		EPA 608.3	10/23/18	10/24/18 13:50	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	64.1	30-150		10/24/18 13:50
Decachlorobiphenyl [2]	54.5	30-150		10/24/18 13:50
Tetrachloro-m-xylene [1]	57.0	30-150		10/24/18 13:50
Tetrachloro-m-xylene [2]	53.8	30-150		10/24/18 13:50

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake | Sample Description: | Work Order: 18J1114

Date Received: 10/23/2018

Field Sample #: OU2-WWTP-Eff-17

Sample ID: 18J1114-01 | Start Date/Time: 10/22/2018 2:40:00PM

Sample Matrix: Waste Water | Stop Date/Time: 10/22/2018 2:54:00PM

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.038	0.035	µg/L	1		EPA 608.3	10/23/18	10/24/18 12:02	KAL
Aroclor-1221 [1]	ND	0.038	0.031	µg/L	1		EPA 608.3	10/23/18	10/24/18 12:02	KAL
Aroclor-1232 [1]	ND	0.038	0.038	µg/L	1		EPA 608.3	10/23/18	10/24/18 12:02	KAL
Aroclor-1242 [1]	ND	0.038	0.033	µg/L	1		EPA 608.3	10/23/18	10/24/18 12:02	KAL
Aroclor-1248 [1]	ND	0.038	0.037	µg/L	1		EPA 608.3	10/23/18	10/24/18 12:02	KAL
Aroclor-1254 [1]	ND	0.038	0.020	µg/L	1		EPA 608.3	10/23/18	10/24/18 12:02	KAL
Aroclor-1260 [1]	ND	0.038	0.038	µg/L	1		EPA 608.3	10/23/18	10/24/18 12:02	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	54.5	30-150		10/24/18 12:02
Decachlorobiphenyl [2]	63.9	30-150		10/24/18 12:02
Tetrachloro-m-xylene [1]	59.5	30-150		10/24/18 12:02
Tetrachloro-m-xylene [2]	64.5	30-150		10/24/18 12:02

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake | Sample Description: | Work Order: 18J1114

Date Received: 10/23/2018

Field Sample #: OU2-WWTP-Eff-17

Sample ID: 18J1114-01 | Start Date/Time: 10/22/2018 2:40:00PM

Sample Matrix: Waste Water | Stop Date/Time: 10/22/2018 2:54:00PM

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Chromium	ND	0.0070	0.0061	mg/L	1		EPA 200.7	10/23/18	10/24/18 12:09	QNW
Lead	ND	0.50	0.14	µg/L	1		EPA 200.8	10/23/18	10/24/18 11:27	MJH
Zinc	0.0070	0.010	0.0052	mg/L	1	J	EPA 200.7	10/23/18	10/24/18 12:09	QNW

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake | Sample Description: | Work Order: 18J1114

Date Received: 10/23/2018

Field Sample #: OU2-WWTP-Eff-17

Sample ID: 18J1114-01 | Start Date/Time: 10/22/2018 2:40:00PM

Sample Matrix: Waste Water | Stop Date/Time: 10/22/2018 2:54:00PM

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
pH @22.1°C	6.9		pH Units	1	H-05	SM21-22 4500 H B	10/23/18	10/23/18 20:20	LED

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake | Sample Description: | Work Order: 18J1114

Date Received: 10/23/2018

Field Sample #: OU2-WWTP-Eff-17

Sample ID: 18J1114-02 | Start Date/Time: 10/22/2018 2:40:00PM

Sample Matrix: Waste Water | Stop Date/Time: 10/22/2018 2:54:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Isopropylbenzene (Cumene)	ND	1.0	0.12	µg/L	1		SW-846 8260C	10/23/18	10/23/18 22:25	LBD
Toluene	ND	1.0	0.17	µg/L	1		SW-846 8260C	10/23/18	10/23/18 22:25	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	97.6	70-130		10/23/18 22:25
Toluene-d8	94.6	70-130		10/23/18 22:25
4-Bromofluorobenzene	101	70-130		10/23/18 22:25

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake | Sample Description: | Work Order: 18J1114

Date Received: 10/23/2018

Field Sample #: OU2-WWTP-Eff-17

Sample ID: 18J1114-02 | Start Date/Time: 10/22/2018 2:40:00PM

Sample Matrix: Waste Water | Stop Date/Time: 10/22/2018 2:54:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	1.0	0.34	µg/L	1		EPA 624.1	10/23/18	10/23/18 22:25	LBD
Ethylbenzene	ND	2.0	0.37	µg/L	1		EPA 624.1	10/23/18	10/23/18 22:25	LBD
1,2,4-Trimethylbenzene	ND	1.0	0.34	µg/L	1		EPA 624.1	10/23/18	10/23/18 22:25	LBD
Xylenes (total)	ND	3.0		µg/L	1		EPA 624.1	10/23/18	10/23/18 22:25	LBD
m+p Xylene	ND	2.0	0.65	µg/L	1		EPA 624.1	10/23/18	10/23/18 22:25	LBD
o-Xylene	ND	2.0	0.35	µg/L	1		EPA 624.1	10/23/18	10/23/18 22:25	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	97.6	70-130		10/23/18 22:25
Toluene-d8	94.6	70-130		10/23/18 22:25
4-Bromofluorobenzene	101	70-130		10/23/18 22:25

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: EPA 200.7-EPA 200.7

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18J1114-01 [OU2-WWTP-Eff-17]	B215499	50.0	50.0	10/23/18

Prep Method: EPA 200.8-EPA 200.8

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18J1114-01 [OU2-WWTP-Eff-17]	B215500	50.0	50.0	10/23/18

Prep Method: SW-846 3510C-EPA 608.3

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18J1114-01 [OU2-WWTP-Eff-17]	B215443	1040	2.00	10/23/18

Prep Method: SW-846 3510C-EPA 608.3

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18J1114-01 [OU2-WWTP-Eff-17]	B215475	1040	2.00	10/23/18

Prep Method: SW-846 5030B-EPA 624.1

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18J1114-02 [OU2-WWTP-Eff-17]	B215453	5	5.00	10/23/18

SM21-22 4500 H B

Lab Number [Field ID]	Batch	Initial [mL]	Date
18J1114-01 [OU2-WWTP-Eff-17]	B215516	50.0	10/23/18

Prep Method: SW-846 5030B-SW-846 8260C

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18J1114-02 [OU2-WWTP-Eff-17]	B215455	5	5.00	10/23/18

Prep Method: SW-846 3510C-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18J1114-01 [OU2-WWTP-Eff-17]	B215504	1040	1.00	10/23/18
18J1114-01RE1 [OU2-WWTP-Eff-17]	B215504	1040	0.200	10/23/18

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B215455 - SW-846 5030B										
Blank (B215455-BLK1)				Prepared & Analyzed: 10/23/18						
Isopropylbenzene (Cumene)	ND	1.0	µg/L							
Toluene	ND	1.0	µg/L							
Surrogate: 1,2-Dichloroethane-d4	*23.2*		µg/L	25.0		93.0	70-130			
Surrogate: Toluene-d8	*23.8*		µg/L	25.0		95.4	70-130			
Surrogate: 4-Bromofluorobenzene	*25.8*		µg/L	25.0		103	70-130			
LCS (B215455-BS1)				Prepared & Analyzed: 10/23/18						
Isopropylbenzene (Cumene)	21.4	1.0	µg/L	20.0		107	70-130			
Toluene	20.3	1.0	µg/L	20.0		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	*23.7*		µg/L	25.0		95.0	70-130			
Surrogate: Toluene-d8	*24.8*		µg/L	25.0		99.1	70-130			
Surrogate: 4-Bromofluorobenzene	*25.6*		µg/L	25.0		102	70-130			
LCS Dup (B215455-BSD1)				Prepared & Analyzed: 10/23/18						
Isopropylbenzene (Cumene)	21.2	1.0	µg/L	20.0		106	70-130	0.658	25	
Toluene	19.8	1.0	µg/L	20.0		98.9	70-130	2.55	25	
Surrogate: 1,2-Dichloroethane-d4	*24.6*		µg/L	25.0		98.3	70-130			
Surrogate: Toluene-d8	*24.7*		µg/L	25.0		98.6	70-130			
Surrogate: 4-Bromofluorobenzene	*25.7*		µg/L	25.0		103	70-130			

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B215453 - SW-846 5030B										
Blank (B215453-BLK1)				Prepared & Analyzed: 10/23/18						
Benzene	ND	1.0	µg/L							
Ethylbenzene	ND	2.0	µg/L							
1,2,4-Trimethylbenzene	ND	1.0	µg/L							
Xylenes (total)	ND	3.0	µg/L							
m+p Xylene	ND	2.0	µg/L							
o-Xylene	ND	2.0	µg/L							
Surrogate: 1,2-Dichloroethane-d4	*23.2*		µg/L	25.0		93.0	70-130			
Surrogate: Toluene-d8	*23.8*		µg/L	25.0		95.4	70-130			
Surrogate: 4-Bromofluorobenzene	*25.8*		µg/L	25.0		103	70-130			
LCS (B215453-BS1)				Prepared & Analyzed: 10/23/18						
Benzene	17.2	1.0	µg/L	20.0		86.0	65-135			
Ethylbenzene	20.4	2.0	µg/L	20.0		102	60-140			
1,2,4-Trimethylbenzene	19.8	1.0	µg/L	20.0		98.9	70-130			
m+p Xylene	42.4	2.0	µg/L	40.0		106	70-130			
o-Xylene	21.2	2.0	µg/L	20.0		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	*24.6*		µg/L	25.0		98.3	70-130			
Surrogate: Toluene-d8	*24.7*		µg/L	25.0		98.6	70-130			
Surrogate: 4-Bromofluorobenzene	*25.7*		µg/L	25.0		103	70-130			

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B215504 - SW-846 3510C										
Blank (B215504-BLK1)				Prepared & Analyzed: 10/23/18						
Acenaphthene (SIM)	ND	0.30	µg/L							
Acenaphthylene (SIM)	ND	0.20	µg/L							
Anthracene (SIM)	ND	0.20	µg/L							
Benzo(a)anthracene (SIM)	ND	0.050	µg/L							
Benzo(a)pyrene (SIM)	ND	0.10	µg/L							
Benzo(b)fluoranthene (SIM)	ND	0.050	µg/L							
Benzo(g,h,i)perylene (SIM)	ND	0.50	µg/L							
Benzo(k)fluoranthene (SIM)	ND	0.20	µg/L							
Chrysene (SIM)	ND	0.20	µg/L							
Dibenz(a,h)anthracene (SIM)	ND	0.10	µg/L							
Fluoranthene (SIM)	ND	0.50	µg/L							
Fluorene (SIM)	ND	1.0	µg/L							
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.10	µg/L							
Naphthalene (SIM)	ND	1.0	µg/L							
Phenanthrene (SIM)	ND	0.050	µg/L							
Pyrene (SIM)	ND	1.0	µg/L							
Surrogate: Nitrobenzene-d5	*68.1*		µg/L	100		68.1	30-130			
Surrogate: 2-Fluorobiphenyl	*51.8*		µg/L	100		51.8	30-130			
Surrogate: p-Terphenyl-d14	*59.3*		µg/L	100		59.3	30-130			
Blank (B215504-BLK2)				Prepared: 10/23/18 Analyzed: 10/24/18						
Benzo(k)fluoranthene (SIM)	ND	0.040	µg/L							
Surrogate: Nitrobenzene-d5	*51.2*		µg/L	100		51.2	30-130			
Surrogate: 2-Fluorobiphenyl	*36.0*		µg/L	100		36.0	30-130			
Surrogate: p-Terphenyl-d14	*50.1*		µg/L	100		50.1	30-130			
LCS (B215504-BS1)				Prepared & Analyzed: 10/23/18						
Acenaphthene (SIM)	39.0	7.5	µg/L	50.0		78.0	40-140			
Acenaphthylene (SIM)	39.6	5.0	µg/L	50.0		79.2	40-140			
Anthracene (SIM)	43.6	5.0	µg/L	50.0		87.1	40-140			
Benzo(a)anthracene (SIM)	43.2	1.2	µg/L	50.0		86.4	40-140			
Benzo(a)pyrene (SIM)	48.0	2.5	µg/L	50.0		95.9	40-140			
Benzo(b)fluoranthene (SIM)	47.9	1.2	µg/L	50.0		95.8	40-140			
Benzo(g,h,i)perylene (SIM)	46.1	12	µg/L	50.0		92.2	40-140			
Benzo(k)fluoranthene (SIM)	45.8	5.0	µg/L	50.0		91.6	40-140			
Chrysene (SIM)	41.4	5.0	µg/L	50.0		82.7	40-140			
Dibenz(a,h)anthracene (SIM)	49.9	2.5	µg/L	50.0		99.8	40-140			
Fluoranthene (SIM)	44.6	12	µg/L	50.0		89.2	40-140			
Fluorene (SIM)	40.2	25	µg/L	50.0		80.4	40-140			
Indeno(1,2,3-cd)pyrene (SIM)	50.3	2.5	µg/L	50.0		101	40-140			
Naphthalene (SIM)	34.8	25	µg/L	50.0		69.6	40-140			
Phenanthrene (SIM)	42.0	1.2	µg/L	50.0		83.9	40-140			
Pyrene (SIM)	40.6	25	µg/L	50.0		81.2	40-140			
Surrogate: Nitrobenzene-d5	*74.3*		µg/L	100		74.3	30-130			
Surrogate: 2-Fluorobiphenyl	*64.2*		µg/L	100		64.2	30-130			
Surrogate: p-Terphenyl-d14	*67.0*		µg/L	100		67.0	30-130			

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B215504 - SW-846 3510C										
LCS Dup (B215504-BSD1)				Prepared & Analyzed: 10/23/18						
Acenaphthene (SIM)	35.1	7.5	µg/L	50.0		70.2	40-140	10.6	20	
Acenaphthylene (SIM)	35.8	5.0	µg/L	50.0		71.6	40-140	10.1	20	
Anthracene (SIM)	38.6	5.0	µg/L	50.0		77.2	40-140	12.1	20	
Benzo(a)anthracene (SIM)	38.0	1.2	µg/L	50.0		75.9	40-140	12.9	20	
Benzo(a)pyrene (SIM)	42.0	2.5	µg/L	50.0		83.9	40-140	13.3	20	
Benzo(b)fluoranthene (SIM)	42.0	1.2	µg/L	50.0		84.1	40-140	13.0	20	
Benzo(g,h,i)perylene (SIM)	40.4	12	µg/L	50.0		80.9	40-140	13.1	20	
Benzo(k)fluoranthene (SIM)	40.4	5.0	µg/L	50.0		80.7	40-140	12.7	20	
Chrysene (SIM)	36.4	5.0	µg/L	50.0		72.7	40-140	12.9	20	
Dibenz(a,h)anthracene (SIM)	43.7	2.5	µg/L	50.0		87.4	40-140	13.3	20	
Fluoranthene (SIM)	39.2	12	µg/L	50.0		78.4	40-140	13.0	20	
Fluorene (SIM)	36.3	25	µg/L	50.0		72.6	40-140	10.3	20	
Indeno(1,2,3-cd)pyrene (SIM)	44.1	2.5	µg/L	50.0		88.2	40-140	13.2	20	‡
Naphthalene (SIM)	31.5	25	µg/L	50.0		63.0	40-140	9.80	20	
Phenanthrene (SIM)	37.1	1.2	µg/L	50.0		74.2	40-140	12.3	20	
Pyrene (SIM)	35.8	25	µg/L	50.0		71.6	40-140	12.7	20	
Surrogate: Nitrobenzene-d5	*67.6*		µg/L	100		67.6	30-130			
Surrogate: 2-Fluorobiphenyl	*57.8*		µg/L	100		57.8	30-130			
Surrogate: p-Terphenyl-d14	*59.0*		µg/L	100		59.0	30-130			

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B215475 - SW-846 3510C										
Blank (B215475-BLK1)				Prepared: 10/23/18 Analyzed: 10/24/18						
Endosulfan I	ND	0.010	µg/L							
Endosulfan I [2C]	ND	0.010	µg/L							
Heptachlor Epoxide	ND	0.010	µg/L							
Heptachlor Epoxide [2C]	ND	0.010	µg/L							
Surrogate: Decachlorobiphenyl	*0.299*		µg/L	0.400		74.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.256*		µg/L	0.400		63.9	30-150			
Surrogate: Tetrachloro-m-xylene	*0.257*		µg/L	0.400		64.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.240*		µg/L	0.400		60.0	30-150			
LCS (B215475-BS1)				Prepared: 10/23/18 Analyzed: 10/24/18						
Endosulfan I	0.67	0.050	µg/L	1.00		67.4	45-153			
Endosulfan I [2C]	0.66	0.050	µg/L	1.00		65.6	45-153			
Heptachlor Epoxide	0.68	0.050	µg/L	1.00		68.1	37-142			
Heptachlor Epoxide [2C]	0.66	0.050	µg/L	1.00		66.1	37-142			
Surrogate: Decachlorobiphenyl	*1.54*		µg/L	2.00		77.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.26*		µg/L	2.00		62.8	30-150			
Surrogate: Tetrachloro-m-xylene	*1.25*		µg/L	2.00		62.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.18*		µg/L	2.00		59.0	30-150			
LCS Dup (B215475-BSD1)				Prepared: 10/23/18 Analyzed: 10/24/18						
Endosulfan I	0.73	0.050	µg/L	1.00		73.1	45-153	8.19		
Endosulfan I [2C]	0.71	0.050	µg/L	1.00		70.6	45-153	7.32		
Heptachlor Epoxide	0.74	0.050	µg/L	1.00		73.9	37-142	8.12		
Heptachlor Epoxide [2C]	0.71	0.050	µg/L	1.00		70.9	37-142	7.06		
Surrogate: Decachlorobiphenyl	*1.69*		µg/L	2.00		84.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.38*		µg/L	2.00		68.8	30-150			
Surrogate: Tetrachloro-m-xylene	*1.33*		µg/L	2.00		66.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.28*		µg/L	2.00		63.9	30-150			

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B215443 - SW-846 3510C										
Blank (B215443-BLK1)				Prepared: 10/23/18 Analyzed: 10/24/18						
Aroclor-1016	ND	0.040	µg/L							
Aroclor-1016 [2C]	ND	0.040	µg/L							
Aroclor-1221	ND	0.040	µg/L							
Aroclor-1221 [2C]	ND	0.040	µg/L							
Aroclor-1232	ND	0.040	µg/L							
Aroclor-1232 [2C]	ND	0.040	µg/L							
Aroclor-1242	ND	0.040	µg/L							
Aroclor-1242 [2C]	ND	0.040	µg/L							
Aroclor-1248	ND	0.040	µg/L							
Aroclor-1248 [2C]	ND	0.040	µg/L							
Aroclor-1254	ND	0.040	µg/L							
Aroclor-1254 [2C]	ND	0.040	µg/L							
Aroclor-1260	ND	0.040	µg/L							
Aroclor-1260 [2C]	ND	0.040	µg/L							
Surrogate: Decachlorobiphenyl	*0.259*		µg/L	0.400		64.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.302*		µg/L	0.400		75.6	30-150			
Surrogate: Tetrachloro-m-xylene	*0.261*		µg/L	0.400		65.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.279*		µg/L	0.400		69.7	30-150			
LCS (B215443-BS1)				Prepared: 10/23/18 Analyzed: 10/24/18						
Aroclor-1016	0.43	0.20	µg/L	0.500		86.8	50-140			
Aroclor-1016 [2C]	0.42	0.20	µg/L	0.500		84.8	50-140			
Aroclor-1260	0.41	0.20	µg/L	0.500		81.2	8-140			
Aroclor-1260 [2C]	0.45	0.20	µg/L	0.500		90.0	8-140			
Surrogate: Decachlorobiphenyl	*1.44*		µg/L	2.00		71.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.68*		µg/L	2.00		84.0	30-150			
Surrogate: Tetrachloro-m-xylene	*1.36*		µg/L	2.00		68.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.46*		µg/L	2.00		72.8	30-150			
LCS Dup (B215443-BSD1)				Prepared: 10/23/18 Analyzed: 10/24/18						
Aroclor-1016	0.41	0.20	µg/L	0.500		82.8	50-140	4.72		
Aroclor-1016 [2C]	0.40	0.20	µg/L	0.500		80.3	50-140	5.40		
Aroclor-1260	0.38	0.20	µg/L	0.500		75.2	8-140	7.66		
Aroclor-1260 [2C]	0.42	0.20	µg/L	0.500		84.0	8-140	6.99		
Surrogate: Decachlorobiphenyl	*0.943*		µg/L	2.00		47.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.10*		µg/L	2.00		54.9	30-150			
Surrogate: Tetrachloro-m-xylene	*1.30*		µg/L	2.00		65.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.40*		µg/L	2.00		70.0	30-150			

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B215499 - EPA 200.7										
Blank (B215499-BLK1)				Prepared: 10/23/18 Analyzed: 10/24/18						
Chromium	ND	0.0070	mg/L							
Zinc	ND	0.010	mg/L							
LCS (B215499-BS1)				Prepared: 10/23/18 Analyzed: 10/24/18						
Chromium	0.486	0.0070	mg/L	0.500		97.3	85-115			
Zinc	0.976	0.010	mg/L	1.00		97.6	85-115			
LCS Dup (B215499-BSD1)				Prepared: 10/23/18 Analyzed: 10/24/18						
Chromium	0.496	0.0070	mg/L	0.500		99.2	85-115	1.94	20	
Zinc	0.994	0.010	mg/L	1.00		99.4	85-115	1.83	20	
Batch B215500 - EPA 200.8										
Blank (B215500-BLK1)				Prepared: 10/23/18 Analyzed: 10/24/18						
Lead	ND	0.50	µg/L							
LCS (B215500-BS1)				Prepared: 10/23/18 Analyzed: 10/24/18						
Lead	493	5.0	µg/L	500		98.5	85-115			
LCS Dup (B215500-BSD1)				Prepared: 10/23/18 Analyzed: 10/24/18						
Lead	501	5.0	µg/L	500		100	85-115	1.67	20	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B215516 - SM21-22 4500 H B										
LCS (B215516-BS1)				Prepared & Analyzed: 10/23/18						
pH	5.98		pH Units	6.00		99.7	90-110			

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

BREAKDOWN REPORT

Lab Sample ID:	S028639-PEM1	Analyzed:	10/23/2018

Column Number: 1

Analyte	% Breakdown
4,4'-DDT [1]	4.50
Endrin [1]	4.76

Column Number: 2

Analyte	% Breakdown
4,4'-DDT [2]	4.02
Endrin [2]	3.61

BREAKDOWN REPORT

Lab Sample ID:	S028639-PEM2	Analyzed:	10/23/2018

Column Number: 1

Analyte	% Breakdown
4,4'-DDT [1]	4.56
Endrin [1]	6.52

Column Number: 2

Analyte	% Breakdown
4,4'-DDT [2]	3.91
Endrin [2]	5.41

BREAKDOWN REPORT

Lab Sample ID:	S028639-PEM3	Analyzed:	10/23/2018

Column Number: 1

Analyte	% Breakdown
4,4'-DDT [1]	4.40
Endrin [1]	5.42

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

BREAKDOWN REPORT

Lab Sample ID:	S028639-PEM3	Analyzed:	10/23/2018

Column Number: 2

Analyte	% Breakdown
4,4'-DDT [2]	3.89
Endrin [2]	4.87

BREAKDOWN REPORT

Lab Sample ID:	S028639-PEM4	Analyzed:	10/24/2018

Column Number: 1

Analyte	% Breakdown
4,4'-DDT [1]	3.55
Endrin [1]	4.17

Column Number: 2

Analyte	% Breakdown
4,4'-DDT [2]	3.10
Endrin [2]	3.60

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

EPA 608.3

LCS

Lab Sample ID: B215443-BS1 Date(s) Analyzed 10/24/2018 10/24/2018

Instrument ID (1): ECD 9 Instrument ID (2): ECD 9

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.43	
	2	0.000	0.000	0.000	0.42	2.4
Aroclor-1260	1	0.000	0.000	0.000	0.41	
	2	0.000	0.000	0.000	0.45	9.3

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

EPA 608.3

LCS Dup

Lab Sample ID: B215443-BSD1 Date(s) Analyzed 10/24/2018 10/24/2018

Instrument ID (1): ECD 9 Instrument ID (2): ECD 9

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.41	
	2	0.000	0.000	0.000	0.40	2.5
Aroclor-1260	1	0.000	0.000	0.000	0.38	
	2	0.000	0.000	0.000	0.42	10.0

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

EPA 608.3

LCS

Lab Sample ID: B215475-BS1 Date(s) Analyzed 10/24/2018 10/24/2018

Instrument ID (1): ECD6 Instrument ID (2): ECD6

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Endosulfan I	1	6.449	0.000	0.000	0.67	
	2	6.437	0.000	0.000	0.66	1.5
Heptachlor Epoxide	1	6.187	0.000	0.000	0.68	
	2	6.177	0.000	0.000	0.66	3.0

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

EPA 608.3

LCS Dup

Lab Sample ID: B215475-BSD1 Date(s) Analyzed 10/24/2018 10/24/2018

Instrument ID (1): ECD6 Instrument ID (2): ECD6

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Endosulfan I	1	6.451	0.000	0.000	0.73	
	2	6.438	0.000	0.000	0.71	2.8
Heptachlor Epoxide	1	6.189	0.000	0.000	0.74	
	2	6.178	0.000	0.000	0.71	4.1

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
H-05	Holding time was exceeded. pH analysis should be performed immediately at time of sampling. Nominal 15 minute holding time was exceeded.
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
EPA 200.7 in Water	
Chromium	CT,MA,NH,NY,RI,NC,ME,VA
Zinc	CT,MA,NH,NY,RI,NC,ME,VA
EPA 200.8 in Water	
Lead	CT,MA,NH,NY,RI,NC,ME,VA
EPA 608.3 in Water	
Aroclor-1016	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1016 [2C]	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1221	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1221 [2C]	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1232	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1232 [2C]	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1242	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1242 [2C]	CT,MA,NH,NY,RI,NC,ME,VA
Endosulfan I	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1248	CT,MA,NH,NY,RI,NC,ME,VA
Endosulfan I [2C]	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1248 [2C]	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1254	CT,MA,NH,NY,RI,NC,ME,VA
Heptachlor Epoxide	CT,MA,NH,NY,RI,NC,ME,VA
Heptachlor Epoxide [2C]	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1254 [2C]	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1260	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1260 [2C]	CT,MA,NH,NY,RI,NC,ME,VA
EPA 624.1 in Water	
Benzene	CT,NY,RI,NC,MA,NH
Ethylbenzene	CT,NY,RI,NC,MA,NH
Toluene	CT,NY,RI,NC,MA,NH
1,2,4-Trimethylbenzene	MA
Xylenes (total)	NY,MA,NH
m+p Xylene	CT,NY,RI,NC,MA,NH
o-Xylene	CT,NY,RI,NC,MA,NH
SM21-22 4500 H B in Water	
pH	CT,MA,RI
SW-846 8260C in Water	
Benzene	CT,ME,NH,VA,NY
Ethylbenzene	CT,ME,NH,VA,NY
Isopropylbenzene (Cumene)	ME,VA,NY
Toluene	CT,ME,NH,VA,NY
1,2,4-Trimethylbenzene	ME,VA,NY
m+p Xylene	CT,ME,NH,VA,NY
o-Xylene	CT,ME,NH,VA,NY
Xylenes (total)	NY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	03/1/2020
MA	Massachusetts DEP	M-MA100	06/30/2019
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2019
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2019
RI	Rhode Island Department of Health	LAO00112	12/30/2018
NC	North Carolina Div. of Water Quality	652	12/31/2018
NJ	New Jersey DEP	MA007 NELAP	06/30/2019
FL	Florida Department of Health	E871027 NELAP	06/30/2019
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2019
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2018
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2019
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2019
NC-DW	North Carolina Department of Health	25703	07/31/2019

18J1114

con-test ANALYTICAL LABORATORY

Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com

http://www.contestlabs.com Doc # 380 Rev 1_03242017

CHAIN OF CUSTODY RECORD (New York)

39 Spruce Street
East Longmeadow, MA 01028

Page ____ of ____

Company Name:	LAND remediation
Address:	74 Hudson River Road Waterford, NY
Phone:	
Project Name:	NYSDEC Saranac Lake Gas Co.
Project Location:	Saranac Lake Construction Water
Project Number:	
Project Manager:	Matthew Warren
Con-Test Quote Name/Number:	
Invoice Recipient:	mjw@land-remediation.com
Sampled By:	Vaughn Nelson

Requested Turnaround Time
7-Day ☐ 10-Day ☐
Due Date:

Rush-Approval Required
1-Day ☑ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
CLP Like Data Pkg Required: ☐
Email To: mjw@land-remediation.com
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	BOD-5	TDS	TSS	Oil & Grease 1664	8270 SVOC - PAH SIM	VOC 624.1 - (See Below)	VOC 8260 - Isopropyl Benzene & Toluene Only	608 PCB - 608 Pest - Endosulfan I, Heptachlor Epoxide	Metals- Pb, Zn, Cr.	pH	# of Containers	[2] Preservation Code	[3] Container Code
1	OU2-WWTP-Eff-17	10/22/2018 2:40pm	10/22/2018 2:54	X		WW	L	x	x	x	x	x		x	x	x	x			
2	OU2-WWTP-Eff-17	10/22/2018 2:40pm	10/22/2018 2:54pm		X	WW	L						x							

Comments: VOC 624.1 - Benzene, Ethyl Benzene, Xylenes Total, and 124 TMB

48 Hour TAT TDS/TSS ; 5 day TAT BOD and Oil & Grease

Please use the following codes to indicate possible sample concentration within the **Conc Code** column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Dissolved Metals Samples
☐ Field Filtered
☐ Lab to Filter

Orthophosphate Samples
☐ Field Filtered
☐ Lab to Filter

[1] Matrix Codes:
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define)

[2] Preservation Codes:
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

[3] Container Codes:
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Relinquished by: (signature)		Date/Time: 10-22-18 3:50pm
Received by: (signature)	4.0	Date/Time: 10/23/18 914
Relinquished by: (signature)		Date/Time:
ved by: (signature)		Date/Time:
quished by: (signature)		Date/Time:
ved by: (signature)		Date/Time:

Program & Regulatory Information
☐ AWQ STDS ☐ NY TOGS
☐ NYC Sewer Discharge ☐ NY CP-51
☐ Part 360 GW (Landfill)
☐ NY Restricted Use
☐ NY Unrestricted Use
☐ NY Part 375
Other:

Deliverables
☐ Enhanced Data Package
☐ NYSDEC EQuIS EDD
☐ EQuIS (Standard) EDD
☐ NY Regulatory EDD
☐ NY Regs Hits-Only EDD
Other:

Project Entity
☑ Government ☐ Municipality ☐ MWRA ☐ WRTA
☐ Federal ☐ 21 J ☐ School
☐ City ☐ Brownfield ☐ MBTA

Other
☐ Chromatogram
☐ *AIHA-LAP,LLC*

PCB ONLY
☐ Soxhlet
☐ Non Soxhlet

Table of Contents

813219356121

Delivered
Tuesday 10/23/2018 at 9:14 am

DELIVERED

Signed for by: B.BECCA

GET STATUS UPDATES

OBTAIN PROOF OF DELIVERY

FROM	TO
HAR US	MA US

Shipment Facts

TRACKING NUMBER
813219356121

SERVICE
FedEx Priority Overnight

DIMENSIONS
24x14x14 in.

DELIVERED TO
Shipping/Receiving

TOTAL PIECES
1

TERMS
Third Party

PACKAGING
Your Packaging

SPECIAL HANDLING SECTION
Deliver Weekday, Additional Handling Surcharge

STANDARD TRANSIT
10/23/2018 by 10:30 am

SHIP DATE
Mon 10/22/2018

ACTUAL DELIVERY
Tue 10/23/2018 9:14 am

Travel History

Local Scan Time

Tuesday , 10/23/2018		
9:14 am	MA	Delivered
7:36 am	WINDSOR LOCKS, CT	On FedEx vehicle for delivery
7:26 am	WINDSOR LOCKS, CT	At local FedEx facility
6:32 am	EAST GRANBY, CT	At destination sort facility
4:56 am	INDIANAPOLIS, IN	Departed FedEx location
12:52 am	INDIANAPOLIS, IN	Arrived at FedEx location
Monday , 10/22/2018		
6:25 pm	PLATTSBURGH, NY	Left FedEx origin facility

I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples_____

con-test® ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client LAND Remediation

Received By RAP Date 10/23/18 Time 915

How were the samples received? In Cooler T No Cooler _____ On Ice T No Ice _____ Direct from Sampling _____ Ambient _____ Melted Ice _____

Were samples within Temperature? 2-6°C T By Gun # 557 Actual Temp - 4.0 By Blank # _____ Actual Temp - _____

Was Custody Seal Intact? NA Were Samples Tampered with? NA

Was COC Relinquished ? T Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? T Were samples received within holding time? T

Did COC include all pertinent Information? Client T Analysis T Sampler Name T Project T ID's T Collection Dates/Times T

Are Sample labels filled out and legible? T

Are there Lab to Filters? F Who was notified? _____

Are there Rushes? T Who was notified? Lucy, Kate, Alex + Lauren

Are there Short Holds? T Who was notified? Lucy

Is there enough Volume? T

Is there Headspace where applicable? F MS/MSD? F

Proper Media/Containers Used? T Is splitting samples required? F

Were trip blanks received? F On COC? F

Do all samples have the proper pH? Acid OHL2 Base _____

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.	6	1 Liter Plastic		16 oz Amb.	
HCL-	3	500 mL Amb.		500 mL Plastic	1	8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic	1	4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Comments:

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

October 25, 2018

Keith Decker
Land Remediation
74 Hudson River Road
Waterford, NY 12188

Project Location: Saranac Lake
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 18J1117

Enclosed are results of analyses for samples received by the laboratory on October 23, 2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Aaron L. Benoit
Project Manager

Table of Contents

Sample Summary 3

Case Narrative 4

Sample Results 5

18J1117-01 5

Sample Preparation Information 7

QC Data 8

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) 8

B215658 8

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Dissolved) 9

B215657 9

Flag/Qualifier Summary 10

Certifications 11

Chain of Custody/Sample Receipt 12

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Land Remediation
74 Hudson River Road
Waterford, NY 12188
ATTN: Keith Decker

REPORT DATE: 10/25/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18J1117

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Saranac Lake

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
OU2-WWTP-Eff-17	18J1117-01	Waste Water		SM21-22 2540C SM21-22 2540D	

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Lisa A. Worthington
Project Manager

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake | Sample Description: | Work Order: 18J1117

Date Received: 10/23/2018

Field Sample #: OU2-WWTP-Eff-17

Sample ID: 18J1117-01 | Start Date/Time: 10/22/2018 2:50:00PM

Sample Matrix: Waste Water | Stop Date/Time: 10/22/2018 2:54:00PM

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Suspended Solids	ND	2.5	mg/L	1		SM21-22 2540D	10/25/18	10/25/18 11:55	MMH

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake | Sample Description: | Work Order: 18J1117

Date Received: 10/23/2018

Field Sample #: OU2-WWTP-Eff-17

Sample ID: 18J1117-01 | Start Date/Time: 10/22/2018 2:50:00PM

Sample Matrix: Waste Water | Stop Date/Time: 10/22/2018 2:54:00PM

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Dissolved)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Dissolved Solids	550	10	mg/L	1		SM21-22 2540C	10/25/18	10/25/18 12:23	MMH

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

SM21-22 2540C

Lab Number [Field ID]	Batch	Initial [mL]	Date
18J1117-01 [OU2-WWTP-Eff-17]	B215657	50.0	10/25/18

SM21-22 2540D

Lab Number [Field ID]	Batch	Initial [mL]	Date
18J1117-01 [OU2-WWTP-Eff-17]	B215658	200	10/25/18

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B215658 - SM21-22 2540D										
Blank (B215658-BLK1)				Prepared & Analyzed: 10/25/18						
Total Suspended Solids	ND	2.5	mg/L							
LCS (B215658-BS1)				Prepared & Analyzed: 10/25/18						
Total Suspended Solids	168	10	mg/L	200		84.0	64.3-117			
Duplicate (B215658-DUP1)	**Source: 18J1117-01**			Prepared & Analyzed: 10/25/18						
Total Suspended Solids	ND	2.5	mg/L		ND			NC	5	

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Dissolved) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B215657 - SM21-22 2540C										
Blank (B215657-BLK1)				Prepared & Analyzed: 10/25/18						
Total Dissolved Solids	ND	10	mg/L							
LCS (B215657-BS1)				Prepared & Analyzed: 10/25/18						
Total Dissolved Solids	300	10	mg/L	293		102	61.4-114			

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level

Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.

No results have been blank subtracted unless specified in the case narrative section.

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SM21-22 2540C in Water	
Total Dissolved Solids	CT,MA,NH,NY,RI,NC,ME,VA
SM21-22 2540D in Water	
Total Suspended Solids	CT,MA,NH,NY,RI,NC,ME,VA

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	03/1/2020
MA	Massachusetts DEP	M-MA100	06/30/2019
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2019
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2019
RI	Rhode Island Department of Health	LAO00112	12/30/2018
NC	North Carolina Div. of Water Quality	652	12/31/2018
NJ	New Jersey DEP	MA007 NELAP	06/30/2019
FL	Florida Department of Health	E871027 NELAP	06/30/2019
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2019
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2018
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2019
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2019
NC-DW	North Carolina Department of Health	25703	07/31/2019

1811117

con-test ANALYTICAL LABORATORY

Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com

http://www.contestlabs.com Doc # 380 Rev 1_03242017

CHAIN OF CUSTODY RECORD (New York)

39 Spruce Street
East Longmeadow, MA 01028

Page _____ of _____

Company Name:	LAND remediation
Address:	74 Hudson River Road Waterford, NY
Phone:	
Project Name:	NYSDEC Saranac Lake Gas Co.
Project Location:	Saranac Lake Construction Water
Project Number:	
Project Manager:	Matthew Warren
Con-Test Quote Name/Number:	
Invoice Recipient:	mjw@land-remediation.com
Sampled By:	Vaughn Nelson

Requested Turnaround Time
7-Day ☐ 10-Day ☐
Due Date:

Rush-Approval Required
1-Day ☑ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
CLP Like Data Pkg Required: ☐
Email To: mjw@land-remediation.com
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	BOD-5	TDS	TSS	Oil & Grease 1664	8270 SVOC - PAH SIM	VOC 624.1 - (See Below)	VOC 8260 - Isopropyl Benzene & Toluene Only	608 PCB - 608 Pest - Endosulfan I, Heptachlor Epoxide	Metals- Pb, Zn, Cr.	pH	# of Containers	[2] Preservation Code	[3] Container Code
1	OU2-WWTP-Eff-17	10/22/2018 2:40pm	10/22/2018 2:54	X		WW	L	x	x	x	x	x		x	x	x	x			
	OU2-WWTP-Eff-17	10/22/2018 2:40pm	10/22/2018 2:54pm		x	WW	L						x							

Dissolved Metals Samples
☐ Field Filtered
☐ Lab to Filter

Orthophosphate Samples
☐ Field Filtered
☐ Lab to Filter

[1] Matrix Codes:
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define)

[2] Preservation Codes:
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

[3] Container Codes:
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Comments: VOC 624.1 - Benzene, Ethyl Benzene, Xylenes Total, and 124 TMB

48 Hour TAT TDS/TSS ; 5 day TAT BOD and Oil & Grease

Please use the following codes to indicate possible sample concentration within the **Conc Code** column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time: 10-22-18 3:50pm
Received by: (signature)	Date/Time: 10/23/18 9:14
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Program & Regulatory Information
☐ AWQ STDS ☐ NY TOGS
☐ NYC Sewer Discharge ☐ NY CP-51
☐ Part 360 GW (Landfill)
☐ NY Restricted Use
☐ NY Unrestricted Use
☐ NY Part 375
Other:

Deliverables
☐ Enhanced Data Package
☐ NYSDEC EQuIS EDD
☐ EQuIS (Standard) EDD
☐ NY Regulatory EDD
☐ NY Regs Hits-Only EDD
Other:

NELAC and AIHA-LAP, LLC Accredited

Project Entity
☑ Government ☐ Municipality ☐ MWRA ☐ WRTA
☐ Federal ☐ 21 J ☐ School
☐ City ☐ Brownfield ☐ MBTA

Other
☐ Chromatogram
☐ *AIHA-LAP,LLC*

PCB ONLY
☐ Soxhlet
☐ Non Soxhlet

Table of Contents

FedEx

813219356121

Delivered
Tuesday 10/23/2018 at 9:14 am

DELIVERED

Signed for by: B.BECCA

GET STATUS UPDATES

OBTAIN PROOF OF DELIVERY

FROM	TO
HAR US	MA US

Shipment Facts

TRACKING NUMBER
813219356121

SERVICE
FedEx Priority Overnight

DIMENSIONS
24x14x14 in.

DELIVERED TO
Shipping/Receiving

TOTAL PIECES
1

TERMS
Third Party

PACKAGING
Your Packaging

SPECIAL HANDLING SECTION
Deliver Weekday, Additional Handling Surcharge

STANDARD TRANSIT
10/23/2018 by 10:30 am

SHIP DATE
Mon 10/22/2018

ACTUAL DELIVERY
Tue 10/23/2018 9:14 am

Travel History

Local Scan Time

Tuesday , 10/23/2018

9:14 am	MA	Delivered
7:36 am	WINDSOR LOCKS, CT	On FedEx vehicle for delivery
7:26 am	WINDSOR LOCKS, CT	At local FedEx facility
6:32 am	EAST GRANBY, CT	At destination sort facility
4:56 am	INDIANAPOLIS, IN	Departed FedEx location
12:52 am	INDIANAPOLIS, IN	Arrived at FedEx location

Monday , 10/22/2018

6:25 pm	PLATTSBURGH, NY	Left FedEx origin facility

I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples_____

con-test® ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client LAND Remediation

Received By RAP Date 10/23/18 Time 914

How were the samples received? In Cooler T No Cooler ____ On Ice T No Ice ____ Direct from Sampling ____ Ambient ____ Melted Ice ____

Were samples within Temperature? 2-6°C T By Gun # 537 Actual Temp - 4.0 By Blank # ____ Actual Temp - ____

Was Custody Seal Intact? NA Were Samples Tampered with? NA

Was COC Relinquished ? T Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? f

Is COC in ink/ Legible? T Were samples received within holding time? T

Did COC include all pertinent Information? Client T Project T Analysis T ID's T Sampler Name T Collection Dates/Times T

Are Sample labels filled out and legible? T

Are there Lab to Filters? f

Are there Rushes? mpf T Who was notified? Lucy

Are there Short Holds? T Who was notified? Lucy

Is there enough Volume? T

Is there Headspace where applicable? f MS/MSD? f

Proper Media/Containers Used? T Is splitting samples required? f

Were trip blanks received? f On COC? f

Do all samples have the proper pH? NA Acid ____ Base ____

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic	1	8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Comments:

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

October 30, 2018

Keith Decker
Land Remediation
74 Hudson River Road
Waterford, NY 12188

Project Location: Saranac Lake
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 18J1118

Enclosed are results of analyses for samples received by the laboratory on October 23, 2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Aaron L. Benoit
Project Manager

Table of Contents

Sample Summary 3

Case Narrative 4

Sample Results 5

18J1118-01 5

Sample Preparation Information 6

QC Data 7

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) 7

B215622 7

B215843 7

Flag/Qualifier Summary 8

Certifications 9

Chain of Custody/Sample Receipt 10

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Land Remediation
74 Hudson River Road
Waterford, NY 12188
ATTN: Keith Decker

REPORT DATE: 10/30/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18J1118

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Saranac Lake

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
OU2-WWTP-Eff-17	18J1118-01	Waste Water		EPA 1664B SM 21-22 5210B	

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Lisa A. Worthington
Project Manager

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake | Sample Description: | Work Order: 18J1118

Date Received: 10/23/2018

Field Sample #: OU2-WWTP-Eff-17

Sample ID: 18J1118-01 | Start Date/Time: 10/22/2018 2:50:00PM

Sample Matrix: Waste Water | Stop Date/Time: 10/22/2018 2:54:00PM

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Biochemical Oxygen Demand	ND	30	mg/L	1		SM 21-22 5210B	10/24/18	10/24/18 14:45	LED
Oil & Grease (HEM)	ND	1.6	mg/L	1		EPA 1664B	10/29/18	10/29/18 11:30	LL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

EPA 1664B

Lab Number [Field ID]	Batch	Initial [mL]	Date
18J1118-01 [OU2-WWTP-Eff-17]	B215843	900	10/29/18

SM 21-22 5210B

Lab Number [Field ID]	Batch	Initial [mL]	Date
18J1118-01 [OU2-WWTP-Eff-17]	B215622	20.0	10/24/18

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B215622 - SM 21-22 5210B										
Blank (B215622-BLK1)				Prepared & Analyzed: 10/24/18						
Biochemical Oxygen Demand	ND	2.0	mg/L							
LCS (B215622-BS1)				Prepared & Analyzed: 10/24/18						
Biochemical Oxygen Demand	190	2.0	mg/L	198		95.8	85-115			
Batch B215843 - EPA 1664B										
Blank (B215843-BLK1)				Prepared & Analyzed: 10/29/18						
Oil & Grease (HEM)	ND	1.4	mg/L							
Blank (B215843-BLK2)				Prepared & Analyzed: 10/29/18						
Oil & Grease (HEM)	ND	7.0	mg/L							
LCS (B215843-BS1)				Prepared & Analyzed: 10/29/18						
Oil & Grease (HEM)	20		mg/L	20.0		97.5	78-114			
LCS (B215843-BS2)				Prepared & Analyzed: 10/29/18						
Oil & Grease (HEM)	98		mg/L	100		98.0	78-114			
Matrix Spike (B215843-MS1)		**Source: 18J1118-01**		Prepared & Analyzed: 10/29/18						
Oil & Grease (HEM)	180	14	mg/L	200	ND	88.0	78-114			

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level

Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.

No results have been blank subtracted unless specified in the case narrative section.

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
EPA 1664B in Water	
Oil & Grease (HEM)	CT,MA,NH,NY,RI,NC,ME,VA
SM 21-22 5210B in Water	
Biochemical Oxygen Demand	CT,MA,NH,NY,RI,ME,VA,NC

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	03/1/2020
MA	Massachusetts DEP	M-MA100	06/30/2019
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2019
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2019
RI	Rhode Island Department of Health	LAO00112	12/30/2018
NC	North Carolina Div. of Water Quality	652	12/31/2018
NJ	New Jersey DEP	MA007 NELAP	06/30/2019
FL	Florida Department of Health	E871027 NELAP	06/30/2019
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2019
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2018
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2019
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2019
NC-DW	North Carolina Department of Health	25703	07/31/2019

18J1118

con-test® ANALYTICAL LABORATORY

Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com

http://www.contestlabs.com

Doc # 380 Rev 1_03242017

CHAIN OF CUSTODY RECORD (New York)

39 Spruce Street
East Longmeadow, MA 01028

Page _____ of _____

Company Name:	LAND remediation
Address:	74 Hudson River Road Waterford, NY
Phone:	
Project Name:	NYSDEC Saranac Lake Gas Co.
Project Location:	Saranac Lake Construction Water
Project Number:	
Project Manager:	Matthew Warren
Con-Test Quote Name/Number:	
Invoice Recipient:	mjw@land-remediation.com
Sampled By:	Vaughn Nelson

Requested Turnaround Time
7-Day ☐ 10-Day ☐
Due Date:

Rush-Approval Required
1-Day ☑ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
CLP Like Data Pkg Required: ☐
Email To: mjw@land-remediation.com
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	BOD-5	TDS	TSS	Oil & Grease 1664	8270 SVOC - PAH SIM	VOC 624.1 - (See Below)	VOC 8260 - Isopropyl Benzene & Toluene Only	608 PCB - 608 Pest - Endosulfan I, Heptachlor Epoxide	Metals- Pb, Zn, Cr.	pH	# of Containers
1	OU2-WWTP-Eff-17	10/22/2018 2:40pm	10/22/2018 2:54	X		WW	L	x	x	x	x	x		x	x	x	x	
	OU2-WWTP-Eff-17	10/22/2018 2:40pm	10/22/2018 2:54pm		x	WW	L						x					

[2] Preservation Code
[3] Container Code

Dissolved Metals Samples
☐ Field Filtered
☐ Lab to Filter

Orthophosphate Samples
☐ Field Filtered
☐ Lab to Filter

[1] Matrix Codes:
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define)

[2] Preservation Codes:
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

[3] Container Codes:
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Comments: VOC 624.1 - Benzene, Ethyl Benzene, Xylenes Total, and 124 TMB

48 Hour TAT TDS/TSS ; 5 day TAT BOD and Oil & Grease

Please use the following codes to indicate possible sample concentration within the **Conc Code** column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time: 10-22-18 3:50pm
Received by: (signature) 4.0	Date/Time: 10/23/18 914
Relinquished by: (signature)	Date/Time:
ived by: (signature)	Date/Time:
quished by: (signature)	Date/Time:
ived by: (signature)	Date/Time:

Program & Regulatory Information
☐ AWQ STDS ☐ NY TOGS
☐ NYC Sewer Discharge ☐ NY CP-51
☐ Part 360 GW (Landfill)
☐ NY Restricted Use
☐ NY Unrestricted Use
☐ NY Part 375
Other:

Deliverables
☐ Enhanced Data Package
☐ NYSDEC EQuIS EDD
☐ EQuIS (Standard) EDD
☐ NY Regulatory EDD
☐ NY Regs Hits-Only EDD
Other:

Project Entity
☑ Government ☐ Municipality ☐ MWRA ☐ WRTA
☐ Federal ☐ 21 J ☐ School
☐ City ☐ Brownfield ☐ MBTA

Other
☐ Chromatogram
☐ *AIHA-LAP,LLC*

PCB ONLY
☐ Soxhlet
☐ Non Soxhlet

Table of Contents

FedEx

813219356121

Delivered
Tuesday 10/23/2018 at 9:14 am

DELIVERED

Signed for by: B.BECCA

GET STATUS UPDATES

OBTAIN PROOF OF DELIVERY

FROM	TO
HAR US	MA US

Shipment Facts

TRACKING NUMBER
813219356121

SERVICE
FedEx Priority Overnight

DIMENSIONS
24x14x14 in.

DELIVERED TO
Shipping/Receiving

TOTAL PIECES
1

TERMS
Third Party

PACKAGING
Your Packaging

SPECIAL HANDLING SECTION
Deliver Weekday, Additional Handling Surcharge

STANDARD TRANSIT
10/23/2018 by 10:30 am

SHIP DATE
Mon 10/22/2018

ACTUAL DELIVERY
Tue 10/23/2018 9:14 am

Travel History

Local Scan Time

Tuesday , 10/23/2018

9:14 am	MA	Delivered
7:36 am	WINDSOR LOCKS, CT	On FedEx vehicle for delivery
7:26 am	WINDSOR LOCKS, CT	At local FedEx facility
6:32 am	EAST GRANBY, CT	At destination sort facility
4:56 am	INDIANAPOLIS, IN	Departed FedEx location
12:52 am	INDIANAPOLIS, IN	Arrived at FedEx location

Monday , 10/22/2018

6:25 pm	PLATTSBURGH, NY	Left FedEx origin facility

I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples_____

con-test® ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client LAND Remediation

Received By RAP Date 10/23/18 Time 914

How were the samples received? In Cooler T No Cooler ____ On Ice T No Ice ____ Direct from Sampling ____ Ambient ____ Melted Ice ____

Were samples within Temperature? 2-6°C T By Gun # 537 Actual Temp - 4.0 By Blank # ____ Actual Temp - ____

Was Custody Seal Intact? NA Were Samples Tampered with? NA

Was COC Relinquished ? T Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? T Were samples received within holding time? T

Did COC include all pertinent Information? Client T Project T Analysis T ID's T Sampler Name T Collection Dates/Times T

Are Sample labels filled out and legible? T

Are there Lab to Filters? F Who was notified? ____

Are there Rushes? F Who was notified? ____

Are there Short Holds? ~~F~~ T Who was notified? Lucy

Is there enough Volume? T

Is there Headspace where applicable? F MS/MSD? F

Proper Media/Containers Used? T Is splitting samples required? F

Were trip blanks received? F On COC? F

Do all samples have the proper pH? NA Acid ____ Base ____

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.	2	1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic	1	8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Comments:

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

October 30, 2018

Keith Decker
Land Remediation
74 Hudson River Road
Waterford, NY 12188

Project Location: Saranac Lake
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 18J1320

Enclosed are results of analyses for samples received by the laboratory on October 26, 2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Aaron L. Benoit
Project Manager

Table of Contents

Sample Summary 4

Case Narrative 5

Sample Results 6

18J1320-01 6

18J1320-02 11

Sample Preparation Information 13

QC Data 14

Volatile Organic Compounds by GC/MS 14

B215851 14

Volatile Organic Compounds by GC/MS 15

B215849 15

Semivolatile Organic Compounds by GC/MS 16

B215818 16

Organochloride Pesticides by GC/ECD 18

B215816 18

Polychlorinated Biphenyls By GC/ECD 19

B215817 19

Metals Analyses (Total) 20

B215863 20

B215864 20

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) 21

B215808 21

Pesticides Degradation Report 22

Dual Column RPD Report 23

Flag/Qualifier Summary 27

Table of Contents (continued)

Certifications 28

Chain of Custody/Sample Receipt 30

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Land Remediation
74 Hudson River Road
Waterford, NY 12188
ATTN: Keith Decker

REPORT DATE: 10/30/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18J1320

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Saranac Lake

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
OU2-WWTP-Eff-18	18J1320-01	Waste Water		EPA 200.7	
				EPA 200.8	
				EPA 608.3	
				SM21-22 4500 H B	
				SW-846 8270D	
OU2-WWTP-Eff-18	18J1320-02	Waste Water		EPA 624.1	
				SW-846 8260C	

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

For method 8270, only PAHs were requested and reported.

SM21-22 4500 H B

Qualifications:

H-05

Holding time was exceeded. pH analysis should be performed immediately at time of sampling. Nominal 15 minute holding time was exceeded.

Analyte & Samples(s) Qualified:

pH

18J1320-01[OU2-WWTP-Eff-18]

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Lisa A. Worthington
Project Manager

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake | Sample Description: | Work Order: 18J1320

Date Received: 10/26/2018

Field Sample #: OU2-WWTP-Eff-18

Sample ID: 18J1320-01 | Start Date/Time: 10/25/2018 3:30:00PM

Sample Matrix: Waste Water | Stop Date/Time: 10/25/2018 3:40:00PM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene (SIM)	ND	0.30	0.060	µg/L	1		SW-846 8270D	10/27/18	10/29/18 12:20	IMR
Acenaphthylene (SIM)	ND	0.20	0.050	µg/L	1		SW-846 8270D	10/27/18	10/29/18 12:20	IMR
Anthracene (SIM)	ND	0.20	0.040	µg/L	1		SW-846 8270D	10/27/18	10/29/18 12:20	IMR
Benzo(a)anthracene (SIM)	ND	0.050	0.050	µg/L	1		SW-846 8270D	10/27/18	10/29/18 12:20	IMR
Benzo(a)pyrene (SIM)	ND	0.10	0.040	µg/L	1		SW-846 8270D	10/27/18	10/29/18 12:20	IMR
Benzo(b)fluoranthene (SIM)	ND	0.050	0.020	µg/L	1		SW-846 8270D	10/27/18	10/29/18 12:20	IMR
Benzo(g,h,i)perylene (SIM)	ND	0.50	0.070	µg/L	1		SW-846 8270D	10/27/18	10/29/18 12:20	IMR
Benzo(k)fluoranthene (SIM)	ND	0.040	0.020	µg/L	1		SW-846 8270D	10/27/18	10/29/18 13:23	IMR
Chrysene (SIM)	ND	0.20	0.030	µg/L	1		SW-846 8270D	10/27/18	10/29/18 12:20	IMR
Dibenz(a,h)anthracene (SIM)	ND	0.10	0.040	µg/L	1		SW-846 8270D	10/27/18	10/29/18 12:20	IMR
Fluoranthene (SIM)	ND	0.50	0.030	µg/L	1		SW-846 8270D	10/27/18	10/29/18 12:20	IMR
Fluorene (SIM)	ND	1.0	0.040	µg/L	1		SW-846 8270D	10/27/18	10/29/18 12:20	IMR
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.10	0.080	µg/L	1		SW-846 8270D	10/27/18	10/29/18 12:20	IMR
Naphthalene (SIM)	ND	1.0	0.070	µg/L	1		SW-846 8270D	10/27/18	10/29/18 12:20	IMR
Phenanthrene (SIM)	ND	0.050	0.040	µg/L	1		SW-846 8270D	10/27/18	10/29/18 12:20	IMR
Pyrene (SIM)	ND	1.0	0.030	µg/L	1		SW-846 8270D	10/27/18	10/29/18 12:20	IMR

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	84.8	30-130		10/29/18 12:20
Nitrobenzene-d5	67.1	30-130		10/29/18 13:23
2-Fluorobiphenyl	62.4	30-130		10/29/18 12:20
2-Fluorobiphenyl	45.2	30-130		10/29/18 13:23
p-Terphenyl-d14	48.4	30-130		10/29/18 12:20
p-Terphenyl-d14	43.3	30-130		10/29/18 13:23

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake | Sample Description: | Work Order: 18J1320

Date Received: 10/26/2018

Field Sample #: OU2-WWTP-Eff-18

Sample ID: 18J1320-01 | Start Date/Time: 10/25/2018 3:30:00PM

Sample Matrix: Waste Water | Stop Date/Time: 10/25/2018 3:40:00PM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Endosulfan I [1]	ND	0.010	0.00042	µg/L	1		EPA 608.3	10/27/18	10/29/18 12:52	PJG
Heptachlor epoxide [1]	ND	0.010	0.00080	µg/L	1		EPA 608.3	10/27/18	10/29/18 12:52	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	103	30-150		10/29/18 12:52
Decachlorobiphenyl [2]	100	30-150		10/29/18 12:52
Tetrachloro-m-xylene [1]	87.9	30-150		10/29/18 12:52
Tetrachloro-m-xylene [2]	89.9	30-150		10/29/18 12:52

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake | Sample Description: | Work Order: 18J1320

Date Received: 10/26/2018

Field Sample #: OU2-WWTP-Eff-18

Sample ID: 18J1320-01 | Start Date/Time: 10/25/2018 3:30:00PM

Sample Matrix: Waste Water | Stop Date/Time: 10/25/2018 3:40:00PM

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.040	0.037	µg/L	1		EPA 608.3	10/27/18	10/29/18 12:07	WAL
Aroclor-1221 [1]	ND	0.040	0.032	µg/L	1		EPA 608.3	10/27/18	10/29/18 12:07	WAL
Aroclor-1232 [1]	ND	0.040	0.040	µg/L	1		EPA 608.3	10/27/18	10/29/18 12:07	WAL
Aroclor-1242 [1]	ND	0.040	0.035	µg/L	1		EPA 608.3	10/27/18	10/29/18 12:07	WAL
Aroclor-1248 [1]	ND	0.040	0.038	µg/L	1		EPA 608.3	10/27/18	10/29/18 12:07	WAL
Aroclor-1254 [1]	ND	0.040	0.021	µg/L	1		EPA 608.3	10/27/18	10/29/18 12:07	WAL
Aroclor-1260 [1]	ND	0.040	0.039	µg/L	1		EPA 608.3	10/27/18	10/29/18 12:07	WAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	101	30-150		10/29/18 12:07
Decachlorobiphenyl [2]	94.8	30-150		10/29/18 12:07
Tetrachloro-m-xylene [1]	90.5	30-150		10/29/18 12:07
Tetrachloro-m-xylene [2]	91.9	30-150		10/29/18 12:07

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake | Sample Description: | Work Order: 18J1320

Date Received: 10/26/2018

Field Sample #: OU2-WWTP-Eff-18

Sample ID: 18J1320-01 | Start Date/Time: 10/25/2018 3:30:00PM

Sample Matrix: Waste Water | Stop Date/Time: 10/25/2018 3:40:00PM

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Chromium	ND	0.0070	0.0061	mg/L	1		EPA 200.7	10/29/18	10/30/18 12:45	QNW
Lead	1.0	0.50	0.24	µg/L	1		EPA 200.8	10/29/18	10/30/18 9:10	MJH
Zinc	0.018	0.010	0.0052	mg/L	1		EPA 200.7	10/29/18	10/30/18 12:45	QNW

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake | Sample Description: | Work Order: 18J1320

Date Received: 10/26/2018

Field Sample #: OU2-WWTP-Eff-18

Sample ID: 18J1320-01 | Start Date/Time: 10/25/2018 3:30:00PM

Sample Matrix: Waste Water | Stop Date/Time: 10/25/2018 3:40:00PM

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
pH @17.8°C	6.6		pH Units	1	H-05	SM21-22 4500 H B	10/26/18	10/26/18 18:36	AIA

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake | Sample Description: | Work Order: 18J1320

Date Received: 10/26/2018

Field Sample #: OU2-WWTP-Eff-18

Sample ID: 18J1320-02 | Start Date/Time: 10/25/2018 3:30:00PM

Sample Matrix: Waste Water | Stop Date/Time: 10/25/2018 3:40:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Isopropylbenzene (Cumene)	ND	1.0	0.12	µg/L	1		SW-846 8260C	10/29/18	10/29/18 8:34	LBD
Toluene	ND	1.0	0.17	µg/L	1		SW-846 8260C	10/29/18	10/29/18 8:34	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	101	70-130		10/29/18 8:34
Toluene-d8	99.8	70-130		10/29/18 8:34
4-Bromofluorobenzene	101	70-130		10/29/18 8:34

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake | Sample Description: | Work Order: 18J1320

Date Received: 10/26/2018

Field Sample #: OU2-WWTP-Eff-18

Sample ID: 18J1320-02 | Start Date/Time: 10/25/2018 3:30:00PM

Sample Matrix: Waste Water | Stop Date/Time: 10/25/2018 3:40:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	1.0	0.34	µg/L	1		EPA 624.1	10/29/18	10/29/18 8:34	LBD
Ethylbenzene	ND	2.0	0.37	µg/L	1		EPA 624.1	10/29/18	10/29/18 8:34	LBD
1,2,4-Trimethylbenzene	ND	1.0	0.34	µg/L	1		EPA 624.1	10/29/18	10/29/18 8:34	LBD
Xylenes (total)	ND	3.0		µg/L	1		EPA 624.1	10/29/18	10/29/18 8:34	LBD
m+p Xylene	ND	2.0	0.65	µg/L	1		EPA 624.1	10/29/18	10/29/18 8:34	LBD
o-Xylene	ND	2.0	0.35	µg/L	1		EPA 624.1	10/29/18	10/29/18 8:34	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	101	70-130		10/29/18 8:34
Toluene-d8	99.8	70-130		10/29/18 8:34
4-Bromofluorobenzene	101	70-130		10/29/18 8:34

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: EPA 200.7-EPA 200.7

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18J1320-01 [OU2-WWTP-Eff-18]	B215863	50.0	50.0	10/29/18

Prep Method: EPA 200.8-EPA 200.8

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18J1320-01 [OU2-WWTP-Eff-18]	B215864	50.0	50.0	10/29/18

Prep Method: SW-846 3510C-EPA 608.3

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18J1320-01 [OU2-WWTP-Eff-18]	B215816	1000	2.00	10/27/18

Prep Method: SW-846 3510C-EPA 608.3

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18J1320-01 [OU2-WWTP-Eff-18]	B215817	1000	2.00	10/27/18

Prep Method: SW-846 5030B-EPA 624.1

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18J1320-02 [OU2-WWTP-Eff-18]	B215849	5	5.00	10/29/18

SM21-22 4500 H B

Lab Number [Field ID]	Batch	Initial [mL]	Date
18J1320-01 [OU2-WWTP-Eff-18]	B215808	50.0	10/26/18

Prep Method: SW-846 5030B-SW-846 8260C

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18J1320-02 [OU2-WWTP-Eff-18]	B215851	5	5.00	10/29/18

Prep Method: SW-846 3510C-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18J1320-01 [OU2-WWTP-Eff-18]	B215818	1000	1.00	10/27/18
18J1320-01RE1 [OU2-WWTP-Eff-18]	B215818	1000	0.200	10/27/18

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B215851 - SW-846 5030B										
Blank (B215851-BLK1)				Prepared & Analyzed: 10/29/18						
Isopropylbenzene (Cumene)	ND	1.0	µg/L							
Toluene	ND	1.0	µg/L							
Surrogate: 1,2-Dichloroethane-d4	*25.2*		µg/L	25.0		101	70-130			
Surrogate: Toluene-d8	*24.8*		µg/L	25.0		99.3	70-130			
Surrogate: 4-Bromofluorobenzene	*25.5*		µg/L	25.0		102	70-130			
LCS (B215851-BS1)				Prepared & Analyzed: 10/29/18						
Isopropylbenzene (Cumene)	20.6	1.0	µg/L	20.0		103	70-130			
Toluene	20.0	1.0	µg/L	20.0		99.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	*24.6*		µg/L	25.0		98.6	70-130			
Surrogate: Toluene-d8	*25.2*		µg/L	25.0		101	70-130			
Surrogate: 4-Bromofluorobenzene	*25.6*		µg/L	25.0		102	70-130			
LCS Dup (B215851-BSD1)				Prepared & Analyzed: 10/29/18						
Isopropylbenzene (Cumene)	20.4	1.0	µg/L	20.0		102	70-130	0.879	25	
Toluene	19.3	1.0	µg/L	20.0		96.5	70-130	3.31	25	
Surrogate: 1,2-Dichloroethane-d4	*25.2*		µg/L	25.0		101	70-130			
Surrogate: Toluene-d8	*24.8*		µg/L	25.0		99.3	70-130			
Surrogate: 4-Bromofluorobenzene	*25.5*		µg/L	25.0		102	70-130			

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B215849 - SW-846 5030B										
Blank (B215849-BLK1)				Prepared & Analyzed: 10/29/18						
Benzene	ND	1.0	µg/L							
Ethylbenzene	ND	2.0	µg/L							
1,2,4-Trimethylbenzene	ND	1.0	µg/L							
Xylenes (total)	ND	3.0	µg/L							
m+p Xylene	ND	2.0	µg/L							
o-Xylene	ND	2.0	µg/L							
Surrogate: 1,2-Dichloroethane-d4	*25.2*		µg/L	25.0		101	70-130			
Surrogate: Toluene-d8	*24.8*		µg/L	25.0		99.3	70-130			
Surrogate: 4-Bromofluorobenzene	*25.5*		µg/L	25.0		102	70-130			
LCS (B215849-BS1)				Prepared & Analyzed: 10/29/18						
Benzene	19.4	1.0	µg/L	20.0		97.2	65-135			
Ethylbenzene	19.6	2.0	µg/L	20.0		98.0	60-140			
1,2,4-Trimethylbenzene	18.5	1.0	µg/L	20.0		92.4	70-130			
m+p Xylene	39.4	2.0	µg/L	40.0		98.4	70-130			
o-Xylene	19.8	2.0	µg/L	20.0		99.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	*25.2*		µg/L	25.0		101	70-130			
Surrogate: Toluene-d8	*24.8*		µg/L	25.0		99.3	70-130			
Surrogate: 4-Bromofluorobenzene	*25.5*		µg/L	25.0		102	70-130			

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B215818 - SW-846 3510C										
Blank (B215818-BLK1)				Prepared: 10/27/18 Analyzed: 10/29/18						
Acenaphthene (SIM)	ND	0.30	µg/L							
Acenaphthylene (SIM)	ND	0.20	µg/L							
Anthracene (SIM)	ND	0.20	µg/L							
Benzo(a)anthracene (SIM)	ND	0.050	µg/L							
Benzo(a)pyrene (SIM)	ND	0.10	µg/L							
Benzo(b)fluoranthene (SIM)	ND	0.050	µg/L							
Benzo(g,h,i)perylene (SIM)	ND	0.50	µg/L							
Chrysene (SIM)	ND	0.20	µg/L							
Dibenz(a,h)anthracene (SIM)	ND	0.10	µg/L							
Fluoranthene (SIM)	ND	0.50	µg/L							
Fluorene (SIM)	ND	1.0	µg/L							
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.10	µg/L							
Naphthalene (SIM)	ND	1.0	µg/L							
Phenanthrene (SIM)	ND	0.050	µg/L							
Pyrene (SIM)	ND	1.0	µg/L							
Surrogate: Nitrobenzene-d5	*83.0*		µg/L	100		83.0	30-130			
Surrogate: 2-Fluorobiphenyl	*60.6*		µg/L	100		60.6	30-130			
Surrogate: p-Terphenyl-d14	*72.5*		µg/L	100		72.5	30-130			
Blank (B215818-BLK2)				Prepared: 10/27/18 Analyzed: 10/29/18						
Benzo(k)fluoranthene (SIM)	ND	0.040	µg/L							
Surrogate: Nitrobenzene-d5	*68.3*		µg/L	100		68.3	30-130			
Surrogate: 2-Fluorobiphenyl	*47.3*		µg/L	100		47.3	30-130			
Surrogate: p-Terphenyl-d14	*66.5*		µg/L	100		66.5	30-130			
LCS (B215818-BS1)				Prepared: 10/27/18 Analyzed: 10/29/18						
Acenaphthene (SIM)	18.6	3.0	µg/L	25.0		74.2	40-140			
Acenaphthylene (SIM)	18.9	2.0	µg/L	25.0		75.7	40-140			
Anthracene (SIM)	20.0	2.0	µg/L	25.0		80.0	40-140			
Benzo(a)anthracene (SIM)	20.4	0.50	µg/L	25.0		81.6	40-140			
Benzo(a)pyrene (SIM)	22.1	1.0	µg/L	25.0		88.5	40-140			
Benzo(b)fluoranthene (SIM)	22.0	0.50	µg/L	25.0		88.0	40-140			
Benzo(g,h,i)perylene (SIM)	21.3	5.0	µg/L	25.0		85.2	40-140			
Benzo(k)fluoranthene (SIM)	20.9	2.0	µg/L	25.0		83.8	40-140			
Chrysene (SIM)	19.5	2.0	µg/L	25.0		78.2	40-140			
Dibenz(a,h)anthracene (SIM)	23.0	1.0	µg/L	25.0		92.2	40-140			
Fluoranthene (SIM)	20.6	5.0	µg/L	25.0		82.6	40-140			
Fluorene (SIM)	18.7	10	µg/L	25.0		74.7	40-140			
Indeno(1,2,3-cd)pyrene (SIM)	23.4	1.0	µg/L	25.0		93.4	40-140			
Naphthalene (SIM)	18.2	10	µg/L	25.0		72.9	40-140			
Phenanthrene (SIM)	19.3	0.50	µg/L	25.0		77.4	40-140			
Pyrene (SIM)	19.7	10	µg/L	25.0		78.8	40-140			
Surrogate: Nitrobenzene-d5	*79.5*		µg/L	100		79.5	30-130			
Surrogate: 2-Fluorobiphenyl	*59.9*		µg/L	100		59.9	30-130			
Surrogate: p-Terphenyl-d14	*62.4*		µg/L	100		62.4	30-130			

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B215818 - SW-846 3510C										
LCS Dup (B215818-BSD1)				Prepared: 10/27/18 Analyzed: 10/29/18						
Acenaphthene (SIM)	18.5	3.0	µg/L	25.0		73.9	40-140	0.486	20	
Acenaphthylene (SIM)	18.7	2.0	µg/L	25.0		75.0	40-140	1.01	20	
Anthracene (SIM)	20.2	2.0	µg/L	25.0		80.7	40-140	0.896	20	
Benzo(a)anthracene (SIM)	20.4	0.50	µg/L	25.0		81.6	40-140	0.0980	20	
Benzo(a)pyrene (SIM)	22.2	1.0	µg/L	25.0		88.9	40-140	0.451	20	
Benzo(b)fluoranthene (SIM)	22.2	0.50	µg/L	25.0		88.9	40-140	0.995	20	
Benzo(g,h,i)perylene (SIM)	21.4	5.0	µg/L	25.0		85.4	40-140	0.234	20	
Benzo(k)fluoranthene (SIM)	21.0	2.0	µg/L	25.0		84.2	40-140	0.476	20	
Chrysene (SIM)	19.6	2.0	µg/L	25.0		78.5	40-140	0.409	20	
Dibenz(a,h)anthracene (SIM)	23.2	1.0	µg/L	25.0		92.8	40-140	0.606	20	
Fluoranthene (SIM)	20.9	5.0	µg/L	25.0		83.5	40-140	1.16	20	
Fluorene (SIM)	18.8	10	µg/L	25.0		75.2	40-140	0.694	20	
Indeno(1,2,3-cd)pyrene (SIM)	23.4	1.0	µg/L	25.0		93.7	40-140	0.299	20	‡
Naphthalene (SIM)	18.2	10	µg/L	25.0		72.9	40-140	0.00	20	
Phenanthrene (SIM)	19.5	0.50	µg/L	25.0		78.0	40-140	0.773	20	
Pyrene (SIM)	19.4	10	µg/L	25.0		77.7	40-140	1.43	20	
Surrogate: Nitrobenzene-d5	*78.4*		µg/L	100		78.4	30-130			
Surrogate: 2-Fluorobiphenyl	*59.9*		µg/L	100		59.9	30-130			
Surrogate: p-Terphenyl-d14	*62.3*		µg/L	100		62.3	30-130			

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B215816 - SW-846 3510C										
Blank (B215816-BLK1)				Prepared: 10/27/18 Analyzed: 10/29/18						
Endosulfan I	ND	0.010	µg/L							
Endosulfan I [2C]	ND	0.010	µg/L							
Heptachlor Epoxide	ND	0.010	µg/L							
Heptachlor Epoxide [2C]	ND	0.010	µg/L							
Surrogate: Decachlorobiphenyl	*0.376*		µg/L	0.400		94.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.406*		µg/L	0.400		101	30-150			
Surrogate: Tetrachloro-m-xylene	*0.377*		µg/L	0.400		94.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.392*		µg/L	0.400		98.1	30-150			
LCS (B215816-BS1)				Prepared: 10/27/18 Analyzed: 10/29/18						
Endosulfan I	0.93	0.050	µg/L	1.00		93.2	45-153			
Endosulfan I [2C]	0.91	0.050	µg/L	1.00		91.4	45-153			
Heptachlor Epoxide	1.0	0.050	µg/L	1.00		104	37-142			
Heptachlor Epoxide [2C]	0.91	0.050	µg/L	1.00		90.5	37-142			
Surrogate: Decachlorobiphenyl	*1.90*		µg/L	2.00		95.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.83*		µg/L	2.00		91.7	30-150			
Surrogate: Tetrachloro-m-xylene	*1.71*		µg/L	2.00		85.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.77*		µg/L	2.00		88.7	30-150			
LCS Dup (B215816-BSD1)				Prepared: 10/27/18 Analyzed: 10/29/18						
Endosulfan I	0.94	0.050	µg/L	1.00		94.2	45-153	1.10		
Endosulfan I [2C]	0.92	0.050	µg/L	1.00		91.5	45-153	0.157		
Heptachlor Epoxide	0.99	0.050	µg/L	1.00		98.6	37-142	4.95		
Heptachlor Epoxide [2C]	0.90	0.050	µg/L	1.00		89.7	37-142	0.874		
Surrogate: Decachlorobiphenyl	*1.19*		µg/L	2.00		59.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.15*		µg/L	2.00		57.6	30-150			
Surrogate: Tetrachloro-m-xylene	*1.73*		µg/L	2.00		86.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.78*		µg/L	2.00		89.0	30-150			

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B215817 - SW-846 3510C										
Blank (B215817-BLK1)				Prepared: 10/27/18 Analyzed: 10/29/18						
Aroclor-1016	ND	0.040	µg/L							
Aroclor-1016 [2C]	ND	0.040	µg/L							
Aroclor-1221	ND	0.040	µg/L							
Aroclor-1221 [2C]	ND	0.040	µg/L							
Aroclor-1232	ND	0.040	µg/L							
Aroclor-1232 [2C]	ND	0.040	µg/L							
Aroclor-1242	ND	0.040	µg/L							
Aroclor-1242 [2C]	ND	0.040	µg/L							
Aroclor-1248	ND	0.040	µg/L							
Aroclor-1248 [2C]	ND	0.040	µg/L							
Aroclor-1254	ND	0.040	µg/L							
Aroclor-1254 [2C]	ND	0.040	µg/L							
Aroclor-1260	ND	0.040	µg/L							
Aroclor-1260 [2C]	ND	0.040	µg/L							
Surrogate: Decachlorobiphenyl	*0.410*		µg/L	0.400		102	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.388*		µg/L	0.400		97.1	30-150			
Surrogate: Tetrachloro-m-xylene	*0.409*		µg/L	0.400		102	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.417*		µg/L	0.400		104	30-150			
LCS (B215817-BS1)				Prepared: 10/27/18 Analyzed: 10/29/18						
Aroclor-1016	0.59	0.20	µg/L	0.500		118	50-140			
Aroclor-1016 [2C]	0.60	0.20	µg/L	0.500		120	50-140			
Aroclor-1260	0.53	0.20	µg/L	0.500		105	8-140			
Aroclor-1260 [2C]	0.56	0.20	µg/L	0.500		111	8-140			
Surrogate: Decachlorobiphenyl	*1.85*		µg/L	2.00		92.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.77*		µg/L	2.00		88.6	30-150			
Surrogate: Tetrachloro-m-xylene	*1.88*		µg/L	2.00		94.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.90*		µg/L	2.00		95.2	30-150			
LCS Dup (B215817-BSD1)				Prepared: 10/27/18 Analyzed: 10/29/18						
Aroclor-1016	0.61	0.20	µg/L	0.500		122	50-140	2.93		
Aroclor-1016 [2C]	0.63	0.20	µg/L	0.500		127	50-140	5.34		
Aroclor-1260	0.54	0.20	µg/L	0.500		107	8-140	1.94		
Aroclor-1260 [2C]	0.57	0.20	µg/L	0.500		113	8-140	1.79		
Surrogate: Decachlorobiphenyl	*1.79*		µg/L	2.00		89.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.71*		µg/L	2.00		85.3	30-150			
Surrogate: Tetrachloro-m-xylene	*1.86*		µg/L	2.00		92.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.87*		µg/L	2.00		93.4	30-150			

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B215863 - EPA 200.7										
Blank (B215863-BLK1)				Prepared: 10/29/18 Analyzed: 10/30/18						
Chromium	ND	0.0070	mg/L							
Zinc	ND	0.010	mg/L							
LCS (B215863-BS1)				Prepared: 10/29/18 Analyzed: 10/30/18						
Chromium	0.496	0.0070	mg/L	0.500		99.1	85-115			
Zinc	0.975	0.010	mg/L	1.00		97.5	85-115			
LCS Dup (B215863-BSD1)				Prepared: 10/29/18 Analyzed: 10/30/18						
Chromium	0.499	0.0070	mg/L	0.500		99.8	85-115	0.682	20	
Zinc	0.990	0.010	mg/L	1.00		99.0	85-115	1.59	20	
Batch B215864 - EPA 200.8										
Blank (B215864-BLK1)				Prepared: 10/29/18 Analyzed: 10/30/18						
Lead	ND	0.50	µg/L							
LCS (B215864-BS1)				Prepared: 10/29/18 Analyzed: 10/30/18						
Lead	497	5.0	µg/L	500		99.4	85-115			
LCS Dup (B215864-BSD1)				Prepared: 10/29/18 Analyzed: 10/30/18						
Lead	500	5.0	µg/L	500		99.9	85-115	0.537	20	
Duplicate (B215864-DUP1)		**Source: 18J1320-01**		Prepared: 10/29/18 Analyzed: 10/30/18						
Lead	0.926	0.50	µg/L		1.00			7.75	20	
Matrix Spike (B215864-MS1)		**Source: 18J1320-01**		Prepared: 10/29/18 Analyzed: 10/30/18						
Lead	493	5.0	µg/L	500	ND	98.5	70-130			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B215808 - SM21-22 4500 H B										
LCS (B215808-BS1)				Prepared & Analyzed: 10/26/18						
pH	6.05		pH Units	6.00		101	90-110			
LCS (B215808-BS2)				Prepared & Analyzed: 10/26/18						
pH	5.96		pH Units	6.00		99.4	90-110			

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

BREAKDOWN REPORT

Lab Sample ID: **S028800-PEM1** **Analyzed:** **10/29/2018**

Column Number: **1**

Analyte	% Breakdown
4,4'-DDT [1]	1.70
Endrin [1]	3.39

Column Number: **2**

Analyte	% Breakdown
4,4'-DDT [2]	2.09
Endrin [2]	3.09

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

EPA 608.3

LCS

Lab Sample ID: B215816-BS1 Date(s) Analyzed 10/29/2018 10/29/2018

Instrument ID (1): ECD2 Instrument ID (2): ECD2

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Endosulfan I	1	6.406	0.000	0.000	0.93	
	2	6.128	0.000	0.000	0.91	2.2
Heptachlor Epoxide	1	6.146	0.000	0.000	1.0	
	2	5.886	0.000	0.000	0.91	9.4

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

EPA 608.3

LCS Dup

Lab Sample ID: B215816-BSD1 Date(s) Analyzed 10/29/2018 10/29/2018

Instrument ID (1): ECD2 Instrument ID (2): ECD2

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Endosulfan I	1	6.407	0.000	0.000	0.94	
	2	6.129	0.000	0.000	0.92	2.2
Heptachlor Epoxide	1	6.147	0.000	0.000	0.99	
	2	5.886	0.000	0.000	0.90	9.5

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

EPA 608.3

LCS

Lab Sample ID: B215817-BS1 Date(s) Analyzed 10/29/2018 10/29/2018

Instrument ID (1): ECD3 Instrument ID (2): ECD3

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.59	
	2	0.000	0.000	0.000	0.60	1.7
Aroclor-1260	1	0.000	0.000	0.000	0.53	
	2	0.000	0.000	0.000	0.56	5.5

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

EPA 608.3

LCS Dup

Lab Sample ID: B215817-BSD1 Date(s) Analyzed 10/29/2018 10/29/2018

Instrument ID (1): ECD3 Instrument ID (2): ECD3

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.61	
	2	0.000	0.000	0.000	0.63	3.2
Aroclor-1260	1	0.000	0.000	0.000	0.54	
	2	0.000	0.000	0.000	0.57	5.4

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
H-05	Holding time was exceeded. pH analysis should be performed immediately at time of sampling. Nominal 15 minute holding time was exceeded.

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
EPA 200.7 in Water	
Chromium	CT,MA,NH,NY,RI,NC,ME,VA
Zinc	CT,MA,NH,NY,RI,NC,ME,VA
EPA 200.8 in Water	
Lead	CT,MA,NH,NY,RI,NC,ME,VA
EPA 608.3 in Water	
Aroclor-1016	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1016 [2C]	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1221	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1221 [2C]	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1232	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1232 [2C]	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1242	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1242 [2C]	CT,MA,NH,NY,RI,NC,ME,VA
Endosulfan I	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1248	CT,MA,NH,NY,RI,NC,ME,VA
Endosulfan I [2C]	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1248 [2C]	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1254	CT,MA,NH,NY,RI,NC,ME,VA
Heptachlor Epoxide	CT,MA,NH,NY,RI,NC,ME,VA
Heptachlor Epoxide [2C]	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1254 [2C]	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1260	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1260 [2C]	CT,MA,NH,NY,RI,NC,ME,VA
EPA 624.1 in Water	
Benzene	CT,NY,RI,NC,MA,NH
Ethylbenzene	CT,NY,RI,NC,MA,NH
Toluene	CT,NY,RI,NC,MA,NH
1,2,4-Trimethylbenzene	MA
Xylenes (total)	NY,MA,NH
m+p Xylene	CT,NY,RI,NC,MA,NH
o-Xylene	CT,NY,RI,NC,MA,NH
SM21-22 4500 H B in Water	
pH	CT,MA,RI
SW-846 8260C in Water	
Benzene	CT,ME,NH,VA,NY
Ethylbenzene	CT,ME,NH,VA,NY
Isopropylbenzene (Cumene)	ME,VA,NY
Toluene	CT,ME,NH,VA,NY
1,2,4-Trimethylbenzene	ME,VA,NY
m+p Xylene	CT,ME,NH,VA,NY
o-Xylene	CT,ME,NH,VA,NY
Xylenes (total)	NY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	03/1/2020
MA	Massachusetts DEP	M-MA100	06/30/2019
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2019
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2019
RI	Rhode Island Department of Health	LAO00112	12/30/2018
NC	North Carolina Div. of Water Quality	652	12/31/2018
NJ	New Jersey DEP	MA007 NELAP	06/30/2019
FL	Florida Department of Health	E871027 NELAP	06/30/2019
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2019
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2018
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2019
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2019
NC-DW	North Carolina Department of Health	25703	07/31/2019

con-test ANALYTICAL LABORATORY
Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com

(B3) 187324

http://www.contestlabs.com Doc # 380 Rev 1_03242017

CHAIN OF CUSTODY RECORD (New York) 187320

39 Spruce Street
East Longmeadow, MA 01028

Company Name:	LAND remediation
Address:	74 Hudson River Road Waterford, NY
Phone:	
Project Name:	NYSDEC Saranac Lake Gas Co.
Project Location:	Saranac Lake Construction Water
Project Number:	
Project Manager:	Matthew Warren
Con-Test Quote Name/Number:	
Invoice Recipient:	mjw@land-remediation.com
Sampled By:	Vaughn Nelson

Requested Turnaround Time
7-Day ☐ 10-Day ☐
Due Date:

Rush-Approval Required
1-Day ☑ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
CLP Like Data Pkg Required: ☐
Email To: mjw@land-remediation.com
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	BOD-5	TDS	TSS	Oil & Grease 1664	8270 SVOC - PAH SIM	VOC 624.1 - (See Below)	VOC 8260 - Isopropyl Benzene & Toluene Only	608 PCB - 608 Pest - Endosulfan I, Heptachlor Epoxide	Metals- Pb, Zn, Cr.	pH	# of Containers
1	OU2-WWTP-Eff-18	10/25/2018 3:30pm	10/25/2018 3:40	X		WW	L	x	x	x	x	x		x	x	x	x	
2	OU2-WWTP-Eff-18	10/25/2018 3:30pm	10/25/2018 3:40pm		X	WW	L						x					

[2] Preservation Code
[3] Container Code

Dissolved Metals Samples
☐ Field Filtered
☐ Lab to Filter

Orthophosphate Samples
☐ Field Filtered
☐ Lab to Filter

[1] Matrix Codes:
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define)

[2] Preservation Codes:
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

[3] Container Codes:
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Comments: VOC 624.1 - Benzene, Ethyl Benzene, Xylenes Total, and 124 TMB

48 Hour TAT TDS/TSS ; 5 day TAT BOD and Oil & Grease

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time: 8:00 AM 10/26/18	
Received by: (signature)	Date/Time: 10-26-18 8:00 AM	
Relinquished by: (signature)	Date/Time: 10-26-18 12:15 PM	
Received by: (signature)	Date/Time: 10/26/18 1215	
Relinquished by: (signature)	Date/Time: 10/26/18 3PM	
Received by: (signature) 10-26-18 15:00	Date/Time:	

Program & Regulatory Information
☐ AWQ STDS ☐ NY TOGS
☐ NYC Sewer Discharge ☐ NY CP-51
☐ Part 360 GW (Landfill)
☐ NY Restricted Use
☐ NY Unrestricted Use
☐ NY Part 375
Other:

Deliverables
☐ Enhanced Data Package
☐ NYSDEC EQuIS EDD
☐ EQuIS (Standard) EDD
☐ NY Regulatory EDD
☐ NY Regs Hits-Only EDD
Other:

Project Entity
☑ Government ☐ Municipality ☐ MWRA ☐ WRTA
☐ Federal ☐ 21 J ☐ School
☐ City ☐ Brownfield ☐ MBTA

Other
☐ Chromatogram
☐ *AIHA-LAP,LLC*

PCB ONLY
☐ Soxhlet
☐ Non Soxhlet

Table of Contents

I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples_____

con-test® ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client Land remediation

Received By ESD Date 10-26-18 Time 15:00

How were the samples received? In Cooler T No Cooler _____ On Ice T No Ice _____ Direct from Sampling _____ Ambient _____ Melted Ice _____

By Gun # 57 Actual Temp - 5.1

Were samples within Temperature? 2-6°C T By Blank # _____ Actual Temp - _____

Was Custody Seal Intact? NA Were Samples Tampered with? NA

Was COC Relinquished ? T Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? T Were samples received within holding time? T

Did COC include all pertinent Information? Client T Analysis T Sampler Name T Project T ID's T Collection Dates/Times T

Are Sample labels filled out and legible? T

Are there Lab to Filters? F Who was notified? _____

Are there Rushes? T Who was notified? David, Brittaid, Mike

Are there Short Holds? T Who was notified? David

Is there enough Volume? T

Is there Headspace where applicable? F MS/MSD? F

Proper Media/Containers Used? T Is splitting samples required? F

Were trip blanks received? F On COC? F

Do all samples have the proper pH? Acid _____ Base _____

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.	6	1 Liter Plastic		16 oz Amb.	
HCL-	3	500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic	1	4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Comments:

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

October 30, 2018

Keith Decker
Land Remediation
74 Hudson River Road
Waterford, NY 12188

Project Location: Saranac Lake
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 18J1321

Enclosed are results of analyses for samples received by the laboratory on October 26, 2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Aaron L. Benoit
Project Manager

Table of Contents

Sample Summary 3

Case Narrative 4

Sample Results 5

18J1321-01 5

Sample Preparation Information 7

QC Data 8

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) 8

B215959 8

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Dissolved) 9

B215847 9

Flag/Qualifier Summary 10

Certifications 11

Chain of Custody/Sample Receipt 12

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Land Remediation
74 Hudson River Road
Waterford, NY 12188
ATTN: Keith Decker

REPORT DATE: 10/30/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18J1321

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Saranac Lake

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
OU2-WWTP-Eff-18	18J1321-01	Waste Water		SM21-22 2540C SM21-22 2540D	

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Lisa A. Worthington
Project Manager

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake | Sample Description: | Work Order: 18J1321

Date Received: 10/26/2018

Field Sample #: OU2-WWTP-Eff-18

Sample ID: 18J1321-01 | Start Date/Time: 10/25/2018 3:30:00PM

Sample Matrix: Waste Water | Stop Date/Time: 10/25/2018 3:40:00PM

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Suspended Solids	ND	2.0	mg/L	1		SM21-22 2540D	10/30/18	10/30/18 9:00	LL

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake | Sample Description: | Work Order: 18J1321

Date Received: 10/26/2018

Field Sample #: OU2-WWTP-Eff-18

Sample ID: 18J1321-01 | Start Date/Time: 10/25/2018 3:30:00PM

Sample Matrix: Waste Water | Stop Date/Time: 10/25/2018 3:40:00PM

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Dissolved)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Dissolved Solids	230	10	mg/L	1		SM21-22 2540C	10/29/18	10/29/18 8:30	LL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

SM21-22 2540C

Lab Number [Field ID]	Batch	Initial [mL]	Date
18J1321-01 [OU2-WWTP-Eff-18]	B215847	50.0	10/29/18

SM21-22 2540D

Lab Number [Field ID]	Batch	Initial [mL]	Date
18J1321-01 [OU2-WWTP-Eff-18]	B215959	250	10/30/18

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B215959 - SM21-22 2540D										
Blank (B215959-BLK1)				Prepared & Analyzed: 10/30/18						
Total Suspended Solids	ND	2.5	mg/L							
LCS (B215959-BS1)				Prepared & Analyzed: 10/30/18						
Total Suspended Solids	162	10	mg/L	200		81.0	64.3-117			

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Dissolved) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B215847 - SM21-22 2540C										
Blank (B215847-BLK1)				Prepared & Analyzed: 10/29/18						
Total Dissolved Solids	ND	10	mg/L							
LCS (B215847-BS1)				Prepared & Analyzed: 10/29/18						
Total Dissolved Solids	250	10	mg/L	293		84.6	61.4-114			

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level

Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.

No results have been blank subtracted unless specified in the case narrative section.

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SM21-22 2540C in Water	
Total Dissolved Solids	CT,MA,NH,NY,RI,NC,ME,VA
SM21-22 2540D in Water	
Total Suspended Solids	CT,MA,NH,NY,RI,NC,ME,VA

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	03/1/2020
MA	Massachusetts DEP	M-MA100	06/30/2019
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2019
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2019
RI	Rhode Island Department of Health	LAO00112	12/30/2018
NC	North Carolina Div. of Water Quality	652	12/31/2018
NJ	New Jersey DEP	MA007 NELAP	06/30/2019
FL	Florida Department of Health	E871027 NELAP	06/30/2019
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2019
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2018
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2019
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2019
NC-DW	North Carolina Department of Health	25703	07/31/2019

(ST 1321

con-test ANALYTICAL LABORATORY

http://www.contestlabs.com Doc # 380 Rev 1_03242017

Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com

CHAIN OF CUSTODY RECORD (New York)

39 Spruce Street
East Longmeadow, MA 01028

Page ____ of ____

Company Name:	LAND remediation
Address:	74 Hudson River Road Waterford, NY
Phone:	
Project Name:	NYSDEC Saranac Lake Gas Co.
Project Location:	Saranac Lake Construction Water
Project Number:	
Project Manager:	Matthew Warren
Con-Test Quote Name/Number:	
Invoice Recipient:	mjw@land-remediation.com
Sampled By:	Vaughn Nelson

Requested Turnaround Time
7-Day ☐ 10-Day ☐
Due Date:

Rush-Approval Required
1-Day ☑ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
CLP Like Data Pkg Required: ☐
Email To: mjw@land-remediation.com
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code	BOD-5	TDS	TSS	Oil & Grease 1664	8270 SVOC - PAH SIM	VOC 624.1 - (See Below)	VOC 8260 - Isopropyl Benzene & Toluene Only	608 PCB - 608 Pest - Endosulfan I, Heptachlor Epoxide	Metals- Pb, Zn, Cr.	pH	# of Containers	[2] Preservation Code	[3] Container Code
	OU2-WWTP-Eff-18	10/25/2018 3:30pm	10/25/2018 3:40	X		WW	L	x	x	x	x	x		x	x	x	x			
	OU2-WWTP-Eff-18	10/25/2018 3:30pm	10/25/2018 3:40pm		x	WW	L						x							

Dissolved Metals Samples
☐ Field Filtered
☐ Lab to Filter

Orthophosphate Samples
☐ Field Filtered
☐ Lab to Filter

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define)

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

[3] **Container Codes:**
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Comments: VOC 624.1 - Benzene, Ethyl Benzyl Benzene, Xylenes Total, and 124 TMB

48 Hour TAT TDS/TSS ; 5 day TAT BOD and Oil & Grease

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time: 8:00 AM 10/26/18
Received by: (signature)	Date/Time: 10-26-18 8:00 PM
Relinquished by: (signature)	Date/Time: 10-26-18 12:15 PM
ived by: (signature)	Date/Time: 10/26/18 12:15
quished by: (signature)	Date/Time: 10/26/18 3P
ived by: (signature) 10-26-18	Date/Time: 15:00

Program & Regulatory Information
☐ AWQ STDS ☐ NY TOGS
☐ NYC Sewer Discharge ☐ NY CP-51
☐ Part 360 GW (Landfill)
☐ NY Restricted Use
☐ NY Unrestricted Use
☐ NY Part 375
Other:

Deliverables
☐ Enhanced Data Package
☐ NYSDEC EQuIS EDD
☐ EQuIS (Standard) EDD
☐ NY Regulatory EDD
☐ NY Regs Hits-Only EDD
Other:

Project Entity
☑ Government ☐ Municipality ☐ MWRA ☐ WRTA
☐ Federal ☐ 21 J ☐ School
☐ City ☐ Brownfield ☐ MBTA

Other
☐ Chromatogram
☐ *AIHA-LAP,LLC*

PCB ONLY
☐ Soxhlet
☐ Non Soxhlet

Page 12 of 13

Table of Contents

I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples_____

con-test® ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client Land remediation

Received By ESD Date 10-26-18 Time 15:00

How were the samples received? In Cooler T No Cooler _____ On Ice T No Ice _____ Direct from Sampling _____ Ambient _____ Melted Ice _____

By Gun # 557 Actual Temp - 5.1

Were samples within Temperature? 2-6°C T By Blank # _____ Actual Temp - _____

Was Custody Seal Intact? NA Were Samples Tampered with? NA

Was COC Relinquished ? T Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? T Were samples received within holding time? T

Did COC include all pertinent Information? Client T Analysis T Sampler Name T Project T ID's T Collection Dates/Times T

Are Sample labels filled out and legible? T

Are there Lab to Filters? F Who was notified? _____

Are there Rushes? T Who was notified? David

Are there Short Holds? T Who was notified? David

Is there enough Volume? T

Is there Headspace where applicable? F MS/MSD? F

Proper Media/Containers Used? T Is splitting samples required? F

Were trip blanks received? F On COC? F

Do all samples have the proper pH? NA Acid _____ Base _____

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic	1	8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Comments:

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

November 2, 2018

Keith Decker
Land Remediation
74 Hudson River Road
Waterford, NY 12188

Project Location: Saranac Lake
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 18J1322

Enclosed are results of analyses for samples received by the laboratory on October 26, 2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Aaron L. Benoit
Project Manager

Table of Contents

Sample Summary 3

Case Narrative 4

Sample Results 5

18J1322-01 5

Sample Preparation Information 6

QC Data 7

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) 7

B215802 7

B215843 7

Flag/Qualifier Summary 8

Certifications 9

Chain of Custody/Sample Receipt 10

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Land Remediation
74 Hudson River Road
Waterford, NY 12188
ATTN: Keith Decker

REPORT DATE: 11/2/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18J1322

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Saranac Lake

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
OU2-WWTP-Eff-18	18J1322-01	Waste Water		EPA 1664B SM 21-22 5210B	

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Lisa A. Worthington
Project Manager

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake | Sample Description: | Work Order: 18J1322

Date Received: 10/26/2018

Field Sample #: OU2-WWTP-Eff-18

Sample ID: 18J1322-01 | Start Date/Time: 10/25/2018 3:30:00PM

Sample Matrix: Waste Water | Stop Date/Time: 10/25/2018 3:40:00PM

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Biochemical Oxygen Demand	ND	4.0	mg/L	1		SM 21-22 5210B	10/26/18	10/26/18 18:00	LED
Oil & Grease (HEM)	ND	1.4	mg/L	1		EPA 1664B	10/29/18	10/29/18 11:30	LL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

EPA 1664B

Lab Number [Field ID]	Batch	Initial [mL]	Date
18J1322-01 [OU2-WWTP-Eff-18]	B215843	1000	10/29/18

SM 21-22 5210B

Lab Number [Field ID]	Batch	Initial [mL]	Date
18J1322-01 [OU2-WWTP-Eff-18]	B215802	150	10/26/18

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B215802 - SM 21-22 5210B										
Blank (B215802-BLK1)				Prepared & Analyzed: 10/26/18						
Biochemical Oxygen Demand	ND	2.0	mg/L							
LCS (B215802-BS1)				Prepared & Analyzed: 10/26/18						
Biochemical Oxygen Demand	170	2.0	mg/L	198		86.1	85-115			
Batch B215843 - EPA 1664B										
Blank (B215843-BLK1)				Prepared & Analyzed: 10/29/18						
Oil & Grease (HEM)	ND	1.4	mg/L							
Blank (B215843-BLK2)				Prepared & Analyzed: 10/29/18						
Oil & Grease (HEM)	ND	7.0	mg/L							
LCS (B215843-BS1)				Prepared & Analyzed: 10/29/18						
Oil & Grease (HEM)	20		mg/L	20.0		97.5	78-114			
LCS (B215843-BS2)				Prepared & Analyzed: 10/29/18						
Oil & Grease (HEM)	98		mg/L	100		98.0	78-114			

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level

Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.

No results have been blank subtracted unless specified in the case narrative section.

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
EPA 1664B in Water	
Oil & Grease (HEM)	CT,MA,NH,NY,RI,NC,ME,VA
SM 21-22 5210B in Water	
Biochemical Oxygen Demand	CT,MA,NH,NY,RI,ME,VA,NC

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	03/1/2020
MA	Massachusetts DEP	M-MA100	06/30/2019
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2019
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2019
RI	Rhode Island Department of Health	LAO00112	12/30/2018
NC	North Carolina Div. of Water Quality	652	12/31/2018
NJ	New Jersey DEP	MA007 NELAP	06/30/2019
FL	Florida Department of Health	E871027 NELAP	06/30/2019
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2019
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2018
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2019
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2019
NC-DW	North Carolina Department of Health	25703	07/31/2019

18J1222

con-test ANALYTICAL LABORATORY

http://www.contestlabs.com

Doc # 380 Rev 1_03242017

Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com

39 Spruce Street
East Longmeadow, MA 01028

CHAIN OF CUSTODY RECORD (New York)

Company Name:	LAND remediation
Address:	74 Hudson River Road Waterford, NY
Phone:	
Project Name:	NYSDEC Saranac Lake Gas Co.
Project Location:	Saranac Lake Construction Water
Project Number:	
Project Manager:	Matthew Warren
Con-Test Quote Name/Number:	
Invoice Recipient:	mjw@land-remediation.com
Sampled By:	Vaughn Nelson

Requested Turnaround Time
7-Day ☐ 10-Day ☐
Due Date:

Rush-Approval Required
1-Day ☑ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
CLP Like Data Pkg Required: ☐
Email To: mjw@land-remediation.com
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1] Matrix Code	Conc Code	BOD-5	TDS	TSS	Oil & Grease 1664	8270 SVOC - PAH SIM	VOC 624.1 - (See Below)	VOC 8260 - Isopropyl Benzene & Toluene Only	608 PCB - 608 Pest - Endosulfan I, Heptachlor Epoxide	Metals- Pb, Zn, Cr.	pH
1	OU2-WWTP-Eff-18	10/25/2018 3:30pm	10/25/2018 3:40	X		WW	L	x	x	x	x	x		x	x	x	x
	OU2-WWTP-Eff-18	10/25/2018 3:30pm	10/25/2018 3:40pm		x	WW	L						x				

# of Containers
[2] Preservation Code
[3] Container Code

Dissolved Metals Samples
☐ Field Filtered
☐ Lab to Filter

Orthophosphate Samples
☐ Field Filtered
☐ Lab to Filter

[1] Matrix Codes:
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define)

[2] Preservation Codes:
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

[3] Container Codes:
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Comments: VOC 624.1 - Benzene, Ethyl Benzene, Xylenes Total, and 124 TMB

48 Hour TAT TDS/TSS ; 5 day TAT BOD and Oil & Grease

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time: 8:00 AM 10/26/18	
Received by: (signature)	Date/Time: 10-26-18 8:00 AM	
Relinquished by: (signature)	Date/Time: 10-26-18 12:15 PM	
ved by: (signature)	Date/Time: 10/26/18 12:15	
quished by: (signature)	Date/Time: 10/26/18 3P	
ved by: (signature) 10-26-18 15:00	Date/Time: 5°C	

Program & Regulatory Information
☐ AWQ STDS ☐ NY TOGS
☐ NYC Sewer Discharge ☐ NY CP-51
☐ Part 360 GW (Landfill)
☐ NY Restricted Use
☐ NY Unrestricted Use
☐ NY Part 375
Other:

Deliverables
☐ Enhanced Data Package
☐ NYSDEC EQuIS EDD
☐ EQuIS (Standard) EDD
☐ NY Regulatory EDD
☐ NY Regs Hits-Only EDD
Other:

NELAC and AIHA-LAP, LLC Accredited

Project Entity
☑ Government ☐ Municipality ☐ MWRA ☐ WRTA
☐ Federal ☐ 21 J ☐ School
☐ City ☐ Brownfield ☐ MBTA

Other
☐ Chromatogram
☐ *AIHA-LAP,LLC*

PCB ONLY
☐ Soxhlet
☐ Non Soxhlet

Table of Contents

I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples_____

con-test® ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client: Land remediation

Received By: ESO Date: 10-26-18 Time: 15:00

How were the samples received? In Cooler: T No Cooler: _____ On Ice: T No Ice: _____ Direct from Sampling: _____ Ambient: _____ Melted Ice: _____

Were samples within Temperature? 2-6°C: T By Gun #: 557 Actual Temp: 5.1 By Blank #: _____ Actual Temp: _____

Was Custody Seal Intact? NA Were Samples Tampered with? NA

Was COC Relinquished ? T Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? T Were samples received within holding time? T

Did COC include all pertinent Information? Client: T Analysis: T Sampler Name: T Project: T ID's: T Collection Dates/Times: T

Are Sample labels filled out and legible? T

Are there Lab to Filters? F Who was notified? _____

Are there Rushes? F Who was notified? _____

Are there Short Holds? T Who was notified? Dana

Is there enough Volume? T

Is there Headspace where applicable? F MS/MSD? F

Proper Media/Containers Used? T Is splitting samples required? F

Were trip blanks received? F On COC? F

Do all samples have the proper pH? NA Acid: _____ Base: _____

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.	2	1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic	1	8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Comments:

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

November 5, 2018

Keith Decker
Land Remediation
74 Hudson River Road
Waterford, NY 12188

Project Location: Saranac Lake
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 18K0021

Enclosed are results of analyses for samples received by the laboratory on November 1, 2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Aaron L. Benoit
Project Manager

Table of Contents

Sample Summary 4

Case Narrative 5

Sample Results 6

18K0021-01 6

18K0021-02 11

Sample Preparation Information 13

QC Data 14

Volatile Organic Compounds by GC/MS 14

B216263 14

Volatile Organic Compounds by GC/MS 15

B216264 15

Semivolatile Organic Compounds by GC/MS 16

B216274 16

Organochloride Pesticides by GC/ECD 18

B216216 18

Polychlorinated Biphenyls By GC/ECD 19

B216217 19

Metals Analyses (Total) 20

B216200 20

B216265 20

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) 21

B216237 21

Pesticides Degradation Report 22

Dual Column RPD Report 24

Flag/Qualifier Summary 28

Table of Contents (continued)

Certifications 29

Chain of Custody/Sample Receipt 31

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Land Remediation
74 Hudson River Road
Waterford, NY 12188
ATTN: Keith Decker

REPORT DATE: 11/5/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18K0021

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Saranac Lake

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
OU2-WWTP-Eff-19	18K0021-01	Waste Water		EPA 200.7	
				EPA 200.8	
				EPA 608.3	
				SM21-22 4500 H B	
				SW-846 8270D	
OU2-WWTP-Eff-19	18K0021-02	Waste Water		EPA 624.1	
				SW-846 8260C	

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

For method 8270, only PAHs were requested and reported.

SM21-22 4500 H B

Qualifications:

H-05

Holding time was exceeded. pH analysis should be performed immediately at time of sampling. Nominal 15 minute holding time was exceeded.

Analyte & Samples(s) Qualified:

pH
18K0021-01[OU2-WWTP-Eff-19]

SW-846 8270D

Qualifications:

S-07

One associated surrogate standard recovery is outside of control limits but the other(s) is/are within limits. All recoveries are > 10%.

Analyte & Samples(s) Qualified:

2-Fluorobiphenyl
B216274-BLK2

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Lisa A. Worthington
Project Manager

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake | Sample Description: | Work Order: 18K0021

Date Received: 11/1/2018

Field Sample #: OU2-WWTP-Eff-19

Sample ID: 18K0021-01 | Start Date/Time: 10/31/2018 1:20:00PM

Sample Matrix: Waste Water | Stop Date/Time: 10/31/2018 1:33:00PM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene (SIM)	ND	0.29	0.058	µg/L	1		SW-846 8270D	11/1/18	11/5/18 13:28	IMR
Acenaphthylene (SIM)	ND	0.19	0.048	µg/L	1		SW-846 8270D	11/1/18	11/5/18 13:28	IMR
Anthracene (SIM)	ND	0.19	0.038	µg/L	1		SW-846 8270D	11/1/18	11/5/18 13:28	IMR
Benzo(a)anthracene (SIM)	ND	0.048	0.048	µg/L	1		SW-846 8270D	11/1/18	11/5/18 13:28	IMR
Benzo(a)pyrene (SIM)	ND	0.096	0.038	µg/L	1		SW-846 8270D	11/1/18	11/5/18 13:28	IMR
Benzo(b)fluoranthene (SIM)	ND	0.048	0.019	µg/L	1		SW-846 8270D	11/1/18	11/5/18 13:28	IMR
Benzo(g,h,i)perylene (SIM)	ND	0.48	0.067	µg/L	1		SW-846 8270D	11/1/18	11/5/18 13:28	IMR
Benzo(k)fluoranthene (SIM)	ND	0.038	0.019	µg/L	1		SW-846 8270D	11/1/18	11/5/18 14:25	IMR
Chrysene (SIM)	ND	0.19	0.029	µg/L	1		SW-846 8270D	11/1/18	11/5/18 13:28	IMR
Dibenz(a,h)anthracene (SIM)	ND	0.096	0.038	µg/L	1		SW-846 8270D	11/1/18	11/5/18 13:28	IMR
Fluoranthene (SIM)	ND	0.48	0.029	µg/L	1		SW-846 8270D	11/1/18	11/5/18 13:28	IMR
Fluorene (SIM)	ND	0.96	0.038	µg/L	1		SW-846 8270D	11/1/18	11/5/18 13:28	IMR
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.096	0.077	µg/L	1		SW-846 8270D	11/1/18	11/5/18 13:28	IMR
Naphthalene (SIM)	ND	0.96	0.067	µg/L	1		SW-846 8270D	11/1/18	11/5/18 13:28	IMR
Phenanthrene (SIM)	ND	0.048	0.038	µg/L	1		SW-846 8270D	11/1/18	11/5/18 13:28	IMR
Pyrene (SIM)	ND	0.96	0.029	µg/L	1		SW-846 8270D	11/1/18	11/5/18 13:28	IMR

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	69.6	30-130		11/5/18 13:28
Nitrobenzene-d5	54.0	30-130		11/5/18 14:25
2-Fluorobiphenyl	52.4	30-130		11/5/18 13:28
2-Fluorobiphenyl	30.2	30-130		11/5/18 14:25
p-Terphenyl-d14	62.0	30-130		11/5/18 13:28
p-Terphenyl-d14	54.9	30-130		11/5/18 14:25

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake | Sample Description: | Work Order: 18K0021

Date Received: 11/1/2018

Field Sample #: OU2-WWTP-Eff-19

Sample ID: 18K0021-01 | Start Date/Time: 10/31/2018 1:20:00PM

Sample Matrix: Waste Water | Stop Date/Time: 10/31/2018 1:33:00PM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Endosulfan I [1]	ND	0.0095	0.00040	µg/L	1		EPA 608.3	11/1/18	11/3/18 3:57	TG
Heptachlor epoxide [1]	ND	0.0095	0.00076	µg/L	1		EPA 608.3	11/1/18	11/3/18 3:57	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	84.7	30-150		11/3/18 3:57
Decachlorobiphenyl [2]	89.6	30-150		11/3/18 3:57
Tetrachloro-m-xylene [1]	48.7	30-150		11/3/18 3:57
Tetrachloro-m-xylene [2]	48.1	30-150		11/3/18 3:57

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake | Sample Description: | Work Order: 18K0021

Date Received: 11/1/2018

Field Sample #: OU2-WWTP-Eff-19

Sample ID: 18K0021-01 | Start Date/Time: 10/31/2018 1:20:00PM

Sample Matrix: Waste Water | Stop Date/Time: 10/31/2018 1:33:00PM

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.038	0.035	µg/L	1		EPA 608.3	11/1/18	11/2/18 16:03	JMB
Aroclor-1221 [1]	ND	0.038	0.031	µg/L	1		EPA 608.3	11/1/18	11/2/18 16:03	JMB
Aroclor-1232 [1]	ND	0.038	0.038	µg/L	1		EPA 608.3	11/1/18	11/2/18 16:03	JMB
Aroclor-1242 [1]	ND	0.038	0.033	µg/L	1		EPA 608.3	11/1/18	11/2/18 16:03	JMB
Aroclor-1248 [1]	ND	0.038	0.036	µg/L	1		EPA 608.3	11/1/18	11/2/18 16:03	JMB
Aroclor-1254 [1]	ND	0.038	0.020	µg/L	1		EPA 608.3	11/1/18	11/2/18 16:03	JMB
Aroclor-1260 [1]	ND	0.038	0.037	µg/L	1		EPA 608.3	11/1/18	11/2/18 16:03	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	96.3	30-150		11/2/18 16:03
Decachlorobiphenyl [2]	79.1	30-150		11/2/18 16:03
Tetrachloro-m-xylene [1]	76.1	30-150		11/2/18 16:03
Tetrachloro-m-xylene [2]	68.9	30-150		11/2/18 16:03

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake | Sample Description: | Work Order: 18K0021

Date Received: 11/1/2018

Field Sample #: OU2-WWTP-Eff-19

Sample ID: 18K0021-01 | Start Date/Time: 10/31/2018 1:20:00PM

Sample Matrix: Waste Water | Stop Date/Time: 10/31/2018 1:33:00PM

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Chromium	ND	0.0070	0.0061	mg/L	1		EPA 200.7	11/1/18	11/2/18 17:17	QNW
Lead	ND	0.50	0.24	µg/L	1		EPA 200.8	11/2/18	11/2/18 10:57	MJH
Zinc	0.010	0.010	0.0052	mg/L	1		EPA 200.7	11/1/18	11/2/18 17:17	QNW

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake | Sample Description: | Work Order: 18K0021

Date Received: 11/1/2018

Field Sample #: OU2-WWTP-Eff-19

Sample ID: 18K0021-01 | Start Date/Time: 10/31/2018 1:20:00PM

Sample Matrix: Waste Water | Stop Date/Time: 10/31/2018 1:33:00PM

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
pH @17.9°C	6.9		pH Units	1	H-05	SM21-22 4500 H B	11/1/18	11/1/18 18:48	AIA

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake | Sample Description: | Work Order: 18K0021

Date Received: 11/1/2018

Field Sample #: OU2-WWTP-Eff-19

Sample ID: 18K0021-02 | Start Date/Time: 10/31/2018 1:20:00PM

Sample Matrix: Waste Water | Stop Date/Time: 10/31/2018 1:33:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Isopropylbenzene (Cumene)	ND	1.0	0.12	µg/L	1		SW-846 8260C	11/2/18	11/2/18 13:04	LBD
Toluene	ND	1.0	0.17	µg/L	1		SW-846 8260C	11/2/18	11/2/18 13:04	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	103	70-130		11/2/18 13:04
Toluene-d8	101	70-130		11/2/18 13:04
4-Bromofluorobenzene	102	70-130		11/2/18 13:04

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake | Sample Description: | Work Order: 18K0021

Date Received: 11/1/2018

Field Sample #: OU2-WWTP-Eff-19

Sample ID: 18K0021-02 | Start Date/Time: 10/31/2018 1:20:00PM

Sample Matrix: Waste Water | Stop Date/Time: 10/31/2018 1:33:00PM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	1.0	0.34	µg/L	1		EPA 624.1	11/2/18	11/2/18 13:04	LBD
Ethylbenzene	ND	2.0	0.37	µg/L	1		EPA 624.1	11/2/18	11/2/18 13:04	LBD
1,2,4-Trimethylbenzene	ND	1.0	0.34	µg/L	1		EPA 624.1	11/2/18	11/2/18 13:04	LBD
Xylenes (total)	ND	3.0		µg/L	1		EPA 624.1	11/2/18	11/2/18 13:04	LBD
m+p Xylene	ND	2.0	0.65	µg/L	1		EPA 624.1	11/2/18	11/2/18 13:04	LBD
o-Xylene	ND	2.0	0.35	µg/L	1		EPA 624.1	11/2/18	11/2/18 13:04	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	103	70-130		11/2/18 13:04
Toluene-d8	101	70-130		11/2/18 13:04
4-Bromofluorobenzene	102	70-130		11/2/18 13:04

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: EPA 200.7-EPA 200.7

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18K0021-01 [OU2-WWTP-Eff-19]	B216200	50.0	50.0	11/01/18

Prep Method: EPA 200.8-EPA 200.8

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18K0021-01 [OU2-WWTP-Eff-19]	B216265	50.0	50.0	11/02/18

Prep Method: SW-846 3510C-EPA 608.3

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18K0021-01 [OU2-WWTP-Eff-19]	B216216	1050	2.00	11/01/18

Prep Method: SW-846 3510C-EPA 608.3

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18K0021-01 [OU2-WWTP-Eff-19]	B216217	1050	2.00	11/01/18

Prep Method: SW-846 5030B-EPA 624.1

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18K0021-02 [OU2-WWTP-Eff-19]	B216264	5	5.00	11/02/18

SM21-22 4500 H B

Lab Number [Field ID]	Batch	Initial [mL]		Date
18K0021-01 [OU2-WWTP-Eff-19]	B216237	50.0		11/01/18

Prep Method: SW-846 5030B-SW-846 8260C

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18K0021-02 [OU2-WWTP-Eff-19]	B216263	5	5.00	11/02/18

Prep Method: SW-846 3510C-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18K0021-01 [OU2-WWTP-Eff-19]	B216274	1040	1.00	11/01/18
18K0021-01RE1 [OU2-WWTP-Eff-19]	B216274	1040	0.200	11/01/18

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B216263 - SW-846 5030B										
Blank (B216263-BLK1)				Prepared & Analyzed: 11/02/18						
Isopropylbenzene (Cumene)	ND	1.0	µg/L							
Toluene	ND	1.0	µg/L							
Surrogate: 1,2-Dichloroethane-d4	*25.7*		µg/L	25.0		103	70-130			
Surrogate: Toluene-d8	*25.7*		µg/L	25.0		103	70-130			
Surrogate: 4-Bromofluorobenzene	*25.9*		µg/L	25.0		104	70-130			
LCS (B216263-BS1)				Prepared & Analyzed: 11/02/18						
Isopropylbenzene (Cumene)	20.3	1.0	µg/L	20.0		102	70-130			
Toluene	20.9	1.0	µg/L	20.0		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	*25.5*		µg/L	25.0		102	70-130			
Surrogate: Toluene-d8	*25.7*		µg/L	25.0		103	70-130			
Surrogate: 4-Bromofluorobenzene	*25.8*		µg/L	25.0		103	70-130			
LCS Dup (B216263-BSD1)				Prepared & Analyzed: 11/02/18						
Isopropylbenzene (Cumene)	19.7	1.0	µg/L	20.0		98.6	70-130	3.10	25	
Toluene	20.3	1.0	µg/L	20.0		102	70-130	2.86	25	
Surrogate: 1,2-Dichloroethane-d4	*25.4*		µg/L	25.0		102	70-130			
Surrogate: Toluene-d8	*25.6*		µg/L	25.0		102	70-130			
Surrogate: 4-Bromofluorobenzene	*26.1*		µg/L	25.0		104	70-130			

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B216264 - SW-846 5030B										
Blank (B216264-BLK1)				Prepared & Analyzed: 11/02/18						
Benzene	ND	1.0	µg/L							
Ethylbenzene	ND	2.0	µg/L							
1,2,4-Trimethylbenzene	ND	1.0	µg/L							
Xylenes (total)	ND	3.0	µg/L							
m+p Xylene	ND	2.0	µg/L							
o-Xylene	ND	2.0	µg/L							
Surrogate: 1,2-Dichloroethane-d4	*25.7*		µg/L	25.0		103	70-130			
Surrogate: Toluene-d8	*25.7*		µg/L	25.0		103	70-130			
Surrogate: 4-Bromofluorobenzene	*25.9*		µg/L	25.0		104	70-130			
LCS (B216264-BS1)				Prepared & Analyzed: 11/02/18						
Benzene	20.8	1.0	µg/L	20.0		104	65-135			
Ethylbenzene	19.5	2.0	µg/L	20.0		97.6	60-140			
1,2,4-Trimethylbenzene	17.5	1.0	µg/L	20.0		87.4	70-130			
m+p Xylene	39.2	2.0	µg/L	40.0		98.1	70-130			
o-Xylene	19.8	2.0	µg/L	20.0		99.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	*25.4*		µg/L	25.0		102	70-130			
Surrogate: Toluene-d8	*25.6*		µg/L	25.0		102	70-130			
Surrogate: 4-Bromofluorobenzene	*26.1*		µg/L	25.0		104	70-130			

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B216274 - SW-846 3510C										
Blank (B216274-BLK1)				Prepared: 11/01/18 Analyzed: 11/05/18						
Acenaphthene (SIM)	ND	0.30	µg/L							
Acenaphthylene (SIM)	ND	0.20	µg/L							
Anthracene (SIM)	ND	0.20	µg/L							
Benzo(a)anthracene (SIM)	ND	0.050	µg/L							
Benzo(a)pyrene (SIM)	ND	0.10	µg/L							
Benzo(b)fluoranthene (SIM)	ND	0.050	µg/L							
Benzo(g,h,i)perylene (SIM)	ND	0.50	µg/L							
Benzo(k)fluoranthene (SIM)	ND	0.20	µg/L							
Chrysene (SIM)	ND	0.20	µg/L							
Dibenz(a,h)anthracene (SIM)	ND	0.10	µg/L							
Fluoranthene (SIM)	ND	0.50	µg/L							
Fluorene (SIM)	ND	1.0	µg/L							
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.10	µg/L							
Naphthalene (SIM)	ND	1.0	µg/L							
Phenanthrene (SIM)	ND	0.050	µg/L							
Pyrene (SIM)	ND	1.0	µg/L							
Surrogate: Nitrobenzene-d5	*79.0*		µg/L	100		79.0	30-130			
Surrogate: 2-Fluorobiphenyl	*56.0*		µg/L	100		56.0	30-130			
Surrogate: p-Terphenyl-d14	*70.4*		µg/L	100		70.4	30-130			
Blank (B216274-BLK2)				Prepared: 11/01/18 Analyzed: 11/05/18						
Benzo(k)fluoranthene (SIM)	ND	0.040	µg/L							
Surrogate: Nitrobenzene-d5	*40.8*		µg/L	100		40.8	30-130			
Surrogate: 2-Fluorobiphenyl	*23.7*		µg/L	100		**23.7**	* 30-130			S-07
Surrogate: p-Terphenyl-d14	*54.7*		µg/L	100		54.7	30-130			
LCS (B216274-BS1)				Prepared: 11/01/18 Analyzed: 11/05/18						
Acenaphthene (SIM)	26.9	7.5	µg/L	50.0		53.8	40-140			
Acenaphthylene (SIM)	27.5	5.0	µg/L	50.0		55.0	40-140			
Anthracene (SIM)	29.1	5.0	µg/L	50.0		58.2	40-140			
Benzo(a)anthracene (SIM)	29.4	1.2	µg/L	50.0		58.8	40-140			
Benzo(a)pyrene (SIM)	31.6	2.5	µg/L	50.0		63.2	40-140			
Benzo(b)fluoranthene (SIM)	31.8	1.2	µg/L	50.0		63.6	40-140			
Benzo(g,h,i)perylene (SIM)	32.1	12	µg/L	50.0		64.2	40-140			
Benzo(k)fluoranthene (SIM)	31.4	5.0	µg/L	50.0		62.8	40-140			
Chrysene (SIM)	28.6	5.0	µg/L	50.0		57.2	40-140			
Dibenz(a,h)anthracene (SIM)	34.6	2.5	µg/L	50.0		69.3	40-140			
Fluoranthene (SIM)	28.8	12	µg/L	50.0		57.6	40-140			
Fluorene (SIM)	27.3	25	µg/L	50.0		54.6	40-140			
Indeno(1,2,3-cd)pyrene (SIM)	34.6	2.5	µg/L	50.0		69.2	40-140			
Naphthalene (SIM)	25.0	25	µg/L	50.0		50.1	40-140			
Phenanthrene (SIM)	28.8	1.2	µg/L	50.0		57.6	40-140			
Pyrene (SIM)	27.6	25	µg/L	50.0		55.2	40-140			
Surrogate: Nitrobenzene-d5	*45.4*		µg/L	100		45.4	30-130			
Surrogate: 2-Fluorobiphenyl	*45.4*		µg/L	100		45.4	30-130			
Surrogate: p-Terphenyl-d14	*46.2*		µg/L	100		46.2	30-130			

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B216274 - SW-846 3510C										
LCS Dup (B216274-BSD1)				Prepared: 11/01/18 Analyzed: 11/05/18						
Acenaphthene (SIM)	28.6	7.5	µg/L	50.0		57.2	40-140	6.12	20	
Acenaphthylene (SIM)	29.3	5.0	µg/L	50.0		58.6	40-140	6.25	20	
Anthracene (SIM)	31.1	5.0	µg/L	50.0		62.2	40-140	6.48	20	
Benzo(a)anthracene (SIM)	31.5	1.2	µg/L	50.0		63.0	40-140	7.06	20	
Benzo(a)pyrene (SIM)	34.1	2.5	µg/L	50.0		68.2	40-140	7.76	20	
Benzo(b)fluoranthene (SIM)	34.6	1.2	µg/L	50.0		69.2	40-140	8.43	20	
Benzo(g,h,i)perylene (SIM)	34.2	12	µg/L	50.0		68.5	40-140	6.40	20	
Benzo(k)fluoranthene (SIM)	34.1	5.0	µg/L	50.0		68.2	40-140	8.24	20	
Chrysene (SIM)	30.6	5.0	µg/L	50.0		61.2	40-140	6.76	20	
Dibenz(a,h)anthracene (SIM)	37.3	2.5	µg/L	50.0		74.6	40-140	7.43	20	
Fluoranthene (SIM)	30.5	12	µg/L	50.0		61.0	40-140	5.82	20	
Fluorene (SIM)	28.9	25	µg/L	50.0		57.8	40-140	5.52	20	
Indeno(1,2,3-cd)pyrene (SIM)	37.2	2.5	µg/L	50.0		74.3	40-140	7.04	20	‡
Naphthalene (SIM)	27.4	25	µg/L	50.0		54.9	40-140	9.14	20	
Phenanthrene (SIM)	30.6	1.2	µg/L	50.0		61.2	40-140	6.15	20	
Pyrene (SIM)	29.5	25	µg/L	50.0		59.0	40-140	6.56	20	
Surrogate: Nitrobenzene-d5	*43.8*		µg/L	100		43.8	30-130			
Surrogate: 2-Fluorobiphenyl	*47.8*		µg/L	100		47.8	30-130			
Surrogate: p-Terphenyl-d14	*49.4*		µg/L	100		49.4	30-130			

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B216216 - SW-846 3510C										
Blank (B216216-BLK1)				Prepared: 11/01/18 Analyzed: 11/02/18						
Endosulfan I	ND	0.010	µg/L							
Endosulfan I [2C]	ND	0.010	µg/L							
Heptachlor Epoxide	ND	0.010	µg/L							
Heptachlor Epoxide [2C]	ND	0.010	µg/L							
Surrogate: Decachlorobiphenyl	*0.880*		µg/L	2.00		44.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.865*		µg/L	2.00		43.3	30-150			
Surrogate: Tetrachloro-m-xylene	*1.09*		µg/L	2.00		54.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.09*		µg/L	2.00		54.6	30-150			
LCS (B216216-BS1)				Prepared: 11/01/18 Analyzed: 11/02/18						
Endosulfan I	0.72	0.050	µg/L	1.00		72.4	45-153			
Endosulfan I [2C]	0.70	0.050	µg/L	1.00		70.4	45-153			
Heptachlor Epoxide	0.74	0.050	µg/L	1.00		74.1	37-142			
Heptachlor Epoxide [2C]	0.68	0.050	µg/L	1.00		67.9	37-142			
Surrogate: Decachlorobiphenyl	*1.62*		µg/L	2.00		81.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.56*		µg/L	2.00		77.8	30-150			
Surrogate: Tetrachloro-m-xylene	*1.14*		µg/L	2.00		57.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.12*		µg/L	2.00		56.1	30-150			
LCS Dup (B216216-BSD1)				Prepared: 11/01/18 Analyzed: 11/02/18						
Endosulfan I	0.63	0.050	µg/L	1.00		63.4	45-153	13.2		
Endosulfan I [2C]	0.62	0.050	µg/L	1.00		61.6	45-153	13.3		
Heptachlor Epoxide	0.62	0.050	µg/L	1.00		62.0	37-142	17.7		
Heptachlor Epoxide [2C]	0.56	0.050	µg/L	1.00		56.4	37-142	18.4		
Surrogate: Decachlorobiphenyl	*1.74*		µg/L	2.00		86.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.65*		µg/L	2.00		82.7	30-150			
Surrogate: Tetrachloro-m-xylene	*1.40*		µg/L	2.00		69.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.38*		µg/L	2.00		68.8	30-150			

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B216217 - SW-846 3510C										
Blank (B216217-BLK1)				Prepared: 11/01/18 Analyzed: 11/02/18						
Aroclor-1016	ND	0.040	µg/L							
Aroclor-1016 [2C]	ND	0.040	µg/L							
Aroclor-1221	ND	0.040	µg/L							
Aroclor-1221 [2C]	ND	0.040	µg/L							
Aroclor-1232	ND	0.040	µg/L							
Aroclor-1232 [2C]	ND	0.040	µg/L							
Aroclor-1242	ND	0.040	µg/L							
Aroclor-1242 [2C]	ND	0.040	µg/L							
Aroclor-1248	ND	0.040	µg/L							
Aroclor-1248 [2C]	ND	0.040	µg/L							
Aroclor-1254	ND	0.040	µg/L							
Aroclor-1254 [2C]	ND	0.040	µg/L							
Aroclor-1260	ND	0.040	µg/L							
Aroclor-1260 [2C]	ND	0.040	µg/L							
Surrogate: Decachlorobiphenyl	*0.969*		µg/L	2.00		48.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.984*		µg/L	2.00		49.2	30-150			
Surrogate: Tetrachloro-m-xylene	*1.58*		µg/L	2.00		79.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.41*		µg/L	2.00		70.4	30-150			
LCS (B216217-BS1)				Prepared: 11/01/18 Analyzed: 11/02/18						
Aroclor-1016	0.45	0.20	µg/L	0.500		90.0	50-140			
Aroclor-1016 [2C]	0.46	0.20	µg/L	0.500		91.3	50-140			
Aroclor-1260	0.46	0.20	µg/L	0.500		91.3	8-140			
Aroclor-1260 [2C]	0.45	0.20	µg/L	0.500		90.9	8-140			
Surrogate: Decachlorobiphenyl	*1.82*		µg/L	2.00		91.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.84*		µg/L	2.00		92.2	30-150			
Surrogate: Tetrachloro-m-xylene	*1.72*		µg/L	2.00		85.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.75*		µg/L	2.00		87.7	30-150			
LCS Dup (B216217-BSD1)				Prepared: 11/01/18 Analyzed: 11/02/18						
Aroclor-1016	0.43	0.20	µg/L	0.500		85.6	50-140	5.04		
Aroclor-1016 [2C]	0.42	0.20	µg/L	0.500		83.3	50-140	9.20		
Aroclor-1260	0.44	0.20	µg/L	0.500		87.1	8-140	4.69		
Aroclor-1260 [2C]	0.43	0.20	µg/L	0.500		85.4	8-140	6.29		
Surrogate: Decachlorobiphenyl	*1.67*		µg/L	2.00		83.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.69*		µg/L	2.00		84.4	30-150			
Surrogate: Tetrachloro-m-xylene	*1.59*		µg/L	2.00		79.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.62*		µg/L	2.00		81.1	30-150			

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B216200 - EPA 200.7										
Blank (B216200-BLK1)				Prepared: 11/01/18 Analyzed: 11/02/18						
Chromium	ND	0.0070	mg/L							
Zinc	ND	0.010	mg/L							
LCS (B216200-BS1)				Prepared: 11/01/18 Analyzed: 11/02/18						
Chromium	0.514	0.0070	mg/L	0.500		103	85-115			
Zinc	1.04	0.010	mg/L	1.00		104	85-115			
LCS Dup (B216200-BSD1)				Prepared: 11/01/18 Analyzed: 11/02/18						
Chromium	0.518	0.0070	mg/L	0.500		104	85-115	0.797	20	
Zinc	1.04	0.010	mg/L	1.00		104	85-115	0.765	20	
Batch B216265 - EPA 200.8										
Blank (B216265-BLK1)				Prepared & Analyzed: 11/02/18						
Lead	ND	0.50	µg/L							
LCS (B216265-BS1)				Prepared & Analyzed: 11/02/18						
Lead	502	5.0	µg/L	500		100	85-115			
LCS Dup (B216265-BSD1)				Prepared & Analyzed: 11/02/18						
Lead	513	5.0	µg/L	500		103	85-115	2.05	20	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B216237 - SM21-22 4500 H B										
LCS (B216237-BS1)				Prepared & Analyzed: 11/01/18						
pH	6.00		pH Units	6.00		100	90-110			

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

BREAKDOWN REPORT

Lab Sample ID: S029037-PEM1 **Analyzed:** 11/02/2018

Column Number: 1

Analyte	% Breakdown
4,4'-DDT [1]	0.31
Endrin [1]	4.21

Column Number: 2

Analyte	% Breakdown
4,4'-DDT [2]	0.84
Endrin [2]	4.36

BREAKDOWN REPORT

Lab Sample ID: S029037-PEM2 **Analyzed:** 11/03/2018

Column Number: 1

Analyte	% Breakdown
4,4'-DDT [1]	1.23
Endrin [1]	3.40

Column Number: 2

Analyte	% Breakdown
4,4'-DDT [2]	1.20
Endrin [2]	3.46

BREAKDOWN REPORT

Lab Sample ID: S029037-PEM3 **Analyzed:** 11/03/2018

Column Number: 1

Analyte	% Breakdown
4,4'-DDT [1]	0.94
Endrin [1]	3.13

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

BREAKDOWN REPORT

Lab Sample ID:	**S029037-PEM3**	**Analyzed:**	**11/03/2018**

Column Number: **2**

Analyte	% Breakdown
4,4'-DDT [2]	1.35
Endrin [2]	3.21

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

EPA 608.3

LCS

Lab Sample ID: B216216-BS1 Date(s) Analyzed 11/02/2018 11/02/2018

Instrument ID (1): ECD2A Instrument ID (2): ECD2B

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Endosulfan I	1	6.341	0.000	0.000	0.72	
	2	6.063	0.000	0.000	0.70	2.8
Heptachlor Epoxide	1	6.085	0.000	0.000	0.74	
	2	5.824	0.000	0.000	0.68	8.5

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

EPA 608.3

LCS Dup

Lab Sample ID: B216216-BSD1 Date(s) Analyzed 11/02/2018 11/02/2018

Instrument ID (1): ECD2A Instrument ID (2): ECD2B

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Endosulfan I	1	6.340	0.000	0.000	0.63	
	2	6.063	0.000	0.000	0.62	1.6
Heptachlor Epoxide	1	6.085	0.000	0.000	0.62	
	2	5.824	0.000	0.000	0.56	10.2

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

EPA 608.3

LCS

Lab Sample ID: B216217-BS1 Date(s) Analyzed 11/02/2018 11/02/2018

Instrument ID (1): ECD 9 Instrument ID (2): ECD 9

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.45	
	2	0.000	0.000	0.000	0.46	2.2
Aroclor-1260	1	0.000	0.000	0.000	0.46	
	2	0.000	0.000	0.000	0.45	2.2

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

EPA 608.3

LCS Dup

Lab Sample ID: B216217-BSD1 Date(s) Analyzed 11/02/2018 11/02/2018

Instrument ID (1): ECD 9 Instrument ID (2): ECD 9

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.43	
	2	0.000	0.000	0.000	0.42	2.4
Aroclor-1260	1	0.000	0.000	0.000	0.44	
	2	0.000	0.000	0.000	0.43	2.3

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
H-05	Holding time was exceeded. pH analysis should be performed immediately at time of sampling. Nominal 15 minute holding time was exceeded.
S-07	One associated surrogate standard recovery is outside of control limits but the other(s) is/are within limits. All recoveries are > 10%.

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
EPA 200.7 in Water	
Chromium	CT,MA,NH,NY,RI,NC,ME,VA
Zinc	CT,MA,NH,NY,RI,NC,ME,VA
EPA 200.8 in Water	
Lead	CT,MA,NH,NY,RI,NC,ME,VA
EPA 608.3 in Water	
Aroclor-1016	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1016 [2C]	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1221	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1221 [2C]	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1232	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1232 [2C]	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1242	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1242 [2C]	CT,MA,NH,NY,RI,NC,ME,VA
Endosulfan I	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1248	CT,MA,NH,NY,RI,NC,ME,VA
Endosulfan I [2C]	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1248 [2C]	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1254	CT,MA,NH,NY,RI,NC,ME,VA
Heptachlor Epoxide	CT,MA,NH,NY,RI,NC,ME,VA
Heptachlor Epoxide [2C]	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1254 [2C]	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1260	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1260 [2C]	CT,MA,NH,NY,RI,NC,ME,VA
EPA 624.1 in Water	
Benzene	CT,NY,RI,NC,MA,NH
Ethylbenzene	CT,NY,RI,NC,MA,NH
Toluene	CT,NY,RI,NC,MA,NH
1,2,4-Trimethylbenzene	MA
Xylenes (total)	NY,MA,NH
m+p Xylene	CT,NY,RI,NC,MA,NH
o-Xylene	CT,NY,RI,NC,MA,NH
SM21-22 4500 H B in Water	
pH	CT,MA,RI
SW-846 8260C in Water	
Benzene	CT,ME,NH,VA,NY
Ethylbenzene	CT,ME,NH,VA,NY
Isopropylbenzene (Cumene)	ME,VA,NY
Toluene	CT,ME,NH,VA,NY
1,2,4-Trimethylbenzene	ME,VA,NY
m+p Xylene	CT,ME,NH,VA,NY
o-Xylene	CT,ME,NH,VA,NY
Xylenes (total)	NY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	03/1/2020
MA	Massachusetts DEP	M-MA100	06/30/2019
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2019
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2019
RI	Rhode Island Department of Health	LAO00112	12/30/2018
NC	North Carolina Div. of Water Quality	652	12/31/2018
NJ	New Jersey DEP	MA007 NELAP	06/30/2019
FL	Florida Department of Health	E871027 NELAP	06/30/2019
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2019
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2018
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2019
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2019
NC-DW	North Carolina Department of Health	25703	07/31/2019

ALB

con-test® ANALYTICAL LABORATORY

18K0021

Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com

http://www.contestlabs.com Doc # 380 Rev 1_03242017

CHAIN OF CUSTODY RECORD (New York)

39 Spruce Street
East Longmeadow, MA 01028

Company Name:	LAND remediation
Address:	74 Hudson River Road Waterford, NY
Phone:	
Project Name:	NYSDEC Saranac Lake Gas Co.
Project Location:	Saranac Lake Construction Water
Project Number:	
Project Manager:	Matthew Warren
Con-Test Quote Name/Number:	
Invoice Recipient:	mjw@land-remediation.com
Sampled By:	Vaughn Nelson

Requested Turnaround Time
7-Day ☐ 10-Day ☐
Due Date:

Rush-Approval Required
1-Day ☑ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
CLP Like Data Pkg Required: ☐
Email To: mjw@land-remediation.com
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	BOD-5	TDS	TSS	Oil & Grease 1664	8270 SVOC - PAH SIM	VOC 624.1 - (See Below)	VOC 8260 - Isopropyl Benzene & Toluene Only	608 PCB - 608 Pest - Endosulfan I, Heptachlor Epoxide	Metals- Pb, Zn, Cr.	pH	# of Containers
01	OU2-WWTP-Eff-19	10/31/2018 1:20pm	10/31/2018 1::33	X		WW	L	x	x	x	x	x		x	x	x	x	
02	OU2-WWTP-Eff-19	10/31/2018 1:20pm	10/31/2018 1::33pm		x	WW	L						x					

[2] Preservation Code
[3] Container Code

Dissolved Metals Samples
☐ Field Filtered
☐ Lab to Filter

Orthophosphate Samples
☐ Field Filtered
☐ Lab to Filter

[1] Matrix Codes:
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define)

[2] Preservation Codes:
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

[3] Container Codes:
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Comments: VOC 624.1 - Benzene, Ethyl Benzene, Xylenes Total, and 124 TMB

48 Hour TAT TDS/TSS ; 5 day TAT BOD and Oil & Grease

Please use the following codes to indicate possible sample concentration within the **Conc Code** column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time: 10/31/18 3:05pm
Received by: (signature) 3.1	Date/Time: 11.1.18 9:42
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Program & Regulatory Information
☐ AWQ STDS ☐ NY TOGS
☐ NYC Sewer Discharge ☐ NY CP-51
☐ Part 360 GW (Landfill)
☐ NY Restricted Use
☐ NY Unrestricted Use
☐ NY Part 375
Other:

Deliverables
☐ Enhanced Data Package
☐ NYSDEC EQuIS EDD
☐ EQuIS (Standard) EDD
☐ NY Regulatory EDD
☐ NY Regs Hits-Only EDD
Other:

NELAC and AIHA LAP, LLC Accredited

Project Entity
☑ Government ☐ Municipality ☐ MWRA ☐ WRTA
☐ Federal ☐ 21 J ☐ School
☐ City ☐ Brownfield ☐ MBTA

Other
☐ Chromatogram
☐ *AIHA-LAP,LLC*

PCB ONLY
☐ Soxhlet
☐ Non Soxhlet

Table of Contents

812408468336

Delivered
Thursday 11/01/2018 at 9:42 am

DELIVERED

Signed for by: P.BLAKE

GET STATUS UPDATES

OBTAIN PROOF OF DELIVERY

FROM	TO
HAR US	MA US

Shipment Facts

TRACKING NUMBER
812408468336

SERVICE
FedEx Priority Overnight

SIGNATURE SERVICES
Indirect signature required

DELIVERED TO
Shipping/Receiving

TOTAL PIECES
1

TERMS
Third Party

PACKAGING
Your Packaging

SPECIAL HANDLING SECTION
Deliver Weekday, Indirect Signature Required

STANDARD TRANSIT
11/01/2018 by 10:30 am

SHIP DATE
Wed 10/31/2018

ACTUAL DELIVERY
Thu 11/01/2018 9:42 am

Travel History

Local Scan Time

Thursday , 11/01/2018		
9:42 am	MA	Delivered
8:06 am	WINDSOR LOCKS, CT	On FedEx vehicle for delivery
7:54 am	WINDSOR LOCKS, CT	At local FedEx facility
12:03 am	INDIANAPOLIS, IN	Arrived at FedEx location
Wednesday , 10/31/2018		
6:23 pm	PLATTSBURGH, NY	Left FedEx origin facility
4:28 pm	PLATTSBURGH, NY	Picked up

I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples_____

con-test® ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client Land Remediation

Received By PB Date 11.1.18 Time 9:42

How were the samples received? In Cooler T No Cooler _____ On Ice T No Ice _____

Direct from Sampling _____ Ambient _____ Melted Ice _____

Were samples within Temperature? 2-6°C T By Gun # 557 Actual Temp - 3.1

By Blank # _____ Actual Temp - _____

Was Custody Seal Intact? NA Were Samples Tampered with? NA

Was COC Relinquished ? T Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? T Were samples received within holding time? T

Did COC include all pertinent Information? Client T Project T Analysis T ID's T Sampler Name T Collection Dates/Times T

Are Sample labels filled out and legible? T

Are there Lab to Filters? F Who was notified? _____

Are there Rushes? T Who was notified? Joanna

Are there Short Holds? T Who was notified? _____

Is there enough Volume? T

Is there Headspace where applicable? F MS/MSD? F

Proper Media/Containers Used? T Is splitting samples required? F

Were trip blanks received? F On COC? F

Do all samples have the proper pH? T Acid T Base _____

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.	6	1 Liter Plastic		16 oz Amb.	
HCL-	3	500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic	1	4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Comments:

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

November 5, 2018

Keith Decker
Land Remediation
74 Hudson River Road
Waterford, NY 12188

Project Location: Saranac Lake
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 18K0035

Enclosed are results of analyses for samples received by the laboratory on November 1, 2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Aaron L. Benoit
Project Manager

Table of Contents

Sample Summary 3

Case Narrative 4

Sample Results 5

18K0035-01 5

Sample Preparation Information 7

QC Data 8

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) 8

B216151 8

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Dissolved) 9

B216254 9

Flag/Qualifier Summary 10

Certifications 11

Chain of Custody/Sample Receipt 12

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Land Remediation
74 Hudson River Road
Waterford, NY 12188
ATTN: Keith Decker

REPORT DATE: 11/5/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18K0035

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Saranac Lake

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
OU2-WWTP-Eff-19	18K0035-01	Waste Water		SM21-22 2540C SM21-22 2540D	

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Lisa A. Worthington
Project Manager

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake | Sample Description: | Work Order: 18K0035

Date Received: 11/1/2018

Field Sample #: OU2-WWTP-Eff-19

Sample ID: 18K0035-01 | Start Date/Time: 10/31/2018 1:20:00PM

Sample Matrix: Waste Water | Stop Date/Time: 10/31/2018 1:33:00PM

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Suspended Solids	ND	5.0	mg/L	1		SM21-22 2540D	11/1/18	11/1/18 14:00	LL

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake | Sample Description: | Work Order: 18K0035

Date Received: 11/1/2018

Field Sample #: OU2-WWTP-Eff-19

Sample ID: 18K0035-01 | Start Date/Time: 10/31/2018 1:20:00PM

Sample Matrix: Waste Water | Stop Date/Time: 10/31/2018 1:33:00PM

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Dissolved)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Dissolved Solids	220	10	mg/L	1		SM21-22 2540C	11/2/18	11/2/18 13:35	LL

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

SM21-22 2540C

Lab Number [Field ID]	Batch	Initial [mL]	Date
18K0035-01 [OU2-WWTP-Eff-19]	B216254	50.0	11/02/18

SM21-22 2540D

Lab Number [Field ID]	Batch	Initial [mL]	Date
18K0035-01 [OU2-WWTP-Eff-19]	B216151	100	11/01/18

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B216151 - SM21-22 2540D										
Blank (B216151-BLK1)				Prepared & Analyzed: 11/01/18						
Total Suspended Solids	ND	2.5	mg/L							
LCS (B216151-BS1)				Prepared & Analyzed: 11/01/18						
Total Suspended Solids	188	20	mg/L	200		94.0	64.3-117			

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Dissolved) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B216254 - SM21-22 2540C										
Blank (B216254-BLK1)				Prepared & Analyzed: 11/02/18						
Total Dissolved Solids	ND	10	mg/L							
LCS (B216254-BS1)				Prepared & Analyzed: 11/02/18						
Total Dissolved Solids	270	10	mg/L	293		93.5	61.4-114			

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level

Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.

No results have been blank subtracted unless specified in the case narrative section.

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SM21-22 2540C in Water	
Total Dissolved Solids	CT,MA,NH,NY,RI,NC,ME,VA
SM21-22 2540D in Water	
Total Suspended Solids	CT,MA,NH,NY,RI,NC,ME,VA

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	03/1/2020
MA	Massachusetts DEP	M-MA100	06/30/2019
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2019
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2019
RI	Rhode Island Department of Health	LAO00112	12/30/2018
NC	North Carolina Div. of Water Quality	652	12/31/2018
NJ	New Jersey DEP	MA007 NELAP	06/30/2019
FL	Florida Department of Health	E871027 NELAP	06/30/2019
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2019
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2018
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2019
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2019
NC-DW	North Carolina Department of Health	25703	07/31/2019

ALB

con-test® ANALYTICAL LABORATORY

18K0035

Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com

http://www.contestlabs.com Doc # 380 Rev 1_03242017

CHAIN OF CUSTODY RECORD (New York)

39 Spruce Street
East Longmeadow, MA 01028

Company Name:	LAND remediation
Address:	74 Hudson River Road Waterford, NY
Phone:	
Project Name:	NYSDEC Saranac Lake Gas Co.
Project Location:	Saranac Lake Construction Water
Project Number:	
Project Manager:	Matthew Warren
Con-Test Quote Name/Number:	
Invoice Recipient:	mjw@land-remediation.com
Sampled By:	Vaughn Nelson

Requested Turnaround Time
7-Day ☐ 10-Day ☐
Due Date:

Rush-Approval Required
1-Day ☑ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
CLP Like Data Pkg Required: ☐
Email To: mjw@land-remediation.com
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	BOD-5	TDS	TSS	Oil & Grease 1664	8270 SVOC - PAH SIM	VOC 624.1 - (See Below)	VOC 8260 - Isopropyl Benzene & Toluene Only	608 PCB - 608 Pest - Endosulfan I, Heptachlor Epoxide	Metals- Pb, Zn, Cr.	pH	# of Containers	[2] Preservation Code	[3] Container Code
01	OU2-WWTP-Eff-19	10/31/2018 1:20pm	10/31/2018 1::33	X		WW	L	x	x	x	x	x		x	x	x	x			
—	OU2-WWTP-Eff-19	10/31/2018 1:20pm	10/31/2018 1::33pm		X	WW	L						x							

Dissolved Metals Samples
☐ Field Filtered
☐ Lab to Filter

Orthophosphate Samples
☐ Field Filtered
☐ Lab to Filter

[1] Matrix Codes:
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define)

[2] Preservation Codes:
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

[3] Container Codes:
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Comments: VOC 624.1 - Benzene, Ethyl Benzene, Xylenes Total, and 124 TMB

48 Hour TAT TDS/TSS ; 5 day TAT BOD and Oil & Grease

Please use the following codes to indicate possible sample concentration within the **Conc Code** column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time: 10/31/18 3:05pm
Received by: (signature) 3.1	Date/Time: 11.1.18 9:42
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Program & Regulatory Information
☐ AWQ STDS ☐ NY TOGS
☐ NYC Sewer Discharge ☐ NY CP-51
☐ Part 360 GW (Landfill)
☐ NY Restricted Use
☐ NY Unrestricted Use
☐ NY Part 375
Other:

Deliverables
☐ Enhanced Data Package
☐ NYSDEC EQuIS EDD
☐ EQuIS (Standard) EDD
☐ NY Regulatory EDD
☐ NY Regs Hits-Only EDD
Other:

Project Entity
☑ Government ☐ Municipality ☐ MWRA ☐ WRTA
☐ Federal ☐ 21 J ☐ School
☐ City ☐ Brownfield ☐ MBTA

Other
☐ Chromatogram
☐ *AIHA-LAP,LLC*

PCB ONLY
☐ Soxhlet
☐ Non Soxhlet

Table of Contents

812408468336

Delivered
Thursday 11/01/2018 at 9:42 am

DELIVERED

Signed for by: P.BLAKE

GET STATUS UPDATES

OBTAIN PROOF OF DELIVERY

FROM	TO
HAR US	MA US

Shipment Facts

TRACKING NUMBER
812408468336

SERVICE
FedEx Priority Overnight

SIGNATURE SERVICES
Indirect signature required

DELIVERED TO
Shipping/Receiving

TOTAL PIECES
1

TERMS
Third Party

PACKAGING
Your Packaging

SPECIAL HANDLING SECTION
Deliver Weekday, Indirect Signature Required

STANDARD TRANSIT
11/01/2018 by 10:30 am

SHIP DATE
Wed 10/31/2018

ACTUAL DELIVERY
Thu 11/01/2018 9:42 am

Travel History

Local Scan Time

Thursday , 11/01/2018		
9:42 am	MA	Delivered
8:06 am	WINDSOR LOCKS, CT	On FedEx vehicle for delivery
7:54 am	WINDSOR LOCKS, CT	At local FedEx facility
12:03 am	INDIANAPOLIS, IN	Arrived at FedEx location
Wednesday , 10/31/2018		
6:23 pm	PLATTSBURGH, NY	Left FedEx origin facility
4:28 pm	PLATTSBURGH, NY	Picked up

I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples_____

con-test® ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client Land Remediation

Received By PB Date 11.1.18 Time 9:42

How were the samples received? In Cooler T No Cooler _____ On Ice T No Ice _____

Direct from Sampling _____ Ambient _____ Melted Ice _____

Were samples within Temperature? 2-6°C T By Gun # 557 Actual Temp - 3.1

By Blank # _____ Actual Temp - _____

Was Custody Seal Intact? NA Were Samples Tampered with? NA

Was COC Relinquished ? T Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? T Were samples received within holding time? T

Did COC include all pertinent Information? Client T Project T Analysis T ID's T Sampler Name T Collection Dates/Times T

Are Sample labels filled out and legible? T

Are there Lab to Filters? F Who was notified? _____

Are there Rushes? T Who was notified? Joanna

Are there Short Holds? T Who was notified? _____

Is there enough Volume? T

Is there Headspace where applicable? F MS/MSD? F

Proper Media/Containers Used? T Is splitting samples required? F

Were trip blanks received? F On COC? F

Do all samples have the proper pH? T Acid T Base _____

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic	1	8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Comments:

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

November 8, 2018

Keith Decker
Land Remediation
74 Hudson River Road
Waterford, NY 12188

Project Location: Saranac Lake
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 18K0032

Enclosed are results of analyses for samples received by the laboratory on November 1, 2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Aaron L. Benoit
Project Manager

Table of Contents

Sample Summary 3

Case Narrative 4

Sample Results 5

18K0032-01 5

Sample Preparation Information 6

QC Data 7

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) 7

B216242 7

B216468 7

Flag/Qualifier Summary 8

Certifications 9

Chain of Custody/Sample Receipt 10

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Land Remediation
74 Hudson River Road
Waterford, NY 12188
ATTN: Keith Decker

REPORT DATE: 11/8/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18K0032

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Saranac Lake

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
OU2-WWTP-Eff-19	18K0032-01	Waste Water		EPA 1664B SM 21-22 5210B	

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Tod E. Kopyscinski
Laboratory Director

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake | Sample Description: | Work Order: 18K0032

Date Received: 11/1/2018

Field Sample #: OU2-WWTP-Eff-19

Sample ID: 18K0032-01 | Start Date/Time: 10/31/2018 1:20:00PM

Sample Matrix: Waste Water | Stop Date/Time: 10/31/2018 1:33:00PM

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Biochemical Oxygen Demand	ND	4.0	mg/L	1		SM 21-22 5210B	11/1/18	11/1/18 15:41	LED
Oil & Grease (HEM)	ND	1.4	mg/L	1		EPA 1664B	11/6/18	11/6/18 12:00	LL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

EPA 1664B

Lab Number [Field ID]	Batch	Initial [mL]	Date
18K0032-01 [OU2-WWTP-Eff-19]	B216468	1000	11/06/18

SM 21-22 5210B

Lab Number [Field ID]	Batch	Initial [mL]	Date
18K0032-01 [OU2-WWTP-Eff-19]	B216242	150	11/01/18

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B216242 - SM 21-22 5210B										
Blank (B216242-BLK1)				Prepared & Analyzed: 11/01/18						
Biochemical Oxygen Demand	ND	2.0	mg/L							
LCS (B216242-BS1)				Prepared & Analyzed: 11/01/18						
Biochemical Oxygen Demand	170	2.0	mg/L	198		86.3	85-115			
Batch B216468 - EPA 1664B										
Blank (B216468-BLK1)				Prepared & Analyzed: 11/06/18						
Oil & Grease (HEM)	ND	1.4	mg/L							
Blank (B216468-BLK2)				Prepared & Analyzed: 11/06/18						
Oil & Grease (HEM)	ND	7.0	mg/L							
LCS (B216468-BS1)				Prepared & Analyzed: 11/06/18						
Oil & Grease (HEM)	19		mg/L	20.0		94.0	78-114			
LCS (B216468-BS2)				Prepared & Analyzed: 11/06/18						
Oil & Grease (HEM)	94		mg/L	100		93.5	78-114			
Duplicate (B216468-DUP1)	**Source: 18K0032-01**			Prepared & Analyzed: 11/06/18						
Oil & Grease (HEM)	ND	1.4	mg/L		ND			NC	18	

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level

Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.

No results have been blank subtracted unless specified in the case narrative section.

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
EPA 1664B in Water	
Oil & Grease (HEM)	CT,MA,NH,NY,RI,NC,ME,VA
SM 21-22 5210B in Water	
Biochemical Oxygen Demand	CT,MA,NH,NY,RI,ME,VA,NC

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	03/1/2020
MA	Massachusetts DEP	M-MA100	06/30/2019
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2019
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2019
RI	Rhode Island Department of Health	LAO00112	12/30/2018
NC	North Carolina Div. of Water Quality	652	12/31/2018
NJ	New Jersey DEP	MA007 NELAP	06/30/2019
FL	Florida Department of Health	E871027 NELAP	06/30/2019
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2019
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2018
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2019
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2019
NC-DW	North Carolina Department of Health	25703	07/31/2019

ALB

con-test ANALYTICAL LABORATORY

18K0032

Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com

http://www.contestlabs.com Doc # 380 Rev 1_03242017

CHAIN OF CUSTODY RECORD (New York)

39 Spruce Street
East Longmeadow, MA 01028

Company Name:	LAND remediation
Address:	74 Hudson River Road Waterford, NY
Phone:	
Project Name:	NYSDEC Saranac Lake Gas Co.
Project Location:	Saranac Lake Construction Water
Project Number:	
Project Manager:	Matthew Warren
Con-Test Quote Name/Number:	
Invoice Recipient:	mjw@land-remediation.com
Sampled By:	Vaughn Nelson

Requested Turnaround Time
7-Day ☐ 10-Day ☐
Due Date:

Rush-Approval Required
1-Day ☑ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
CLP Like Data Pkg Required: ☐
Email To: mjw@land-remediation.com
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code	BOD-5	TDS	TSS	Oil & Grease 1664	8270 SVOC - PAH SIM	VOC 624.1 - (See Below)	VOC 8260 - Isopropyl Benzene & Toluene Only	608 PCB - 608 Pest - Endosulfan I, Heptachlor Epoxide	Metals- Pb, Zn, Cr.	pH	# of Containers
01	OU2-WWTP-Eff-19	10/31/2018 1:20pm	10/31/2018 1::33	X		WW	L	x	x	x	x	x		x	x	x	x	
—	OU2-WWTP-Eff-19	10/31/2018 1:20pm	10/31/2018 1::33pm		x	WW	L						x					

Comments: VOC 624.1 - Benzene, Ethyl Benzene, Xylenes Total, and 124 TMB

48 Hour TAT TDS/TSS ; 5 day TAT BOD and Oil & Grease

Please use the following codes to indicate possible sample concentration within the **Conc Code** column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Dissolved Metals Samples
☐ Field Filtered
☐ Lab to Filter

Orthophosphate Samples
☐ Field Filtered
☐ Lab to Filter

[1] Matrix Codes:
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define)

[2] Preservation Codes:
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

[3] Container Codes:
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Relinquished by: (signature)	Date/Time: 10/31/18 3:05pm
Received by: (signature) 3.1	Date/Time: 11.1.18 9:42
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Program & Regulatory Information
☐ AWQ STDS ☐ NY TOGS
☐ NYC Sewer Discharge ☐ NY CP-51
☐ Part 360 GW (Landfill)
☐ NY Restricted Use
☐ NY Unrestricted Use
☐ NY Part 375
Other:

Deliverables
☐ Enhanced Data Package
☐ NYSDEC EQuIS EDD
☐ EQuIS (Standard) EDD
☐ NY Regulatory EDD
☐ NY Regs Hits-Only EDD
Other:

Project Entity
☑ Government ☐ Municipality ☐ MWRA ☐ WRTA
☐ Federal ☐ 21 J ☐ School
☐ City ☐ Brownfield ☐ MBTA

Other
☐ Chromatogram
☐ *AIHA-LAP,LLC*

PCB ONLY
☐ Soxhlet
☐ Non Soxhlet

Table of Contents

812408468336

Delivered
Thursday 11/01/2018 at 9:42 am

DELIVERED

Signed for by: P.BLAKE

GET STATUS UPDATES

OBTAIN PROOF OF DELIVERY

FROM	TO
HAR US	MA US

Shipment Facts

TRACKING NUMBER
812408468336

SERVICE
FedEx Priority Overnight

SIGNATURE SERVICES
Indirect signature required

DELIVERED TO
Shipping/Receiving

TOTAL PIECES
1

TERMS
Third Party

PACKAGING
Your Packaging

SPECIAL HANDLING SECTION
Deliver Weekday, Indirect Signature Required

STANDARD TRANSIT
11/01/2018 by 10:30 am

SHIP DATE
Wed 10/31/2018

ACTUAL DELIVERY
Thu 11/01/2018 9:42 am

Travel History

Local Scan Time

Thursday , 11/01/2018		
9:42 am	MA	Delivered
8:06 am	WINDSOR LOCKS, CT	On FedEx vehicle for delivery
7:54 am	WINDSOR LOCKS, CT	At local FedEx facility
12:03 am	INDIANAPOLIS, IN	Arrived at FedEx location
Wednesday , 10/31/2018		
6:23 pm	PLATTSBURGH, NY	Left FedEx origin facility
4:28 pm	PLATTSBURGH, NY	Picked up

I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples_____

con-test® ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client Land Remediation

Received By PB Date 11.1.18 Time 9:42

How were the samples received? In Cooler T No Cooler _____ On Ice T No Ice _____ Direct from Sampling _____ Ambient _____ Melted Ice _____

Were samples within Temperature? 2-6°C T By Gun # 557 Actual Temp - 3.1 By Blank # _____ Actual Temp - _____

Was Custody Seal Intact? NA Were Samples Tampered with? NA

Was COC Relinquished ? T Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? T Were samples received within holding time? T

Did COC include all pertinent Information? Client T Analysis T Sampler Name T Project T ID's T Collection Dates/Times T

Are Sample labels filled out and legible? T

Are there Lab to Filters? F Who was notified? _____

Are there Rushes? T Who was notified? Joanna

Are there Short Holds? T Who was notified? _____

Is there enough Volume? T

Is there Headspace where applicable? F MS/MSD? F

Proper Media/Containers Used? T Is splitting samples required? F

Were trip blanks received? F On COC? F

Do all samples have the proper pH? T Acid T Base _____

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.	2	1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic	1	8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Comments:

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

November 8, 2018

Keith Decker
Land Remediation
74 Hudson River Road
Waterford, NY 12188

Project Location: Saranac Lake - Construction Water
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 18K0232

Enclosed are results of analyses for samples received by the laboratory on November 6, 2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Aaron L. Benoit
Project Manager

Table of Contents

Sample Summary 3

Case Narrative 4

Sample Results 5

18K0232-01 5

18K0232-02 10

Sample Preparation Information 12

QC Data 13

Volatile Organic Compounds by GC/MS 13

B216580 13

Volatile Organic Compounds by GC/MS 14

B216582 14

Semivolatile Organic Compounds by GC/MS 15

B216603 15

Organochloride Pesticides by GC/ECD 17

B216547 17

Polychlorinated Biphenyls By GC/ECD 18

B216548 18

Metals Analyses (Total) 19

B216614 19

B216615 19

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) 20

B216562 20

Flag/Qualifier Summary 21

Certifications 22

Chain of Custody/Sample Receipt 24

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Land Remediation
74 Hudson River Road
Waterford, NY 12188
ATTN: Keith Decker

REPORT DATE: 11/8/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18K0232

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Saranac Lake - Construction Water

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
OU2-WWTP-Eff-20	18K0232-01	Waste Water		EPA 200.7	
				EPA 200.8	
				EPA 608.3	
				SM21-22 4500 H B	
				SW-846 8270D	
OU2-WWTP-Eff-20	18K0232-02	Waste Water		EPA 624.1	
				SW-846 8260C	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

For method 8270, only PAHs were requested and reported.

SM21-22 4500 H B

Qualifications:

H-05

Holding time was exceeded. pH analysis should be performed immediately at time of sampling. Nominal 15 minute holding time was exceeded.

Analyte & Samples(s) Qualified:

pH
18K0232-01[OU2-WWTP-Eff-20]

SW-846 8270D

Qualifications:

B-05

Data is not affected by elevated level in laboratory blank since sample(s) result is "Not Detected".

Analyte & Samples(s) Qualified:

Naphthalene (SIM)
B216603-BLK1

R-05

Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.

Analyte & Samples(s) Qualified:

Naphthalene (SIM)
18K0232-01[OU2-WWTP-Eff-20], B216603-BLK1, B216603-BS1, B216603-BSD1

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Daren J. Damboragian
Director of Operations

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake - Construction Wate Sample Description: Work Order: 18K0232

Date Received: 11/6/2018

Field Sample #: OU2-WWTP-Eff-20

Sample ID: 18K0232-01 Start Date/Time: 11/5/2018 7:23:00AM

Sample Matrix: Waste Water Stop Date/Time: 11/5/2018 7:35:00AM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene (SIM)	ND	0.30	0.060	µg/L	1		SW-846 8270D	11/6/18	11/7/18 11:07	IMR
Acenaphthylene (SIM)	ND	0.20	0.050	µg/L	1		SW-846 8270D	11/6/18	11/7/18 11:07	IMR
Anthracene (SIM)	ND	0.20	0.040	µg/L	1		SW-846 8270D	11/6/18	11/7/18 11:07	IMR
Benzo(a)anthracene (SIM)	ND	0.050	0.050	µg/L	1		SW-846 8270D	11/6/18	11/7/18 11:07	IMR
Benzo(a)pyrene (SIM)	ND	0.10	0.040	µg/L	1		SW-846 8270D	11/6/18	11/7/18 11:07	IMR
Benzo(b)fluoranthene (SIM)	ND	0.050	0.020	µg/L	1		SW-846 8270D	11/6/18	11/7/18 11:07	IMR
Benzo(g,h,i)perylene (SIM)	ND	0.50	0.070	µg/L	1		SW-846 8270D	11/6/18	11/7/18 11:07	IMR
Benzo(k)fluoranthene (SIM)	ND	0.040	0.020	µg/L	1		SW-846 8270D	11/6/18	11/7/18 11:36	IMR
Chrysene (SIM)	ND	0.20	0.030	µg/L	1		SW-846 8270D	11/6/18	11/7/18 11:07	IMR
Dibenz(a,h)anthracene (SIM)	ND	0.10	0.040	µg/L	1		SW-846 8270D	11/6/18	11/7/18 11:07	IMR
Fluoranthene (SIM)	ND	0.50	0.030	µg/L	1		SW-846 8270D	11/6/18	11/7/18 11:07	IMR
Fluorene (SIM)	ND	1.0	0.040	µg/L	1		SW-846 8270D	11/6/18	11/7/18 11:07	IMR
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.10	0.080	µg/L	1		SW-846 8270D	11/6/18	11/7/18 11:07	IMR
Naphthalene (SIM)	ND	1.0	0.070	µg/L	1	R-05	SW-846 8270D	11/6/18	11/7/18 11:07	IMR
Phenanthrene (SIM)	ND	0.050	0.040	µg/L	1		SW-846 8270D	11/6/18	11/7/18 11:07	IMR
Pyrene (SIM)	ND	1.0	0.030	µg/L	1		SW-846 8270D	11/6/18	11/7/18 11:07	IMR

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	85.0	30-130		11/7/18 11:07
Nitrobenzene-d5	72.2	30-130		11/7/18 11:36
2-Fluorobiphenyl	58.3	30-130		11/7/18 11:07
2-Fluorobiphenyl	39.7	30-130		11/7/18 11:36
p-Terphenyl-d14	66.0	30-130		11/7/18 11:07
p-Terphenyl-d14	59.0	30-130		11/7/18 11:36

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake - Construction Wate Sample Description: Work Order: 18K0232

Date Received: 11/6/2018

Field Sample #: OU2-WWTP-Eff-20

Sample ID: 18K0232-01 Start Date/Time: 11/5/2018 7:23:00AM

Sample Matrix: Waste Water Stop Date/Time: 11/5/2018 7:35:00AM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Endosulfan I [1]	ND	0.010	0.00042	µg/L	1		EPA 608.3	11/6/18	11/7/18 14:30	PJG
Heptachlor epoxide [1]	ND	0.010	0.00080	µg/L	1		EPA 608.3	11/6/18	11/7/18 14:30	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	82.2	30-150		11/7/18 14:30
Decachlorobiphenyl [2]	80.4	30-150		11/7/18 14:30
Tetrachloro-m-xylene [1]	35.1	30-150		11/7/18 14:30
Tetrachloro-m-xylene [2]	33.8	30-150		11/7/18 14:30

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake - Construction Wate Sample Description: Work Order: 18K0232

Date Received: 11/6/2018

Field Sample #: OU2-WWTP-Eff-20

Sample ID: 18K0232-01 Start Date/Time: 11/5/2018 7:23:00AM

Sample Matrix: Waste Water Stop Date/Time: 11/5/2018 7:35:00AM

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.040	0.037	µg/L	1		EPA 608.3	11/6/18	11/7/18 12:38	AYH
Aroclor-1221 [1]	ND	0.040	0.032	µg/L	1		EPA 608.3	11/6/18	11/7/18 12:38	AYH
Aroclor-1232 [1]	ND	0.040	0.040	µg/L	1		EPA 608.3	11/6/18	11/7/18 12:38	AYH
Aroclor-1242 [1]	ND	0.040	0.035	µg/L	1		EPA 608.3	11/6/18	11/7/18 12:38	AYH
Aroclor-1248 [1]	ND	0.040	0.038	µg/L	1		EPA 608.3	11/6/18	11/7/18 12:38	AYH
Aroclor-1254 [1]	ND	0.040	0.021	µg/L	1		EPA 608.3	11/6/18	11/7/18 12:38	AYH
Aroclor-1260 [1]	ND	0.040	0.039	µg/L	1		EPA 608.3	11/6/18	11/7/18 12:38	AYH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	79.0	30-150		11/7/18 12:38
Decachlorobiphenyl [2]	80.2	30-150		11/7/18 12:38
Tetrachloro-m-xylene [1]	78.6	30-150		11/7/18 12:38
Tetrachloro-m-xylene [2]	81.2	30-150		11/7/18 12:38

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake - Construction Wate Sample Description: Work Order: 18K0232

Date Received: 11/6/2018

Field Sample #: OU2-WWTP-Eff-20

Sample ID: 18K0232-01 Start Date/Time: 11/5/2018 7:23:00AM

Sample Matrix: Waste Water Stop Date/Time: 11/5/2018 7:35:00AM

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Chromium	ND	0.0070	0.0061	mg/L	1		EPA 200.7	11/7/18	11/7/18 16:02	QNW
Lead	ND	0.50	0.24	µg/L	1		EPA 200.8	11/7/18	11/8/18 12:29	WSD
Zinc	ND	0.010	0.0052	mg/L	1		EPA 200.7	11/7/18	11/7/18 16:02	QNW

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake - Construction Wate Sample Description: Work Order: 18K0232

Date Received: 11/6/2018

Field Sample #: OU2-WWTP-Eff-20

Sample ID: 18K0232-01 Start Date/Time: 11/5/2018 7:23:00AM

Sample Matrix: Waste Water Stop Date/Time: 11/5/2018 7:35:00AM

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
pH @17.2°C	7.0		pH Units	1	H-05	SM21-22 4500 H B	11/6/18	11/6/18 19:06	LED

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake - Construction Wate Sample Description: Work Order: 18K0232

Date Received: 11/6/2018

Field Sample #: OU2-WWTP-Eff-20

Sample ID: 18K0232-02 Start Date/Time: 11/5/2018 7:23:00AM

Sample Matrix: Waste Water Stop Date/Time: 11/5/2018 7:35:00AM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Isopropylbenzene (Cumene)	ND	1.0	0.12	µg/L	1		SW-846 8260C	11/7/18	11/7/18 9:30	LBD
Toluene	ND	1.0	0.17	µg/L	1		SW-846 8260C	11/7/18	11/7/18 9:30	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	102	70-130		11/7/18 9:30
Toluene-d8	98.1	70-130		11/7/18 9:30
4-Bromofluorobenzene	100	70-130		11/7/18 9:30

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake - Construction Wate Sample Description: Work Order: 18K0232

Date Received: 11/6/2018

Field Sample #: OU2-WWTP-Eff-20

Sample ID: 18K0232-02 Start Date/Time: 11/5/2018 7:23:00AM

Sample Matrix: Waste Water Stop Date/Time: 11/5/2018 7:35:00AM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	1.0	0.34	µg/L	1		EPA 624.1	11/7/18	11/7/18 9:30	LBD
Ethylbenzene	ND	2.0	0.37	µg/L	1		EPA 624.1	11/7/18	11/7/18 9:30	LBD
1,2,4-Trimethylbenzene	ND	1.0	0.34	µg/L	1		EPA 624.1	11/7/18	11/7/18 9:30	LBD
Xylenes (total)	ND	3.0		µg/L	1		EPA 624.1	11/7/18	11/7/18 9:30	LBD
m+p Xylene	ND	2.0	0.65	µg/L	1		EPA 624.1	11/7/18	11/7/18 9:30	LBD
o-Xylene	ND	2.0	0.35	µg/L	1		EPA 624.1	11/7/18	11/7/18 9:30	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	102	70-130		11/7/18 9:30
Toluene-d8	98.1	70-130		11/7/18 9:30
4-Bromofluorobenzene	100	70-130		11/7/18 9:30

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: EPA 200.7-EPA 200.7

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18K0232-01 [OU2-WWTP-Eff-20]	B216614	50.0	50.0	11/07/18

Prep Method: EPA 200.8-EPA 200.8

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18K0232-01 [OU2-WWTP-Eff-20]	B216615	50.0	50.0	11/07/18

Prep Method: SW-846 3510C-EPA 608.3

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18K0232-01 [OU2-WWTP-Eff-20]	B216547	1000	2.00	11/06/18

Prep Method: SW-846 3510C-EPA 608.3

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18K0232-01 [OU2-WWTP-Eff-20]	B216548	1000	2.00	11/06/18

Prep Method: SW-846 5030B-EPA 624.1

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18K0232-02 [OU2-WWTP-Eff-20]	B216582	5	5.00	11/07/18

SM21-22 4500 H B

Lab Number [Field ID]	Batch	Initial [mL]	Date
18K0232-01 [OU2-WWTP-Eff-20]	B216562	50.0	11/06/18

Prep Method: SW-846 5030B-SW-846 8260C

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18K0232-02 [OU2-WWTP-Eff-20]	B216580	5	5.00	11/07/18

Prep Method: SW-846 3510C-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
18K0232-01 [OU2-WWTP-Eff-20]	B216603	1000	1.00	11/06/18
18K0232-01RE1 [OU2-WWTP-Eff-20]	B216603	1000	0.200	11/06/18

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B216580 - SW-846 5030B										
Blank (B216580-BLK1)				Prepared & Analyzed: 11/07/18						
Isopropylbenzene (Cumene)	ND	1.0	µg/L							
Toluene	ND	1.0	µg/L							
Surrogate: 1,2-Dichloroethane-d4	*25.6*		µg/L	25.0		102	70-130			
Surrogate: Toluene-d8	*24.5*		µg/L	25.0		98.0	70-130			
Surrogate: 4-Bromofluorobenzene	*24.9*		µg/L	25.0		99.6	70-130			
LCS (B216580-BS1)				Prepared & Analyzed: 11/07/18						
Isopropylbenzene (Cumene)	19.5	1.0	µg/L	20.0		97.7	70-130			
Toluene	19.7	1.0	µg/L	20.0		98.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	*24.4*		µg/L	25.0		97.5	70-130			
Surrogate: Toluene-d8	*25.3*		µg/L	25.0		101	70-130			
Surrogate: 4-Bromofluorobenzene	*25.6*		µg/L	25.0		103	70-130			
LCS Dup (B216580-BSD1)				Prepared & Analyzed: 11/07/18						
Isopropylbenzene (Cumene)	20.5	1.0	µg/L	20.0		102	70-130	4.60	25	
Toluene	20.3	1.0	µg/L	20.0		101	70-130	2.70	25	
Surrogate: 1,2-Dichloroethane-d4	*25.0*		µg/L	25.0		99.8	70-130			
Surrogate: Toluene-d8	*25.0*		µg/L	25.0		100	70-130			
Surrogate: 4-Bromofluorobenzene	*25.4*		µg/L	25.0		102	70-130			

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B216582 - SW-846 5030B										
Blank (B216582-BLK1)				Prepared & Analyzed: 11/07/18						
Benzene	ND	1.0	µg/L							
Ethylbenzene	ND	2.0	µg/L							
1,2,4-Trimethylbenzene	ND	1.0	µg/L							
Xylenes (total)	ND	3.0	µg/L							
m+p Xylene	ND	2.0	µg/L							
o-Xylene	ND	2.0	µg/L							
Surrogate: 1,2-Dichloroethane-d4	*25.6*		µg/L	25.0		102	70-130			
Surrogate: Toluene-d8	*24.5*		µg/L	25.0		98.0	70-130			
Surrogate: 4-Bromofluorobenzene	*24.9*		µg/L	25.0		99.6	70-130			
LCS (B216582-BS1)				Prepared & Analyzed: 11/07/18						
Benzene	20.1	1.0	µg/L	20.0		100	65-135			
Ethylbenzene	20.8	2.0	µg/L	20.0		104	60-140			
1,2,4-Trimethylbenzene	18.2	1.0	µg/L	20.0		91.2	70-130			
m+p Xylene	42.0	2.0	µg/L	40.0		105	70-130			
o-Xylene	21.0	2.0	µg/L	20.0		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	*25.0*		µg/L	25.0		99.8	70-130			
Surrogate: Toluene-d8	*25.0*		µg/L	25.0		100	70-130			
Surrogate: 4-Bromofluorobenzene	*25.4*		µg/L	25.0		102	70-130			

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B216603 - SW-846 3510C										
Blank (B216603-BLK1)				Prepared: 11/06/18 Analyzed: 11/07/18						
Acenaphthene (SIM)	ND	0.30	µg/L							
Acenaphthylene (SIM)	ND	0.20	µg/L							
Anthracene (SIM)	ND	0.20	µg/L							
Benzo(a)anthracene (SIM)	ND	0.050	µg/L							
Benzo(a)pyrene (SIM)	ND	0.10	µg/L							
Benzo(b)fluoranthene (SIM)	ND	0.050	µg/L							
Benzo(g,h,i)perylene (SIM)	ND	0.50	µg/L							
Benzo(k)fluoranthene (SIM)	ND	0.20	µg/L							
Chrysene (SIM)	ND	0.20	µg/L							
Dibenz(a,h)anthracene (SIM)	ND	0.10	µg/L							
Fluoranthene (SIM)	ND	0.50	µg/L							
Fluorene (SIM)	ND	1.0	µg/L							
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.10	µg/L							
Naphthalene (SIM)	0.12	1.0	µg/L							R-05, J, B-05
Phenanthrene (SIM)	ND	0.050	µg/L							
Pyrene (SIM)	ND	1.0	µg/L							
Surrogate: Nitrobenzene-d5	*74.9*		µg/L	100		74.9	30-130			
Surrogate: 2-Fluorobiphenyl	*51.8*		µg/L	100		51.8	30-130			
Surrogate: p-Terphenyl-d14	*67.3*		µg/L	100		67.3	30-130			
Blank (B216603-BLK2)				Prepared: 11/06/18 Analyzed: 11/07/18						
Benzo(k)fluoranthene (SIM)	ND	0.040	µg/L							
Surrogate: Nitrobenzene-d5	*57.1*		µg/L	100		57.1	30-130			
Surrogate: 2-Fluorobiphenyl	*33.0*		µg/L	100		33.0	30-130			
Surrogate: p-Terphenyl-d14	*57.2*		µg/L	100		57.2	30-130			
LCS (B216603-BS1)				Prepared: 11/06/18 Analyzed: 11/07/18						
Acenaphthene (SIM)	33.2	7.5	µg/L	50.0		66.4	40-140			
Acenaphthylene (SIM)	33.5	5.0	µg/L	50.0		67.0	40-140			
Anthracene (SIM)	37.0	5.0	µg/L	50.0		74.1	40-140			
Benzo(a)anthracene (SIM)	37.4	1.2	µg/L	50.0		74.9	40-140			
Benzo(a)pyrene (SIM)	41.1	2.5	µg/L	50.0		82.2	40-140			
Benzo(b)fluoranthene (SIM)	41.8	1.2	µg/L	50.0		83.7	40-140			
Benzo(g,h,i)perylene (SIM)	41.0	12	µg/L	50.0		81.9	40-140			
Benzo(k)fluoranthene (SIM)	40.9	5.0	µg/L	50.0		81.8	40-140			
Chrysene (SIM)	36.8	5.0	µg/L	50.0		73.5	40-140			
Dibenz(a,h)anthracene (SIM)	44.3	2.5	µg/L	50.0		88.6	40-140			
Fluoranthene (SIM)	36.8	12	µg/L	50.0		73.6	40-140			
Fluorene (SIM)	34.8	25	µg/L	50.0		69.6	40-140			
Indeno(1,2,3-cd)pyrene (SIM)	44.4	2.5	µg/L	50.0		88.9	40-140			
Naphthalene (SIM)	29.6	25	µg/L	50.0		59.1	40-140			R-05
Phenanthrene (SIM)	36.4	1.2	µg/L	50.0		72.9	40-140			
Pyrene (SIM)	35.0	25	µg/L	50.0		70.1	40-140			
Surrogate: Nitrobenzene-d5	*74.4*		µg/L	100		74.4	30-130			
Surrogate: 2-Fluorobiphenyl	*57.1*		µg/L	100		57.1	30-130			
Surrogate: p-Terphenyl-d14	*63.5*		µg/L	100		63.5	30-130			

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD		RPD Limit	Notes	
Batch B216603 - SW-846 3510C												
LCS Dup (B216603-BSD1)				Prepared: 11/06/18 Analyzed: 11/07/18								
Acenaphthene (SIM)	27.7	7.5	µg/L	50.0		55.4	40-140	18.2		20		
Acenaphthylene (SIM)	28.2	5.0	µg/L	50.0		56.4	40-140	17.2		20		
Anthracene (SIM)	31.7	5.0	µg/L	50.0		63.4	40-140	15.5		20		
Benzo(a)anthracene (SIM)	32.0	1.2	µg/L	50.0		64.0	40-140	15.8		20		
Benzo(a)pyrene (SIM)	34.8	2.5	µg/L	50.0		69.6	40-140	16.6		20		
Benzo(b)fluoranthene (SIM)	35.4	1.2	µg/L	50.0		70.9	40-140	16.6		20		
Benzo(g,h,i)perylene (SIM)	34.6	12	µg/L	50.0		69.3	40-140	16.7		20		
Benzo(k)fluoranthene (SIM)	34.7	5.0	µg/L	50.0		69.4	40-140	16.4		20		
Chrysene (SIM)	31.4	5.0	µg/L	50.0		62.7	40-140	15.9		20		
Dibenz(a,h)anthracene (SIM)	37.6	2.5	µg/L	50.0		75.2	40-140	16.3		20		
Fluoranthene (SIM)	31.0	12	µg/L	50.0		62.0	40-140	17.0		20		
Fluorene (SIM)	29.2	25	µg/L	50.0		58.4	40-140	17.3		20		
Indeno(1,2,3-cd)pyrene (SIM)	37.6	2.5	µg/L	50.0		75.2	40-140	16.7		20		‡
Naphthalene (SIM)	24.1	25	µg/L	50.0		48.2	40-140	**20.2**	*	20	R-05, J	
Phenanthrene (SIM)	31.1	1.2	µg/L	50.0		62.2	40-140	15.8		20		
Pyrene (SIM)	30.3	25	µg/L	50.0		60.6	40-140	14.5		20		
Surrogate: Nitrobenzene-d5	*59.1*		µg/L	100		59.1	30-130					
Surrogate: 2-Fluorobiphenyl	*44.5*		µg/L	100		44.5	30-130					
Surrogate: p-Terphenyl-d14	*52.1*		µg/L	100		52.1	30-130					

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B216547 - SW-846 3510C										
Blank (B216547-BLK1)				Prepared: 11/06/18 Analyzed: 11/07/18						
Endosulfan I	ND	0.010	µg/L							
Endosulfan I [2C]	ND	0.010	µg/L							
Heptachlor Epoxide	ND	0.010	µg/L							
Heptachlor Epoxide [2C]	ND	0.010	µg/L							
Surrogate: Decachlorobiphenyl	*0.348*		µg/L	0.400		87.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.328*		µg/L	0.400		82.0	30-150			
Surrogate: Tetrachloro-m-xylene	*0.149*		µg/L	0.400		37.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.145*		µg/L	0.400		36.2	30-150			
LCS (B216547-BS1)				Prepared: 11/06/18 Analyzed: 11/07/18						
Endosulfan I	0.60	0.050	µg/L	1.00		59.7	45-153			
Endosulfan I [2C]	0.57	0.050	µg/L	1.00		57.1	45-153			
Heptachlor Epoxide	0.60	0.050	µg/L	1.00		60.1	37-142			
Heptachlor Epoxide [2C]	0.53	0.050	µg/L	1.00		52.8	37-142			
Surrogate: Decachlorobiphenyl	*1.73*		µg/L	2.00		86.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.60*		µg/L	2.00		79.8	30-150			
Surrogate: Tetrachloro-m-xylene	*0.801*		µg/L	2.00		40.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.778*		µg/L	2.00		38.9	30-150			
LCS Dup (B216547-BSD1)				Prepared: 11/06/18 Analyzed: 11/07/18						
Endosulfan I	0.62	0.050	µg/L	1.00		62.3	45-153	4.28		
Endosulfan I [2C]	0.60	0.050	µg/L	1.00		59.9	45-153	4.69		
Heptachlor Epoxide	0.64	0.050	µg/L	1.00		63.6	37-142	5.61		
Heptachlor Epoxide [2C]	0.55	0.050	µg/L	1.00		55.2	37-142	4.44		
Surrogate: Decachlorobiphenyl	*1.83*		µg/L	2.00		91.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.68*		µg/L	2.00		83.8	30-150			
Surrogate: Tetrachloro-m-xylene	*0.825*		µg/L	2.00		41.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.805*		µg/L	2.00		40.2	30-150			

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B216548 - SW-846 3510C										
Blank (B216548-BLK1)				Prepared: 11/06/18 Analyzed: 11/07/18						
Aroclor-1016	ND	0.040	µg/L							
Aroclor-1016 [2C]	ND	0.040	µg/L							
Aroclor-1221	ND	0.040	µg/L							
Aroclor-1221 [2C]	ND	0.040	µg/L							
Aroclor-1232	ND	0.040	µg/L							
Aroclor-1232 [2C]	ND	0.040	µg/L							
Aroclor-1242	ND	0.040	µg/L							
Aroclor-1242 [2C]	ND	0.040	µg/L							
Aroclor-1248	ND	0.040	µg/L							
Aroclor-1248 [2C]	ND	0.040	µg/L							
Aroclor-1254	ND	0.040	µg/L							
Aroclor-1254 [2C]	ND	0.040	µg/L							
Aroclor-1260	ND	0.040	µg/L							
Aroclor-1260 [2C]	ND	0.040	µg/L							
Surrogate: Decachlorobiphenyl	*0.338*		µg/L	0.400		84.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.344*		µg/L	0.400		86.1	30-150			
Surrogate: Tetrachloro-m-xylene	*0.346*		µg/L	0.400		86.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.358*		µg/L	0.400		89.6	30-150			
LCS (B216548-BS1)				Prepared: 11/06/18 Analyzed: 11/07/18						
Aroclor-1016	0.45	0.20	µg/L	0.500		90.1	50-140			
Aroclor-1016 [2C]	0.43	0.20	µg/L	0.500		85.4	50-140			
Aroclor-1260	0.43	0.20	µg/L	0.500		86.0	8-140			
Aroclor-1260 [2C]	0.43	0.20	µg/L	0.500		85.8	8-140			
Surrogate: Decachlorobiphenyl	*1.34*		µg/L	2.00		67.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.36*		µg/L	2.00		68.1	30-150			
Surrogate: Tetrachloro-m-xylene	*1.68*		µg/L	2.00		83.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.74*		µg/L	2.00		87.2	30-150			
LCS Dup (B216548-BSD1)				Prepared: 11/06/18 Analyzed: 11/07/18						
Aroclor-1016	0.40	0.20	µg/L	0.500		79.2	50-140	12.9		
Aroclor-1016 [2C]	0.36	0.20	µg/L	0.500		73.0	50-140	15.7		
Aroclor-1260	0.38	0.20	µg/L	0.500		76.2	8-140	12.0		
Aroclor-1260 [2C]	0.38	0.20	µg/L	0.500		75.9	8-140	12.3		
Surrogate: Decachlorobiphenyl	*1.14*		µg/L	2.00		57.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.16*		µg/L	2.00		57.9	30-150			
Surrogate: Tetrachloro-m-xylene	*1.43*		µg/L	2.00		71.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.49*		µg/L	2.00		74.5	30-150			

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B216614 - EPA 200.7										
Blank (B216614-BLK1)				Prepared & Analyzed: 11/07/18						
Chromium	ND	0.0070	mg/L							
Zinc	ND	0.010	mg/L							
LCS (B216614-BS1)				Prepared & Analyzed: 11/07/18						
Chromium	0.491	0.0070	mg/L	0.500		98.2	85-115			
Zinc	0.979	0.010	mg/L	1.00		97.9	85-115			
LCS Dup (B216614-BSD1)				Prepared & Analyzed: 11/07/18						
Chromium	0.499	0.0070	mg/L	0.500		99.8	85-115	1.58	20	
Zinc	0.995	0.010	mg/L	1.00		99.5	85-115	1.64	20	
Batch B216615 - EPA 200.8										
Blank (B216615-BLK1)				Prepared: 11/07/18 Analyzed: 11/08/18						
Lead	ND	0.50	µg/L							
LCS (B216615-BS1)				Prepared: 11/07/18 Analyzed: 11/08/18						
Lead	472	5.0	µg/L	500		94.3	85-115			
LCS Dup (B216615-BSD1)				Prepared: 11/07/18 Analyzed: 11/08/18						
Lead	464	5.0	µg/L	500		92.7	85-115	1.70	20	

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B216562 - SM21-22 4500 H B										
LCS (B216562-BS1)				Prepared & Analyzed: 11/06/18						
pH	6.02		pH Units	6.00		100	90-110			

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
B-05	Data is not affected by elevated level in laboratory blank since sample(s) result is "Not Detected".
H-05	Holding time was exceeded. pH analysis should be performed immediately at time of sampling. Nominal 15 minute holding time was exceeded.
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).
R-05	Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
EPA 200.7 in Water	
Chromium	CT,MA,NH,NY,RI,NC,ME,VA
Zinc	CT,MA,NH,NY,RI,NC,ME,VA
EPA 200.8 in Water	
Lead	CT,MA,NH,NY,RI,NC,ME,VA
EPA 608.3 in Water	
Aroclor-1016	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1016 [2C]	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1221	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1221 [2C]	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1232	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1232 [2C]	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1242	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1242 [2C]	CT,MA,NH,NY,RI,NC,ME,VA
Endosulfan I	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1248	CT,MA,NH,NY,RI,NC,ME,VA
Endosulfan I [2C]	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1248 [2C]	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1254	CT,MA,NH,NY,RI,NC,ME,VA
Heptachlor Epoxide	CT,MA,NH,NY,RI,NC,ME,VA
Heptachlor Epoxide [2C]	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1254 [2C]	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1260	CT,MA,NH,NY,RI,NC,ME,VA
Aroclor-1260 [2C]	CT,MA,NH,NY,RI,NC,ME,VA
EPA 624.1 in Water	
Benzene	CT,NY,RI,NC,MA,NH
Ethylbenzene	CT,NY,RI,NC,MA,NH
Toluene	CT,NY,RI,NC,MA,NH
1,2,4-Trimethylbenzene	MA
Xylenes (total)	NY,MA,NH
m+p Xylene	CT,NY,RI,NC,MA,NH
o-Xylene	CT,NY,RI,NC,MA,NH
SM21-22 4500 H B in Water	
pH	CT,MA,RI
SW-846 8260C in Water	
Benzene	CT,ME,NH,VA,NY
Ethylbenzene	CT,ME,NH,VA,NY
Isopropylbenzene (Cumene)	ME,VA,NY
Toluene	CT,ME,NH,VA,NY
1,2,4-Trimethylbenzene	ME,VA,NY
m+p Xylene	CT,ME,NH,VA,NY
o-Xylene	CT,ME,NH,VA,NY
Xylenes (total)	NY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	03/1/2020
MA	Massachusetts DEP	M-MA100	06/30/2019
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2019
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2019
RI	Rhode Island Department of Health	LAO00112	12/30/2018
NC	North Carolina Div. of Water Quality	652	12/31/2018
NJ	New Jersey DEP	MA007 NELAP	06/30/2019
FL	Florida Department of Health	E871027 NELAP	06/30/2019
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2019
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2018
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2019
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2019
NC-DW	North Carolina Department of Health	25703	07/31/2019

18K0232

con-test® ANALYTICAL LABORATORY

Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com

http://www.contestlabs.com Doc # 380 Rev 1_03242017

CHAIN OF CUSTODY RECORD (New York)

39 Spruce Street
East Longmeadow, MA 01028

Page _____ of _____

Company Name:	LAND remediation
Address:	74 Hudson River Road Waterford, NY
Phone:	
Project Name:	NYSDEC Saranac Lake Gas Co.
Project Location:	Saranac Lake Construction Water
Project Number:	
Project Manager:	Matthew Warren
Con-Test Quote Name/Number:	
Invoice Recipient:	mjw@land-remediation.com
Sampled By:	Vaughn Nelson

Requested Turnaround Time
7-Day ☐ 10-Day ☐
Due Date:

Rush-Approval Required
1-Day ☑ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
CLP Like Data Pkg Required: ☐
Email To: mjw@land-remediation.com
Fax To #:

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	BOD-5	TDS	TSS	Oil & Grease 1664	8270 SVOC - PAH SIM	VOC 624.1 - (See Below)	VOC 8260 - Isopropyl Benzene & Toluene Only	608 PCB - 608 Pest - Endosulfan I, Heptachlor Epoxide	Metals- Pb, Zn, Cr.	pH	# of Containers	[2] Preservation Code	[3] Container Code
1	OU2-WWTP-Eff-20	11/5/18 7:23am	11/5/18 7:35am	x		WW	L	x	x	x	x	x		x	x	x	x			
2	OU2-WWTP-Eff-20	" "	" "		x	WW	L						x							

ANALYSIS REQUESTED

Dissolved Metals Samples
☐ Field Filtered
☐ Lab to Filter

Orthophosphate Samples
☐ Field Filtered
☐ Lab to Filter

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define)

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

[3] **Container Codes:**
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Comments: VOC 624.1 - Benzene, Ethyl Benzene, Xylenes Total, and 124 TMB

48 Hour TAT TDS/TSS ; 5 day TAT BOD and Oil & Grease

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time: 11-6-18
Received by: (signature)	Date/Time: 11-6-18 8:15am
Relinquished by: (signature)	Date/Time: 11-6-18 12:15pm
Received by: (signature) Paul Ravet	Date/Time: 11-6-18 12:15
Relinquished by: (signature) Paul Ravet	Date/Time: 11-6-18 15:15
Received by: (signature) 2-1	Date/Time: 11/6/18 15:15

Program & Regulatory Information
☐ AWQ STDS ☐ NY TOGS
☐ NYC Sewer Discharge ☐ NY CP-51
☐ Part 360 GW (Landfill)
☐ NY Restricted Use
☐ NY Unrestricted Use
☐ NY Part 375
Other:

Deliverables
☐ Enhanced Data Package
☐ NYSDEC EQuIS EDD
☐ EQuIS (Standard) EDD
☐ NY Regulatory EDD
☐ NY Regs Hits-Only EDD
Other:

Project Entity
☑ Government ☐ Municipality ☐ MWRA ☐ WRTA
☐ Federal ☐ 21 J ☐ School
☐ City ☐ Brownfield ☐ MBTA

Other
☐ Chromatogram
☐ *AIHA-LAP,LLC*

PCB ONLY
☐ Soxhlet
☐ Non Soxhlet

Table of Contents

I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples_____

con-test® ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client LAND Remediation

Received By RAP Date 11/6/18 Time 15:15

How were the samples received? In Cooler T No Cooler _____ On Ice T No Ice _____

Direct from Sampling _____ Ambient _____ Melted Ice _____

By Gun # 557 Actual Temp - 2.1

Were samples within Temperature? 2-6°C T By Blank # _____ Actual Temp - _____

Was Custody Seal Intact? NA Were Samples Tampered with? NA

Was COC Relinquished ? T Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? T Were samples received within holding time? T

Did COC include all pertinent Information? Client T Analysis T Sampler Name T

Project T ID's T Collection Dates/Times T

Are Sample labels filled out and legible? T

Are there Lab to Filters? F Who was notified? _____

Are there Rushes? T Who was notified? Natalia, Cate, Luke, Mark Fkhive

Are there Short Holds? T Who was notified? Luke

Is there enough Volume? T

Is there Headspace where applicable? F MS/MSD? F

Proper Media/Containers Used? T Is splitting samples required? F

Were trip blanks received? F On COC? F

Do all samples have the proper pH? Acid pH<2 Base _____

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.	6	1 Liter Plastic		16 oz Amb.	
HCL-	3	500 mL Amb.		500 mL Plastic	1	8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic	1	4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Comments:

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

November 8, 2018

Keith Decker
Land Remediation
74 Hudson River Road
Waterford, NY 12188

Project Location: Saranac Lake - Construction Water
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 18K0233

Enclosed are results of analyses for samples received by the laboratory on November 6, 2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Aaron L. Benoit
Project Manager

Table of Contents

Sample Summary 3

Case Narrative 4

Sample Results 5

18K0233-01 5

Sample Preparation Information 7

QC Data 8

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) 8

B216590 8

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Dissolved) 9

B216588 9

Flag/Qualifier Summary 10

Certifications 11

Chain of Custody/Sample Receipt 12

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Land Remediation
74 Hudson River Road
Waterford, NY 12188
ATTN: Keith Decker

REPORT DATE: 11/8/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18K0233

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Saranac Lake - Construction Water

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
OU2-WWTP-Eff-20	18K0233-01	Waste Water		SM21-22 2540C SM21-22 2540D	

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Tod E. Kopyscinski
Laboratory Director

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake - Construction Wate Sample Description: Work Order: 18K0233

Date Received: 11/6/2018

Field Sample #: OU2-WWTP-Eff-20

Sample ID: 18K0233-01 Start Date/Time: 11/5/2018 7:23:00AM

Sample Matrix: Waste Water Stop Date/Time: 11/5/2018 7:35:00AM

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Suspended Solids	ND	1.4	mg/L	1		SM21-22 2540D	11/7/18	11/7/18 11:55	LL

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake - Construction Wate Sample Description: Work Order: 18K0233

Date Received: 11/6/2018

Field Sample #: OU2-WWTP-Eff-20

Sample ID: 18K0233-01 Start Date/Time: 11/5/2018 7:23:00AM

Sample Matrix: Waste Water Stop Date/Time: 11/5/2018 7:35:00AM

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Dissolved)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Dissolved Solids	280	10	mg/L	1		SM21-22 2540C	11/7/18	11/7/18 12:20	LL

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

SM21-22 2540C

Lab Number [Field ID]	Batch	Initial [mL]	Date
18K0233-01 [OU2-WWTP-Eff-20]	B216588	50.0	11/07/18

SM21-22 2540D

Lab Number [Field ID]	Batch	Initial [mL]	Date
18K0233-01 [OU2-WWTP-Eff-20]	B216590	350	11/07/18

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B216590 - SM21-22 2540D										
Blank (B216590-BLK1)				Prepared & Analyzed: 11/07/18						
Total Suspended Solids	ND	2.5	mg/L							
LCS (B216590-BS1)				Prepared & Analyzed: 11/07/18						
Total Suspended Solids	190	10	mg/L	200		95.0	64.3-117			

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Dissolved) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B216588 - SM21-22 2540C										
Blank (B216588-BLK1)				Prepared & Analyzed: 11/07/18						
Total Dissolved Solids	ND	10	mg/L							
LCS (B216588-BS1)				Prepared & Analyzed: 11/07/18						
Total Dissolved Solids	210	10	mg/L	293		73.0	61.4-114			

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level

Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.

No results have been blank subtracted unless specified in the case narrative section.

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SM21-22 2540C in Water	
Total Dissolved Solids	CT,MA,NH,NY,RI,NC,ME,VA
SM21-22 2540D in Water	
Total Suspended Solids	CT,MA,NH,NY,RI,NC,ME,VA

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	03/1/2020
MA	Massachusetts DEP	M-MA100	06/30/2019
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2019
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2019
RI	Rhode Island Department of Health	LAO00112	12/30/2018
NC	North Carolina Div. of Water Quality	652	12/31/2018
NJ	New Jersey DEP	MA007 NELAP	06/30/2019
FL	Florida Department of Health	E871027 NELAP	06/30/2019
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2019
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2018
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2019
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2019
NC-DW	North Carolina Department of Health	25703	07/31/2019

18K0233

con-test® ANALYTICAL LABORATORY

Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com

http://www.contestlabs.com Doc # 380 Rev 1_03242017

CHAIN OF CUSTODY RECORD (New York)

39 Spruce Street
East Longmeadow, MA 01028

Company Name:	LAND remediation
Address:	74 Hudson River Road Waterford, NY
Phone:	
Project Name:	NYSDEC Saranac Lake Gas Co.
Project Location:	Saranac Lake Construction Water
Project Number:	
Project Manager:	Matthew Warren
Con-Test Quote Name/Number:	
Invoice Recipient:	mjw@land-remediation.com
Sampled By:	Vaughn Nelson

Requested Turnaround Time
7-Day ☐ 10-Day ☐
Due Date:

Rush-Approval Required
1-Day ☑ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
CLP Like Data Pkg Required: ☐
Email To: mjw@land-remediation.com
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code	BOD-5	TDS	TSS	Oil & Grease 1664	8270 SVOC - PAH SIM	VOC 624.1 - (See Below)	VOC 8260 - Isopropyl Benzene & Toluene Only	608 PCB - 608 Pest - Endosulfan I, Heptachlor Epoxide	Metals- Pb, Zn, Cr.	pH	# of Containers
1	OU2-WWTP-Eff-20	11/5/18 7:23am	11/5/18 7:35am	x		WW	L	x	x	x	x	x		x	x	x	x	
	OU2-WWTP-Eff-20	" "	" "		x	WW	L						x					

[2] Preservation Code
[3] Container Code

Dissolved Metals Samples
☐ Field Filtered
☐ Lab to Filter

Orthophosphate Samples
☐ Field Filtered
☐ Lab to Filter

Comments: VOC 624.1 - Benzene, Ethyl Benzene, Xylenes Total, and 124 TMB

48 Hour TAT TDS/TSS ; 5 day TAT BOD and Oil & Grease

Please use the following codes to indicate possible sample concentration within the **Conc Code** column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define)

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

[3] **Container Codes:**
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Relinquished by: (signature)	Date/Time: 11-6-18
Received by: (signature)	Date/Time: 11-6-18 8:15 Am
Relinquished by: (signature)	Date/Time: 11-6-18 12:15 Pm
Received by: (signature) Paul Parent	Date/Time: 11-6-18 12:15
Relinquished by: (signature) Paul Parent	Date/Time: 11-6-18 15:15
Received by: (signature) 2-1	Date/Time: 11/6/18 15:15

Program & Regulatory Information
☐ AWQ STDS ☐ NY TOGS
☐ NYC Sewer Discharge ☐ NY CP-51
☐ Part 360 GW (Landfill)
☐ NY Restricted Use
☐ NY Unrestricted Use
☐ NY Part 375
Other:

Deliverables
☐ Enhanced Data Package
☐ NYSDEC EQuIS EDD
☐ EQuIS (Standard) EDD
☐ NY Regulatory EDD
☐ NY Regs Hits-Only EDD
Other:

Project Entity
☑ Government ☐ Municipality ☐ MWRA ☐ WRTA
☐ Federal ☐ 21 J ☐ School
☐ City ☐ Brownfield ☐ MBTA

Other
☐ Chromatogram
☐ *AIHA-LAP,LLC*

PCB ONLY
☐ Soxhlet
☐ Non Soxhlet

Table of Contents

I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples_____

con-test® ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client LAND Remediation

Received By RAP Date 11/6/18 Time 1515

How were the samples received? In Cooler T No Cooler _____ On Ice T No Ice _____ Direct from Sampling _____ Ambient _____ Melted Ice _____

Were samples within Temperature? 2-6°C T By Gun # 557 Actual Temp - 2.1 By Blank # _____ Actual Temp - _____

Was Custody Seal Intact? NA Were Samples Tampered with? NA

Was COC Relinquished ? T Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? T Were samples received within holding time? T

Did COC include all pertinent Information? Client T Project T Analysis T ID's T Sampler Name T Collection Dates/Times T

Are Sample labels filled out and legible? T

Are there Lab to Filters? F Who was notified? _____

Are there Rushes? T Who was notified? Luke

Are there Short Holds? T Who was notified? Luke

Is there enough Volume? T

Is there Headspace where applicable? F MS/MSD? F

Proper Media/Containers Used? T Is splitting samples required? F

Were trip blanks received? F On COC? F

Do all samples have the proper pH? NA Acid _____ Base _____

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic	1	8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Comments:

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

November 13, 2018

Keith Decker
Land Remediation
74 Hudson River Road
Waterford, NY 12188

Project Location: Saranac Lake - Construction Water
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 18K0234

Enclosed are results of analyses for samples received by the laboratory on November 6, 2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Aaron L. Benoit
Project Manager

Table of Contents

Sample Summary 3

Case Narrative 4

Sample Results 5

18K0234-01 5

Sample Preparation Information 6

QC Data 7

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) 7

B216678 7

B216802 7

Flag/Qualifier Summary 8

Certifications 9

Chain of Custody/Sample Receipt 10

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Land Remediation
74 Hudson River Road
Waterford, NY 12188
ATTN: Keith Decker

REPORT DATE: 11/13/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 18K0234

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Saranac Lake - Construction Water

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
OU2-WWTP-Eff-20	18K0234-01	Waste Water		EPA 1664B SM 21-22 5210B	

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

SM 21-22 5210B

Qualifications:

W-15

Test replicates show more than 30% difference between values.

Analyte & Samples(s) Qualified:

Biochemical Oxygen Demand
18K0234-01[OU2-WWTP-Eff-20]

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Lisa A. Worthington
Project Manager

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake - Construction Wate Sample Description: Work Order: 18K0234

Date Received: 11/6/2018

Field Sample #: OU2-WWTP-Eff-20

Sample ID: 18K0234-01 Start Date/Time: 11/5/2018 7:23:00AM

Sample Matrix: Waste Water Stop Date/Time: 11/5/2018 7:35:00AM

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Biochemical Oxygen Demand	19	4.0	mg/L	1	W-15	SM 21-22 5210B	11/7/18	11/7/18 1:33	LED
Oil & Grease (HEM)	ND	1.4	mg/L	1		EPA 1664B	11/9/18	11/9/18 14:00	LL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

EPA 1664B

Lab Number [Field ID]	Batch	Initial [mL]	Date
18K0234-01 [OU2-WWTP-Eff-20]	B216802	1000	11/09/18

SM 21-22 5210B

Lab Number [Field ID]	Batch	Initial [mL]	Date
18K0234-01 [OU2-WWTP-Eff-20]	B216678	150	11/07/18

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B216678 - SM 21-22 5210B										
Blank (B216678-BLK1)				Prepared & Analyzed: 11/07/18						
Biochemical Oxygen Demand	ND	2.0	mg/L							
LCS (B216678-BS1)				Prepared & Analyzed: 11/07/18						
Biochemical Oxygen Demand	190	2.0	mg/L	198		94.1	85-115			
Batch B216802 - EPA 1664B										
Blank (B216802-BLK1)				Prepared & Analyzed: 11/09/18						
Oil & Grease (HEM)	ND	1.4	mg/L							
Blank (B216802-BLK2)				Prepared & Analyzed: 11/09/18						
Oil & Grease (HEM)	ND	56	mg/L							
LCS (B216802-BS1)				Prepared & Analyzed: 11/09/18						
Oil & Grease (HEM)	18		mg/L	20.0		90.0	78-114			
LCS (B216802-BS2)				Prepared & Analyzed: 11/09/18						
Oil & Grease (HEM)	720		mg/L	800		89.5	78-114			

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
W-15	Test replicates show more than 30% difference between values.

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
EPA 1664B in Water	
Oil & Grease (HEM)	CT,MA,NH,NY,RI,NC,ME,VA
SM 21-22 5210B in Water	
Biochemical Oxygen Demand	CT,MA,NH,NY,RI,ME,VA,NC

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	03/1/2020
MA	Massachusetts DEP	M-MA100	06/30/2019
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2019
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2019
RI	Rhode Island Department of Health	LAO00112	12/30/2018
NC	North Carolina Div. of Water Quality	652	12/31/2018
NJ	New Jersey DEP	MA007 NELAP	06/30/2019
FL	Florida Department of Health	E871027 NELAP	06/30/2019
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2019
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2018
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2019
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2019
NC-DW	North Carolina Department of Health	25703	07/31/2019

18K0234

con-test ANALYTICAL LABORATORY

http://www.contestlabs.com

Doc # 380 Rev 1_03242017

Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com

39 Spruce Street
East Longmeadow, MA 01028

CHAIN OF CUSTODY RECORD (New York)

Company Name:	LAND remediation
Address:	74 Hudson River Road Waterford, NY
Phone:	
Project Name:	NYSDEC Saranac Lake Gas Co.
Project Location:	Saranac Lake Construction Water
Project Number:	
Project Manager:	Matthew Warren
Con-Test Quote Name/Number:	
Invoice Recipient:	mjw@land-remediation.com
Sampled By:	Vaughn Nelson

Requested Turnaround Time
7-Day ☐ 10-Day ☐
Due Date:

Rush-Approval Required
1-Day ☑ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
CLP Like Data Pkg Required: ☐
Email To: mjw@land-remediation.com
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	BOD-5	TDS	TSS	Oil & Grease 1664	8270 SVOC - PAH SIM	VOC 624.1 - (See Below)	VOC 8260 - Isopropyl Benzene & Toluene Only	608 PCB - 608 Pest - Endosulfan I, Heptachlor Epoxide	Metals- Pb, Zn, Cr.	pH	# of Containers
1	OU2-WWTP-Eff-20	11/5/18 7:23am	11/5/18 7:35am	x		WW	L	x	x	x	x	x		x	x	x	x	
	OU2-WWTP-Eff-20	" "	" "		x	WW	L						x					

[2] Preservation Code
[3] Container Code

Dissolved Metals Samples
☐ Field Filtered
☐ Lab to Filter

Orthophosphate Samples
☐ Field Filtered
☐ Lab to Filter

[1] Matrix Codes:
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define)

[2] Preservation Codes:
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

[3] Container Codes:
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Comments: VOC 624.1 - Benzene, Ethyl Benzene, Xylenes Total, and 124 TMB

48 Hour TAT TDS/TSS ; 5 day TAT BOD and Oil & Grease

Please use the following codes to indicate possible sample concentration within the **Conc Code** column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

	Date/Time:
Relinquished by: (signature)	11-6-18
Received by: (signature)	11-6-18 8:15am
Relinquished by: (signature)	11-6-18 12:15pm
Received by: (signature)	11-6-18 13:15
Relinquished by: (signature)	11-6-18 15:15
Received by: (signature) 2-1	11/6/18 15:15

Program & Regulatory Information
☐ AWQ STDS ☐ NY TOGS
☐ NYC Sewer Discharge ☐ NY CP-51
☐ Part 360 GW (Landfill)
☐ NY Restricted Use
☐ NY Unrestricted Use
☐ NY Part 375
Other:

Deliverables
☐ Enhanced Data Package
☐ NYSDEC EQuIS EDD
☐ EQuIS (Standard) EDD
☐ NY Regulatory EDD
☐ NY Regs Hits-Only EDD
Other:

NELAC and AIHA-LAP, LLC Accredited

Project Entity
☑ Government ☐ Municipality ☐ MWRA ☐ WRTA
☐ Federal ☐ 21 J ☐ School
☐ City ☐ Brownfield ☐ MBTA

Other
☐ Chromatogram
☐ *AIHA-LAP,LLC*

PCB ONLY
☐ Soxhlet
☐ Non Soxhlet

Table of Contents

I Have Not Confirmed Sample Container Numbers With Lab Staff Before Relinquishing Over Samples_____

con-test® ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client LAND Remediation

Received By RAP Date 11/6/18 Time 15:05

How were the samples received? In Cooler T No Cooler _____ On Ice T No Ice _____ Direct from Sampling _____ Ambient _____ Melted Ice _____

Were samples within Temperature? 2-6°C T By Gun # 537 Actual Temp - 2.1 By Blank # _____ Actual Temp - _____

Was Custody Seal Intact? NA Were Samples Tampered with? NA

Was COC Relinquished ? T Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? T Were samples received within holding time? T

Did COC include all pertinent Information? Client T Project T Analysis ID's T Sampler Name T Collection Dates/Times T

Are Sample labels filled out and legible? T

Are there Lab to Filters? F Who was notified? _____

Are there Rushes? F Who was notified? _____

Are there Short Holds? T Who was notified? Luke

Is there enough Volume? T

Is there Headspace where applicable? F MS/MSD? F

Proper Media/Containers Used? T Is splitting samples required? F

Were trip blanks received? F On COC? F

Do all samples have the proper pH? NA Acid _____ Base _____

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.	2	1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic	1	8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Comments: