PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196275

Client: **RocTerra**

Project Reference: N/A

Sample Identifier: Sump
Lab Sample ID: 196275-01 **Date Sampled:** 12/19/2019
Matrix: Wastewater **Date Received:** 12/19/2019

PCBs

Analyte	Result	Units	Qualifier	Date Analyzed
PCB-1016	< 10.0	ug/L		12/26/2019 14:24
PCB-1221	< 10.0	ug/L		12/26/2019 14:24
PCB-1232	< 10.0	ug/L		12/26/2019 14:24
PCB-1242	< 10.0	ug/L		12/26/2019 14:24
PCB-1248	< 10.0	ug/L		12/26/2019 14:24
PCB-1254	< 10.0	ug/L		12/26/2019 14:24
PCB-1260	< 10.0	ug/L		12/26/2019 14:24

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
Tetrachloro-m-xylene	NC	14.8 - 92.8		12/26/2019 14:24

Reporting limit elevated due to sample matrix
Method Reference(s): EPA 608.3
Preparation Date: 12/23/2019

Report Prepared Tuesday, December 31, 2019

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196275

Client: **RocTerra**

Project Reference: N/A

Sample Identifier:	Sump		
Lab Sample ID:	196275-01	**Date Sampled:**	12/19/2019
Matrix:	Wastewater	**Date Received:**	12/19/2019

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,2,4-Trichlorobenzene	< 500	ug/L		12/26/2019 22:55
2,2-Oxybis (1-chloropropane)	< 500	ug/L		12/26/2019 22:55
2,4,6-Trichlorophenol	< 500	ug/L		12/26/2019 22:55
2,4-Dichlorophenol	< 500	ug/L		12/26/2019 22:55
2,4-Dimethylphenol	< 1000	ug/L		12/26/2019 22:55
2,4-Dinitrophenol	< 1000	ug/L		12/26/2019 22:55
2,4-Dinitrotoluene	< 500	ug/L		12/26/2019 22:55
2,6-Dinitrotoluene	< 500	ug/L		12/26/2019 22:55
2-Chloronaphthalene	< 500	ug/L		12/26/2019 22:55
2-Chlorophenol	< 500	ug/L		12/26/2019 22:55
2-Nitrophenol	< 500	ug/L		12/26/2019 22:55
3,3'-Dichlorobenzidine	< 500	ug/L		12/26/2019 22:55
4,6-Dinitro-2-methylphenol	< 1000	ug/L		12/26/2019 22:55
4-Bromophenyl phenyl ether	< 500	ug/L		12/26/2019 22:55
4-Chloro-3-methylphenol	< 500	ug/L		12/26/2019 22:55
4-Chlorophenyl phenyl ether	< 500	ug/L		12/26/2019 22:55
4-Nitrophenol	< 1000	ug/L		12/26/2019 22:55
Acenaphthene	< 500	ug/L		12/26/2019 22:55
Acenaphthylene	< 500	ug/L		12/26/2019 22:55
Anthracene	< 500	ug/L		12/26/2019 22:55
Benzidine	< 1000	ug/L		12/26/2019 22:55
Benzo (a) anthracene	< 500	ug/L		12/26/2019 22:55
Benzo (a) pyrene	< 500	ug/L		12/26/2019 22:55

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ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196275

Client: **RocTerra**

Project Reference: N/A

Sample Identifier: Sump
Lab Sample ID: 196275-01 **Date Sampled:** 12/19/2019
Matrix: Wastewater **Date Received:** 12/19/2019

Benzo (b) fluoranthene	< 500	ug/L		12/26/2019 22:55
Benzo (g,h,i) perylene	< 500	ug/L		12/26/2019 22:55
Benzo (k) fluoranthene	< 500	ug/L		12/26/2019 22:55
Bis (2-chloroethoxy) methane	< 500	ug/L		12/26/2019 22:55
Bis (2-chloroethyl) ether	< 500	ug/L		12/26/2019 22:55
Bis (2-ethylhexyl) phthalate	< 500	ug/L		12/26/2019 22:55
Butylbenzylphthalate	< 500	ug/L		12/26/2019 22:55
Chrysene	< 500	ug/L		12/26/2019 22:55
Dibenz (a,h) anthracene	< 500	ug/L		12/26/2019 22:55
Diethyl phthalate	< 500	ug/L		12/26/2019 22:55
Dimethyl phthalate	< 1000	ug/L		12/26/2019 22:55
Di-n-butyl phthalate	< 500	ug/L		12/26/2019 22:55
Di-n-octylphthalate	< 500	ug/L		12/26/2019 22:55
Fluoranthene	< 500	ug/L		12/26/2019 22:55
Fluorene	< 500	ug/L		12/26/2019 22:55
Hexachlorobenzene	< 500	ug/L		12/26/2019 22:55
Hexachlorobutadiene	< 500	ug/L		12/26/2019 22:55
Hexachlorocyclopentadiene	< 500	ug/L		12/26/2019 22:55
Hexachloroethane	< 500	ug/L		12/26/2019 22:55
Indeno (1,2,3-cd) pyrene	< 500	ug/L		12/26/2019 22:55
Isophorone	< 500	ug/L		12/26/2019 22:55
Naphthalene	< 500	ug/L		12/26/2019 22:55
Nitrobenzene	< 500	ug/L		12/26/2019 22:55
N-Nitrosodimethylamine	< 500	ug/L		12/26/2019 22:55
N-Nitroso-di-n-propylamine	< 500	ug/L		12/26/2019 22:55

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Lab Project ID: 196275

Client: **RocTerra**

Project Reference: N/A

Sample Identifier: Sump
Lab Sample ID: 196275-01 **Date Sampled:** 12/19/2019
Matrix: Wastewater **Date Received:** 12/19/2019

N-Nitrosodiphenylamine	< 500	ug/L	12/26/2019	22:55
Pentachlorophenol	< 1000	ug/L	12/26/2019	22:55
Phenanthrene	< 500	ug/L	12/26/2019	22:55
Phenol	< 500	ug/L	12/26/2019	22:55
Pyrene	< 500	ug/L	12/26/2019	22:55

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
2,4,6-Tribromophenol	NC	56 - 117		12/26/2019	22:55
2-Fluorobiphenyl	NC	36.3 - 95.4		12/26/2019	22:55
2-Fluorophenol	NC	16.1 - 103		12/26/2019	22:55
Nitrobenzene-d5	NC	52.1 - 98.9		12/26/2019	22:55
Phenol-d5	NC	10 - 105		12/26/2019	22:55
Terphenyl-d14	NC	59.6 - 112		12/26/2019	22:55

Internal standard outliers indicate probable matrix interference. Reporting limits elevated due to non-target compounds.

Method Reference(s): EPA 625.1
Preparation Date: 12/24/2019
Data File: B43355.D

Report Prepared Tuesday, December 31, 2019

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196275

Client: **RocTerra**

Project Reference: N/A

Sample Identifier: Sump
Lab Sample ID: 196275-01 **Date Sampled:** 12/19/2019
Matrix: Wastewater **Date Received:** 12/19/2019

Semi-Volatile Organics (Pyridines)

Analyte	Result	Units	Qualifier	Date Analyzed
2,6-Dichloropyridine	**423000**	ug/L		12/30/2019 20:10
2-Chloropyridine	**7290000**	ug/L		12/30/2019 20:10
3-Chloropyridine	< 500	ug/L		12/26/2019 22:55
4-Chloropyridine	< 500	ug/L		12/26/2019 22:55
4-Fluoroaniline	< 500	ug/L		12/26/2019 22:55
Pyridine	**2250**	ug/L		12/26/2019 22:55

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2-Fluorobiphenyl	NC	36.3-95.4		12/26/2019 22:55

Method Reference(s): EPA 625.1
Data File: B43418.D
Data File: B43355.D

Report Prepared Tuesday, December 31, 2019

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196275

Client: **RocTerra**

Project Reference: N/A

Sample Identifier: Sump
Lab Sample ID: 196275-01 **Date Sampled:** 12/19/2019
Matrix: Wastewater **Date Received:** 12/19/2019

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2000	ug/L		12/26/2019 13:24
1,1,2,2-Tetrachloroethane	< 2000	ug/L		12/26/2019 13:24
1,1,2-Trichloroethane	< 2000	ug/L		12/26/2019 13:24
1,1-Dichloroethane	< 2000	ug/L		12/26/2019 13:24
1,1-Dichloroethene	< 2000	ug/L		12/26/2019 13:24
1,2-Dichlorobenzene	< 2000	ug/L		12/26/2019 13:24
1,2-Dichloroethane	< 2000	ug/L		12/26/2019 13:24
1,2-Dichloropropane	< 2000	ug/L		12/26/2019 13:24
1,3-Dichlorobenzene	< 2000	ug/L		12/26/2019 13:24
1,4-Dichlorobenzene	< 2000	ug/L		12/26/2019 13:24
2-Chloroethyl vinyl Ether	< 10000	ug/L		12/26/2019 13:24
Benzene	< 1000	ug/L		12/26/2019 13:24
Bromodichloromethane	< 2000	ug/L		12/26/2019 13:24
Bromoform	< 5000	ug/L		12/26/2019 13:24
Bromomethane	< 2000	ug/L		12/26/2019 13:24
Carbon Tetrachloride	< 2000	ug/L		12/26/2019 13:24
Chlorobenzene	< 2000	ug/L		12/26/2019 13:24
Chloroethane	< 2000	ug/L		12/26/2019 13:24
Chloroform	< 2000	ug/L		12/26/2019 13:24
Chloromethane	< 2000	ug/L		12/26/2019 13:24
cis-1,3-Dichloropropene	< 2000	ug/L		12/26/2019 13:24
Dibromochloromethane	< 2000	ug/L		12/26/2019 13:24
Ethylbenzene	< 2000	ug/L		12/26/2019 13:24

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 196275

Client: RocTerra

Project Reference: N/A

Sample Identifier: Sump
Lab Sample ID: 196275-01
Matrix: Wastewater
Date Sampled: 12/19/2019
Date Received: 12/19/2019

Methylene chloride	< 5000	ug/L		12/26/2019	13:24
Tetrachloroethene	< 2000	ug/L		12/26/2019	13:24
Toluene	< 2000	ug/L		12/26/2019	13:24
trans-1,2-Dichloroethene	**1720**	ug/L	J	12/26/2019	13:24
trans-1,3-Dichloropropene	< 2000	ug/L		12/26/2019	13:24
Trichloroethene	< 2000	ug/L		12/26/2019	13:24
Trichlorofluoromethane	< 2000	ug/L		12/26/2019	13:24
Vinyl chloride	< 2000	ug/L		12/26/2019	13:24

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**119**	70.5 - 135		12/26/2019	13:24
4-Bromofluorobenzene	**78.3**	62 - 127		12/26/2019	13:24
Pentafluorobenzene	**94.8**	87 - 113		12/26/2019	13:24
Toluene-D8	**93.9**	80.8 - 115		12/26/2019	13:24

Method Reference(s): EPA 624.1
Data File: x67470.D

Report Prepared Tuesday, December 31, 2019

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Analytical Report Appendix

The reported results relate only to the samples as they have been received by the laboratory.

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All soil/sludge samples have been reported on a dry weight basis, unless qualified "reported as received". Other solids are reported as received.

Low level Volatiles blank reports for soil/solid matrix are based on a nominal 5 gram weight. Sample results and reporting limits are based on actual weight, which may be more or less than 5 grams.

The Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt. Sample condition requirements are defined under the 2003 NELAC Standard, sections 5.5.8.3.1 and 5.5.8.3.2.

NYSDOH ELAP does not certify for all parameters. Paradigm Environmental Services or the indicated subcontracted laboratory does hold certification for all analytes where certification is offered by ELAP unless otherwise specified. Aliquots separated for certain tests, such as TCLP, are indicated on the Chain of Custody and final reports with an "A" suffix.

Data qualifiers are used, when necessary, to provide additional information about the data. This information may be communicated as a flag or as text at the bottom of the report. Please refer to the following list of analyte-specific, frequently used data flags and their meaning:

"<" = Analyzed for but not detected at or above the quantitation limit.
"E" = Result has been estimated, calibration limit exceeded.
"Z" = See case narrative.
"D" = Sample, Laboratory Control Sample, or Matrix Spike Duplicate results above Relative Percent Difference limit.
"M" = Matrix spike recoveries outside QC limits. Matrix bias indicated.
"B" = Method blank contained trace levels of analyte. Refer to included method blank report.
"J" = Result estimated between the quantitation limit and half the quantitation limit.
"L" = Laboratory Control Sample recovery outside accepted QC limits.
"P" = Concentration differs by more than 40% between the primary and secondary analytical columns.
"NC" = Not calculable. Applicable to RPD if sample or duplicate result is non-detect or estimated (see primary report for data flags). Applicable to MS if sample is greater or equal to ten times the spike added. Applicable to sample surrogates or MS if sample dilution is 10x or higher.
"" = Indicates any recoveries outside associated acceptance windows. Surrogate outliers in samples are presumed matrix effects. LCS demonstrates method compliance unless otherwise noted.*
"(1)" = Indicates data from primary column used for QC calculation.
"A" = denotes a parameter for which ELAP does not offer approval as part of their laboratory certification program.
"F" = denotes a parameter for which Paradigm does not carry certification, the results for which should therefore only be used where ELAP certification is not required, such as personal exposure assessment.

GENERAL TERMS AND CONDITIONS
LABORATORY SERVICES

These Terms and Conditions embody the whole agreement of the parties in the absence of a signed and executed contract between the Laboratory (LAB) and Client. They shall supersede all previous communications, representations, or agreements, either verbal or written, between the parties. The LAB specifically rejects all additional, inconsistent, or conflicting terms, whether printed or otherwise set forth in any purchase order or other communication from the Client to the LAB. The invalidity or unenforceability in whole or in part of any provision, tern or condition hereof shall not affect in any way the validity or enforceability of the remainder of the Terms and Conditions. No waiver by LAB of any provision, term, or condition hereof or of any breach by or obligation of the Client hereunder shall constitute a waiver of such provision, term, or condition on any other occasion or a waiver of any other breach by or obligation of the Client. This agreement shall be administered and interpreted under the laws of the state which services are procured.

Warranty. Recognizing that the nature of many samples is unknown and that some may contain potentially hazardous components, LAB warrants only that it will perform testing services, obtain findings, and prepare reports in accordance with generally accepted analytical laboratory principles and practices at the time of performance of services. LAB makes no other warranty, express or implied.

Scope and Compensation. LAB agrees to perform the services described in the chain of custody to which these terms and conditions are attached. Unless the parties agree in writing to the contrary, the duties of LAB shall not be construed to exceed the services specifically described. LAB wi use LAB default method for all tests unless specified otherwise on the Work Order.
Payment terms are net 30 days from the date of invoice. All overdue payments are subject to an interest charge of one and one-half percent (1-1/2%) per month or a portion thereof. Client shall also be responsible for costs of collection, including payment of reasonable attorney fees if such expense is incurred. The prices, unless stated, do not include any sale, use or other taxes. Such taxes will be added to invoice prices when required.

Prices. Compensation for services performed will be based on the current Lab Analytical Fee Schedule or on quotations agreed to in writing by the parties. Turnaround time based charges are determined from the time of resolution of all work order questions. Testimony, court appearances or data compilation for legal action will be charged separately. Evaluation and reporting of initial screening runs may incur additional fees.

Limitations of Liability. In the event of any error, omission, or other professional negligence, the sole and exclusive responsibility of LAB shall be to re-perform the deficient work at its own expense and LAB shall have no other liability whatsoever. All claims shall be deemed waived unless made in writing and received by LAB within ninety (90) days following completion of services.
LAB shall have no liability, obligation, or responsibility of any kind for losses, costs, expenses, or other damages (including but not limited to any special, direct, incidental or consequential damages) with respect to LAB's services or results.
All results provided by LAB are strictly for the use of its clients and LAB is in no way responsible for the use of such results by clients or third parties. All reports should be considered in their entirety, and LAB is not responsible for the separation, detachment, or other use of any portion of these reports. Client may not assign the lab report without the written consent of the LAB.
Client covenants and agrees, at its/his/her sole expense, to indemnify, protect, defend, and save harmless the LAB from and against any and all damages, losses, liabilities, obligations, penalties, claims, litigation, demands, defenses, judgments, suits, actions, proceedings, costs, disbursements and/or expenses (including, without limitation attorneys' and experts' fees and disbursements) of any kind whatsoever which may at any time be imposed upon, incurred by or asserted or awarded against client relating to, resulting from or arising out of (a) the breach of this agreement by this client, (b) the negligence of the client in handling, delivering or disclosing any hazardous substance, (c) the violation of the Client of any applicable law, (d) non-compliance by the Client with any environmental permit or (e) a material misrepresentation in disclosing the materials to be tested.

Hazard Disclosure. Client represents and warrants that any sample delivered to LAB will be preceded or accompanied by complete written disclosure of the presence of any hazardous substances known or suspected by Client. Client further warrants that any sample containing any hazardous substance that is to be delivered to LAB will be packaged, labeled, transported, and delivered properly and in accordance with applicable laws.

Sample Handling. Prior to LAB's acceptance of any sample (or after any revocation of acceptance), the entire risk of loss or of damage to such sample remains with Client. Samples are accepted when receipt is acknowledged on chain of custody documentation. In no event will LAB have any responsibility for the action or inaction of any carrier shipping or delivering any sample to or from LAB premises.
Client authorizes LAB to proceed with the analysis of samples as received by the laboratory, recognizing that any samples not in compliance with all current DOH-ELAP-NELAP requirements for containers, preservation or holding time will be noted as such on th final report.
Disposal of hazardous waste samples is the responsibility of the Client. If the Client does not wish such samples returned, LAB may add storage and disposal fees to the final invoice. Maximum storage time for samples is 30 days after completion of analysis unless modified by applicable state or federal laws. Client will be required to give the LAB written instructions concerning disposal of these samples.
LAB reserves the absolute right, exercisable at any time, to refuse to receive delivery of, refuse to accept, or revoke acceptance of any sample, which, in the sole judgment of LAB (a) is of unsuitable volume, (b) may be or become unsuitable for or may pose a risk in handling, transport, or processing for any health, safety, environmental or other reason whether or not due to the presence in the sample of any hazardous substance, and whether or not such presence has been disclosed to LAB by Client or (c) if the condition or sample date make the sample unsuitable for analysis.

Legal Responsibility. LAB is solely responsible for performance of this contract, and no affiliated company, director, officer, employee, or agent shall have any legal responsibility hereunder, whether in contract or tort including negligence.

Assignment. LAB may assign its performance obligations under this contract to other parties, as it deems necessary. LAB shall disclose to Client any assignee (subcontractor) by ELAP ID # on the submitted final report.

Force Majeure. LAB shall have no responsibility or liability to the Client for any failure or delay in performance by LAB, which results in whole or in part from any cause or circumstance beyond the reasonable control of LAB. Such causes and circumstances shall include, but not limited to, acts of God, acts or orders of any government authority, strikes or other labor disputes, natural disasters, accidents, wars, civil disturbances, difficulties or delays in transportation, mail or delivery services, inability to obtain sufficient services or supplies from LAB's usual suppliers, or any other cause beyond LAB's reasonable control.

Law. This contract shall be continued under the laws of the State of New York without regard to its conflicts of laws provision.

PARADIGM ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue, Rochester, NY 14608 Office (585) 647-2530 Fax (585) 647-3311

CHAIN OF CUSTODY

REPORT TO:	INVOICE TO:	
CLIENT: Rocterra	CLIENT: Same	LAB PROJECT ID 196275
ADDRESS: 124 Woodstock Rd	ADDRESS:	
CITY: Rochester STATE: NY ZIP: 14609	CITY: STATE: ZIP:	Quotation #:
PHONE: 585 698 6842	PHONE:	Email:
ATTN: Alex Wirth	ATTN:	

PROJECT REFERENCE

Matrix Codes:
AQ - Aqueous Liquid, NQ - Non-Aqueous Liquid, WA - Water, WG - Groundwater, DW - Drinking Water, WW - Wastewater, SO - Soil, SL - Sludge, SD - Solid, PT - Paint, WP - Wipe, CK - Caulk, OL - Oil, AR - Air

REQUESTED ANALYSIS

DATE COLLECTED	TIME COLLECTED	COMPOSITE	GRAB	SAMPLE IDENTIFIER	MATRIX CODES	NUMBER OF CONTAINERS	8260 Full	8270 Full	8082 Full	Chloropyridines	Added 12/27 per A.W. adf 12/27					REMARKS	PARADIGM LAB SAMPLE NUMBER
12/19/19	1400		X	Sump	WW	3	X	X	X	X							01
							TCL	TCL	RB	per EF	GP 12/19/19						

Turnaround Time		Report Supplements			
Availability contingent upon lab approval; additional fees may apply.					
Standard 5 day	☒	None Required	☐	None Required	☐
10 day	☐	Batch QC	☐	Basic EDD	☐
Rush 3 day	☐	Category A	☐	NYSDEC EDD	☒
Rush 2 day	☐	Category B	☒		
Rush 1 day	☐				
Other (please indicate date needed:)	☐	Other (please indicate package needed:)	☐	Other EDD (please indicate EDD needed:)	☐

Sampled By: Alex Wirth — Date/Time: 12/19/19 14:40

Relinquished By: Alex W — Date/Time: 12/19/19 14:40

Received By: [signature] — Date/Time: 12/19/19 14:40

Received @ Lab By: [signature] — Date/Time: 12/19/19 14:50

9°C iced started in field 12/19/19 14:48

Total Cost:

P.I.F.

By signing this form, client agrees to Paradigm Terms and Conditions (reverse).

See additional page for sample conditions.

PARADIGM

Chain of Custody Supplement

Client: RocTerra **Completed by:** Glenn Pezzulo

Lab Project ID: 196275 **Date:** 12/19/19

Sample Condition Requirements

Per NELAC/ELAP 210/241/242/243/244

Condition	*NELAC compliance with the sample condition requirements upon receipt* Yes	No	N/A
Container Type	X	X VOA	
Comments			
Transferred to method-compliant container	X VOA		X
Headspace (<1 mL)			X
Comments	Portion of sample transferred to 40ml HCl preserved voa vial for 8260.		
Preservation			X
Comments			
Chlorine Absent (<0.10 ppm per test strip)			X
Comments			
Holding Time	X		
Comments			
Temperature	X		
Comments	9°C iced started in field		
Compliant Sample Quantity/Type	X	X PCB SVOA	
Comments			