



INVENTUM ENGINEERING

Tank Management and Closure Construction Completion Report Tank No. ST23

Riverview Innovation & Technology Campus
Brownfield Cleanup Program Site No. C915353

3875 River Road
Tonawanda, New York 14150

August 19, 2025

1. Facility Information Summary

Facility Information	
Name of Facility:	Riverview Innovation & Technology Campus, Inc. (RITC)
Address:	3875 River Road, Tonawanda, NY 14150
County:	Erie
Waste Generator Status:	Large Quantity Generator
EPA Identification Number:	NYD088413877
Site Operator:	Ontario Specialty Contracting (OSC)
Operator Address:	140 Lee Street, Buffalo, NY 14210
RITC Project Manager:	Dan Flanigan
RITC Project Manager Email:	dflanigan@oscinc.com
Engineering Consultant:	Inventum Engineering
Consultant Address:	441 Carlisle Drive, Suite C, Herndon, VA 20170
Consultant Contact:	John Black, P.E.
Consultant Email:	John.Black@inventumeng.com

2. Above Ground Storage Tank Information

Tank No.:	ST23
Grid Location:	J33 to L35
Location Notes:	ST23 was east of ST22 and west of ST24 in the Water Treatment Area in the southwest corner of the property.
Date of Closure:	11/3/2022
Tank Dimensions:	Vertical Cylinder 120-foot Diameter, 47-foot height
Storage Capacity:	4,000,000 gallons
Tank Exterior Coating Description:	Uncoated steel, riveted plate construction, with a steel roof.
Tank Piping Description:	Approximately 270-feet of 2- to- 4- inch diameter pipe was between ST22 and ST23.
Secondary Containment Description:	Earthen Berm. At initial inspection in September 2021 berm was heavily vegetated and held 1- to- 2-feet of water.
Contents Description:	A dark amber “tea” colored water with some floating NAPL blobs over a lower viscosity, black, possible tar material described as flowable when sampled. Some small pockets of water were trapped in the material.

3. AST Closure Procedure

Contractor:	OSC
Contractor Address:	140 Lee Street, Buffalo, New York 14210
Dates of Cleaning:	ST23 contents were stabilized from September to November 2022. ST23 base was sheared in November 2022.
Cleaning Method:	Tank contents were stabilized with lime kiln dust (LKD) and sawdust, shipped for disposal, and the tank base was mechanically scraped with a flat-bladed excavator bucket, skidsteer bucket, and hand tools.
Disposition of tank shell and piping:	Recycled ¹
Recycler or Disposal Facility Address:	Niagara Metals 4861 Packard Rd, Niagara Falls, NY 14304
Contents Volume Disposed:	2,260 tons of tank residuals, LKD, and sawdust were disposed.
Disposition of Contents & Hazardous Waste Code(s):	Contents were disposed as hazardous waste at RSI Environnemental. Benzene D018.
Disposal Facility Address:	RSI Environnemental/8439117 Canada Inc. 80 Rue des Mélézes, Saint Ambroise, Quebec G7PZN4
Disposal Facility EPA No.:	1169045474
Hazardous Waste Transporter Name:	(1) Laidlaw Carriers Bulk, (2) Goulet Trucking Inc.
Hazardous Waste Transporter EPA No.:	(1) MID980619936, (2) MAC300006038

¹ The ST23 tank body and all above grade piping was recycled. A small percentage of the total steel from ST21, ST22, and ST23 was grossly impacted and combined with a load of steel generated from other site demolition activities for microencapsulation. See Additional Notes below. The associated waste manifest is provided in Attachment C.

4. Inspection Summary

Tank closure inspection:	The ST23 tank base interior was scraped free of residuals. The base of ST23 was sheared and lifted in November 2022. ST23 was constructed on a layer of bedding sand that was stained grey, a concrete foundation was not observed. The riveted steel floor was in moderate to good condition as no major rust holes or cracks were observed.
Evidence of Leaks and/or additional observations:	Discontinuous blobs of possible tar material were observed in the secondary containment around the northwestern edge of the ST23 tank base. The locations of observed possible tar materials correspond to historic observations and the locations of former piping between ST22 and ST23. The investigation of the secondary containment is documented under separate cover in the BCP Preliminary ST21 to ST23 Investigation CCR (Inventum, June 2024).

5. CAMP Data

Air monitoring was performed in accordance with the Community Air Monitoring Plan (CAMP) for all dates that tank work was completed including sampling, contents removal, cleaning, decommissioning and disposal. Decommissioning includes ancillary pipe removal, shearing, torch cutting, and/or contents stabilization. Daily summary graphs of particulate and volatile organic compound (VOC) monitoring are provided in the AST CCR CAMP Appendix.

Tank Work	Dates
Sampling	9/9/2021, 9/10/2022, 4/5/2022, 4/8/2022
Decommissioning	September 2021 – December 2021, June 2022 – July 2022
Contents Removal & Disposal	September 2022 – November 2022
Cleaning	November 2022

Additional Notes:

Sampling:

An initial characterization sample of the solid and aqueous phases of ST23 was collected in September 2021. ALS was unable to perform the TCLP, Cyanide, or Flashpoint analysis based on matrix interference. A subsequent sample of the solid phase was collected for TCLP analysis with Paradigm laboratory in April 2022. The sample results indicate the characteristic of Benzene toxicity (D018). A subsequent sample of the aqueous phase was collected in April 2022 and analyzed for Cyanide and Flashpoint. The sample was also analyzed for Ammonia, as the September 2021 aqueous Ammonia concentration appeared anomalously high at 765,000 mg/L (76.5 %, likely a unit transcription error). The April 2022 sample Ammonia concentration was 618 mg/L. Attachment A Table 1 contains the solid phase analytical data and Table 2 contains the aqueous phase analytical data.

Tank Access & Preparation

The secondary containment area surrounding ST23 was densely vegetated and contained standing water from accumulated precipitation. All vegetation was cleared and grubbed in the fall of 2021.

Approximately 270-feet of piping was present at grade between the bases of ST23 and ST22 and north of the ST23 area. Approximately 220-feet was empty and recycled when the pipe rack north of ST21 and ST22 was removed in December 2021. The remaining 50-feet of piping connecting the two tank bases was left in place until the bases were dismantled.

The secondary containment water was treated and discharged to the Town of Tonawanda Publicly Owned Treatment Works (POTW) under Permit No. 331. A pretreatment skid was installed west of the Water Treatment Area that included an oil-water separator, bag filters, and two 3,000-pound granular activated carbon (GAC) vessels in series. The skid was also installed in preparation to treat the aqueous (water) phase from within ST21, ST22, and ST23.

After the vegetation was removed, the Water Treatment Area containment was brought to grade to provide heavy equipment access. A geotextile demarcation layer was placed within the secondary containment and brick fill from the Boiler House demolition was placed around ST21, ST22, and ST23 to allow for equipment mobility.

In June 2022, holes were cut by water-jetting at equidistant intervals into the sidewalls of ST23 to create ventilation. The roof of ST23 was prepared to be removed by making cuts at all connections between the roof and the sidewalls and making a cut along the diameter of the roof. Steel cables were attached to anchor points on the roof and to the bucket of an excavator. The roof was pulled off the tank body in two halves on June 29, 2022.

The removal of the roof exposed an interior support structure constructed of steel beams. The structure was in poor condition, with many of the beams containing rusted holes (Attachment A, Photograph No. 13). The structure was unstable, with primarily the configuration and weight of the structure keeping it in place. The tank sidewalls were dismantled, and the support structure was tipped on July 21, 2022.

Contents Management & Disposal

The aqueous phase was approved for pretreatment and discharge to the Town of Tonawanda Publicly Owned Treatment Works (POTW) under Permit No. 331. Approximately 100,000 gallons of water were pre-treated through the dedicated treatment skid and discharged to the POTW in the second half of 2022.

The possible tar tank residuals were stabilized inside the tank with the addition of lime kiln dust (LKD) and sawdust. Stabilization mixing and residual shipment occurred from September through November 2022. A total of 2,260 tons of stabilized ST23 residuals were transported and disposed at RSI Environnemental of Quebec.

Piping connecting the bases of ST22 and ST23, approximately 50 feet of 4-inch diameter steel, contained non-viscous possible tar residuals. This piping was stockpiled with other grossly impacted steel debris removed from the water treatment tanks which consisted of minor piping (ST21), pieces of collapsed roofing (ST22) and sections of structural support beams (ST23). The ST21, ST22, and ST23 debris was combined with grossly impacted piping from coke oven gas (COG) line removal and shipped in November 2022 as hazardous waste (Benzene, D018) for microencapsulation at Michigan Disposal Waste Treatment Facility of Belleville, Michigan.

Solidification of ST21-ST23 Secondary Containment Residuals Pile

After ST21, ST22, and ST23 were removed, the temporary brick fill from the former Boiler House was removed from the secondary containment, crushed, and stockpiled northeast of the Water Treatment Area. Brick fill and soils that exhibited gross contamination from possible-tar materials that were present in the

secondary containment were segregated in a stockpile just north of the containment area. This stockpile is referred to as the ST21-ST23 residuals pile in the approved Satellite Source Area Solidification Remedial Action Work Plan (RAWP) (Inventum, February 2025). The ST21-ST23 residual pile was solidified with Portland Cement and Breeze in accordance with the approved RAWP in April 2025.

Water Treatment Area Bioremediation

The Water Treatment Area has undergone bioremediation in accordance with the approved Remedial Action Work Plan (RAWP) Full-Scale Water Treatment Area Bioremediation (Inventum, October 2024) beginning in November 2024. The fill and near-surface clay has been treated with the addition of high-nitrogen fertilizer, moisture, and aeration. The RAWP objectives include confirmation that no characteristically hazardous material exists in the target area and that all potentially nuisance characteristics of the fill have been eliminated.

6. Attachments

1. Attachment A – Analytical Tables of tank contents for disposal profiling.
2. Attachment B – Photographic Log includes original, color photographs of the closure process.
3. Attachment C – Waste Manifests.
4. Attachment D – Laboratory Reports.

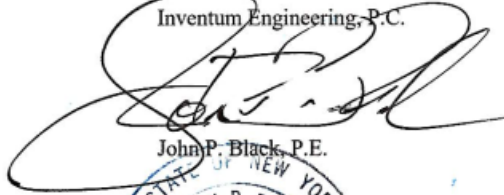


Engineering Certification

I, John P. Black, certify that I am currently a NYS registered professional engineer as defined in 6 NYCRR Part 375 and that this Tank Management and Closure Construction Completion Report was prepared in accordance with all applicable statutes and regulations and in substantial conformance with the DER Technical Guidance for Site Investigation and Remediation (DER-10) and DER Green Remediation (DER-31) and that all activities were performed in full accordance with the DER-approved work plan and any DER-approved modifications.

Respectfully Submitted,

Inventum Engineering, P.C.



John P. Black, P.E.



Date:

8.18.2025

License No:

062818-1

It is a violation of the laws of New York for any person, unless acting under the direction of a Licensed Professional Engineer, to alter any item or any portion of this document in any way. If an item bearing the seal of a Licensed Professional Engineer is altered, the altering Engineer shall affix to the item his/her seal and notation "altered by" followed by his/her signature and the date of such alternation, and a specific description of the alteration.



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Attachment A – Analytical Tables



Table 1
Tank Management & Closure CCR
ST23 Analytical Results
Riverview Innovation & Technology Campus, Inc.
Town of Tonawanda, New York

Analytes	Sample ID:		TK-SD-ST23-09102021		ST23-TCLP-04052022	
	Sample Date:		9/10/2021		4/5/2022	
	Lab Report Number(s):		R2109413		221448	
	Contents:		Viscous, Black Sludge, Possible Tar Material			
	Hazardous Waste Code(s):		D018			
	TCLP Standards (ug/L)	Units	ST23 - Water Treatment Tank			
VOCs SW8260C						
1,1,1-Trichloroethane (TCA)		ug/kg	<1000	U	NS	
1,1,2,2-Tetrachloroethane		ug/kg	<1000	U	NS	
1,1,2-Trichloroethane		ug/kg	<1000	U	NS	
1,1,2-Trichloro-1,2,2-Trifluoroethane		ug/kg	<1000	U	NS	
1,1-Dichloroethane		ug/kg	<1000	U	NS	
1,1-Dichloroethene		ug/kg	<1000	U	NS	
1,2,3-Trichlorobenzene		ug/kg	<1300	U	NS	
1,2,4-Trichlorobenzene		ug/kg	<1700	U	NS	
1,2-Dibromo-3-Chloropropane		ug/kg	<2300	U	NS	
1,2-Dibromoethane (Ethylene Dibromide)		ug/kg	<1000	U	NS	
1,2-Dichlorobenzene		ug/kg	<1000	U	NS	
1,2-Dichloroethane		ug/kg	<1000	U	NS	
1,2-Dichloropropane		ug/kg	<1000	U	NS	
1,3-Dichlorobenzene		ug/kg	<1000	U	NS	
1,4-Dichlorobenzene		ug/kg	<1000	U	NS	
1,4-Dioxane (P-Dioxane)		ug/kg	<65000	U	NS	
Methyl Ethyl Ketone (2-Butanone)		ug/kg	54300	J	NS	
2-Hexanone		ug/kg	<1000	U	NS	
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)		ug/kg	<1000	U	NS	
Acetone		ug/kg	<11000	U	NS	
Benzene		ug/kg	110000		NS	
Bromochloromethane		ug/kg	<1000	U	NS	
Bromodichloromethane		ug/kg	<1000	U	NS	
Bromoform		ug/kg	<1300	U	NS	
Bromomethane		ug/kg	<3500	U	NS	
Carbon Disulfide		ug/kg	<2100	U	NS	
Carbon Tetrachloride		ug/kg	<1700	U	NS	
Chlorobenzene		ug/kg	<1000	U	NS	
Chloroethane		ug/kg	<1200	U	NS	
Chloroform		ug/kg	<1200	U	NS	
Chloromethane		ug/kg	1900	J	NS	
Cyclohexane		ug/kg	<1300	U	NS	
Dibromochloromethane		ug/kg	<1000	U	NS	
Dichlorodifluoromethane		ug/kg	<1100	U	NS	
Methylene Chloride		ug/kg	<3300	U	NS	
Ethylbenzene		ug/kg	4100	J	NS	
Isopropylbenzene (Cumene)		ug/kg	<1000	U	NS	
Methyl Acetate		ug/kg	1700	J	NS	
Tert-Butyl Methyl Ether		ug/kg	<1000	U	NS	
Methylcyclohexane		ug/kg	<1000	U	NS	
Styrene		ug/kg	11000	J	NS	
Tetrachloroethylene (PCE)		ug/kg	<1100	U	NS	



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	Hazardous Waste Code(s):		D018			
	TCLP Standards (ug/L)	Units	ST23 - Water Treatment Tank			
Toluene		ug/kg	78000		NS	
Trichloroethylene (TCE)		ug/kg	<1000	U	NS	
Trichlorofluoromethane		ug/kg	<1200	U	NS	
Vinyl Chloride		ug/kg	<1000	U	NS	
Cis-1,2-Dichloroethylene		ug/kg	<1200	U	NS	
Cis-1,3-Dichloropropene		ug/kg	<1000	U	NS	
m,p-Xylene		ug/kg	65000		NS	
O-Xylene (1,2-Dimethylbenzene)		ug/kg	17000	J	NS	
Trans-1,2-Dichloroethene		ug/kg	<1000	U	NS	
Trans-1,3-Dichloropropene		ug/kg	<1200	U	NS	
SVOCs SW8270D						
1,2,4,5-Tetrachlorobenzene		ug/kg	<130000	U	NS	
2,3,4,6-Tetrachlorophenol		ug/kg	<130000	U	NS	
2,4,5-Trichlorophenol		ug/kg	<120000	U	NS	
2,4,6-Trichlorophenol		ug/kg	<160000	U	NS	
2,4-Dichlorophenol		ug/kg	<140000	U	NS	
2,4-Dimethylphenol		ug/kg	280000	J	NS	
2,4-Dinitrophenol		ug/kg	<2200000	U	NS	
2,4-Dinitrotoluene		ug/kg	<260000	U	NS	
2,6-Dinitrotoluene		ug/kg	<160000	U	NS	
2-Chloronaphthalene		ug/kg	<160000	U	NS	
2-Chlorophenol		ug/kg	<120000	U	NS	
2-Methylnaphthalene		ug/kg	3100000		NS	
2-Methylphenol (O-Cresol)		ug/kg	480000	J	NS	
2-Nitroaniline		ug/kg	<160000	U	NS	
2-Nitrophenol		ug/kg	<170000	U	NS	
3,3'-Dichlorobenzidine		ug/kg	<130000	U	NS	
Cresols, M & P		ug/kg	1000000	J	NS	
3-Nitroaniline		ug/kg	<120000	U	NS	
4,6-Dinitro-2-Methylphenol		ug/kg	<940000	U	NS	
4-Bromophenyl Phenyl Ether		ug/kg	<190000	U	NS	
4-Chloro-3-Methylphenol		ug/kg	<120000	U	NS	
4-Chloroaniline		ug/kg	<110000	U	NS	
4-Chlorophenyl Phenyl Ether		ug/kg	<170000	U	NS	
4-Nitroaniline		ug/kg	<160000	U	NS	
4-Nitrophenol		ug/kg	<690000	U	NS	
Acenaphthene		ug/kg	290000	J	NS	
Acenaphthylene		ug/kg	2700000		NS	
Acetophenone		ug/kg	<140000	U	NS	
Anthracene		ug/kg	1700000		NS	
Atrazine		ug/kg	<230000	U	NS	
Benzo(A)Anthracene		ug/kg	1700000		NS	



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	Hazardous Waste Code(s):		D018			
	TCLP Standards (ug/L)	Units	ST23 - Water Treatment Tank			
Benzaldehyde		ug/kg	<110000	U	NS	
Benzo(A)Pyrene		ug/kg	2000000		NS	
Benzo(B)Fluoranthene		ug/kg	2100000		NS	
Benzo(G,H,I)Perylene		ug/kg	1100000	J	NS	
Benzo(K)Fluoranthene		ug/kg	630000	J	NS	
Biphenyl (Diphenyl)		ug/kg	450000	J	NS	
Bis(2-Chloroisopropyl) Ether		ug/kg	<160000	U	NS	
Bis(2-Chloroethoxy) Methane		ug/kg	<210000	U	NS	
Bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)		ug/kg	<140000	U	NS	
Bis(2-Ethylhexyl) Phthalate		ug/kg	<840000	U	NS	
Benzyl Butyl Phthalate		ug/kg	<160000	U	NS	
Caprolactam		ug/kg	<110000	U	NS	
Carbazole		ug/kg	1200000		NS	
Chrysene		ug/kg	1900000		NS	
Di-N-Butyl Phthalate		ug/kg	<190000	U	NS	
Di-N-Octylphthalate		ug/kg	<360000	U	NS	
Dibenz(A,H)Anthracene		ug/kg	220000	J	NS	
Dibenzofuran		ug/kg	1600000		NS	
Diethyl Phthalate		ug/kg	<120000	U	NS	
Dimethyl Phthalate		ug/kg	<140000	U	NS	
Fluoranthene		ug/kg	6000000		NS	
Fluorene		ug/kg	2600000		NS	
Hexachlorobenzene		ug/kg	<180000	U	NS	
Hexachlorobutadiene		ug/kg	<110000	U	NS	
Hexachlorocyclopentadiene		ug/kg	<240000	U	NS	
Hexachloroethane		ug/kg	<120000	U	NS	
Indeno(1,2,3-C,D)Pyrene		ug/kg	1100000		NS	
Isophorone		ug/kg	<160000	U	NS	
N-Nitrosodi-N-Propylamine		ug/kg	<130000	U	NS	
N-Nitrosodiphenylamine		ug/kg	<300000	U	NS	
Naphthalene		ug/kg	16000000	D	NS	
Nitrobenzene		ug/kg	<170000	U	NS	
Pentachlorophenol		ug/kg	<1100000	U	NS	
Phenanthrene		ug/kg	8600000		NS	
Phenol		ug/kg	910000	J	NS	
Pyrene		ug/kg	4400000		NS	



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	Lab Report Number(s):		R2109413		221448	
	Contents:		Viscous, Black Sludge, Possible Tar Material			
	Hazardous Waste Code(s):		D018			
	TCLP Standards (ug/L)	Units	ST23 - Water Treatment Tank			
TAL Metals SW6010						
Aluminum		mg/kg	<18.9	U	NS	
Antimony		mg/kg	<5.7	U	NS	
Arsenic		mg/kg	<0.943	U	NS	
Barium		mg/kg	<1.9		NS	
Beryllium		mg/kg	<0.283		NS	
Boron (RSI*)		mg/kg	3.0	J	NS	
Cadmium		mg/kg	0.217	J	NS	
Calcium		mg/kg	45.1	J	NS	
Chromium, Total		mg/kg	<0.943	U	NS	
Cobalt		mg/kg	<4.7	U	NS	
Copper		mg/kg	0.491	J	NS	
Iron		mg/kg	347		NS	
Lead		mg/kg	5.1		NS	
Magnesium		mg/kg	<94.3	U	NS	
Manganese		mg/kg	1.9		NS	
Molybdenum (RSI*)		mg/kg	<2.4	U	NS	
Nickel		mg/kg	5.5		NS	
Potassium		mg/kg	<189	U	NS	
Selenium		mg/kg	5.2		NS	
Silver		mg/kg	<0.943	U	NS	
Sodium		mg/kg	19.4	J	NS	
Sulfur (RSI, 6020A)		mg/kg	3790		NS	
Thallium		mg/kg	<0.943	U	NS	
Tin (RSI*)		mg/kg	<47.2	U	NS	
Uranium (RSI*)		mg/kg	<1.6	UC	NS	
Vanadium		mg/kg	12.2		NS	
Zinc		mg/kg	4.4		NS	
Mercury SW7471						
Mercury		mg/kg	0.060		NS	
Ammonia E350.1M						
Nitrogen, Ammonia (As N)		mg/kg	53.3		NS	
Cyanide SW9012B						
Cyanide		mg/kg	1.08		NS	



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	TCLP Standards (ug/L)	Units	ST23 - Water Treatment Tank			
PCBs 8082A						
PCB-1016 (Aroclor 1016)		ug/kg	<2000	U	NS	
PCB-1221 (Aroclor 1221)		ug/kg	<4000	U	NS	
PCB-1232 (Aroclor 1232)		ug/kg	<2000	U	NS	
PCB-1242 (Aroclor 1242)		ug/kg	<2000	U	NS	
PCB-1248 (Aroclor 1248)		ug/kg	<2000	U	NS	
PCB-1254 (Aroclor 1254)		ug/kg	<2000	U	NS	
PCB-1260 (Aroclor 1260)		ug/kg	<2000	U	NS	
Pesticides 8081B						
P,P'-DDD		ug/kg	<1000	U	NS	
P,P'-DDE		ug/kg	<1000	U	NS	
P,P'-DDT		ug/kg	<1000	U	NS	
Aldrin		ug/kg	<1000	U	NS	
Dieldrin		ug/kg	<1000	U	NS	
Alpha Endosulfan		ug/kg	<1000	U	NS	
Beta Endosulfan		ug/kg	<1000	U	NS	
Endosulfan Sulfate		ug/kg	<1000	U	NS	
Endrin		ug/kg	<1000	U	NS	
Endrin Aldehyde		ug/kg	<1000	U	NS	
Endrin Ketone		ug/kg	<1000	U	NS	
Heptachlor		ug/kg	<1000	U	NS	
Heptachlor Epoxide		ug/kg	<1000	U	NS	
Methoxychlor		ug/kg	<1000	U	NS	
Toxaphene		ug/kg	<5000	U	NS	
Alpha Bhc (Alpha Hexachlorocyclohexane)		ug/kg	<1000	U	NS	
cis-Chlordane		ug/kg	<1000	U	NS	
Beta Bhc (Beta Hexachlorocyclohexane)		ug/kg	<1000	U	NS	
Delta BHC (Delta Hexachlorocyclohexane)		ug/kg	<1000	U	NS	
Gamma Bhc (Lindane)		ug/kg	<1000	U	NS	
Chlordane (Technical)		ug/kg	<1000	U	NS	
Herbicides SW8151A						
Acetic acid, (2,4,5-trichlorophenoxy)-		ug/kg	<100	U	NS	
Silvex (2,4,5-TP)		ug/kg	<100	U	NS	
2,4-D (Dichlorophenoxyacetic Acid)		ug/kg	<100	U	NS	
Dicamba		ug/kg	<100	U	NS	



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Analytes	Sample ID:		TK-SD-ST23-09102021		ST23-TCLP-04052022	
	Sample Date:		9/10/2021		4/5/2022	
	Lab Report Number(s):		R2109413		221448	
	Contents:		Viscous, Black Sludge, Possible Tar Material			
	Hazardous Waste Code(s):		D018			
	TCLP Standards (ug/L)	Units	ST23 - Water Treatment Tank			
TCLP VOCs - SW8260C						
1,2-Dichloroethane	500	ug/l	NA		<200	
Chlorobenzene	100,000	ug/l	NA		<200	
Tetrachloroethylene (PCE)	700	ug/l	NA		<200	
Carbon Tetrachloride	500	ug/l	NA		<200	
Chloroform	6,000	ug/l	NA		<200	
Benzene	500	ug/l	NA		2160	
Vinyl Chloride	200	ug/l	NA		<200	
1,1-Dichloroethene	700	ug/l	NA		<200	
Methyl Ethyl Ketone (2-Butanone)	200,000	ug/l	NA		<1000	
Trichloroethylene (TCE)	500	ug/l	NA		<200	
TCLP SVOCs - SW8270D						
1,4-Dichlorobenzene	7,500	ug/l	NA		<4000	U
2,4,5-Trichlorophenol	400,000	ug/l	NA		<4000	U
2,4,6-Trichlorophenol	2,000	ug/l	NA		<4000	U
2,4-Dinitrotoluene	130	ug/l	NA		<4000	U
2-Methylphenol (O-Cresol)	200,000	ug/l	NA		NS	
Cresols, M & P	200,000	ug/l	NA		NS	
Cresols (as m,p,o-Cresol)	-	ug/l	NA		58900	
Hexachlorobenzene	130	ug/l	NA		<4000	U
Hexachlorobutadiene	500	ug/l	NA		<4000	U
Hexachloroethane	3,000	ug/l	NA		<4000	U
Nitrobenzene	2,000	ug/l	NA		<4000	U
Pentachlorophenol	100,000	ug/l	NA		<8000	U
Pyridine	5,000	ug/l	NA		<4000	U
TCLP Metals - SW6010						
Arsenic	5,000	ug/l	NA		<500	U
Barium	100,000	ug/l	NA		<500	U
Cadmium	1,000	ug/l	NA		<25	U
Chromium, Total	5,000	ug/l	NA		<500	U
Lead	5,000	ug/l	NA		<500	U
Selenium	1,000	ug/l	NA		<200	U
Silver	5,000	ug/l	NA		<500	U
TCLP Mercury- SW7470						
Mercury	200	ug/l	NA		<2.0	U



Table 1
Tank Management & Closure CCR
ST23 Analytical Results
Riverview Innovation & Technology Campus, Inc.
Town of Tonawanda, New York

Analytes	Sample ID:		TK-SD-ST23-09102021		ST23-TCLP-04052022	
	Sample Date:		9/10/2021		4/5/2022	
	Lab Report Number(s):		R2109413		221448	
	Contents:		Viscous, Black Sludge, Possible Tar Material			
	Hazardous Waste Code(s):		D018			
	TCLP Standards (ug/L)	Units	ST23 - Water Treatment Tank			
TCLP Pesticides - 8081B						
Chlordane	30	ug/l	NA		<2.00	U
Endrin	20	ug/l	NA		<1.00	U
Gamma Bhc (Lindane)	400	ug/l	NA		<1.00	U
Heptachlor	8	ug/l	NA		<1.00	U
Heptachlor Epoxide	8	ug/l	NA		<1.00	U
Methoxychlor	10,000	ug/l	NA		<1.00	U
Toxaphene	500	ug/l	NA		<20.0	U
TCLP Herbicides- SW8151A						
2,4-D (Dichlorophenoxyacetic Acid)	10,000	ug/l	NA		<5.0	U
Silvex (2,4,5-TP)	1,000	ug/l	NA		<5.0	U
SW9045D						
pH	<2, >=12.5	ph units	NA		NS	
Ignitability 1010MOD						
Ignitability		deg f	Not Ignitable		NS	
SW1010						
Flash Point	<140	deg f	Did not flash		NS	
Reactive Cyanide SW7.3.3.2						
Reactive Cyanide		mg/kg	<0.011	UC	NS	
Reactive Sulfide SW7.3.4.2						
Reactive Sulfide		mg/kg	6.4		NS	
Total Solids A2540G						
Moisture, Percent		%	21.2		NS	
Total Solids		%	78.8		NS	



Table 1
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ST23 Analytical Results
Riverview Innovation & Technology Campus, Inc.
Town of Tonawanda, New York

Analytes	Sample ID:		TK-SD-ST23-09102021		ST23-TCLP-04052022	
	Sample Date:		9/10/2021		4/5/2022	
	Lab Report Number(s):		R2109413		221448	
	Contents:		Viscous, Black Sludge, Possible Tar Material			
	Hazardous Waste Code(s):		D018			
	TCLP Standards (ug/L)	Units	ST23 - Water Treatment Tank			
BTU/Higher Heat Value						
BTU		BTU/lb	17185		NS	
Notes:						
NS: Not Sampled						
NA: Sample collected, but not analyzed due to matrix interference						
" < ": Analyzed for but detected at or above the quantitation limit						
J: Analyte detected below quantitation limit						
C: Continuing Calibration Verification (CCV) below acceptable limits						
S: Lab Control Sample (LCS) Spike recovery is below acceptable limits						
P: Concentration >40% difference between the two GC columns.						
L: Laboratory Control Sample recovery outside accepted QC limits.						
D: Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range.						
(RSI)*: Additional metals analytes requested by disposal facility RSI						
Bold: Analyte was detected						
Bold with red highlight: Analyte exceeds TCLP standards or is characteristically hazardous for corrosivity, flammability, or reactivity.						



Table 2
Tank Management & Closure CCR
ST23 Analytical Results
Riverview Innovation & Technology Campus, Inc.
Town of Tonawanda, New York

Analytes	Sample ID:		TK-LQ-ST23-09092021		ST23-AQ-04082022	
	Sample Date:		9/9/2021		4/8/2022	
	Lab Report Number(s):		R2109410		221570	
	Contents:		Water Over Possible Tar Material			
	Hazardous Waste Code(s):		None			
	TCLP Standards (ug/L)	Units	ST23 - Water Treatment Tank			
VOCs SW8260C						
1,1,1-Trichloroethane (TCA)		ug/L	<2.0	U	NS	
1,1,2,2-Tetrachloroethane		ug/L	<2.0	U	NS	
1,1,2-Trichloroethane		ug/L	<2.0	U	NS	
1,1,2-Trichloro-1,2,2-Trifluoroethane		ug/L	<2.0	U	NS	
1,1-Dichloroethane		ug/L	<2.0	U	NS	
1,1-Dichloroethene		ug/L	<2.0	U	NS	
1,2,3-Trichlorobenzene		ug/L	<2.5	U	NS	
1,2,4-Trichlorobenzene		ug/L	<3.4	U	NS	
1,2-Dibromo-3-Chloropropane		ug/L	<4.5	U	NS	
1,2-Dibromoethane (Ethylene Dibromide)		ug/L	<2.0	U	NS	
1,2-Dichlorobenzene		ug/L	<2.0	U	NS	
1,2-Dichloroethane		ug/L	<2.0	U	NS	
1,2-Dichloropropane		ug/L	<2.0	U	NS	
1,3-Dichlorobenzene		ug/L	<2.0	U	NS	
1,4-Dichlorobenzene		ug/L	<2.0	U	NS	
1,4-Dioxane (P-Dioxane)		ug/L	<130	U	NS	
Methyl Ethyl Ketone (2-Butanone)		ug/L	11	J	NS	
2-Hexanone		ug/L	<2.0	U	NS	
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)		ug/L	<2.0	U	NS	
Acetone		ug/L	<50	U	NS	
Benzene		ug/L	440		NS	
Bromochloromethane		ug/L	<2.0	U	NS	
Bromodichloromethane		ug/L	<2.0	U	NS	
Bromoform		ug/L	<2.5	U	NS	
Bromomethane		ug/L	<7.0	U	NS	
Carbon Disulfide		ug/L	<4.2	U	NS	
Carbon Tetrachloride		ug/L	<3.4	U	NS	
Chlorobenzene		ug/L	<2.0	U	NS	
Chloroethane		ug/L	<2.3	U	NS	
Chloroform		ug/L	<2.4	U	NS	
Chloromethane		ug/L	<2.8	U	NS	
Cyclohexane		ug/L	<2.6	U	NS	
Dibromochloromethane		ug/L	<2.0	U	NS	
Dichlorodifluoromethane		ug/L	<2.1	U	NS	
Methylene Chloride		ug/L	<6.5	U	NS	
Ethylbenzene		ug/L	4.4	J	NS	
Isopropylbenzene (Cumene)		ug/L	<2.0	U	NS	
Methyl Acetate		ug/L	<3.3	U	NS	
Tert-Butyl Methyl Ether		ug/L	<2.0	U	NS	
Methylcyclohexane		ug/L	<2.0	U	NS	
Styrene		ug/L	14	J	NS	
Tetrachloroethylene (PCE)		ug/L	<2.1	U	NS	



Table 2
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ST23 Analytical Results
Riverview Innovation & Technology Campus, Inc.
Town of Tonawanda, New York

Analytes	Sample ID:		TK-LQ-ST23-09092021		ST23-AQ-04082022	
	Sample Date:		9/9/2021		4/8/2022	
	Lab Report Number(s):		R2109410		221570	
	Contents:		Water Over Possible Tar Material			
	Hazardous Waste Code(s):		None			
	TCLP Standards (ug/L)	Units	ST23 - Water Treatment Tank			
Toluene		ug/L	170		NS	
Trichloroethylene (TCE)		ug/L	<2.0	U	NS	
Trichlorofluoromethane		ug/L	<2.4	U	NS	
Vinyl Chloride		ug/L	<2.0	U	NS	
Cis-1,2-Dichloroethylene		ug/L	<2.3	U	NS	
Cis-1,3-Dichloropropene		ug/L	<2.0	U	NS	
m,p-Xylene		ug/L	63		NS	
O-Xylene (1,2-Dimethylbenzene)		ug/L	19	J	NS	
Trans-1,2-Dichloroethene		ug/L	<2.0	U	NS	
Trans-1,3-Dichloropropene		ug/L	<2.3	U	NS	
SVOCs SW8270D						
1,2,4,5-Tetrachlorobenzene		ug/L	<120	U	NS	
2,3,4,6-Tetrachlorophenol		ug/L	<120	U	NS	
2,4,5-Trichlorophenol		ug/L	<110	U	NS	
2,4,6-Trichlorophenol		ug/L	<140	U	NS	
2,4-Dichlorophenol		ug/L	<130	U	NS	
2,4-Dimethylphenol		ug/L	2300		NS	
2,4-Dinitrophenol		ug/L	<2000	U	NS	
2,4-Dinitrotoluene		ug/L	<240	U	NS	
2,6-Dinitrotoluene		ug/L	<140	U	NS	
2-Chloronaphthalene		ug/L	<140	U	NS	
2-Chlorophenol		ug/L	<110	U	NS	
2-Methylnaphthalene		ug/L	810	J	NS	
2-Methylphenol (O-Cresol)		ug/L	9900		NS	
2-Nitroaniline		ug/L	<140	U	NS	
2-Nitrophenol		ug/L	<150	U	NS	
3,3'-Dichlorobenzidine		ug/L	<120	U	NS	
Cresols, M & P		ug/L	28000		NS	
3-Nitroaniline		ug/L	<110	U	NS	
4,6-Dinitro-2-Methylphenol		ug/L	<870	U	NS	
4-Bromophenyl Phenyl Ether		ug/L	<170	U	NS	
4-Chloro-3-Methylphenol		ug/L	<110	U	NS	
4-Chloroaniline		ug/L	<100	U	NS	
4-Chlorophenyl Phenyl Ether		ug/L	<150	U	NS	
4-Nitroaniline		ug/L	<140	U	NS	
4-Nitrophenol		ug/L	<640	U	NS	
Acenaphthene		ug/L	<140	U	NS	
Acenaphthylene		ug/L	910	J	NS	
Acetophenone		ug/L	<130	U	NS	
Anthracene		ug/L	490	J	NS	
Atrazine		ug/L	<210	U	NS	
Benzo(A)Anthracene		ug/L	500	J	NS	



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Town of Tonawanda, New York

Analytes	Sample ID:		TK-LQ-ST23-09092021		ST23-AQ-04082022	
	Sample Date:		9/9/2021		4/8/2022	
	Lab Report Number(s):		R2109410		221570	
	Contents:		Water Over Possible Tar Material			
	Hazardous Waste Code(s):		None			
	TCLP Standards (ug/L)	Units	ST23 - Water Treatment Tank			
Benzaldehyde		ug/L	<100	U	NS	
Benzo(A)Pyrene		ug/L	540	J	NS	
Benzo(B)Fluoranthene		ug/L	550	J	NS	
Benzo(G,H,I)Perylene		ug/L	330	J	NS	
Benzo(K)Fluoranthene		ug/L	230	J	NS	
Biphenyl (Diphenyl)		ug/L	<140	U	NS	
Bis(2-Chloroisopropyl) Ether		ug/L	<140	U	NS	
Bis(2-Chloroethoxy) Methane		ug/L	<190	U	NS	
Bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)		ug/L	<130	U	NS	
Bis(2-Ethylhexyl) Phthalate		ug/L	<780	U	NS	
Benzyl Butyl Phthalate		ug/L	<140	U	NS	
Caprolactam		ug/L	<100	U	NS	
Carbazole		ug/L	830	J	NS	
Chrysene		ug/L	670	J	NS	
Di-N-Butyl Phthalate		ug/L	<170	U	NS	
Di-N-Octylphthalate		ug/L	<330	U	NS	
Dibenz(A,H)Anthracene		ug/L	<110	U	NS	
Dibenzofuran		ug/L	460	J	NS	
Diethyl Phthalate		ug/L	<110	U	NS	
Dimethyl Phthalate		ug/L	<130	U	NS	
Fluoranthene		ug/L	1400		NS	
Fluorene		ug/L	740	J	NS	
Hexachlorobenzene		ug/L	<160	U	NS	
Hexachlorobutadiene		ug/L	<100	U	NS	
Hexachlorocyclopentadiene		ug/L	<220	U	NS	
Hexachloroethane		ug/L	<110	U	NS	
Indeno(1,2,3-C,D)Pyrene		ug/L	300	J	NS	
Isophorone		ug/L	<140	U	NS	
N-Nitrosodi-N-Propylamine		ug/L	<120	U	NS	
N-Nitrosodiphenylamine		ug/L	<270	U	NS	
Naphthalene		ug/L	3800		NS	
Nitrobenzene		ug/L	<150	U	NS	
Pentachlorophenol		ug/L	<970	U	NS	
Phenanthrene		ug/L	2300		NS	
Phenol		ug/L	26000		NS	
Pyrene		ug/L	1100		NS	



Table 2
Tank Management & Closure CCR
ST23 Analytical Results
Riverview Innovation & Technology Campus, Inc.
Town of Tonawanda, New York

Analytes	Sample ID:		TK-LQ-ST23-09092021		ST23-AQ-04082022	
	Sample Date:		9/9/2021		4/8/2022	
	Lab Report Number(s):		R2109410		221570	
	Contents:		Water Over Possible Tar Material			
	Hazardous Waste Code(s):		None			
	TCLP Standards (ug/L)	Units	ST23 - Water Treatment Tank			
TAL Metals SW6010						
Aluminum		ug/L	2480		NS	
Antimony		ug/L	<60.0	U	NS	
Arsenic		ug/L	17.3		NS	
Barium		ug/L	39.6		NS	
Beryllium		ug/L	0.200	J	NS	
Boron (RSI)*		ug/L	404		NS	
Cadmium		ug/L	1.8	J	NS	
Calcium		ug/L	29000		NS	
Chromium, Total		ug/L	40.3		NS	
Cobalt		ug/L	9.4	J	NS	
Copper		ug/L	34.3		NS	
Iron		ug/L	29400		NS	
Lead		ug/L	111		NS	
Magnesium		ug/L	3900		NS	
Manganese		ug/L	1160		NS	
Molybdenum (RSI)*		ug/L	<25.0	J	NS	
Nickel		ug/L	10.0	J	NS	
Potassium		ug/L	2800		NS	
Selenium		ug/L	45.3		NS	
Silver		ug/L	<10.0	U	NS	
Sodium		ug/L	104000		NS	
Sulfur (RSI)* (6010C)		mg/L	642	C	NS	
Thallium		ug/L	<10.0	U	NS	
Vanadium		ug/L	7.3	J	NS	
Uranium (RSI)* (6020A)		ug/L	<5.0	U	NS	
Zinc		ug/L	147		NS	
Mercury SW7471						
Mercury		ug/L	0.241		NS	
E350.1M						
Nitrogen, Ammonia (As N)		mg/L	765000		618	
SW9012B						
Cyanide		mg/L	164		0.769	



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Analytes	Sample ID:		TK-LQ-ST23-09092021		ST23-AQ-04082022	
	Sample Date:		9/9/2021		4/8/2022	
	Lab Report Number(s):		R2109410		221570	
	Contents:		Water Over Possible Tar Material			
	Hazardous Waste Code(s):		None			
	TCLP Standards (ug/L)	Units	ST23 - Water Treatment Tank			
PCBs 8082A						
PCB-1016 (Aroclor 1016)		ug/L	<0.50	U	NS	
PCB-1221 (Aroclor 1221)		ug/L	<1.0	U	NS	
PCB-1232 (Aroclor 1232)		ug/L	<0.50	U	NS	
PCB-1242 (Aroclor 1242)		ug/L	<0.50	U	NS	
PCB-1248 (Aroclor 1248)		ug/L	<0.50	U	NS	
PCB-1254 (Aroclor 1254)		ug/L	<0.50	U	NS	
PCB-1260 (Aroclor 1260)		ug/L	<0.50	U	NS	
Pesticides 8081B						
P,P'-DDD		ug/L	<0.020	U	NS	
P,P'-DDE		ug/L	<0.020	U	NS	
P,P'-DDT		ug/L	<0.020	U	NS	
Aldrin		ug/L	<0.020	U	NS	
Dieldrin		ug/L	<0.020	U	NS	
Alpha Endosulfan		ug/L	<0.020	U	NS	
Beta Endosulfan		ug/L	<0.020	U	NS	
Endosulfan Sulfate		ug/L	<0.020	U	NS	
Endrin		ug/L	<0.020	U	NS	
Endrin Aldehyde		ug/L	<0.020	U	NS	
Endrin Ketone		ug/L	<0.020	U	NS	
Heptachlor		ug/L	<0.020	U	NS	
Heptachlor Epoxide		ug/L	<0.020	U	NS	
Methoxychlor		ug/L	<0.020	U	NS	
Toxaphene		ug/L	<0.50	U	NS	
Alpha Bhc (Alpha Hexachlorocyclohexane)		ug/L	<0.020	U	NS	
cis-Chlordane		ug/L	<0.020	U	NS	
Beta Bhc (Beta Hexachlorocyclohexane)		ug/L	<0.020	U	NS	
Delta BHC (Delta Hexachlorocyclohexane)		ug/L	<0.020	U	NS	
Gamma Bhc (Lindane)		ug/L	<0.020	U	NS	
Chlordane (Technical)		ug/L	<0.020	U	NS	
Herbicides SW8151A						
Acetic acid, (2,4,5-trichlorophenoxy)-		ug/L	<14	U	NS	
Silvex (2,4,5-TP)		ug/L	<12	U	NS	
2,4-D (Dichlorophenoxyacetic Acid)		ug/L	310	P	NS	
Dicamba		ug/L	<12	U	NS	
SW9045D						
pH		ph units	7.51		NS	



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ST23 Analytical Results
Riverview Innovation & Technology Campus, Inc.
Town of Tonawanda, New York

Analytes	Sample ID:		TK-LQ-ST23-09092021		ST23-AQ-04082022	
	Sample Date:		9/9/2021		4/8/2022	
	Lab Report Number(s):		R2109410		221570	
	Contents:		Water Over Possible Tar Material			
	Hazardous Waste Code(s):		None			
	TCLP Standards (ug/L)	Units	ST23 - Water Treatment Tank			
SW1010						
Flash Point		deg f	NA		Did not flash	
SW7.3.3.2						
Reactive Cyanide		mg/l	NA		NS	
SW7.3.4.2						
Reactive Sulfide		mg/kg	NA		NS	
BTU/High Heat Value						
BTU		BTU/lb	585		NS	
Notes:						
NS: Not Sampled						
NA: Sample collected, but not analyzed due to matrix interference						
<"<: Analyzed for but detected at or above the quantitation limit						
J: Analyte detected below quantitation limit						
C: Continuing Calibration Verification (CCV) below acceptable limits						
S: Lab Control Sample (LCS) Spike recovery is below acceptable limits						
P: Concentration >40% difference between the two GC columns.						
L: Laboratory Control Sample recovery outside accepted QC limits.						
D: Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range.						
(RSI)*: Additional metals analytes requested by disposal facility RSI						
Bold: Analyte was detected						
Bold with red highlight: Analyte exceeds TCLP standards or is characteristically hazardous for corrosivity, flammability, or reactivity.						



INVENTUM ENGINEERING, PC

Attachment B – Photographic Log

Client Name: RITC	Date Photo was Taken: 9/25/2020	Project: RITC
Photo No. 1 Direction Photo Taken: View is east.		
Description: ST23 was one of three large water treatment tanks located on the southern property boundary. It was the eastern-most tank in the area, outlined in yellow.		
Client Name: RITC	Date Photo was Taken: 9/9/2021	Project: RITC
Photo No. 2 Direction Photo Taken: View is south.		
Description: The northern face of ST23. The tank was constructed of riveted steel and surrounded by dense vegetation.		

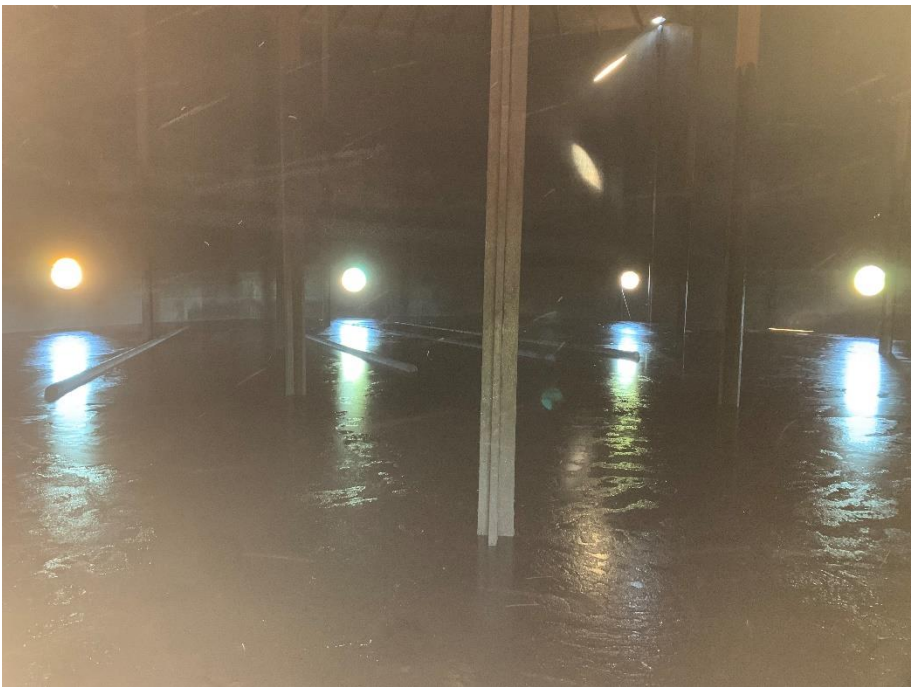


Client Name: RITC	Date Photo was Taken: 9/17/2021	Project: RITC
Photo No. 3		
Direction Photo Taken: View is aerial.		
Description: ST23 and associated piping between ST23 and ST22 (center tank).		
Client Name: RITC	Date Photo was Taken: 4/11/2022	Project: RITC
Photo No. 4		
Direction Photo Taken: View is south.		
Description: Piping between ST23 (left) and ST22 (right). Temporary backfill from the Boiler House is unloaded around the water treatment tanks (center, south).		



Client Name: RITC	Date Photo was Taken: 4/11/2022	Project: RITC
Photo No. 5		
Direction Photo Taken: View is south.		
Description: Valves and piping on the western face of ST23. Possible tar residuals can be observed and are outlined in yellow.		
Client Name: RITC	Date Photo was Taken: 6/1/2022	Project: RITC
Photo No. 6		
Direction Photo Taken: View is southeast.		
Description: The roof of ST23 is inspected in preparation for dismantlement. No major structural defects are observed.		

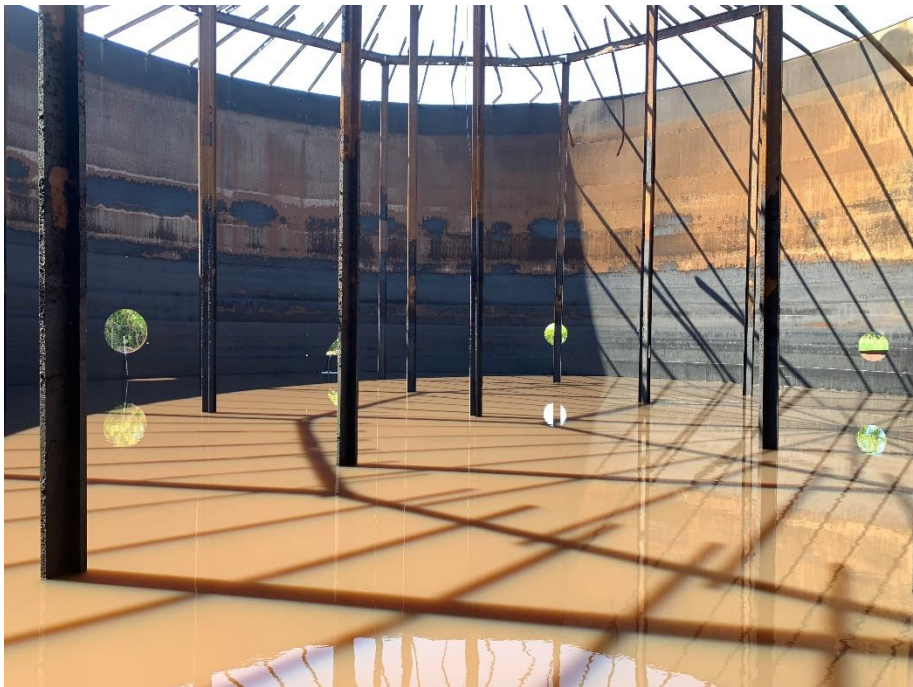


Client Name: RITC	Date Photo was Taken: 6/21/2022	Project: RITC
Photo No. 7		
Direction Photo Taken: View is east.		
Description: A ventilation hole is cut by water jetting on the south face of ST23.		
Client Name: RITC	Date Photo was Taken: 6/23/2022	Project: RITC
Photo No. 8		
Direction Photo Taken: View is tank interior, south.		
Description: Ventilation holes are cut approximately equidistant around the perimeter of ST23. Structural support beams and horizontal piping can be observed.		



Client Name: RITC	Date Photo was Taken: 6/28/2022	Project: RITC
Photo No. 9		
Direction Photo Taken: View is south.		
Description: An operator attaches cables to the roof of ST23 in preparation for roof removal (traced in yellow).		
Client Name: RITC	Date Photo was Taken: 6/29/2022	Project: RITC
Photo No. 10		
Direction Photo Taken: View is southwest.		
Description: An operator prepares to pull off the roof of ST23.		



Client Name: RITC	Date Photo was Taken: 6/29/2022	Project: RITC
Photo No. 11 Direction Photo Taken: View is south.		
Description: The roof of ST23 is successfully removed.		
Client Name: RITC	Date Photo was Taken: 7/7/2022	Project: RITC
Photo No. 12 Direction Photo Taken: View is south.		
Description: The interior of ST23.		



Client Name: RITC	Date Photo was Taken: 7/7/2022	Project: RITC
Photo No. 13 Direction Photo Taken: View is south.		
Description: The steel roof support structure of ST23.		
Client Name: RITC	Date Photo was Taken: 7/15/2022	Project: RITC
Photo No. 14 Direction Photo Taken: View is south.		
Description: ST23 sidewalls are dismantled to access the support structure.		



Client Name: RITC	Date Photo was Taken: 7/21/2022	Project: RITC
Photo No. 15 Direction Photo Taken: View is south.		
Description: ST23 side walls have been removed and the support structure is prepared to be removed.		
Client Name: RITC	Date Photo was Taken: 7/21/2022	Project: RITC
Photo No. 16 Direction Photo Taken: View is south.		
Description: The ST23 support structure is tipped.		



Client Name: RITC	Date Photo was Taken: 8/29/2022	Project: RITC
Photo No. 17		
Direction Photo Taken: View is south.		
Description: ST23 residuals consist of relatively low viscosity, black, possible tar sludge.		
Client Name: RITC	Date Photo was Taken: 9/16/2022	Project: RITC
Photo No. 18		
Direction Photo Taken: View is east.		
Description: ST22 (foreground) and ST23 are mixed with sawdust and LKD.		



Client Name: RITC	Date Photo was Taken: 9/23/2022	Project: RITC
Photo No. 19		
Direction Photo Taken: View is north.		
Description: ST23 is mixed with sawdust and LKD.		
Client Name: RITC	Date Photo was Taken: 10/24/2022	Project: RITC
Photo No. 20		
Direction Photo Taken: View is aerial.		
Description: ST23 is mixed with sawdust and LKD.		



Client Name: RITC	Date Photo was Taken: 11/4/2022	Project: RITC
Photo No. 21		
Direction Photo Taken: View is north.		
Description: The steel base of ST23 is lifted. The footprint of ST23 has been dewatered to allow preliminary visual observation of the bedding sand.		





INVENTUM ENGINEERING, PC

Attachment C – Waste Manifests

Please print or type.

Form Approved. OMB No. 2050-0039

7484

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NYD008413877	2. Page 1 of 1	3. Emergency Response Phone 1-800-424-9300	4. Manifest Tracking Number 023894125 JJK		
5. Generator's Name and Mailing Address Riverview Innovation and Technology Campus 140 Lee Street, Suite 200 Buffalo NY 14210 716-856-3333				Generator's Site Address (if different than mailing address) 3875 River Road Tonawanda New York 14151			
6. Transporter 1 Company Name Laidlaw Carriers Bulk				U.S. EPA ID Number MID980619936			
7. Transporter 2 Company Name				U.S. EPA ID Number			
8. Designated Facility Name and Site Address 8439117 Canada INC /RSI Environnemental 80 rue des Mélèzes St, Ambroise QC G7P2N4 418-695-3302				U.S. EPA ID Number 116 904 5474			
Facility's Phone:							
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No. Type		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
1.	UN 3077 Waste Environmentally hazardous substance, solid, NOS, 9 ,PG III (coal tar)	1	CM	35 EST	T	DD18	
2.							
3.							
4.							
14. Special Handling Instructions and Additional Information 1-EQ Northeast Inc., acting as the recognized trader arranging for export. 2- AOC #029672E21004 3- CDN Manifest : 4- RSI TAG 5-Fedex AS 400 6-ITN X20220920365510 #ERG 171#							
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Offeror's Printed/Typed Name Kirsten Colligan on behalf of RITC				Signature [Signature] on behalf of RITC		Month Day Year 09 20 22	
16. International Shipments ☐ Import to U.S. ☒ Export from U.S. Port of entry/exit: Lacolle Quebec Transporter signature (for exports only): Date leaving U.S.:							
17. Transporter Acknowledgment of Receipt of Materials							
Transporter 1 Printed/Typed Name Tanner Blackburn				Signature [Signature]		Month Day Year 09 20 22	
Transporter 2 Printed/Typed Name				Signature		Month Day Year	
18. Discrepancy							
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection							
18b. Alternate Facility (or Generator) Manifest Reference Number: U.S. EPA ID Number:							
Facility's Phone:							
18c. Signature of Alternate Facility (or Generator) Month Day Year							
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
1. H040		2.		3.		4.	
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a							
Printed/Typed Name Soledyn Monar				Signature [Signature]		Month Day Year 09 21 22	

Please print or type.

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NYD008413877	2. Page 1 of 1	3. Emergency Response Phone CCN 101139 1-800-424-9300	4. Manifest Tracking Number 023894412 JJK	
5. Generator's Name and Mailing Address Riverside Innovation & Technology Campus 140 Lee Street, Suite 200 Buffalo NY 14210 716-856-3333			Generator's Site Address (if different than mailing address) 3874 River Road Tonawanda New York 14151			
Generator's Phone:						
6. Transporter 1 Company Name Goulet Trucking Inc			U.S. EPA ID Number MAC300006018			
7. Transporter 2 Company Name			U.S. EPA ID Number			
8. Designated Facility Name and Site Address 8439117 Canada INC /RSI Environnemental 80 rue des Mélèzes St. Ambroise QC G7P2N4 418-695-3302			U.S. EPA ID Number 116 904 5474			
Facility's Phone:						
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No. Type		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
1.	UN 3077 Environmentally hazardous substance, solid NOS 9 PG III (coal tar)	1 CM		28	T	DD18
2.						
3.						
4.						
14. Special Handling Instructions and Additional Information 1-EQ Northeast Inc. acting as the recognized trader arranging for export 3- CDN Manifest 6-ITN X2022019060844 4- RSI TAG #ERG 171# 2- AOC #029672E21004 5- Fedex AS 400 Secur-T 0033174 ST23						
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.						
Generator's/Offor's Printed/Typed Name Kirsten Colligan on behalf of B.I.T.C.		Signature <i>[Signature]</i>		Month Day Year 10/19/22		
16. International Shipments ☐ Import to U.S. ☒ Export from U.S.		Port of entry/exit: La Colle Date leaving U.S.: 10-20-22				
17. Transporter Acknowledgment of Receipt of Materials						
Transporter 1 Printed/Typed Name Rich Wright		Signature <i>[Signature]</i>		Month Day Year 10/19/22		
Transporter 2 Printed/Typed Name		Signature		Month Day Year		
18. Discrepancy						
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection						
18b. Alternate Facility (or Generator)				Manifest Reference Number: U.S. EPA ID Number		
Facility's Phone:						
18c. Signature of Alternate Facility (or Generator)						Month Day Year
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)						
1.	2.	3.	4.			
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a						
Printed/Typed Name Pierre Huot		Signature <i>[Signature]</i>		Month Day Year 10/20/22		

Please print or type.

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NYD008413877		2. Page 1 of 1		3. Emergency Response Phone CC 810 1139 1-800-424-9300		4. Manifest Tracking Number 023894413 JJK					
		5. Generator's Name and Mailing Address Riverside Innovation & Technology Campus 140 Lee Street, Suite 200 Buffalo NY 14210 716-856-3333						Generator's Site Address (if different than mailing address) 3874 River Road Tonawanda New York 3875 14151 KC 10/24/22					
6. Transporter 1 Company Name Goulet Trucking Inc								U.S. EPA ID Number MAC300006038					
7. Transporter 2 Company Name								U.S. EPA ID Number					
8. Designated Facility Name and Site Address 8439117 Canada INC /RSI Environnemental 80 rue des Mélèzes St. Ambroise QC G7P2N4 418-695-3302								U.S. EPA ID Number 116 904 5474					
Facility's Phone:													
9a. HM		9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))				10. Containers No. Type		11. Total Quantity		12. Unit Wt./Vol.		13. Waste Codes	
1.		UN 3077 Environmentally hazardous substance, solid, NOS, 9 PG III (coal tar)				1		28		T		D018	
2.								EST					
3.													
4.													
14. Special Handling Instructions and Additional Information 1-EQ Northeast Inc. acting as the recognized trader arranging for export 3- CDN Manifest 6-ITN 4- RSI TAG 2- AUC #029572E21004 5-Fedex AS 400 Secur-T 0033175 #ERG 171# ST23													
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.													
Generator's/Offoror's Printed/Typed Name Kirsten Colligan on behalf of RITC													
Signature [Signature] on behalf of RITC													
Month Day Year 10 24 22													
16. International Shipments ☐ Import to U.S. ☒ Export from U.S. Port of entry/exit: LaColle QC Transporter signature (for exports only): [Signature] Date leaving U.S.: 22/10/24													
17. Transporter Acknowledgment of Receipt of Materials													
Transporter 1 Printed/Typed Name KEVIN JIKES (2120)													
Signature [Signature]													
Month Day Year 10 24 22													
Transporter 2 Printed/Typed Name													
Signature													
Month Day Year													
18. Discrepancy													
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection													
18b. Alternate Facility (or Generator) Manifest Reference Number: U.S. EPA ID Number													
Facility's Phone:													
18c. Signature of Alternate Facility (or Generator) Month Day Year													
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)													
1. 2. 3. 4.													
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a													
Printed/Typed Name Pierre Hoot													
Signature [Signature]													
Month Day Year 10 25 22													

Please print or type.

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NYD008413877		2. Page 1 of 1	3. Emergency Response Phone CCN 101139 1-800-424-9300		4. Manifest Tracking Number 023894414 JJK			
5. Generator's Name and Mailing Address Riverside Innovation & Technology Campus 140 Lee Street, Suite 200 Buffalo NY 14210 716-856-3333					Generator's Site Address (if different than mailing address) 3874 River Road Tonawanda New York 3875 14151					
6. Transporter 1 Company Name Goulet Trucking Inc					U.S. EPA ID Number MAC300006038					
7. Transporter 2 Company Name					U.S. EPA ID Number					
8. Designated Facility Name and Site Address 8439117 Canada INC /RSI Environnemental 80 rue des Mélèzes St. Ambroise QC G7P2N4 418-695-3302					U.S. EPA ID Number 116 904 5474					
Facility's Phone:										
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))				10. Containers No. Type		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
X	1. UN 3077 Environmentally hazardous substance, solid, NOS, 9 PG III (coal tar)				1		CM	28	T	D018
	2.									
	3.									
	4.									
14. Special Handling Instructions and Additional Information 1-EQ Northeast Inc. acting as the recognized trader arranging for export 3- CDN Manifest 6-ITN X2002102540744 #ERG 171# 2- AOC #029672E21004 5-Fedex AS 400										
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.										
Generator's/Offor's Printed/Typed Name Kirsten Colligan					Signature <i>[Signature]</i>			Month Day Year 10 25 22		
16. International Shipments ☐ Import to U.S. ☒ Export from U.S. Port of entry/exit: LaCrosse, QC Transporter signature (for exports only): <i>[Signature]</i> Date leaving U.S.: 10/26/22										
17. Transporter Acknowledgment of Receipt of Materials										
Transporter 1 Printed/Typed Name Alfred Whelan					Signature <i>[Signature]</i>			Month Day Year 10 26 22		
Transporter 2 Printed/Typed Name					Signature			Month Day Year		
18. Discrepancy										
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection										
Manifest Reference Number:										
18b. Alternate Facility (or Generator)					U.S. EPA ID Number					
Facility's Phone:										
18c. Signature of Alternate Facility (or Generator)								Month Day Year		
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)										
1. H0110		2.		3.		4.				
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a										
Printed/Typed Name Pierre Hoot					Signature <i>[Signature]</i>			Month Day Year 10 27 22		

Please print or type.

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NYD008413877	2. Page 1 of 1	3. Emergency Response Phone CCW 101/139 1-800-424-9300	4. Manifest Tracking Number 023894415 JJK	
5. Generator's Name and Mailing Address Riverside Innovation & Technology Campus 140 Lee Street, Suite 200 Buffalo NY 14210 716-856-3333			Generator's Site Address (if different than mailing address) 3875 River Road Tonawanda New York 3875 14151			
Generator's Phone:						
6. Transporter 1 Company Name Goulet Trucking Inc			U.S. EPA ID Number MAC380006038			
7. Transporter 2 Company Name			U.S. EPA ID Number			
8. Designated Facility Name and Site Address 8439117 Canada INC /RSI Environnemental 80 rue des Mélèzes St. Ambroise QC G7P2N4 418-695-3302			U.S. EPA ID Number 116 904 5474			
Facility's Phone:						
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. UN 3077 Environmentally hazardous substance. solid, NOS, 9, PG III (coal tar)	1	CM	28 EST	T	DD18
	2.					
	3.					
	4.					
14. Special Handling Instructions and Additional Information 1-EQ Northeast Inc., acting as the recognized trader arranging for export. 2-AOC #029672E21004 3- CDN Manifest 4- RSI TAG 5-Fedex AS 400 6-ITN X20221025409535 #ERG 171# Secur-T 0033206 ST 23						
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.						
Generator's/Offor's Printed/Typed Name Kirsten Colligan on behalf of RITC			Signature [Signature]		Month Day Year 10 25 22	
16. International Shipments ☐ Import to U.S. ☒ Export from U.S. Port of entry/exit: Champlain NY Transporter signature (for exports only): William Wasilefsky Date leaving U.S.: 10/26/22						
17. Transporter Acknowledgment of Receipt of Materials						
Transporter 1 Printed/Typed Name William Wasilefsky			Signature [Signature]		Month Day Year 10 25 22	
Transporter 2 Printed/Typed Name			Signature		Month Day Year	
18. Discrepancy						
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection						
Manifest Reference Number:						
18b. Alternate Facility (or Generator) U.S. EPA ID Number						
Facility's Phone:						
18c. Signature of Alternate Facility (or Generator) Month Day Year						
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)						
1. H040		2.		3.		4.
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a						
Printed/Typed Name Mike Host			Signature [Signature]		Month Day Year 10 27 22	

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NYD008413877		2. Page 1 of 1		3. Emergency Response Phone CCN 1011139 1-800-424-9300		4. Manifest Tracking Number 023894416 JJK							
		5. Generator's Name and Mailing Address Riverside Innovation & Technology Campus 140 Lee Street, Suite 200 Buffalo NY 14210 716-856-3333						Generator's Site Address (if different than mailing address) 3874 River Road Tonawanda New York 3875 14151							
6. Generator's Phone:		6. Transporter 1 Company Name Goulet Trucking Inc						U.S. EPA ID Number MAC300006038							
7. Transporter 2 Company Name								U.S. EPA ID Number							
8. Designated Facility Name and Site Address 8439117 Canada INC /RSI Environnemental 80 rue des Mèlèzes St. Ambroise QC G7P2N4 418-695-3302								U.S. EPA ID Number 116 904 5474							
Facility's Phone:															
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))					10. Containers No. Type		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes					
X	1. UN 3077 Environmentally hazardous substance, solid, NOS. 9, PG III (coal tar)					1		CM	28	1	D018				
	2.														
	3.														
	4.														
14. Special Handling Instructions and Additional Information 1-EQ Northeast Inc., acting as the recognized trader arranging for export 3- CDN Manifest 6-ITN X 20221026454628 #ERG 171# 2- AOC #029672021004 032423E22004 5-Fedex AS 400 Secur-T 0033207 ST 23															
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.															
Generator's/Offeror's Printed/Typed Name Kristen Collier on behalf of RITC						Signature [Signature]		Month 10		Day Year 26 22					
16. International Shipments ☐ Import to U.S. ☒ Export from U.S. Port of entry/exit: Date leaving U.S.:															
17. Transporter Acknowledgment of Receipt of Materials															
Transporter 1 Printed/Typed Name WAYNE V. P						Signature [Signature]		Month 10		Day Year 26 22					
Transporter 2 Printed/Typed Name						Signature		Month		Day Year					
18. Discrepancy															
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection															
Manifest Reference Number:															
18b. Alternate Facility (or Generator) U.S. EPA ID Number															
Facility's Phone:															
18c. Signature of Alternate Facility (or Generator)										Month Day Year					
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)															
1. H040				2.				3.				4.			
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a															
Printed/typed Name Vicki Hoot						Signature [Signature]		Month 10		Day Year 26 22					

7492

DESIGNATED FACILITY TO EPA'S e-MANIFEST SYSTEM

7486

Please print or type.

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NYD008413877		2. Page 1 of 1	3. Emergency Response Phone CCN 101139 1-800-424-9300		4. Manifest Tracking Number 023894127 JJK	
5. Generator's Name and Mailing Address Riverview Innovation and Technology Campus 140 Lee Street, Suite 200 Buffalo NY 14210 716-856-3333					Generator's Site Address (if different than mailing address) 3875 River Road Tonawanda New York 14151			
6. Transporter 1 Company Name Laidlaw Carriers Bulk					U.S. EPA ID Number MID980619936			
7. Transporter 2 Company Name					U.S. EPA ID Number			
8. Designated Facility Name and Site Address 8439117 Canada INC /RSI Environnemental 80 rue des Mélèzes St. Ambroise QC G7P2N4 418-695-3302					U.S. EPA ID Number 116 904 5474			
Facility's Phone:								
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))			10. Containers No. Type		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
1.	UN 3077 Waste Environmentally hazardous substance, solid, NOS, 9, PG III (coal tar)			1		CM	35 EST	T D018
2.								
3.								
4.								
14. Special Handling Instructions and Additional Information 1-EQ Northeast Inc., acting as the recognized trader arranging for export. 2-AOC #029672E21004 3- CDN Manifest : 4- RSI TAG 5-Fedex AS 400 6-ITN X20230920374480 #ERG 171# Secur-T 0033153 ST23								
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.								
Generator's/Offeror's Printed/Typed Name Kirsten Colligan on behalf of RITC				Signature K on behalf of RITC		Month Day Year 09 20 22		
16. International Shipments ☐ Import to U.S. ☒ Export from U.S. Port of entry/exit: Coos Bay, OR Date leaving U.S.: 9/20/22								
17. Transporter Acknowledgment of Receipt of Materials								
Transporter 1 Printed/Typed Name Chris Roussel				Signature C		Month Day Year 9 20 22		
Transporter 2 Printed/Typed Name				Signature		Month Day Year		
18. Discrepancy								
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection								
Manifest Reference Number:								
18b. Alternate Facility (or Generator) U.S. EPA ID Number								
Facility's Phone:								
18c. Signature of Alternate Facility (or Generator) Month Day Year								
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)								
1. H040		2.		3.		4.		
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a								
Printed/Typed Name Miguel waltzing				Signature		Month Day Year 09 21 22		

Please print or type.

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NYD008413877	2. Page 1 of 1	3. Emergency Response Phone CCN 1011139 1-800-424-9300	4. Manifest Tracking Number 023894128 JJK	
5. Generator's Name and Mailing Address Riverview Innovation and Technology Campus 140 Lee Street, Suite 200 Buffalo NY 14210 716-856-3333			Generator's Site Address (if different than mailing address) 3875 River Road Tonawanda New York 14151			
6. Transporter 1 Company Name Laidlaw Carriers Bulk			U.S. EPA ID Number MID980619936			
7. Transporter 2 Company Name			U.S. EPA ID Number			
8. Designated Facility Name and Site Address 8439117 Canada INC /RSI Environnemental 80 rue des Mélèzes St. Ambroise QC G7P2N4 418-695-3302			U.S. EPA ID Number 116 904 5474			
Facility's Phone:						
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No. Type		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. UN 3077 Waste Environmentally hazardous substance, solid, NOS, 9, PG III (coal tar)	1	CM	35 <i>EST</i>	T	D018
	2.					
	3.					
	4.					
14. Special Handling Instructions and Additional Information 1-EQ Northeast Inc., acting as the recognized trader arranging for export 3- CDN Manifest 4- RSI TAG 2-AOC #029672E21004 6-ITN X20220926728377 #ERG 171# 5-Fedex AS 400 Secur-T 0033137 ST23						
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.						
Generator's/Offor's Printed/Typed Name Kirsten Colligan on behalf of RITC		Signature <i>K</i>		Month Day Year 09 26 22		
16. International Shipments ☐ Import to U.S. ☒ Export from U.S.		Port of entry/exit: LAFOUR Date leaving U.S.: SEPT-26/02				
17. Transporter Acknowledgment of Receipt of Materials						
Transporter 1 Printed/Typed Name CARL VOYLES		Signature <i>Carl Voyles</i>		Month Day Year 09 26 22		
Transporter 2 Printed/Typed Name		Signature		Month Day Year		
18. Discrepancy						
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection						
Manifest Reference Number:						
18b. Alternate Facility (or Generator) U.S. EPA ID Number						
Facility's Phone:						
18c. Signature of Alternate Facility (or Generator) Month Day Year						
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)						
1. H040	2.	3.	4.			
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a						
Printed/Typed Name Socely Monro		Signature <i>Socely</i>		Month Day Year 09 26 22		

Please print or type.

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NYD008413877	2. Page 1 of 1	3. Emergency Response Phone CCN 1611134 1-800-424-9300	4. Manifest Tracking Number 023894129 JJK			
5. Generator's Name and Mailing Address Riverview Innovation and Technology Campus 140 Lee Street, Suite 200 Buffalo NY 14210 716-856-3333				Generator's Site Address (if different than mailing address) 3875 River Road Tonawanda New York 14151				
6. Transporter 1 Company Name Laidlaw Carriers Bulk				U.S. EPA ID Number MID980619936				
7. Transporter 2 Company Name 115 9213				U.S. EPA ID Number				
8. Designated Facility Name and Site Address 8439117 Canada INC /RSI Environnemental 80 rue des Mélézes St. Ambroise QC G7P2N4 418-695-3302				U.S. EPA ID Number 116 904 5474				
Facility's Phone:								
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))		10. Containers		11. Total Quantity	12. Unit WL/Vol.	
				No.	Type			
	X	UN 3077. Waste Environmentally hazardous substance, solid. NOS. 9 .PG III (coal tar)		1	CM	35 EST	T	
13. Waste Codes								
14. Special Handling Instructions and Additional Information 1-EQ Northeast Inc., acting as the recognized trader arranging for export 3- CDN Manifest 6-ITN X20220926729064 #ERG 171# 2- AOC #029672E21004 0033139 5-Fedex AS 400 Secur - T ST23								
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.								
Generator's/Offor's Printed/Typed Name Kirsten Colligan on behalf of RITC								
Signature [Signature]								
Month Day Year 09 26 22								
TRANSPORTER	16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit: LACOLLE QC							
	Transporter signature (for exports only): [Signature] Date leaving U.S.: [Signature]							
	17. Transporter Acknowledgment of Receipt of Materials							
Transporter 1 Printed/Typed Name Gerry Blackburn				Signature [Signature]				
Transporter 2 Printed/Typed Name				Signature				
				Month Day Year				
				Month Day Year				
DESIGNATED FACILITY	18. Discrepancy							
	18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection							
	Manifest Reference Number:							
	18b. Alternate Facility (or Generator)				U.S. EPA ID Number			
	Facility's Phone:							
18c. Signature of Alternate Facility (or Generator)								
Month Day Year								
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)								
1. H01/0		2.		3.		4.		
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a								
Printed/Typed Name Socelyn Moaw				Signature [Signature]				
				Month Day Year 09 28 22				

Please print or type.

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NYD008413877		2. Page 1 of 1	3. Emergency Response Phone CCN 101139 1-800-424-9300		4. Manifest Tracking Number 023894130 JJK			
5. Generator's Name and Mailing Address Riverview Innovation and Technology Campus 140 Lee Street, Suite 200 Buffalo NY 14210 716-856-3333					Generator's Site Address (if different than mailing address) 3875 River Road Tonawanda New York 14151					
6. Transporter 1 Company Name Laidlaw Carriers Bulk					U.S. EPA ID Number MID980619936					
7. Transporter 2 Company Name					U.S. EPA ID Number					
8. Designated Facility Name and Site Address 8439117 Canada INC /RSI Environnemental 80 rue des Mélézes St. Ambrise QC G7P2N4 418-695-3302					U.S. EPA ID Number 116 904 5474					
Facility's Phone:										
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))			10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
					No.	Type				
	X	1.	UN 3077 Waste Environmentally hazardous substance, solid, NOS, 9, PG III (coal tar)			1	CM	35	T	D018
		2.						EST		
		3.								
	4.									
14. Special Handling Instructions and Additional Information 1-EQ Northeast Inc., acting as the recognized trader arranging for export 3- CDN Manifest: 6-ITNY 225726728276 #ERG 171# 2-AOC #029672E21004 0033138 4- RSI TAG 5-Fedex AS 400 Secur-T ST 23										
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.										
Generator's/Offoror's Printed/Typed Name Kirsten Colligan on behalf of RITC										
Signature [Signature] on behalf of RITC										
Month Day Year 09 26 22										
INT'L	16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit: Lacolle QC Transporter signature (for exports only): [Signature] Date leaving U.S.: [Signature]									
	17. Transporter Acknowledgment of Receipt of Materials									
	Transporter 1 Printed/Typed Name: Tanner Blackburn Signature: [Signature] Month Day Year: 09 26 22									
TRANSPORTER	Transporter 2 Printed/Typed Name: Signature: Month Day Year:									
	18. Discrepancy									
	18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection Manifest Reference Number: U.S. EPA ID Number									
DESIGNATED FACILITY	18b. Alternate Facility (or Generator) U.S. EPA ID Number									
	Facility's Phone: 31741									
	18c. Signature of Alternate Facility (or Generator) Month Day Year:									
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)										
1. H040 2. 3. 4.										
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a										
Printed/Typed Name: Jocelyn Monney Signature: [Signature] Month Day Year: 09 28 22										

Please print or type.

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UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NYD008413877		2. Page 1 of 1		3. Emergency Response Phone CCN 101131 1-800-424-9300		4. Manifest Tracking Number 023894131 JJK			
		5. Generator's Name and Mailing Address Riverview Innovation and Technology Campus 140 Lee Street, Suite 200 Buffalo NY 14210 716-856-3333						Generator's Site Address (if different than mailing address) 3875 River Road Tonawanda New York 14151			
6. Transporter 1 Company Name Laidlaw Carriers Bulk		U.S. EPA ID Number MID980619936									
7. Transporter 2 Company Name		U.S. EPA ID Number									
8. Designated Facility Name and Site Address 8439117 Canada INC /RSI Environnemental 80 rue des Mélèzes St. Ambroise QC G7P2N4 418-695-3302		U.S. EPA ID Number 116 904 5474									
Facility's Phone:											
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))				10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
						No.	Type				
	X	1. UN 3077 Waste Environmentally hazardous substance, solid, NOS, 9, PG III (coal tar)				1	CM	35 EST	T	D018	
		2.									
		3.									
	4.										
14. Special Handling Instructions and Additional Information 1-EQ Northeast Inc., acting as the recognized trader arranging for export. 2-AOC #029672E21004 0033203 3- CDN Manifest 4- RSI TAG 5-Fedex AS 400 6-ITN X20220927792885 #ERG 171# Secur-T ST23											
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.											
Generator's/Offor's Printed/Typed Name Kirsten Colligan on behalf of RITC Signature KJ Month 09 Day 27 Year 22											
INT'L	16. International Shipments ☐ Import to U.S. ☒ Export from U.S. Port of entry/exit: Lacolle, QC. Transporter signature (for exports only): Date leaving U.S.: 9/27/22										
	17. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name Chris Roussel Signature CR Month 09 Day 27 Year 22 Transporter 2 Printed/Typed Name Signature Month Day Year										
TRANSPORTER	18. Discrepancy 18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection Manifest Reference Number:										
	18b. Alternate Facility (or Generator) U.S. EPA ID Number Facility's Phone: 18c. Signature of Alternate Facility (or Generator) Month Day Year										
DESIGNATED FACILITY	19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems) 1. H040 2. 3. 4.										
	20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a Printed/Typed Name JEAN-MICHEL GAGNON Signature JM Month 10 Day 13 Year 22										

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Form Approved. OMB No. 2050-0039

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UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NYD008413877	2. Page 1 of 1	3. Emergency Response Phone CCN 161134 1-800-424-9300	4. Manifest Tracking Number 023894132 JJK		
5. Generator's Name and Mailing Address Fiverview Innovation and Technology Campus 140 Lee Street, Suite 200 Buffalo NY 14210 716-856-3333				Generator's Site Address (if different than mailing address) 3875 River Road Tonawanda New York 14151			
6. Transporter 1 Company Name Laidlaw Carriers Bulk				U.S. EPA ID Number MID980619936			
7. Transporter 2 Company Name				U.S. EPA ID Number			
8. Designated Facility Name and Site Address 84392117 Canada INC /RSI Environnemental 80 rue des Mélézes St, Ambroise QC G7P2N4 418-695-3302				U.S. EPA ID Number 116 904 5474			
Facility's Phone:							
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
X	1. UN 3077 Waste Environmentally hazardous substance, solid, NDS, 9, PG III (coal tar)	1	CM	35 EST	T	0018	
	2.						
	3.						
	4.						
14. Special Handling Instructions and Additional Information 1-EQ Northeast Inc. acting as the recognized trader arranging for export 3- CDN Manifest 6-ITN X20231004194752 #ERG 171# 2-AOC #029672E21004 5-Fedex AS 400 SECUR-T 0033143							
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Offor's Printed/Typed Name Kirsten Colligan on behalf of RITC				Signature [Signature]		Month Day Year 10 4 2022	
16. International Shipments ☐ Import to U.S. ☒ Export from U.S. Port of entry/exit: Lacolle Date leaving U.S.:							
17. Transporter Acknowledgment of Receipt of Materials							
Transporter 1 Printed/Typed Name Christian Roussel				Signature [Signature]		Month Day Year 10 4 22	
Transporter 2 Printed/Typed Name				Signature		Month Day Year	
18. Discrepancy							
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection							
18b. Alternate Facility (or Generator) Manifest Reference Number: U.S. EPA ID Number							
Facility's Phone:							
18c. Signature of Alternate Facility (or Generator)						Month Day Year	
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
1. H040		2.		3.		4.	
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a							
Printed/Typed Name Soleyn Hones				Signature [Signature]		Month Day Year 10 05 22	

Please print or type.

Form Approved. OMB No. 2050-0039

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UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NY0008413877	2. Page 1 of 1	3. Emergency Response Phone 212 1011134 1-800-424-9300	4. Manifest Tracking Number 023894133 JJK			
5. Generator's Name and Mailing Address Riverview Innovation and Technology Campus 140 Lee Street, Suite 200 Buffalo NY 14210 716-856-3333				Generator's Site Address (if different than mailing address) 3875 River Road Tonawanda York 14151 New				
6. Transporter 1 Company Name Laidlaw Carriers Bulk				U.S. EPA ID Number MID980619936				
7. Transporter 2 Company Name				U.S. EPA ID Number				
8. Designated Facility Name and Site Address 8439117 Canada INC /RSI Environnemental 80 rue des Mélèzes St. Ambroise QC G7P2N4 418-695-3302				U.S. EPA ID Number 116 904 5474				
Facility's Phone:								
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
		No.	Type					
X	1. UN 3077 Waste Environmentally hazardous substance, solid, NOS, 9.PG III (coal tar)	1	CM	35 EST	T	0018		
	2.							
	3.							
	4.							
14. Special Handling Instructions and Additional Information 1-EQ Northeast Inc. acting as the recognized trader arranging for export. 2-AOC #029672E21004 3- CDN Manifest 4- RSI TAG 5-Fedex AS 400 6-ITNX20221004194359 #ERG 171# SECUR-T 0033149								
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.								
Generator's/Offor's Printed/Typed Name Kirsten Colligan on behalf of RITC				Signature 		Month Day Year 10/4/2022		
16. International Shipments ☐ Import to U.S. ☒ Export from U.S. Port of entry/exit: Lacolle QC Date leaving U.S.:								
17. Transporter Acknowledgment of Receipt of Materials								
Transporter 1 Printed/Typed Name Tanner Blackburn				Signature 		Month Day Year 10/4/22		
Transporter 2 Printed/Typed Name				Signature		Month Day Year		
18. Discrepancy								
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection								
18b. Alternate Facility (or Generator) Manifest Reference Number: U.S. EPA ID Number								
Facility's Phone:								
18c. Signature of Alternate Facility (or Generator) Month Day Year								
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)								
1. H040		2.		3.		4.		
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a								
Printed/Typed Name Socelyn Moore				Signature 		Month Day Year 10/05/22		

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UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NYD008413877	2. Page 1 of 1	3. Emergency Response Phone 1-800-424-9300	4. Manifest Tracking Number 023894135 JJK	
5. Generator's Name and Mailing Address Riverview Innovation and Technology Campus 140 Lee Street, Suite 200 Buffalo NY 14210 716-856-3333			Generator's Site Address (if different than mailing address) 3875 River Road Tonawanda York 14151 New			
6. Transporter 1 Company Name Laidlaw Carriers Bulk			U.S. EPA ID Number MID980619936			
7. Transporter 2 Company Name			U.S. EPA ID Number			
8. Designated Facility Name and Site Address 8439117 Canada INC /RSI Environnemental 80 rue des Mélèzes St. Ambroise QC G7P2N4 418-695-3302			U.S. EPA ID Number 116 904 5474			
Facility's Phone:						
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No. Type		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. UN 3077 Waste Environmentally hazardous substance solid, NOS, 9 PG III (coal tar)	1	CM	35 EST	T	0018
	2.					
	3.					
	4.					
14. Special Handling Instructions and Additional Information 1-EQ Northeast Inc. acting as the recognized trader arranging for export. 2-AOC #029672E21004 3-CDN Manifest 4-BSI TAG 5-Fedex AS 600 6-ITN X2022 1004194415 #ERG 171# SECUR-T 0033148						
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.						
Generator's/Offeror's Printed/Typed Name Kirsten Colligan on behalf of RITC Signature Month Day Year 10 4 2022						
16. International Shipments Transporter signature (for exports only): 17. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name Gerald Blackburn Signature Month Day Year 10 4 22 Transporter 2 Printed/Typed Name Signature Month Day Year						
18. Discrepancy 18a. Discrepancy Indication Space Quantity Type Residue Partial Rejection Full Rejection Manifest Reference Number: 18b. Alternate Facility (or Generator) U.S. EPA ID Number Facility's Phone: 18c. Signature of Alternate Facility (or Generator) Month Day Year						
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems) 1. H040 2. 3. 4.						
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a Printed/Typed Name Soledad Monro Signature Month Day Year 10 05 22						

DESIGNATED FACILITY TO GENERATOR

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Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NYD008413877		2. Page 1 of 1	3. Emergency Response Phone CCN 101139 1-800-424-9300		4. Manifest Tracking Number 023894215 JJK		
5. Generator's Name and Mailing Address Riverside Innovation & Technology Campus 140 Lee Street, Suite 200 Buffalo NY 14210 716-856-3333					Generator's Site Address (if different than mailing address) 3874 River Road Tonawanda New York 3875 14151				
6. Transporter 1 Company Name Goulet Trucking					U.S. EPA ID Number MAC300006038				
7. Transporter 2 Company Name					U.S. EPA ID Number				
8. Designated Facility Name and Site Address 8439117 Canada INC /RSI Environnemental 80 rue des Mèlèzes St. Ambroise QC G7P2N4 418-695-3302					U.S. EPA ID Number 116 904 5474				
Facility's Phone:									
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))			10. Containers No. Type		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
	X	1. UN 3077 Environmentally hazardous substance, solid, NOS, 9, PG III (coal tar)			1	CM	28 EST	T	D018
		2.							
		3.							
		4.							
14. Special Handling Instructions and Additional Information 1-EQ Northeast Inc, acting as the recognized trader arranging for export 2- AOC #820672521006 032423C22004 3- CDN Manifest 4- RSI TAG 5-Fedex AS 400 6-ITN 2022101812799 #ERG 171# SECUR-T 0033182									
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.									
Generator's/Offeror's Printed/Typed Name Kirsten Colligan Signature [Signature] Month 11 Day 1 Year 22									
TRANSPORTER INTL	16. International Shipments ☐ Import to U.S. ☒ Export from U.S. Port of entry/exit: LaCrosse, QC Date leaving U.S.: 11/2/22								
	Transporter signature (for exports only): [Signature]								
TRANSPORTER	17. Transporter Acknowledgment of Receipt of Materials								
	Transporter 1 Printed/Typed Name Alfred White Signature [Signature] Month 11 Day 01 Year 22				Transporter 2 Printed/Typed Name _____ Signature _____ Month _____ Day _____ Year _____				
DESIGNATED FACILITY	18. Discrepancy								
	18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection								
	18b. Alternate Facility (or Generator) Manifest Reference Number: _____ U.S. EPA ID Number _____								
	Facility's Phone: _____								
	18c. Signature of Alternate Facility (or Generator) _____ Month _____ Day _____ Year _____								
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)									
1. H040		2.		3.		4.			
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a									
Printed/Typed Name Mike Hoot				Signature [Signature]				Month 11 Day 02 Year 22	

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Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NYD008413877	2. Page 1 of 1	3. Emergency Response Phone CCN 1011139 1-800-424-9300	4. Manifest Tracking Number 023894216 JJK		
5. Generator's Name and Mailing Address Riverside Innovation & Technology Campus 140 Lee Street, Suite 200 Buffalo NY 14210 716-856-3333				Generator's Site Address (if different than mailing address) 3874 River Road Tonawanda New York 3875 14151			
6. Transporter 1 Company Name Goulet Trucking				U.S. EPA ID Number MAC300006038			
7. Transporter 2 Company Name				U.S. EPA ID Number			
8. Designated Facility Name and Site Address 8439117 Canada INC /RSI Environnemental 80 rue des Mélèzes St, Ambroise QC G7P2N4 418-695-3302				U.S. EPA ID Number 116 904 5474			
Facility's Phone:							
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
		No.	Type				
X	1. UN 3077 Environmentally hazardous substance, solid, NOS, 9, PG III (coal tar)	1	CM	28 EST	T	DD18	
	2.						
	3.						
	4.						
14. Special Handling Instructions and Additional Information 1-EQ Northeast Inc., acting as the recognized trader arranging for export 3- CDN Manifest : 6-ITN 2- AOC #029672E21004 5-Fedex AS 400 #ERG 171# SECUR-T 0033200							
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Offeror's Printed/Typed Name Kirsten Colligan on behalf of RITC							
Signature <i>[Signature]</i> Month Day Year 11 1 22							
16. International Shipments ☐ Import to U.S. ☒ Export from U.S. Port of entry/exit: Lacolle, QC Transporter signature (for exports only): <i>[Signature]</i> Date leaving U.S.: 11/2/22							
17. Transporter Acknowledgment of Receipt of Materials							
Transporter 1 Printed/Typed Name Stephen Collins Signature <i>[Signature]</i> Month Day Year 11 1 22							
Transporter 2 Printed/Typed Name _____ Signature _____ Month Day Year _____							
18. Discrepancy							
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection							
18b. Alternate Facility (or Generator) Manifest Reference Number: _____ U.S. EPA ID Number _____							
Facility's Phone: _____							
18c. Signature of Alternate Facility (or Generator) _____ Month Day Year _____							
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
1. 14040		2.		3.		4.	
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a							
Printed/Typed Name Pierre Huot Signature <i>[Signature]</i> Month Day Year 11 02 22							

Please print or type.

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UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NYD008413877	2. Page 1 of 1	3. Emergency Response Phone CCN 1011139 1-800-424-9300	4. Manifest Tracking Number 023894217 JJK		
5. Generator's Name and Mailing Address Riverside Innovation & Technology Campus 140 Lee Street, Suite 200 Buffalo NY 14210 716-856-3333				Generator's Site Address (if different than mailing address) 3874 River Road Tonawanda New York 3875 14151			
6. Transporter 1 Company Name Goulet Trucking				U.S. EPA ID Number MAC300006038			
7. Transporter 2 Company Name				U.S. EPA ID Number			
8. Designated Facility Name and Site Address 8439117 Canada INC /RSI Environnemental 80 rue des Mélèzes St, Ambroise QC G7P2N4 418-695-3302				U.S. EPA ID Number 116 904 5474			
Facility's Phone:							
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
		No.	Type				
X	1. UN 3077 Environmentally hazardous substance, solid, NOS, 9, PG III (coal tar)	1	CM	28 EST	T	D018	
	2.						
	3.						
	4.						
14. Special Handling Instructions and Additional Information 1-EQ Northeast Inc., acting as the recognized trader arranging for export. 2- AOC #029672E21005* 932423E22004 3- CDN Manifest 4- RSI TAG 5-Fedex AS 400 6-ITN Y20221101531076 #ERG 171# SECUR-T 0033183							
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Offoror's Printed/Typed Name Kirsten Colligan on behalf of RITC				Signature [Signature]		Month Day Year 11 1 22	
16. International Shipments ☐ Import to U.S. ☒ Export from U.S. Port of entry/exit: Cayillo, QC Transporter signature (for exports only): [Signature] Date leaving U.S.: 11/2/2022							
17. Transporter Acknowledgment of Receipt of Materials							
Transporter 1 Printed/Typed Name: Scott LeBlanc				Signature [Signature]		Month Day Year 11 1 22	
Transporter 2 Printed/Typed Name				Signature		Month Day Year	
18. Discrepancy							
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection							
Manifest Reference Number:							
18b. Alternate Facility (or Generator)				U.S. EPA ID Number			
Facility's Phone:							
18c. Signature of Alternate Facility (or Generator)						Month Day Year	
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
1. H0416		2.		3.		4.	
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a							
Printed/Typed Name [Signature]				Signature [Signature]		Month Day Year 11 03 22	

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UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NYD008413877	2. Page 1 of 1	3. Emergency Response Phone CCN 101139 1-800-424-9300	4. Manifest Tracking Number 023894218 JJK		
5. Generator's Name and Mailing Address Riverside Innovation & Technology Campus 140 Lee Street, Suite 200 Buffalo NY 14210 716-856-3333			Generator's Site Address (if different than mailing address) 3874 River Road Tonawanda New York 3875 14151				
Generator's Phone:							
6. Transporter 1 Company Name Goulet Trucking				U.S. EPA ID Number MAC300006038			
7. Transporter 2 Company Name				U.S. EPA ID Number			
8. Designated Facility Name and Site Address 8439117 Canada INC /RSI Environnemental 80 rue des Mélèzes St. Ambroise QC G7P2N4 418-695-3302			U.S. EPA ID Number 116 904 5474				
Facility's Phone:							
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
		No.	Type				
X	1. UN 3077 Environmentally hazardous substance, solid, NOS 9, PG III (coal tar)	1	CM	28 Tons EST		D018	
	2.						
	3.						
	4.						
14. Special Handling Instructions and Additional Information 1-EQ Northeast Inc., acting as the recognized trader arranging for export 3- CDN Manifest 6-ITN 20221101847375 2- AOC #029672E21004 5-Fedex AS 400 SECUR-T 0033185 *032423E22004							
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Offor's Printed/Typed Name Kirsten Calligan on behalf of RITC				Signature <i>[Signature]</i>		Month Day Year 11 1 22	
16. International Shipments ☐ Import to U.S. ☒ Export from U.S. Port of entry/exit: CHANDLER, NY Transporter signature (for exports only): <i>[Signature]</i> Date leaving U.S.: 11/1/22							
17. Transporter Acknowledgment of Receipt of Materials							
Transporter 1 Printed/Typed Name JESUS DELA SANTIAGO				Signature <i>[Signature]</i>		Month Day Year 11 11 22	
Transporter 2 Printed/Typed Name				Signature		Month Day Year	
18. Discrepancy							
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection							
18b. Alternate Facility (or Generator) Manifest Reference Number: U.S. EPA ID Number							
Facility's Phone:							
18c. Signature of Alternate Facility (or Generator) Month Day Year							
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
1. H040		2.		3.		4.	
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a							
Printed/Typed Name Pierre Huot				Signature <i>[Signature]</i>		Month Day Year 11 03 22	

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UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NYD008413877	2. Page 1 of 1	3. Emergency Response Phone CCN 1-800-424-9200	4. Manifest Tracking Number 023894219 JJK		
5. Generator's Name and Mailing Address Riverside Innovation & Technology Campus 140 Lee Street, Suite 200 Buffalo NY 14210 716-856-3333				Generator's Site Address (if different than mailing address) 3874 River Road Tonawanda New York 3875 14151			
6. Transporter 1 Company Name Groulet Trucking				U.S. EPA ID Number MAC300006038			
7. Transporter 2 Company Name				U.S. EPA ID Number			
8. Designated Facility Name and Site Address 8439117 Canada INC /RSI Environnemental 80 rue des Mélèzes St. Ambroise QC G7P2N4 418-695-3302				U.S. EPA ID Number 116 904 5474			
Facility's Phone:							
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
		No.	Type				
1.	UN 3077 Environmentally hazardous substance, solid, NOS. 9, PG III (coal tar)	1	CM	28 EST	T	D018	
2.							
3.							
4.							
14. Special Handling Instructions and Additional Information 1-EQ Northeast Inc. acting as the recognized trader arranging for export 3- CDN Manifest 6-ITN 2022/10/28/176 2- AOC #029672521004 *032423E22004 5-Fedex AS 400 #ERG 171# SECUR-T 0033186							
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Offoror's Printed/Typed Name Kirsten Colligan on behalf of RITC				Signature <i>[Signature]</i>		Month Day Year 11 2 22	
16. International Shipments ☐ Import to U.S. ☒ Export from U.S. Port of entry/exit: Champlain NY Transporter signature (for exports only): <i>[Signature]</i> Date leaving U.S.: 11/3/22							
17. Transporter Acknowledgment of Receipt of Materials							
Transporter 1 Printed/Typed Name William Wasilecki				Signature <i>[Signature]</i>		Month Day Year 11 02 22	
Transporter 2 Printed/Typed Name				Signature		Month Day Year	
18. Discrepancy							
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection							
Manifest Reference Number:							
18b. Alternate Facility (or Generator) U.S. EPA ID Number							
Facility's Phone:							
18c. Signature of Alternate Facility (or Generator) Month Day Year							
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
1. H440		2.		3.		4.	
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a							
Printed/Typed Name Mike Hunt				Signature <i>[Signature]</i>		Month Day Year 11 03 22	

Please print or type.

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UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NYD008413877		2. Page 1 of 1		3. Emergency Response Phone CCO 761139 1-800-424-9300		4. Manifest Tracking Number 023894220 JJK			
		5. Generator's Name and Mailing Address Riverside Innovation & Technology Campus 140 Lee Street, Suite 200 Buffalo NY 14210 716-856-3333						Generator's Site Address (if different than mailing address) 3874 River Road Tonawanda New York 3575 14151			
6. Transporter 1 Company Name Moulet Trucking		U.S. EPA ID Number MAC300006038									
7. Transporter 2 Company Name		U.S. EPA ID Number									
8. Designated Facility Name and Site Address 8439117 Canada INC /RSI Environnemental 80 rue des Mélèzes St. Ambroise QC G7P2N4 418-695-3302		U.S. EPA ID Number 116 904 5474									
Facility's Phone:											
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))				10. Containers No. Type		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
	X	1. UN 3077 Environmentally hazardous substance, solid, NOS, 9, PG III (coal tar)				1 CM		28	T	D018	
		2.									
		3.									
		4.									
14. Special Handling Instructions and Additional Information L-EQ Northeast Inc., acting as the recognized trader arranging for export 3- CDN Manifest 6-ITNX20221107172531 #ERG 171# Secur-T 0033189 2- AOC #82947251000 032423E 22004 5-Fedex AS 400											
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.											
Generator's/Offoror's Printed/Typed Name: Kirsten Colligan on behalf of RITC Signature: [Signature] Month: 11 Day: 07 Year: 22											
TRANSPORTER	16. International Shipments ☐ Import to U.S. ☒ Export from U.S. Port of entry/exit: Champlain, NY Date leaving U.S.: 11/8/22										
	17. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name: Mike Sheber Signature: [Signature] Month: 11 Day: 7 Year: 22 Transporter 2 Printed/Typed Name: Signature: Month: Day: Year:										
DESIGNATED FACILITY	18. Discrepancy 18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection Manifest Reference Number: U.S. EPA ID Number:										
	18b. Alternate Facility (or Generator) U.S. EPA ID Number:										
	Facility's Phone:										
	18c. Signature of Alternate Facility (or Generator) Month: Day: Year:										
	19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems) 1. H040 2. 3. 4.										
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a Printed/Typed Name: [Signature] Signature: Month: 11 Day: 15 Year: 22											

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UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NYD008413877		2. Page 1 of 1		3. Emergency Response Phone CCN 1011139 1-800-424-9300		4. Manifest Tracking Number 023894221 JJK			
		5. Generator's Name and Mailing Address Riverside Innovation & Technology Campus 140 Lee Street, Suite 200 Buffalo NY 14210 716-856-3333						Generator's Site Address (if different than mailing address) 3874 River Road Tonawanda New York 3875 14151			
6. Transporter 1 Company Name Goulet Trucking		U.S. EPA ID Number MAC300006038									
7. Transporter 2 Company Name		U.S. EPA ID Number									
8. Designated Facility Name and Site Address 8439117 Canada INC /RSI Environnemental 80 rue des Mélèzes St. Ambroise QC G7P2N4 418-695-3302		U.S. EPA ID Number 116 904 5474									
Facility's Phone:											
9a. HM		9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))				10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
						No.	Type				
K		1. UN 3077 Environmentally hazardous substance, solid, NOS, 9, PG III (coal tar)				1	CM	28 EST	T	D018	
2.											
3.											
4.											
14. Special Handling Instructions and Additional Information 1-EQ Northeast Inc., acting as the recognized trader arranging for export. 2- AOC #029672E21004 3- CDN Manifest : 4- RSI TAG 5-Fedex AS 400 6-ITN X20221108254756 #ERG 171# ST23 Secur T 0033191											
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.											
Generator's/Offor's Printed/Typed Name Signature Month Day Year Kirsten Colligan on behalf of RITC 11 08 22											
16. International Shipments ☐ Import to U.S. ☒ Export from U.S. Port of entry/exit: champ/ain ny Transporter signature (for exports only): William Wasilefsky Date leaving U.S.: 11/9/22											
17. Transporter Acknowledgment of Receipt of Materials											
Transporter 1 Printed/Typed Name Signature Month Day Year William Wasilefsky 11 08 22											
Transporter 2 Printed/Typed Name Signature Month Day Year											
18. Discrepancy											
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection											
Manifest Reference Number:											
18b. Alternate Facility (or Generator) U.S. EPA ID Number											
Facility's Phone:											
18c. Signature of Alternate Facility (or Generator) Month Day Year											
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)											
1. H040 2. 3. 4.											
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a											
Printed/Typed Name Signature Month Day Year Pierre Huot 11 10 22											

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UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NYD008413877	2. Page 1 of 1	3. Emergency Response Phone CEN 701139 1-800-424-9300	4. Manifest Tracking Number 023894225 JJK	
5. Generator's Name and Mailing Address Riverside Innovation & Technology Campus 140 Lee Street, Suite 200 Buffalo NY 14210 716-856-3333			Generator's Site Address (if different than mailing address) 3074 River Road Tonawanda New York 14151			
Generator's Phone:						
6. Transporter 1 Company Name Laidlaw Carriers Bulk			U.S. EPA ID Number MID980619936			
7. Transporter 2 Company Name			U.S. EPA ID Number			
8. Designated Facility Name and Site Address 8439117 Canada INC /RSI Environnemental 80 rue des Mélèzes St. Ambroise QC G7P2N4 418-695-3302			U.S. EPA ID Number 116 904 5474			
Facility's Phone:						
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
		No.	Type			
X	1. UN 3077 Environmentally hazardous substance, solid, NOS. 9, PG III (coal tar)	1	CM	35 EST	T	0018
	2.					
	3.					
	4.					
14. Special Handling Instructions and Additional Information 1-EQ Northeast Inc. acting as the recognized trader arranging for export 3-CDN Manifest 6-ITN X20221010505333 #ERG 171# 2-AOC #029672E21004 5-Fedex AS 400 Secur-T 0033162 ST23						
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.						
Generator's/Offoror's Printed/Typed Name Kirsten Colligan on behalf of RITE		Signature [Signature]		Month Day Year 10 10 78		
16. International Shipments ☐ Import to U.S. Transporter signature (for exports only): [Signature]		☒ Export from U.S. Port of entry/exit: [Signature] Date leaving U.S.: 09.10/20				
17. Transporter Acknowledgment of Receipt of Materials						
Transporter 1 Printed/Typed Name [Signature]		Signature [Signature]		Month Day Year 10 10 20		
Transporter 2 Printed/Typed Name		Signature		Month Day Year		
18. Discrepancy						
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection						
18b. Alternate Facility (or Generator) Manifest Reference Number: U.S. EPA ID Number						
Facility's Phone:						
18c. Signature of Alternate Facility (or Generator) Month Day Year						
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)						
1. H040		2.		3.		4.
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a						
Printed/Typed Name Lorelyn Honin		Signature [Signature]		Month Day Year 11 11 22		

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UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NYD008413877		2. Page 1 of 1		3. Emergency Response Phone CCN 101139 1-800-424-9300		4. Manifest Tracking Number 023894226 JJK				
		5. Generator's Name and Mailing Address Riverside Innovation & Technology Campus 140 Lee Street, Suite 200 Buffalo NY 14210 716-856-3333						Generator's Site Address (if different than mailing address) 3874 River Road Tonawanda New York 14151				
6. Transporter 1 Company Name Laidlaw Carriers Bulk		U.S. EPA ID Number MID980619936										
7. Transporter 2 Company Name		U.S. EPA ID Number										
8. Designated Facility Name and Site Address 8439117 Canada INC /RSI Environnemental 80 rue des Métézès St. Ambroise QC G7P2N4 418-695-3302		U.S. EPA ID Number 116 904 5474										
Facility's Phone:												
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))				10. Containers		11. Total Quantity	12. Unit WL/Vol.	13. Waste Codes		
						No.	Type					
	X	1. UN 3077 Environmentally hazardous substance, solid, NOS. 9, PG III (coal tar)				1	CM	35	T	D018		
		2.										
		3.										
	4.											
14. Special Handling Instructions and Additional Information 1-EQ Northeast Inc., acting as the recognized trader arranging for export. 3- CDN Manifest 6-ITN X20221010504858 #ERG 171# 2- AOC #029672E21004 5-Fedex AS 400 Secur-T 0033103 ST23												
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.												
Generator's/Offor's Printed/Typed Name Kirsten Colligan on behalf of RITC Signature [Signature] Month Day Year 11/10/22												
TRANSPORTER	16. International Shipments ☐ Import to U.S. ☒ Export from U.S. Port of entry/exit: Calacelle QC Date leaving U.S.:											
	17. Transporter Acknowledgment of Receipt of Materials											
	Transporter 1 Printed/Typed Name: Tanner Blackburn Signature: [Signature] Month Day Year: 11/10/22											
Transporter 2 Printed/Typed Name: Signature: Month Day Year:												
DESIGNATED FACILITY	18. Discrepancy											
	18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection											
	18b. Alternate Facility (or Generator) Manifest Reference Number: U.S. EPA ID Number:											
	Facility's Phone:											
	18c. Signature of Alternate Facility (or Generator) Month Day Year:											
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)												
1. H040 2. 3. 4.												
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a												
Printed/Typed Name: Deelyn Moe Signature: [Signature] Month Day Year: 11/11/22												

7596

Please print or type.

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NYD008413877	2. Page 1 of 1	3. Emergency Response Phone CCN 101131 1-800-424-9300	4. Manifest Tracking Number 023894227 JJK		
5. Generator's Name and Mailing Address Riverside Innovation & Technology Campus 140 Lee Street, Suite 200 Buffalo NY 14210 716-856-3333			Generator's Site Address (if different than mailing address) 3874 River Road Tonawanda New York 14151				
6. Transporter 1 Company Name Laidlaw Carriers Bulk			U.S. EPA ID Number MID980619936				
7. Transporter 2 Company Name			U.S. EPA ID Number				
8. Designated Facility Name and Site Address 8439117 Canada INC /RSI Environnemental 80 rue des Mélèzes St. Ambroise QC G7P2N4 418-695-3302			U.S. EPA ID Number 116 904 5474				
Facility's Phone:							
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No. Type		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
x	1. UN 3077 Environmentally hazardous substance, solid, NOS, 9, PG III (coal tar)	1	CM	35 EST	T	D018	
	2.						
	3.						
	4.						
14. Special Handling Instructions and Additional Information 1-EQ Northeast Inc., acting as the recognized trader arranging for export. 2- AOC #029672E21004 3- CDN Manifest: 4- RSI TAG 5-Fedex AS 400 6-ITN X20221010505062 #ERG 171# Secur-T 0033164 ST23							
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Offoror's Printed/Typed Name Kirsten Colligan on behalf of RITC		Signature [Signature]		Month Day Year 10/10/22			
16. International Shipments ☐ Import to U.S. ☒ Export from U.S. Port of entry/exit: Lacolle QC Date leaving U.S.:							
17. Transporter Acknowledgment of Receipt of Materials							
Transporter 1 Printed/Typed Name Gerald Blackburn		Signature [Signature]		Month Day Year 10/10/22			
Transporter 2 Printed/Typed Name		Signature		Month Day Year			
18. Discrepancy							
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection							
18b. Alternate Facility (or Generator) Manifest Reference Number: U.S. EPA ID Number							
Facility's Phone:							
18c. Signature of Alternate Facility (or Generator) Month Day Year							
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems) H040 2. 3. 4.							
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a							
Printed/Typed Name Lacelle Noe		Signature [Signature]		Month Day Year 10/11/20			

Please print or type.

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NYD008413877		2. Page 1 of 1		3. Emergency Response Phone CCN 181139 1-800-424-9300		4. Manifest Tracking Number 023894228 JJK			
		5. Generator's Name and Mailing Address Riverside Innovation & Technology Campus 140 Lee Street, Suite 200 Buffalo NY 14210 716-856-3333						Generator's Site Address (if different than mailing address) 3874 River Road Tonawanda New York 14151			
6. Transporter 1 Company Name Laidlaw Carriers Bulk		U.S. EPA ID Number MID980619936									
7. Transporter 2 Company Name		U.S. EPA ID Number									
8. Designated Facility Name and Site Address 8439117 Canada INC /RSI Environnemental 80 rue des Mélèzes St. Ambroise QC G7P2N4 418-695-3302		U.S. EPA ID Number 116 904 5474									
Facility's Phone:											
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))				10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
						No.	Type				
	X	1. UN 3077 Environmentally hazardous substance, solid, NOS, 9, PG III (coal tar)				1	CM	35	T	DD18	
		2.						EST			
		3.									
	4.										
14. Special Handling Instructions and Additional Information 1-EQ Northeast Inc., acting as the recognized trader arranging for export. 2- AOC #029672E21004 3- CON Manifest: 4- RSI TAG 5-Fedex AS 400 6-ITN X20221610505227 #ERG 171# Secur-T 0033165 ST23											
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.											
Generator's/Offor's Printed/Typed Name Kirsten Colligan on behalf of RITE											
Signature IKG on behalf of RITE											
Month Day Year 10 10 22											
TRANSPORTER INT'L	16. International Shipments ☐ Import to U.S. ☒ Export from U.S. Port of entry/exit: Lacolle QC Date leaving U.S.:										
	17. Transporter Acknowledgment of Receipt of Materials										
	Transporter 1 Printed/Typed Name Christian Rousseau										
	Signature Christ										
DESIGNATED FACILITY	Month Day Year 10 10 22										
	18. Discrepancy										
	18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection										
	18b. Alternate Facility (or Generator) Manifest Reference Number: U.S. EPA ID Number										
Facility's Phone:											
18c. Signature of Alternate Facility (or Generator)											
Month Day Year											
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)											
1. H046 2. 3. 4.											
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a											
Printed/Typed Name Socelya Maxion											
Signature Socelya											
Month Day Year 10 11 22											

Please print or type.

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NYD008413877	2. Page 1 of 1	3. Emergency Response Phone CCN 1011139 1-800-424-9300	4. Manifest Tracking Number 023894229 JJK		
5. Generator's Name and Mailing Address Riverside Innovation & Technology Campus 140 Lee Street, Suite 200 Buffalo NY 14210 716-856-3333			Generator's Site Address (if different than mailing address) 3874 River Road Tonawanda New York 14151				
Generator's Phone:							
6. Transporter 1 Company Name Laidlaw Carriers Bulk			U.S. EPA ID Number MID980619936				
7. Transporter 2 Company Name			U.S. EPA ID Number				
8. Designated Facility Name and Site Address 8439117 Canada INC /RSI Environnemental 80 rue des Mèlèzes St. Ambroise QC G7P2N4 418-695-3302			U.S. EPA ID Number 116 904 5474				
Facility's Phone:							
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No. Type		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
	1.	UN 3077 Environmentally hazardous substance, solid, NOS. 9, PG III (coal tar)	1	CM	35 EST	T	0018
	2.						
	3.						
	4.						
14. Special Handling Instructions and Additional Information 1-EQ Northeast Inc., acting as the recognized trader arranging for export 3- CDN Manifest 6-ITN X20221017923361 #ERG 171# 2-AOC #029672E21004 5-Fedex AS 400 Secur-T 0033170 ST23							
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Offoror's Printed/Typed Name Kirsten Colligan on behalf of RITE							
Signature [Signature] on behalf of RITE							
Month Day Year 10 17 22							
TRANSPORTER INT'L	16. International Shipments ☐ Import to U.S. ☒ Export from U.S. Port of entry/exit: Lgelle QC Date leaving U.S.: 10/18/22						
	17. Transporter Acknowledgment of Receipt of Materials						
	Transporter 1 Printed/Typed Name Larry Luckton						
DESIGNATED FACILITY	Signature [Signature]						
	Month Day Year 10 17 22						
	Transporter 2 Printed/Typed Name 10:30 AM						
Signature [Signature]							
Month Day Year 10 17 22							
18. Discrepancy							
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection							
Manifest Reference Number:							
18b. Alternate Facility (or Generator) U.S. EPA ID Number							
Facility's Phone:							
18c. Signature of Alternate Facility (or Generator) Month Day Year							
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
1. 2. 3. 4.							
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a							
Printed/Typed Name Pierre Hout							
Signature [Signature]							
Month Day Year 10 19 22							

Please print or type.

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UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NYD008413877	2. Page 1 of 1	3. Emergency Response Phone CCN 161139 1-800-424-9300	4. Manifest Tracking Number 023894230 JJK		
5. Generator's Name and Mailing Address Riverside Innovation & Technology Campus 140 Lee Street, Suite 200 Buffalo NY 14210 716-856-3333			Generator's Site Address (if different than mailing address) 3874 River Road Tonawanda New York 14151				
6. Transporter 1 Company Name Laidlaw Carriers Bulk			U.S. EPA ID Number MID980619936				
7. Transporter 2 Company Name			U.S. EPA ID Number				
8. Designated Facility Name and Site Address 8439117 Canada INC /RSI Environnemental 80 rue des Mélézes St, Ambroise QC G7P2N4 418-695-3302			U.S. EPA ID Number 116 904 5474				
Facility's Phone:							
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No. Type		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
	1.	UN 3077 Environmentally hazardous substance, solid, NOS 9 PG III (coal tar)	1	CM	35 EST	T	0018
	2.						
	3.						
	4.						
14. Special Handling Instructions and Additional Information 1-EQ Northeast Inc., acting as the recognized trader arranging for export 3- CDN Manifest 4- RSI TAG 5- Fedex AS 400 6-ITN X2022101732985 #ERG 171#							
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Offoror's Printed/Typed Name Kirsten Colligan on behalf of RITE							
Signature <i>[Signature]</i>							
Month Day Year 10 17 22							
TRANSPORTER INT'L	16. International Shipments ☐ Import to U.S. ☒ Export from U.S. Port of entry/exit: Worcester, MA.						
	Transporter signature (for exports only):						
	Date leaving U.S.:						
TRANSPORTER	17. Transporter Acknowledgment of Receipt of Materials						
	Transporter 1 Printed/Typed Name Christian Rousseau			Signature <i>[Signature]</i>		Month Day Year 10 17 22	
	Transporter 2 Printed/Typed Name			Signature		Month Day Year	
DESIGNATED FACILITY	18. Discrepancy						
	18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection						
	Manifest Reference Number:						
	18b. Alternate Facility (or Generator) U.S. EPA ID Number						
	Facility's Phone:						
18c. Signature of Alternate Facility (or Generator)							
Month Day Year							
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
1. 2. 3. 4.							
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a							
Printed/Typed Name Pierre Huot			Signature <i>[Signature]</i>		Month Day Year 10 19 22		

Please print or type.

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UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NYD003413877		2. Page 1 of 1		3. Emergency Response Phone CCN 101134 1-800-424-9300		4. Manifest Tracking Number 023894231 JJK					
		5. Generator's Name and Mailing Address Riverside Innovation & Technology Campus 140 Lee Street, Suite 200 Buffalo NY 14210 716-856-3333						Generator's Site Address (if different than mailing address) 3874 River Road Tonawanda New York 14151					
6. Transporter 1 Company Name Laidlaw Carriers Bulk		U.S. EPA ID Number MID980619936											
7. Transporter 2 Company Name		U.S. EPA ID Number											
8. Designated Facility Name and Site Address 8439117 Canada INC /RSI Environnemental 80 rue des Métézès St. Ambroise QC G7P2N4 418-695-3302		U.S. EPA ID Number 116 904 5474											
9a. HM		9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))				10. Containers		11. Total Quantity		12. Unit Wt./Vol.		13. Waste Codes	
						No. Type							
✓ 1.		UN 3077 Environmentally hazardous substance, solid, NOS, 9, PG III (coal tar)				1 CM		35 EST		T		D018	
2.													
3.													
4.													
14. Special Handling Instructions and Additional Information 1-EQ Northeast Inc. acting as the recognized trader arranging for export. 3- CDN Manifest 4- RSI TAG 5- Fedex AS 400 6-ITN X20221025392170 #ERG 171# Secur-T 0033176 ST23													
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.													
Generator's/Offoror's Printed/Typed Name Kirsten Collier on behalf of RITC													
Signature [Signature] on behalf of RITC													
Month Day Year 10 25 22													
16. International Shipments ☐ Import to U.S. ☒ Export from U.S. Port of entry/exit: LA COLLE Transporter signature (for exports only): [Signature] Date leaving U.S.: 25/10/22													
17. Transporter Acknowledgment of Receipt of Materials													
Transporter 1 Printed/Typed Name Gerrit Blackburn													
Signature [Signature]													
Month Day Year 10 25 22													
Transporter 2 Printed/Typed Name													
Signature													
Month Day Year													
18. Discrepancy													
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection													
18b. Alternate Facility (or Generator) Manifest Reference Number: U.S. EPA ID Number													
Facility's Phone:													
18c. Signature of Alternate Facility (or Generator) Month Day Year													
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)													
1. H040 2. 3. 4.													
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a													
Printed/Typed Name Pierre Huet													
Signature [Signature]													
Month Day Year 10 26 22													

Please print or type.

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NYD008413877	2. Page 1 of 1	3. Emergency Response Phone CCN 101139 1-800-424-9300	4. Manifest Tracking Number 023894232 JJK		
5. Generator's Name and Mailing Address Riverside Innovation & Technology Campus 140 Lee Street, Suite 200 Buffalo NY 14210 716-856-3333				Generator's Site Address (if different than mailing address) 3874 River Road Tonawanda New York 14151			
Generator's Phone:							
6. Transporter 1 Company Name Laidlaw Carriers Bulk				U.S. EPA ID Number MID980619936			
7. Transporter 2 Company Name				U.S. EPA ID Number			
8. Designated Facility Name and Site Address 8439117 Canada INC /RSI Environnemental 80 rue des Mèlèzes St, Ambroise QC G7P2N4 418-695-3302				U.S. EPA ID Number 116 904 5474			
Facility's Phone:							
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
			No.	Type			
	X	1. UN 3077 Environmentally hazardous substance, solid, NOS, 9 PG III (coal tar)	1.	CM	35	T	D018
		2.					
		3.					
		4.					
14. Special Handling Instructions and Additional Information 1-EQ Northeast Inc., acting as the recognized trader arranging for export. Secur-T 0033177 3- CDN Manifest 2- AOC #029672E21004 6-ITN 4- RSI TAG 5-Fedex AS 400 #ERG 171# ST 23							
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Offoror's Printed/Typed Name Kirsten Colligan on behalf of RITC				Signature <i>[Signature]</i>		Month Day Year 10 25 22	
TRANSPORTER INT'L	16. International Shipments ☐ Import to U.S. ☒ Export from U.S. Port of entry/exit: 21000, US Transporter signature (for exports only): Carl Vowles Date leaving U.S.: 10-25-22						
	17. Transporter Acknowledgment of Receipt of Materials						
TRANSPORTER	Transporter 1 Printed/Typed Name Carl Vowles				Signature <i>[Signature]</i>		Month Day Year 10 25 22
	Transporter 2 Printed/Typed Name				Signature		Month Day Year
DESIGNATED FACILITY	18. Discrepancy						
	18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection						
	18b. Alternate Facility (or Generator) Manifest Reference Number: U.S. EPA ID Number						
	Facility's Phone:						
	18c. Signature of Alternate Facility (or Generator) Month Day Year						
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
1. H040		2.		3.		4.	
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a							
Printed/Typed Name Mike Hunt				Signature <i>[Signature]</i>		Month Day Year 10 26 22	

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UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NYD008413877	2. Page 1 of 1	3. Emergency Response Phone CCN 101139 1-800-424-9300	4. Manifest Tracking Number 023894233 JJK		
5. Generator's Name and Mailing Address Riverside Innovation & Technology Campus 140 Lee Street, Suite 200 Buffalo NY 14210 716-856-3333				Generator's Site Address (if different than mailing address) 3574 River Road Tonawanda New York 14151			
6. Transporter 1 Company Name Laidlaw Carriers Bulk				U.S. EPA ID Number MID980619936			
7. Transporter 2 Company Name				U.S. EPA ID Number			
8. Designated Facility Name and Site Address 8439117 Canade INC /RSI Environnemental 80 rue des Mélézes St. Ambroise QC G7P2N4 418-695-3302				U.S. EPA ID Number 116 904 5474			
Facility's Phone:							
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
			No.	Type			
	X	1. UN 3077 Environmentally hazardous substance, solid, NOS, 9, PG III (coal tar)	1	CM	35 EST	T	D018
		2.					
		3.					
		4.					
14. Special Handling Instructions and Additional Information 1-EQ Northeast Inc., acting as the recognized trader arranging for export. 3- CDN Manifest: 6-ITN X202102539 2013 #ERG 171# 2- AOC #029672E21004 5- Fedex AS 400							
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Offor's Printed/Typed Name Kirsten Colligan on behalf of RITC							
Signature [Signature] on behalf of RITC							
Month Day Year 10 25 22							
INTL	16. International Shipments ☐ Import to U.S. ☒ Export from U.S. Port of entry/exit: Lacolle, Pa.						
	Date leaving U.S.:						
TRANSPORTER	17. Transporter Acknowledgment of Receipt of Materials						
	Transporter 1 Printed/Typed Name Christian Rausse				Signature [Signature]		Month Day Year 10 25 22
	Transporter 2 Printed/Typed Name				Signature		Month Day Year
DESIGNATED FACILITY	18. Discrepancy						
	18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection						
	Manifest Reference Number:						
	18b. Alternate Facility (or Generator)				U.S. EPA ID Number		
	Facility's Phone:						
	18c. Signature of Alternate Facility (or Generator)						Month Day Year
	19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)						
	1. AH040	2.	3.	4.			
	20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a						
	Printed/Typed Name Mark Hoot				Signature [Signature]		Month Day Year 10 26 22

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NYD008413877		2. Page 1 of 1		3. Emergency Response Phone CCN 1611139 1-800-424-9300		4. Manifest Tracking Number 023894234 JJK			
		5. Generator's Name and Mailing Address Riverside Innovation & Technology Campus 140 Lee Street, Suite 200 Buffalo NY 14210 716-856-3333						Generator's Site Address (if different than mailing address) 3874 River Road Tonawanda New York 14151			
6. Generator's Phone:		6. Transporter 1 Company Name Laidlaw Carriers Bulk						U.S. EPA ID Number MID980619936			
		7. Transporter 2 Company Name						U.S. EPA ID Number			
8. Designated Facility Name and Site Address 8439117 Canada INC /RSI Environnemental 80 rue des Mélèzes St. Ambroise QC G7P2N4 418-695-3302								U.S. EPA ID Number 116 904 5474			
Facility's Phone:											
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))				10. Containers No. Type		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
	1.	UN 3077 Environmentally hazardous substance, solid, NOS. 9, PG III (coal tar)				1 CM		35 EST	T	D018	
	2.										
	3.										
	4.										
14. Special Handling Instructions and Additional Information 1-EQ Northeast Inc., acting as the recognized trader arranging for export 3- CDN Manifest 6-ITN X 20241025 392170 #ERG 171# 2- AOC #029672E21004 5- Fedex AS 400 Secur-T 0033179 ST23											
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.											
Generator's/Offor's Printed/Typed Name Kirsten Colligan on behalf of RITC											
Signature <i>[Signature]</i>											
Month Day Year 10 25 22											
TRANSPORTER INT'L	16. International Shipments ☐ Import to U.S. ☒ Export from U.S. Port of entry/exit: LaCelle Qc										
	Transporter signature (for exports only):										
	17. Transporter Acknowledgment of Receipt of Materials										
TRANSPORTER	Transporter 1 Printed/Typed Name Tanner Blackburn										
	Signature <i>[Signature]</i>										
	Month Day Year 10 25 22										
DESIGNATED FACILITY	Transporter 2 Printed/Typed Name										
	Signature										
	Month Day Year										
18. Discrepancy											
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection											
Manifest Reference Number:											
18b. Alternate Facility (or Generator) U.S. EPA ID Number											
Facility's Phone:											
18c. Signature of Alternate Facility (or Generator)											
Month Day Year											
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)											
1. H040 2. 3. 4.											
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a											
Printed/Typed Name Pierre Hout											
Signature <i>[Signature]</i>											
Month Day Year 10 26 22											

Please print or type.

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NYD008413877	2. Page 1 of 1	3. Emergency Response Phone 212 101139 1-800-424-9300	4. Manifest Tracking Number 023894235 JJK		
5. Generator's Name and Mailing Address Riverside Innovation & Technology Campus 140 Lee Street, Suite 200 Buffalo NY 14210 716-856-3333				Generator's Site Address (if different than mailing address) 3874 River Road Tonawanda New York 3875 14151			
6. Transporter 1 Company Name Laidlaw Carriers Bulk				U.S. EPA ID Number MID980619936			
7. Transporter 2 Company Name				U.S. EPA ID Number			
8. Designated Facility Name and Site Address 8439117 Canada INC /RSI Environnemental 80 rue des Mélèzes St. Ambroise QC G7P2N4 418-695-3302				U.S. EPA ID Number 116 904 5474			
Facility's Phone:							
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
			No. Type				
	X	1. UN 3077 Environmentally hazardous substance, solid, NOS, 9 PG III (coal tar)	1 CM	35 EST	T	D018	
		2.					
		3.					
		4.					
14. Special Handling Instructions and Additional Information 1-EQ Northeast Inc. acting as the recognized trader arranging for export 3- CDN Manifest 6-ITN X20221031740831 4- RSI TAG #ERG 171# 2- AOC #029672E21004 032423E22004 5-Fedex AS 400 SECURITY 0033209							
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Offeror's Printed/Typed Name Kirsten Colligan on behalf of RITC Signature <i>[Signature]</i> Month Day Year 10 31 22							
TRANSPORTER	16. International Shipments ☐ Import to U.S. ☒ Export from U.S. Port of entry/exit: LaSalle QC Date leaving U.S.: 10-31-22						
	17. Transporter Acknowledgment of Receipt of Materials						
	Transporter 1 Printed/Typed Name Tanner Blackburn Signature <i>[Signature]</i> Month Day Year 10 31 22						
Transporter 2 Printed/Typed Name							Month Day Year
DESIGNATED FACILITY	18. Discrepancy						
	18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection						
	18b. Alternate Facility (or Generator) Manifest Reference Number: U.S. EPA ID Number						
	Facility's Phone:						
	18c. Signature of Alternate Facility (or Generator) Month Day Year						
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
1. H0140		2.		3.		4.	
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a							
Printed/Typed Name Mike Hot				Signature <i>[Signature]</i>		Month Day Year 11 01 22	

Please print or type.

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NYD008413877	2. Page 1 of 1	3. Emergency Response Phone CCN 101134 1-800-424-9300	4. Manifest Tracking Number 023894270 JJK		
5. Generator's Name and Mailing Address Riverside Innovation & Technology Campus 140 Lee Street, Suite 200 Buffalo NY 14210 716-856-3333			Generator's Site Address (if different than mailing address) 3874 River Road Tonawanda New York 3875 14151				
6. Transporter 1 Company Name Laidlaw Carriers Bulk			U.S. EPA ID Number MID980619936				
7. Transporter 2 Company Name			U.S. EPA ID Number				
8. Designated Facility Name and Site Address 8439117 Canada INC /RSI Environnemental 80 rue des Mélèzes St, Ambroise QC G7P2N4 418-695-3302			U.S. EPA ID Number 116 904 5474				
Facility's Phone:							
GENERATOR ↑ ↓ TRANSPORTER ↑ ↓ DESIGNATED FACILITY	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
			No.	Type			
	X	1. UN 3077 Environmentally hazardous substance, solid, NOS, 9, PG III (coal tar)	1	CM	35 EST	T	D018
		2.					
		3.					
	4.						
14. Special Handling Instructions and Additional Information 1-EQ Northeast Inc. acting as the recognized trader arranging for export 3- CDN Manifest 6-ITN X2022 1031741037 #ERG 171# 2- AOC #020472E2100 032423E22004 4- RSI TAG 5-Fedex AS 400 SECUR-T 0033208							
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Offoror's Printed/Typed Name Kirsten Collican on behalf of RITC Signature Month Day Year 10/31/22							
16. International Shipments ☐ Import to U.S. ☒ Export from U.S. Port of entry/exit: Lacolle QC Date leaving U.S.: 10-31-22							
17. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name Berry Blackman Signature Month Day Year 10/31/22 Transporter 2 Printed/Typed Name Signature Month Day Year							
18. Discrepancy 18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection Manifest Reference Number: 18b. Alternate Facility (or Generator) U.S. EPA ID Number Facility's Phone: 18c. Signature of Alternate Facility (or Generator) Month Day Year							
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems) 1. 2. 3. 4.							
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a Printed/Typed Name Marie Hout Signature Month Day Year 11/01/22							

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NYD008413877	2. Page 1 of 1	3. Emergency Response Phone CCN 101139 1-800-424-9300	4. Manifest Tracking Number 023894271 JJK		
5. Generator's Name and Mailing Address Riverside Innovation & Technology Campus 140 Lee Street, Suite 200 Buffalo NY 14210 716-856-3333			Generator's Site Address (if different than mailing address) 3874 River Road Tonawanda New York 3875 14151				
6. Transporter 1 Company Name Laidlaw Carriers Bulk			U.S. EPA ID Number MID980619936				
7. Transporter 2 Company Name			U.S. EPA ID Number				
8. Designated Facility Name and Site Address 8439117 Canada INC /RSI Environnemental 80 rue des Mélèzes St. Ambroise QC G7P2N4 418-695-3302			U.S. EPA ID Number 116 904 5474				
Generator's Phone:							
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
		No.	Type				
X	1. UN 3077 Environmentally hazardous substance, solid, NOS, 9, PG III (coal tar)	1	CM	35 EST	T	D018	
	2.						
	3.						
	4.						
14. Special Handling Instructions and Additional Information 1-EQ Northeast Inc., acting as the recognized trader arranging for export. 3- CDN Manifest 4- RSI TAG 2- AOC #029072E21006 * 032423E22004 6-ITNX2022110179264 #ERG 171# 5-Fedex AS 400 SECUR-T 0033181							
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Offor's Printed/Typed Name Kirsten Colligan on behalf of RITC				Signature K on behalf of RITC		Month Day Year 11 1 22	
16. International Shipments ☐ Import to U.S. ☒ Export from U.S. Port of entry/exit: LAPOLECE Date leaving U.S.: NOV 17 02							
17. Transporter Acknowledgment of Receipt of Materials							
Transporter 1 Printed/Typed Name Carl Vowles				Signature Carl Vowles		Month Day Year 11 01 02	
Transporter 2 Printed/Typed Name				Signature		Month Day Year	
18. Discrepancy							
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection							
18b. Alternate Facility (or Generator) Manifest Reference Number: U.S. EPA ID Number							
Facility's Phone:							
18c. Signature of Alternate Facility (or Generator)						Month Day Year	
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
1. H010		2.		3.		4.	
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a							
Printed/Typed Name Pierre Huot				Signature Pierre Huot		Month Day Year 11 02 22	

Please print or type.

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NYD008413877		2. Page 1 of 1		3. Emergency Response Phone 212 101139 1-800-424-9300		4. Manifest Tracking Number 023894272 JJK					
5. Generator's Name and Mailing Address Riverside Innovation & Technology Campus 140 Lee Street, Suite 200 Buffalo NY 14210 716-856-3333						Generator's Site Address (if different than mailing address) 3874 River Road Tonawanda New York 3875 14151							
6. Transporter 1 Company Name Laidlaw Carriers Bulk						U.S. EPA ID Number MID980619936							
7. Transporter 2 Company Name						U.S. EPA ID Number							
8. Designated Facility Name and Site Address 8439117 Canada INC /RSI Environnemental 80 rue des Mélèzes St. Ambroise QC G7P2N4 418-695-3302						U.S. EPA ID Number 116 904 5474							
Facility's Phone:													
9a. HM		9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))				10. Containers		11. Total Quantity		12. Unit Wt./Vol.		13. Waste Codes	
						No. Type							
1.		UN 3077 Environmentally hazardous substance, solid, NOS, 9, PG III (coal tar)				1 CM		35 EST		T		0018	
2.													
3.													
4.													
14. Special Handling Instructions and Additional Information 1-EQ Northeast Inc. acting as the recognized trader arranging for export 3- CDN Manifest 6-ITNX20221101838295 #ERG 171# 2- AOC #029472521084- 032423E22004 4- RSI TAG 5-Fedex AS 400 SECUR-T 0033184													
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.													
Generator's/Offor's Printed/Typed Name Kristen Colligan on behalf of RITC						Signature <i>[Signature]</i>						Month Day Year 11 1 22	
16. International Shipments ☐ Import to U.S. ☒ Export from U.S. Port of entry/exit: Cacalia pr Transporter signature (for exports only): Date leaving U.S.: 11-2-22													
17. Transporter Acknowledgment of Receipt of Materials													
Transporter 1 Printed/Typed Name Christian Bousse						Signature <i>[Signature]</i>						Month Day Year 11 1 22	
Transporter 2 Printed/Typed Name						Signature						Month Day Year	
18. Discrepancy													
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection													
18b. Alternate Facility (or Generator) Manifest Reference Number: U.S. EPA ID Number													
Facility's Phone:													
18c. Signature of Alternate Facility (or Generator)												Month Day Year	
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)													
1. H0410				2.				3.				4.	
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a													
Printed/Typed Name Pierre Hout						Signature <i>[Signature]</i>						Month Day Year 11 03 22	

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NYD008413877		2. Page 1 of 1		3. Emergency Response Phone CCN 101139 1-800-424-9300		4. Manifest Tracking Number 023894273 JJK			
		5. Generator's Name and Mailing Address Riverside Innovation & Technology Campus 140 Lee Street, Suite 200 Buffalo NY 14210 716-856-3333						Generator's Site Address (if different than mailing address) 3874 River Road Tonawanda New York 14151			
6. Transporter 1 Company Name Laidlaw Carriers Bulk		U.S. EPA ID Number MID980619936									
7. Transporter 2 Company Name		U.S. EPA ID Number									
8. Designated Facility Name and Site Address 8439117 Canada INC /RSI Environnemental 80 rue des Mélèzes St. Ambroise QC G7P2N4 418-695-3302		U.S. EPA ID Number 116 904 5474									
Facility's Phone:											
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))			10. Containers No. Type		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
	1.	UN 3077 Environmentally hazardous substance, solid, NOS, 9, PG III (coal tar)			1 CM		35 EST	T	D018		
	2.										
	3.										
	4.										
14. Special Handling Instructions and Additional Information 1-EQ Northeast Inc., acting as the recognized trader arranging for export. 2- AOC #029672E21004 032423E 22004 3- CDN Manifest : 4- RSI TAG 5-Fedex AS 400 6-ITN X20221107168713 ERG 171# ST23											
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.											
Generator's/Offoror's Printed/Typed Name Kirsten Colligan on behalf of RITC											
Signature <i>[Signature]</i>											
Month Day Year 11 07 22											
TRANSPORTER	16. International Shipments ☐ Import to U.S. ☒ Export from U.S. Port of entry/exit: ALCOA, QC Transporter signature (for exports only): <i>[Signature]</i> Date leaving U.S.: Nov 7, 22										
	17. Transporter Acknowledgment of Receipt of Materials										
	Transporter 1 Printed/Typed Name Carl Vowles										
Signature <i>[Signature]</i>											
Month Day Year 11 07 22											
Transporter 2 Printed/Typed Name											
Signature											
Month Day Year											
DESIGNATED FACILITY	18. Discrepancy										
	18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection										
	Manifest Reference Number:										
	18b. Alternate Facility (or Generator) U.S. EPA ID Number										
	Facility's Phone:										
18c. Signature of Alternate Facility (or Generator)											
Month Day Year											
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)											
1. H04D 2. 3. 4.											
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a											
Printed/Typed Name Pierre Hoot											
Signature <i>[Signature]</i>											
Month Day Year 11 08 22											

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NYD008413877		2. Page 1 of 1		3. Emergency Response Phone 609 101139 1-800-424-9300		4. Manifest Tracking Number 023894274 JJK			
		5. Generator's Name and Mailing Address Riverside Innovation & Technology Campus 140 Lee Street, Suite 200 Buffalo NY 14210 716-856-3333						Generator's Site Address (if different than mailing address) 3874 River Road Tonawanda New York 3875 14151			
6. Transporter 1 Company Name Laidlaw Carriers Bulk		U.S. EPA ID Number MID980619936									
7. Transporter 2 Company Name		U.S. EPA ID Number									
8. Designated Facility Name and Site Address 8439117 Canada INC /RSI Environnemental 80 rue des Mélèzes St. Ambroise QC G7P2N4 418-695-3302		U.S. EPA ID Number 116 904 5474									
Facility's Phone:											
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes					
		No.	Type								
X	1. UN 3077 Environmentally hazardous substance, solid, NOS, 9, PG III (coal tar)	1	CM	35 GST	T	D018					
	2.										
	3.										
	4.										
14. Special Handling Instructions and Additional Information Secur-T 0033188 1-EQ Northeast Inc., acting as the recognized trader arranging for export. 3- CDN Manifest : 4- RSI TAG 2- AOC #029672E21004 032423E 22004 6-ITN X20221107169693 #ERG 171# 5-Fedex AS 400 ST23											
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.											
Generator's/Offoror's Printed/Typed Name Kirsten Colligan on behalf of RITC					Signature [Signature]			Month Day Year 11 07 22			
16. International Shipments ☐ Import to U.S. ☒ Export from U.S. Port of entry/exit: LACOLIE QC Transporter signature (for exports only): Date leaving U.S.: 07/11/22											
17. Transporter Acknowledgment of Receipt of Materials											
Transporter 1 Printed/Typed Name Gerry Blackburn					Signature [Signature]			Month Day Year 11 07 22			
Transporter 2 Printed/Typed Name					Signature			Month Day Year			
18. Discrepancy											
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection											
Manifest Reference Number:											
18b. Alternate Facility (or Generator) U.S. EPA ID Number											
Facility's Phone:											
18c. Signature of Alternate Facility (or Generator) Month Day Year											
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)											
1. #040		2.		3.		4.					
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a											
Printed/Typed Name Pierre Host					Signature [Signature]			Month Day Year 11 08 22			

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NYD008413877		2. Page 1 of 1		3. Emergency Response Phone ECN 101139 1-800-424-9300		4. Manifest Tracking Number 023894275 JJK			
		5. Generator's Name and Mailing Address Riverside Innovation & Technology Campus 140 Lee Street, Suite 200 Buffalo NY 14210 716-856-3333						Generator's Site Address (if different than mailing address) 3874 River Road Tonawanda New York 3875 14151			
6. Transporter 1 Company Name Laidlaw Carriers Bulk								U.S. EPA ID Number MID980619936			
7. Transporter 2 Company Name								U.S. EPA ID Number			
8. Designated Facility Name and Site Address 8439117 Canada INC /RSI Environnemental 80 rue des Mélèzes St. Ambroise QC G7P2N4 418-695-3302								U.S. EPA ID Number 116 904 5474			
Facility's Phone:											
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))				10. Containers No. Type		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
	1.	UN 3077 Environmentally hazardous substance, solid, NOS, 9 ,PG III (coal tar)				1 CM		35 EST	T	D018	
	2.										
	3.										
	4.										
14. Special Handling Instructions and Additional Information 1-EQ Northeast Inc., acting as the recognized trader arranging for export. 2- AOC #029672E21004 03242E22004 3- CDN Manifest : 4- RSI TAG 5-Fedex AS 400 032423E22004 6-ITN 20221107164731 #ERG 171# ST 23											
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.											
Generator's/Offor's Printed/Typed Name Kirsten Colligan on behalf of RITE											
Signature [Signature] on behalf of RITE											
Month Day Year 11 07 22											
TRANSPORTER	16. International Shipments ☐ Import to U.S. ☒ Export from U.S. Port of entry/exit: LaCrosse, Wis. Transporter signature (for exports only): Date leaving U.S.:										
	17. Transporter Acknowledgment of Receipt of Materials										
	Transporter 1 Printed/Typed Name Christian Rouse										
Signature [Signature]											
Month Day Year 11 7 22											
Transporter 2 Printed/Typed Name											
Signature											
Month Day Year											
DESIGNATED FACILITY	18. Discrepancy										
	18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection										
	Manifest Reference Number:										
	18b. Alternate Facility (or Generator) U.S. EPA ID Number										
	Facility's Phone:										
18c. Signature of Alternate Facility (or Generator)											
Month Day Year											
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)											
1. H040 2. 3. 4.											
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest, except as noted in Item 18a											
Printed/Typed Name Pierre Huot											
Signature [Signature]											
Month Day Year 11 09 22											

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NYD008413877	2. Page 1 of 1	3. Emergency Response Phone 1-800-424-9300	4. Manifest Tracking Number 023894276 JJK		
5. Generator's Name and Mailing Address Riverside Innovation & Technology Campus 140 Lee Street, Suite 200 Buffalo NY 14210 716-856-3333				Generator's Site Address (if different than mailing address) 3875 River Road Tonawanda New York 3875 14151			
6. Transporter 1 Company Name Laidlaw Carriers Bulk				U.S. EPA ID Number MID980619936			
7. Transporter 2 Company Name				U.S. EPA ID Number			
8. Designated Facility Name and Site Address 8439117 Canada INC /RSI Environnemental 80 rue des Mélèzes St. Ambroise QC G7P2N4 418-695-3302				U.S. EPA ID Number 116 904 5474			
Facility's Phone:							
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
			No.	Type			
	X	1. UN 3077 Environmentally hazardous substance, solid, NOS, 9, PG III (coal tar)	1	CM	35 EST	T	0018
		2.					
		3.					
		4.					
14. Special Handling Instructions and Additional Information Secur-T 0033192 1-EQ Northeast Inc., acting as the recognized trader arranging for export. 2-AOC #8260722100 032423E22001 3- CON Manifest 4- RSI TAG 5-Fedex AS 400 6-ITN #123456789 #ERG 171# ST22							
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Offor's Printed/Typed Name Kirsten Colligan on behalf of RITC				Signature [Signature]		Month Day Year 11 14 22	
INT'L	16. International Shipments ☐ Import to U.S. ☒ Export from U.S. Port of entry/exit: 1401117-20 Date leaving U.S.: 11-14-22						
	Transporter signature (for exports only): [Signature]						
TRANSPORTER	17. Transporter Acknowledgment of Receipt of Materials						
	Transporter 1 Printed/Typed Name CARI VOWLES				Signature [Signature]		Month Day Year 11 14 22
	Transporter 2 Printed/Typed Name				Signature		Month Day Year
DESIGNATED FACILITY	18. Discrepancy						
	18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection						
	Manifest Reference Number:						
	18b. Alternate Facility (or Generator)				U.S. EPA ID Number		
	Facility's Phone:						
	18c. Signature of Alternate Facility (or Generator)						Month Day Year
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
	1. H040		2.		3.		4.
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a							
Printed/Typed Name Pierre Huet				Signature [Signature]		Month Day Year 11 15 22	

Please print or type.

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NYD008413877		2. Page 1 of		3. Emergency Response Phone		4. Manifest Tracking Number 023894277 JJK	
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5. Generator's Name and Mailing Address Riverside Innovation & Technology Campus 140 Lee Street, Suite 200 Buffalo NY 14210 716-856-3333		Generator's Phone: 716-856-3333		6. Transporter 1 Company Name Laidlaw Carriers Bulk		U.S. EPA ID Number MND980619936	
---	--	------------------------------------	--	--	--	------------------------------------	--

7. Transporter 2 Company Name		U.S. EPA ID Number		8. Designated Facility Name and Site Address 8439117 Canada INC /RSI Environmental 80 rue des Mélézes St. Ambroise QC G7P2N4 418-695-3302		U.S. EPA ID Number 116 906 5476	
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9a. HM		9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any)) UN 3077 Environmentally hazardous substance, solid, NOS, 9, PG III (coal tar)		10. Containers No. 1 Type CM		11. Total Quantity 341 T		12. Unit DOT8		13. Waste Codes	
--------	--	---	--	------------------------------------	--	-----------------------------	--	------------------	--	-----------------	--

4.	3.	2.	1.	14. Special Handling Instructions and Additional Information							
				1- EQ Northeast Inc., acting as the recognized trader arranging for export. 2- AOC #029672E21804-032423E22004 3- CDN Manifest 4- RSI TAG 5- FedEx AS 400 6- ITN-X2022112A08 5047ERG 171# SECUR-T 0033197 7- AOC #029672E21804-032423E22004 8- AOC #029672E21804-032423E22004 9- AOC #029672E21804-032423E22004 10- AOC #029672E21804-032423E22004 11- AOC #029672E21804-032423E22004 12- AOC #029672E21804-032423E22004 13- AOC #029672E21804-032423E22004 14- AOC #029672E21804-032423E22004 15- AOC #029672E21804-032423E22004 16- AOC #029672E21804-032423E22004 17- AOC #029672E21804-032423E22004 18- AOC #029672E21804-032423E22004 19- AOC #029672E21804-032423E22004 20- AOC #029672E21804-032423E22004 21- AOC #029672E21804-032423E22004 22- AOC #029672E21804-032423E22004 23- AOC #029672E21804-032423E22004 24- AOC #029672E21804-032423E22004 25- AOC #029672E21804-032423E22004 26- AOC #029672E21804-032423E22004 27- AOC #029672E21804-032423E22004 28- AOC #029672E21804-032423E22004 29- AOC #029672E21804-032423E22004 30- AOC #029672E21804-032423E22004 31- AOC #029672E21804-032423E22004 32- AOC #029672E21804-032423E22004 33- AOC #029672E21804-032423E22004 34- AOC #029672E21804-032423E22004 35- AOC #029672E21804-032423E22004 36- AOC #029672E21804-032423E22004 37- AOC #029672E21804-032423E22004 38- AOC #029672E21804-032423E22004 39- AOC #029672E21804-032423E22004 40- AOC #029672E21804-032423E22004 41- AOC #029672E21804-032423E22004 42- AOC #029672E21804-032423E22004 43- AOC #029672E21804-032423E22004 44- AOC #029672E21804-032423E22004 45- AOC #029672E21804-032423E22004 46- AOC #029672E21804-032423E22004 47- AOC #029672E21804-032423E22004 48- AOC #029672E21804-032423E22004 49- AOC #029672E21804-032423E22004 50- AOC #029672E21804-032423E22004 51- AOC #029672E21804-032423E22004 52- AOC #029672E21804-032423E22004 53- AOC #029672E21804-032423E22004 54- AOC #029672E21804-032423E22004 55- AOC #029672E21804-032423E22004 56- AOC #029672E21804-032423E22004 57- AOC #029672E21804-032423E22004 58- AOC #029672E21804-032423E22004 59- AOC #029672E21804-032423E22004 60- AOC #029672E21804-032423E22004 61- AOC #029672E21804-032423E22004 62- AOC #029672E21804-032423E22004 63- AOC #029672E21804-032423E22004 64- AOC #029672E21804-032423E22004 65- AOC #029672E21804-032423E22004 66- AOC #029672E21804-032423E22004 67- AOC #029672E21804-032423E22004 68- AOC #029672E21804-032423E22004 69- AOC #029672E21804-032423E22004 70- AOC #029672E21804-032423E22004 71- AOC #029672E21804-032423E22004 72- AOC #029672E21804-032423E22004 73- AOC #029672E21804-032423E22004 74- AOC #029672E21804-032423E22004 75- AOC #029672E21804-032423E22004 76- AOC #029672E21804-032423E22004 77- AOC #029672E21804-032423E22004 78- AOC #029672E21804-032423E22004 79- AOC #029672E21804-032423E22004 80- AOC #029672E21804-032423E22004 81- AOC #029672E21804-032423E22004 82- AOC #029672E21804-032423E22004 83- AOC #029672E21804-032423E22004 84- AOC #029672E21804-032423E22004 85- AOC #029672E21804-032423E22004 86- AOC #029672E21804-032423E22004 87- AOC #029672E21804-032423E22004 88- AOC #029672E21804-032423E22004 89- AOC #029672E21804-032423E22004 90- AOC #029672E21804-032423E22004 91- AOC #029672E21804-032423E22004 92- AOC #029672E21804-032423E22004 93- AOC #029672E21804-032423E22004 94- AOC #029672E21804-032423E22004 95- AOC #029672E21804-032423E22004 96- AOC #029672E21804-032423E22004 97- AOC #029672E21804-032423E22004 98- AOC #029672E21804-032423E22004 99- AOC #029672E21804-032423E22004 100- AOC #029672E21804-032423E22004							

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.		16. International Shipments ☐ Import to U.S. ☒ Export from U.S. Port of entry/exit: <u>LAKE ERIE</u> Date leaving U.S.: <u>11/25/08</u> Signature: <u>John Tobusch</u> Generator's/Offeree's Printed/Typed Name: <u>John Tobusch on behalf of RITC</u> Month: <u>11</u> Day: <u>11</u> Year: <u>08</u>	
--	--	--	--

17. Transporter Acknowledgment of Receipt of Materials Signature: <u>Ben Hascawitch</u> Printed/Typed Name: <u>Ben Hascawitch</u> Month: <u>11</u> Day: <u>20</u> Year: <u>08</u>		18. Discrepancy ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection	
--	--	--	--

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)		20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in item 18a	
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21. Discrepancy		22. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in item 18a	
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Please print or type.

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NYD008413877		2. Page 1 of		3. Emergency Response Phone CCN - 101139 1-800-424-9308		4. Manifest Tracking Number 023894279 JJK			
		5. Generator's Name and Mailing Address Riverside Innovation & Technology Campus 140 Lee Street, Suite 200 Buffalo NY 14210 716-856-3333						Generator's Site Address (if different than mailing address) 3875 River Road Tonawanda New York 3875 14151 14150			
6. Transporter 1 Company Name Laidlaw Carriers Bulk		U.S. EPA ID Number MD980619936									
7. Transporter 2 Company Name		U.S. EPA ID Number									
8. Designated Facility Name and Site Address 8439117 Canada INC /RSI Environnemental 80 rue des Mélèzes St. Ambroise QC G7P2N4 418-695-3302		U.S. EPA ID Number 116 904 5474									
Facility's Phone:											
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))			10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
					No.	Type					
	1.	UN 3077 Environmentally hazardous substance, solid, NOS, 9, PG III (coal tar)			1	CM	35 EST	T	0018		
	2.										
	3.										
	4.										
14. Special Handling Instructions and Additional Information 1-EQ Northeast Inc., acting as the recognized trader arranging for export. 2-AOC #02967ZEZ1004 052423E 22004 3- CDN Manifest 4- RSI TAG 5-Fedex AS 400 19P 6-ITN X2622112070136 #ERG 171# SELM-T 0033186 ST.											
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.											
Generator's/Offor's Printed/Typed Name John Tebouch on behalf of RITE Signature [Signature] Month 11 Day 22 Year 22											
TRANSPORTER INT'L	16. International Shipments ☐ Import to U.S. ☒ Export from U.S. Port of entry/exit: Lacolle - QC Date leaving U.S.: Nov 22 22.										
	17. Transporter Acknowledgment of Receipt of Materials										
	Transporter 1 Printed/Typed Name Tanner Blackburn Signature [Signature] Month 11 Day 22 Year 22										
DESIGNATED FACILITY	Transporter 2 Printed/Typed Name Signature [Signature] Month Day Year										
	18. Discrepancy										
	18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection										
	Manifest Reference Number: U.S. EPA ID Number										
	18b. Alternate Facility (or Generator) Facility's Phone: 18c. Signature of Alternate Facility (or Generator) Month Day Year										
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)											
1. H040 2. 3. 4.											
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a											
Printed/Typed Name Pierre Huet Signature [Signature] Month 11 Day 23 Year 22											

Please print or type.

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NYD008413877	2. Page 1 of 1	3. Emergency Response Phone 1-800-424-9300	4. Manifest Tracking Number 023894280 JJK		
5. Generator's Name and Mailing Address Riverside Innovation & Technology Campus 140 Lee Street, Suite 200 Buffalo NY 14210 716-856-3333				Generator's Site Address (if different than mailing address) 3874 River Road Tonawanda New York 3875 14151			
6. Transporter 1 Company Name Laidlaw Carriers Bulk				U.S. EPA ID Number MID980619936			
7. Transporter 2 Company Name				U.S. EPA ID Number			
8. Designated Facility Name and Site Address 8439117 Canada INC /RSI Environnemental 80 rue des Mélézes St. Ambroise QC G7P2N4 418-695-3302				U.S. EPA ID Number 116 904 5474			
Facility's Phone:							
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))			10. Containers No. Type		11. Total Quantity	12. Unit WL/Vol.
13. Waste Codes							
1.	UN 3077 Environmentally hazardous substance, solid, NOS, 9 PG III (coal tar)			1		CM	35 T
2.							
3.							
4.							
14. Special Handling Instructions and Additional Information 1-EQ Northeast Inc., acting as the recognized trader arranging for export. 2- AOC #030672E21004 032423E22004193 3- CDN Manifest 4- RSI TAG 5-Fedex AS 400 6-ITN X2022422049801 #ERG 171# SECURE-T 0033195 ST23							
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Offeror's Printed/Typed Name Kirsten Collison on behalf of RITE				Signature [Signature]		Month Day Year 11 22 22	
16. International Shipments ☐ Import to U.S. ☒ Export from U.S. Port of entry/exit: Lacole. QC Transporter signature (for exports only): Date leaving U.S.:							
17. Transporter Acknowledgment of Receipt of Materials							
Transporter 1 Printed/Typed Name Gerald Blackburn				Signature [Signature]		Month Day Year 11 22 22	
Transporter 2 Printed/Typed Name				Signature		Month Day Year	
18. Discrepancy							
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection							
Manifest Reference Number:							
18b. Alternate Facility (or Generator) U.S. EPA ID Number							
Facility's Phone:							
18c. Signature of Alternate Facility (or Generator) Month Day Year							
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
1. H049		2.		3.		4.	
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a							
Printed/Typed Name Pierre Hout				Signature [Signature]		Month Day Year 11 23 22	

Please print or type.

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NYD008413877	2. Page 1 of 1	3. Emergency Response Phone 1-800-424-9300	4. Manifest Tracking Number 023894281 JJK		
5. Generator's Name and Mailing Address Riverside Innovation & Technology Campus 140 Lee Street, Suite 200 Buffalo NY 14210 716-856-3333				Generator's Site Address (if different than mailing address) 3875 River Road Tonawanda New York 3875 14151			
Generator's Phone:							
6. Transporter 1 Company Name Laidlaw Carriers Bulk				U.S. EPA ID Number MID980619936			
7. Transporter 2 Company Name				U.S. EPA ID Number			
8. Designated Facility Name and Site Address 8439117 Canada INC /RSI Environnemental 80 rue des Mélèzes St. Ambroise QC G7P2N4 418-695-3302				U.S. EPA ID Number 116 904 5474			
Facility's Phone:							
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
		No.	Type				
X	1. UN 3077 Environmentally hazardous substance, solid, NOS. 9, PG III (coal tar)	1	CM	35 EST	T	D018	
	2.						
	3.						
	4.						
14. Special Handling Instructions and Additional Information Secur - T 0033193 1-EQ Northeast Inc., acting as the recognized trader arranging for export. 2-AOC #0204220000 032423E22004 3- CDN Manifest 4- RSI TAG 5-Fedex AS 400 6-ITN #ERG 171# ST23							
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Offoror's Printed/Typed Name Kristen Colligan				Signature [Signature]		Month Day Year 11 14 22	
16. International Shipments ☐ Import to U.S. ☒ Export from U.S. Transporter signature (for exports only): Port of entry/exit: Date leaving U.S.:							
17. Transporter Acknowledgment of Receipt of Materials							
Transporter 1 Printed/Typed Name Kon Yarascauitch				Signature [Signature]		Month Day Year 11 14 22	
Transporter 2 Printed/Typed Name				Signature		Month Day Year	
18. Discrepancy							
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection Manifest Reference Number:							
18b. Alternate Facility (or Generator)				U.S. EPA ID Number			
Facility's Phone:							
18c. Signature of Alternate Facility (or Generator)						Month Day Year	
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
1. H049		2.		3.		4.	
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a							
Printed/Typed Name Pierre Huot				Signature [Signature]		Month Day Year 11 15 22	

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NYD008413877	2. Page 1 of 1	3. Emergency Response Phone 1-800-424-9300	4. Manifest Tracking Number 023894282 JJK		
5. Generator's Name and Mailing Address Riverside Innovation & Technology Campus 140 Lee Street, Suite 200 Buffalo NY 14210 716-856-3333				Generator's Site Address (if different than mailing address) 3874 River Road Tonawanda New York 14151			
6. Transporter 1 Company Name Laidlaw Carriers Bulk				U.S. EPA ID Number MID980619936			
7. Transporter 2 Company Name				U.S. EPA ID Number			
8. Designated Facility Name and Site Address 8439117 Canada INC /RSI Environnemental 80 rue des Mélèzes St. Ambroise QC G7P2N4 418-695-3302				U.S. EPA ID Number 116 904 5474			
Facility's Phone:							
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
	X	1. UN 3077 Environmentally hazardous substance, solid, NOS. 9, PG III (coal tar)	1	CM	35 EST	T	0018
		2.					
		3.					
		4.					
14. Special Handling Instructions and Additional Information 1-EQ Northeast Inc., acting as the recognized trader arranging for export. 2-AOC #02902221804 032423E 22004 3- CON Manifest 4- RSI TAG 5-Fedex AS 400 6-ITN X2327116703778 #ERG 171# ST23							
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Offor's Printed/Typed Name Kriske Collyer on behalf of RITC							
Signature [Signature] on behalf of RITC							
Month Day Year 11 16 22							
TRANSPORTER	16. International Shipments ☐ Import to U.S. ☒ Export from U.S. Port of entry/exit: 56614 Date leaving U.S.: 10-11-22						
	17. Transporter Acknowledgment of Receipt of Materials						
	Transporter 1 Printed/Typed Name Cory Blackburn						
DESIGNATED FACILITY	Signature [Signature]						
	Month Day Year 11 16 22						
	Transporter 2 Printed/Typed Name						
Signature [Signature]							
Month Day Year 11 16 22							
18. Discrepancy							
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection							
Manifest Reference Number:							
18b. Alternate Facility (or Generator) U.S. EPA ID Number							
Facility's Phone:							
18c. Signature of Alternate Facility (or Generator)							
Month Day Year							
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
1. 4040		2.		3.		4.	
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a							
Printed/Typed Name [Signature]							
Signature [Signature]							
Month Day Year 11 17 22							

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Form Approved. OMB No. 2050-0039

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UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NYD008413877	2. Page 1 of 1	3. Emergency Response Phone CCN 1011139 1-800-424-9300	4. Manifest Tracking Number 023894314 JJK		
5. Generator's Name and Mailing Address Riverside Innovation & Technology Campus 140 Lee Street, Suite 200 Buffalo NY 14210 716-856-3333				Generator's Site Address (if different than mailing address) 3874 River Road Tonawanda New York 14151			
6. Transporter 1 Company Name Goulet Trucking Inc				U.S. EPA ID Number MAC300006038			
7. Transporter 2 Company Name				U.S. EPA ID Number			
8. Designated Facility Name and Site Address 8439117 Canada INC /RSI Environnemental 80 rue des Mèlèzes St, Ambroise QC G7P2N4 418-695-3302				U.S. EPA ID Number 116 904 5474			
Facility's Phone:							
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
		No.	Type				
X	1. UN 3077 Environmentally hazardous substance, solid, NOS, 9, PG III (coal tar)	1	CM	28 EST	T	D018	
	2.						
	3.						
	4.						
14. Special Handling Instructions and Additional Information 1-EQ Northeast Inc., acting as the recognized trader arranging for export. 2- AOC #029672E21004 3- CDN Manifest : 4- RSI TAG 6-ITN X20220920365853 #ERG 171# 5-Fedex AS 400 Secur - T 0033152 ST 23							
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Offoror's Printed/Typed Name Kirsten Colligan on behalf of RITC				Signature KJ on behalf of RITC		Month Day Year 09 20 22	
16. International Shipments ☐ Import to U.S. ☒ Export from U.S. Port of entry/exit: LACAL Transporter signature (for exports only): [Signature] Date leaving U.S.: 9/20/2022							
17. Transporter Acknowledgment of Receipt of Materials							
Transporter 1 Printed/Typed Name Bob LAOD				Signature [Signature]		Month Day Year 9 20 22	
Transporter 2 Printed/Typed Name				Signature		Month Day Year	
18. Discrepancy							
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection							
Manifest Reference Number:							
18b. Alternate Facility (or Generator) U.S. EPA ID Number							
Facility's Phone:							
18c. Signature of Alternate Facility (or Generator) Month Day Year							
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
1. HOCW		2.		3.		4.	
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a							
Printed/Typed Name Socelyn Monro				Signature [Signature]		Month Day Year 09 20 22	

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UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NYD008413877	2. Page 1 of 1	3. Emergency Response Phone 1-800-424-9300	4. Manifest Tracking Number 023894315 JJK		
5. Generator's Name and Mailing Address Riverside Innovation & Technology Campus 140 Lee Street, Suite 200 Buffalo NY 14210 716-856-3333			Generator's Site Address (if different than mailing address) 3874 River Road Tonawanda New York 14151				
6. Transporter 1 Company Name Goulet Trucking Inc			U.S. EPA ID Number MAC300006038				
7. Transporter 2 Company Name			U.S. EPA ID Number				
8. Designated Facility Name and Site Address 8439117 Canada INC /RSI Environnemental 80 rue des Mélèzes St, Ambroise QC G7P2N4 418-695-3302			U.S. EPA ID Number 116 904 5474				
Facility's Phone:							
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No. Type		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
X	1. UN 3077 Environmentally hazardous substance, solid, NOS, 9, PG III (coal tar)	1 CM		28 EST	T	DD18	
	2.						
	3.						
	4.						
14. Special Handling Instructions and Additional Information 1-EQ Northeast Inc., acting as the recognized trader arranging for export. 2- AOC #029672E21004 3- CDN Manifest : 4- RSI TAG 5-Fedex AS 400 6-ITN X20220920403205 #ERG 171#							
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Officer's Printed/Typed Name Kirsten Colligan on behalf of RITC		Signature [Signature]		Month Day Year 09 20 22			
16. International Shipments ☐ Import to U.S. Transporter signature (for exports only):		☒ Export from U.S. Port of entry/exit: Lacolle, QC Date leaving U.S.: 09/20/22					
17. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name David Woods		Signature [Signature]		Month Day Year 09 20 22			
Transporter 2 Printed/Typed Name		Signature		Month Day Year			
18. Discrepancy 18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection Manifest Reference Number:							
18b. Alternate Facility (or Generator) U.S. EPA ID Number							
Facility's Phone:							
18c. Signature of Alternate Facility (or Generator) Month Day Year							
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems) 1. H040 2. 3. 4.							
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a Printed/Typed Name Jacelyn Morin Signature [Signature] Month Day Year 09 22 22							

Please print or type.

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NYD008413877	2. Page 1 of 1	3. Emergency Response Phone CCN 1011139 1-800-424-9300	4. Manifest Tracking Number 023894316 JJK	
5. Generator's Name and Mailing Address Riverside Innovation & Technology Campus 140 Lee Street, Suite 200 Buffalo NY 14210 716-856-3333			Generator's Site Address (if different than mailing address) 3874 River Road Tonawanda New York 14151			
6. Transporter 1 Company Name Goulet Trucking Inc			U.S. EPA ID Number MAC300006038			
7. Transporter 2 Company Name			U.S. EPA ID Number			
8. Designated Facility Name and Site Address 8439117 Canada INC /RSI Environnemental 80 rue des Mélèzes St, Ambroise QC G7P2N4 418-695-3302			U.S. EPA ID Number 116 904 5474			
9a. HM			9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))		10. Containers No. Type	11. Total Quantity
						12. Unit Wt./Vol.
						13. Waste Codes
1. X		UN 3077 Environmentally hazardous substance, solid, NOS, 9, PG III (coal tar)		1 CM		28 7 EST
2.						
3.						
4.						
14. Special Handling Instructions and Additional Information 1-EQ Northeast Inc., acting as the recognized trader arranging for export. 2- AOC #029672E21004 3- CDN Manifest : 4- RSI TAG 5-Fedex AS 400 6-ITN <u>x20210920403433</u> #ERG 171#						
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.						
Generator's/Offor's Printed/Typed Name Kirsten Colligan on behalf of RITS			Signature [Signature]			Month Day Year 09 20 22
16. International Shipments ☐ Import to U.S. ☒ Export from U.S.			Port of entry/exit: Champlain, NY Date leaving U.S.: 9/21/22			
17. Transporter Acknowledgment of Receipt of Materials						
Transporter 1 Printed/Typed Name Steven Rowlin			Signature [Signature]			Month Day Year 9 20 22
Transporter 2 Printed/Typed Name			Signature			Month Day Year
18. Discrepancy						
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection						
Manifest Reference Number: U.S. EPA ID Number						
18b. Alternate Facility (or Generator)						
Facility's Phone:						
18c. Signature of Alternate Facility (or Generator)						
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)						
1. H040		2.		3.		4.
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a						
Printed/Typed Name Jocelyn Morin			Signature [Signature]			Month Day Year 09 22 22

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Please print or type.

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NYDD008413877	2. Page 1 of 1	3. Emergency Response Phone CCN 1011139 1-800-424-9300	4. Manifest Tracking Number 023894317 JJK		
5. Generator's Name and Mailing Address Riverside Innovation & Technology Campus 140 Lee Street, Suite 200 Buffalo NY 14210 716-856-3333				Generator's Site Address (if different than mailing address) 3874 River Road Tonawanda New York 14151			
6. Transporter 1 Company Name Goulet Trucking Inc				U.S. EPA ID Number MAC300006038			
7. Transporter 2 Company Name				U.S. EPA ID Number			
8. Designated Facility Name and Site Address 8439117 Canada INC /RSI Environnemental 80 rue des Mélèzes St, Ambroise QC G7P2N4 418-695-3302				U.S. EPA ID Number 116 904 5474			
Facility's Phone:							
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))			10. Containers No. Type		11. Total Quantity	12. Unit Wt./Vol.
X	1. UN 3077 Environmentally hazardous substance, solid, NOS, 9, PG III (coal tar)			1		CM	28 EST
	2.						
	3.						
	4.						
13. Waste Codes D018							
14. Special Handling Instructions and Additional Information 1-EQ Northeast Inc., acting as the recognized trader arranging for export. 2-AOC #029672E21004 3-CDN Manifest: 4-RSI TAG 5-Fedex AS 400 6-ITN X20220920416097 #ERG 171# Secur - T 0033134 ST23							
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Offor's Printed/Typed Name Kiska Colligan on behalf of RITEC				Signature [Signature]		Month Day Year 09 20 22	
16. International Shipments ☐ Import to U.S. ☒ Export from U.S. Port of entry/exit: Date leaving U.S.:							
17. Transporter Acknowledgment of Receipt of Materials							
Transporter 1 Printed/Typed Name Alfred White				Signature [Signature]		Month Day Year 09 20 22	
Transporter 2 Printed/Typed Name				Signature		Month Day Year	
18. Discrepancy							
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection							
Manifest Reference Number:							
18b. Alternate Facility (or Generator) U.S. EPA ID Number							
Facility's Phone:							
18c. Signature of Alternate Facility (or Generator) Month Day Year							
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
1. H040		2.		3.		4.	
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a							
Printed/Typed Name Socelyn Monow				Signature [Signature]		Month Day Year 09 22 20	

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Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NYD008413877	2. Page 1 of 1	3. Emergency Response Phone 225 101139 1-800-424-9300	4. Manifest Tracking Number 023894318 JJK	
5. Generator's Name and Mailing Address Riverside Innovation & Technology Campus 140 Lee Street, Suite 200 Buffalo NY 14210 716-856-3333			Generator's Site Address (if different than mailing address) 3874 River Road Tonawanda New York 14151			
6. Transporter 1 Company Name Goulet Trucking Inc			U.S. EPA ID Number MAC300006038			
7. Transporter 2 Company Name			U.S. EPA ID Number			
8. Designated Facility Name and Site Address 8439117 Canada INC /RSI Environnemental 80 rue des Mélèzes St, Ambroise QC G7P2N4 418-695-3302			U.S. EPA ID Number 116 904 5474			
Facility's Phone:						
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No. Type		11. Total Quantity	12. Unit WL/Vol.	13. Waste Codes
1. X	UN 3077 Environmentally hazardous substance, solid, NOS, 9, PG III (coal tar)	1 CM		28 68	T	DD18
2.						
3.						
4.						
14. Special Handling Instructions and Additional Information 1-EQ Northeast Inc., acting as the recognized trader arranging for export. 2- AOC #029672E210D4 3- CDN Manifest : 4- RSI TAG 5-Fedex AS 400 6-ITN X20220921447636 #ERG 171# Secur-T 003335 ST 23						
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.						
Generator's/Offor's Printed/Typed Name Kirsten Colligan on behalf of RITC		Signature [Signature]		Month Day Year 09 21 22		
16. International Shipments ☐ Import to U.S. ☒ Export from U.S.		Port of entry/exit: LaColle, QC Date leaving U.S.: 220921				
17. Transporter Acknowledgment of Receipt of Materials						
Transporter 1 Printed/Typed Name Kevin Jones		Signature [Signature]		Month Day Year 9 21 22		
Transporter 2 Printed/Typed Name		Signature		Month Day Year		
18. Discrepancy						
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection						
Manifest Reference Number:						
18b. Alternate Facility (or Generator) U.S. EPA ID Number						
Facility's Phone:						
18c. Signature of Alternate Facility (or Generator)						Month Day Year
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)						
1. H040	2.	3.	4.			
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a						
Printed/Typed Name Jocelyn Monro		Signature [Signature]		Month Day Year 09 22 22		

Please print or type.

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NYD008413877		2. Page 1 of 1		3. Emergency Response Phone CCN 161139 1-800-424-9300		4. Manifest Tracking Number 023894319 JJK			
5. Generator's Name and Mailing Address Riverside Innovation & Technology Campus 140 Lee Street, Suite 200 Buffalo NY 14210 716-856-3333						Generator's Site Address (if different than mailing address) 3874 River Road Tonawanda New York 14151					
6. Transporter 1 Company Name Goulet Trucking Inc						U.S. EPA ID Number MAC300006038					
7. Transporter 2 Company Name STB						U.S. EPA ID Number					
8. Designated Facility Name and Site Address 8439117 Canada INC /RSI Environnemental 80 rue des Melèzes St, Ambroise QC G7P2N4 418-695-3302						U.S. EPA ID Number 116 904 5474					
Facility's Phone:											
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))				10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
						No.	Type				
	X	UN 3077 Environmentally hazardous substance, solid, NOS, 9, PG III (coal tar)				1	CM	28	T	0018	
								EST			
14. Special Handling Instructions and Additional Information 1-EQ Northeast Inc., acting as the recognized trader arranging for export. 2- AOC #029672E21004 3- CDN Manifest 4- RSI TAG 5- Fedex AS 400 6-ITN X2022092671945 #ERG 171#											
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.											
Generator's/Offor's Printed/Typed Name Kirsten Colligan on behalf of RITC											
Signature [Signature] on behalf of RITC											
Month Day Year 09/26/22											
TRANSPORTER INT'L	16. International Shipments ☐ Import to U.S. ☒ Export from U.S. Port of entry/exit: Lacolle QC Transporter signature (for exports only): [Signature] Date leaving U.S.: 220926										
	17. Transporter Acknowledgment of Receipt of Materials										
	Transporter 1 Printed/Typed Name KEVIN JIKES (2120)										
Signature [Signature]											
Month Day Year 09/26/22											
Transporter 2 Printed/Typed Name											
Signature											
Month Day Year											
DESIGNATED FACILITY	18. Discrepancy										
	18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection										
	Manifest Reference Number:										
	18b. Alternate Facility (or Generator) U.S. EPA ID Number										
	Facility's Phone:										
18c. Signature of Alternate Facility (or Generator) Month Day Year											
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)											
1. H040 2. 3. 4.											
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a											
Printed/Typed Name JEAN-MICHEL GAGNON											
Signature [Signature]											
Month Day Year 09/27/22											

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UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NY0000413877		2. Page 1 of 1		3. Emergency Response Phone CCW 1011139 1-800-424-9300		4. Manifest Tracking Number 023894320 JJK					
		5. Generator's Name and Mailing Address Riverside innovation & Technology Campus 140 Lee Street, Suite 200 Buffalo NY 14210 716-856-3333						Generator's Site Address (if different than mailing address) 3874 River Road Tonawanda New York 14151					
6. Generator's Phone:		6. Transporter 1 Company Name Goulet Trucking Inc.						U.S. EPA ID Number MAC300006038					
7. Transporter 2 Company Name								U.S. EPA ID Number					
8. Designated Facility Name and Site Address 8439117 Canada INC /RSI Environnemental 80 rue des Mèlèzes St. Ambroise QC G7P2N4 418-695-3302								U.S. EPA ID Number 116 904 5474					
Facility's Phone:													
9a. HM		9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))				10. Containers No. Type		11. Total Quantity		12. Unit Wt./Vol.		13. Waste Codes	
1.		UN 3077 Environmentally hazardous substance, solid, NOS, 9, PG III (coal tar)				1		CM		28 EST		T D018	
2.													
3.													
4.													
14. Special Handling Instructions and Additional Information 1-EQ Northeast Inc. acting as the recognized trader arranging for export. 2- AOC #029672E21004 3- CDN Manifest 4- RSI TAG 5-Fedex AS 400 6-ITN X20220927775877 #ERG 171# Secur-T 0033201 ST23													
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.													
Generator's/Offor's Printed/Typed Name Kirsten Collison on behalf of RITC													
Signature K on behalf of RITC													
Month Day Year 09 27 22													
16. International Shipments ☐ Import to U.S. ☒ Export from U.S. Port of entry/exit: LA LOILE Date leaving U.S.:													
17. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name WAYNE K PIAZZA													
Signature Wayne K Piazza													
Month Day Year 09 27 22													
Transporter 2 Printed/Typed Name													
Signature													
Month Day Year													
18. Discrepancy													
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection													
Manifest Reference Number:													
18b. Alternate Facility (or Generator) U.S. EPA ID Number													
Facility's Phone:													
18c. Signature of Alternate Facility (or Generator)													
Month Day Year													
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)													
1. H040 2. 3. 4.													
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 19a													
Printed/Typed Name JEAN-MICHEL GAGNON													
Signature Jean Michel Gagnon													
Month Day Year 09 28 22													

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Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NYD008413877		2. Page 1 of 1		3. Emergency Response Phone CCN 1011139 1-800-424-9300		4. Manifest Tracking Number 023894321 JJK			
5. Generator's Name and Mailing Address Riverside Innovation & Technology Campus 140 Lee Street, Suite 200 Buffalo NY 14210 716-856-3333						Generator's Site Address (if different than mailing address) 3874 River Road Tonawanda New York 14151					
6. Transporter 1 Company Name Goulet Trucking Inc						U.S. EPA ID Number MAC300006038					
7. Transporter 2 Company Name						U.S. EPA ID Number					
8. Designated Facility Name and Site Address 8439117 Canada INC /RSI Environnemental 80 rue des Mélèzes St. Ambroise QC G7P2N4 418-695-3302						U.S. EPA ID Number 116 904 5474					
Facility's Phone:											
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))				10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
						No.	Type				
	X	1. UN 3077 Environmentally hazardous substance, solid, NOS. 9, PG III (coal tar)				1	CM	28 EST	T	D018	
		2.									
		3.									
	4.										
14. Special Handling Instructions and Additional Information 1-EQ Northeast Inc. acting as the recognized trader arranging for export 3- CDN Manifest 6-ITN X20220927783789 #ERG 171# 2- AOC #029672E21004 5-Fedex AS 400 Secur-T 0033202 ST 23											
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.											
Generator's/Offor's Printed/Typed Name Kirsten Colligan on behalf of RITC											
Signature [Signature] on behalf of RITC											
Month Day Year 09/27/22											
TRANSPORTER INT'L	16. International Shipments ☐ Import to U.S. ☒ Export from U.S. Port of entry/exit: Lacolle QC Transporter signature (for exports only): [Signature] Date leaving U.S.: 9/27/22										
	17. Transporter Acknowledgment of Receipt of Materials										
TRANSPORTER	Transporter 1 Printed/Typed Name Stephen Collins										
	Signature [Signature]										
DESIGNATED FACILITY	Transporter 2 Printed/Typed Name										
	Signature [Signature]										
DESIGNATED FACILITY	18. Discrepancy										
	18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection										
	Manifest Reference Number:										
	18b. Alternate Facility (or Generator) U.S. EPA ID Number										
	Facility's Phone:										
DESIGNATED FACILITY	18c. Signature of Alternate Facility (or Generator)										
	Month Day Year										
	19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)										
DESIGNATED FACILITY	1. H040 2. 3. 4.										
	20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a										
DESIGNATED FACILITY	Printed/Typed Name Jocelyn Morin										
	Signature [Signature]										
DESIGNATED FACILITY	Month Day Year 09/28/22										

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UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NYD008413877	2. Page 1 of 1	3. Emergency Response Phone CCN 181134 1-800-424-9300	4. Manifest Tracking Number 023894322 JJK		
5. Generator's Name and Mailing Address Riverside Innovation & Technology Campus 140 Lee Street, Suite 200 Buffalo NY 14210 716-856-3333				Generator's Site Address (if different than mailing address) 3874 River Road Tonawanda New York 14151 9/21/22			
Generator's Phone:				U.S. EPA ID Number MAC300006038			
6. Transporter 1 Company Name Goute Trucking Inc				U.S. EPA ID Number			
7. Transporter 2 Company Name				U.S. EPA ID Number			
8. Designated Facility Name and Site Address 8439117 Canada INC /RSI Environnemental 80 rue des Mélèzes St. Ambroise QC G7P2N4 418-695-3302				U.S. EPA ID Number 116 904 5474			
Facility's Phone:							
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
X	1. UN 3077 Environmentally hazardous substance. solid NOS. 9 PG III (coal tar)	1	CM	28 ESR	T	D018	
	2.						
	3.						
	4.						
14. Special Handling Instructions and Additional Information 1-EQ Northeast Inc. acting as the recognized trader arranging for export 3- CDN Manifest 6-ITN 20220927818015 4- RSI TAG #ERG 171# 2- AOC #029672E21004 5-Fedex AS 400 Secur-T 0033204 ST23							
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Offor's Printed/Typed Name Kirsten Colligan on behalf of RITC				Signature <i>[Signature]</i>		Month Day Year 10/27/22	
16. International Shipments ☐ Import to U.S. ☒ Export from U.S. Port of entry/exit: LaCrosse, QC Transporter signature (for exports only): Date leaving U.S.: 9/28/22							
17. Transporter Acknowledgment of Receipt of Materials							
Transporter 1 Printed/Typed Name Alfred White				Signature <i>[Signature]</i>		Month Day Year 9/27/22	
Transporter 2 Printed/Typed Name				Signature		Month Day Year	
18. Discrepancy							
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection							
Manifest Reference Number:							
18b. Alternate Facility (or Generator) U.S. EPA ID Number							
Facility's Phone:							
18c. Signature of Alternate Facility (or Generator) Month Day Year							
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
1. H0410		2.		3.		4.	
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in item 18a							
Printed/Typed Name Debra Mow				Signature <i>[Signature]</i>		Month Day Year 10/29/22	

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UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NYD008413877	2. Page 1 of 1	3. Emergency Response Phone CCN 131134 1-800-424-9300	Manifest Tracking Number 023894323 JJK		
5. Generator's Name and Mailing Address Riverside Innovation & Technology Campus 140 Lee Street, Suite 200 Buffalo NY 14210 716-856-3333				Generator's Site Address (if different than mailing address) 3874 River Road Tonawanda New York 3875 14151 928 22			
6. Transporter 1 Company Name Goulet Trucking Inc				U.S. EPA ID Number MAC300006038			
7. Transporter 2 Company Name				U.S. EPA ID Number			
8. Designated Facility Name and Site Address 8439117 Canada INC /RSI Environnemental 80 rue des Mélézes St, Ambroise QC G7P2N4 418-695-3302				U.S. EPA ID Number 116 904 5474			
Facility's Phone:							
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))			10. Containers No. Type		11. Total Quantity	12. Unit Wt./Vol.
X	1. UN 3077 Environmentally hazardous substance solid, NOS 9, PG III (coal tar)			1 CM		28 EST	T
	2.						
	3.						
	4.						
13. Waste Codes 0018							
14. Special Handling Instructions and Additional Information 1-EQ Northeast Inc. acting as the recognized trader arranging for export. 2- AOC #029672E21004 3- CDN Manifest 4- RSI TAG 5-Fedex AS 400 6-ITN X 20220928864576 #ERG 171# ST23							
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Offero's Printed/Typed Name Kirsten Colligan on behalf of RITC				Signature <i>[Signature]</i>		Month Day Year 09 28 22	
16. International Shipments ☐ Import to U.S. ☒ Export from U.S. Port of entry/exit: CHANDIGARH Transporter signature (for exports only): <i>[Signature]</i> Date leaving U.S.: 9/29/22							
17. Transporter Acknowledgment of Receipt of Materials							
Transporter 1 Printed/Typed Name Jesus Delos Santos				Signature <i>[Signature]</i>		Month Day Year 09 28 22	
Transporter 2 Printed/Typed Name				Signature		Month Day Year	
18. Discrepancy							
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection							
Manifest Reference Number:							
18b. Alternate Facility (or Generator) U.S. EPA ID Number							
Facility's Phone:							
18c. Signature of Alternate Facility (or Generator) Month Day Year							
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
1. H040		2.		3.		4.	
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a							
Printed/Typed Name Mavel Waltzing				Signature <i>[Signature]</i>		Month Day Year 09 29 2022	

Please print or type.

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UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NYD008413877	2. Page 1 of 1	3. Emergency Response Phone CCN 181134 1-800-424-9300	4. Manifest Tracking Number 023894324 JJK		
5. Generator's Name and Mailing Address Riverside Innovation & Technology Campus 140 Lee Street, Suite 200 Buffalo NY 14210 716-856-3333				Generator's Site Address (if different than mailing address) 3874 River Road Tonawanda New York 3875 14151			
6. Transporter 1 Company Name Goulet Trucking Inc				U.S. EPA ID Number MAC300006038			
7. Transporter 2 Company Name				U.S. EPA ID Number			
8. Designated Facility Name and Site Address 8439117 Canada INC /RSI Environnemental 80 rue des M��l��zes St. Ambroise QC G7P2N4 418-695-3302				U.S. EPA ID Number 116 904 5474			
Facility's Phone:							
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
	X	1. UN 3077 Environmentally hazardous substance, solid, NOS. 9, PG III (coal tar)	1	CM	28 CST	T	D018
		2.					
		3.					
		4.					
14. Special Handling Instructions and Additional Information 1-EQ Northeast Inc., acting as the recognized trader arranging for export. 2- AOC #029672E21004 0033141 3- CDN Manifest. 4- RSI TAG 5-Fedex AS 400 6-ITN# 20220928864052 #ERG 171# ST23							
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Offor's Printed/Typed Name Kirsten Calligan on behalf of RITE							
Signature [Signature] on behalf of RITE							
Month Day Year 09 28 22							
TRANSPORTER INT'L	16. International Shipments ☐ Import to U.S. ☒ Export from U.S. Port of entry/exit: Champlain NY						
	Date leaving U.S.:						
TRANSPORTER	17. Transporter Acknowledgment of Receipt of Materials						
	Transporter 1 Printed/Typed Name Rich Wright						
DESIGNATED FACILITY	Signature [Signature]						
	Month Day Year 09 28 22						
DESIGNATED FACILITY	18. Discrepancy						
	18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☒ Residue ☐ Partial Rejection ☐ Full Rejection						
Manifest Reference Number:							
18b. Alternate Facility (or Generator) U.S. EPA ID Number							
Facility's Phone:							
18c. Signature of Alternate Facility (or Generator)							
Month Day Year							
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
1. H040 2. 3. 4.							
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a							
Printed/Typed Name Socelyn Noia							
Signature [Signature]							
Month Day Year 09 28 22							

Please print or type:

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UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NYD008413877	2. Page 1 of 1	3. Emergency Response Phone CCN 101134 1-800-424-9300	4. Manifest Tracking Number 023894325 JJK			
5. Generator's Name and Mailing Address Riverside Innovation & Technology Campus 140 Lee Street, Suite 200 Buffalo NY 14210 716-856-3333				Generator's Site Address (if different than mailing address) 3874 River Road Tonawanda New York 3875 14151 10-4-22				
6. Transporter 1 Company Name Goulet Trucking Inc				U.S. EPA ID Number MAC300006038				
7. Transporter 2 Company Name				U.S. EPA ID Number				
8. Designated Facility Name and Site Address 8439117 Canada INC /RSI Environnemental 80 rue des Mélézes St. Ambroise QC G7P2N4 418-695-3302				U.S. EPA ID Number 116 904 5474				
Facility's Phone:								
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))			10. Containers No. Type		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. UN 3077 Environmentally hazardous substance, solid, NOS, 9 PG III (coal tar)			1		CM	28 T	0018
	2.							
	3.							
	4.							
14. Special Handling Instructions and Additional Information 1-EQ Northeast Inc, acting as the recognized trader arranging for export. 2- AOC #029672E21004 3- CDN Manifest 4- RSI TAG 5- Fedex AS 400 6-ITN X202210041841232#ERG 171# SECUR-T 0033142								
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.								
Generator's/Offor's Printed/Typed Name Kirsten Colligan on behalf of RITC				Signature K		Month Day Year 10 4 22		
16. International Shipments ☐ Import to U.S. ☒ Export from U.S.				Port of entry/exit: Sample A, NY Date leaving U.S.: 10/04/22				
17. Transporter Acknowledgment of Receipt of Materials								
Transporter 1 Printed/Typed Name David M. Hill				Signature D. Hill		Month Day Year 10 04 22		
Transporter 2 Printed/Typed Name				Signature		Month Day Year		
18. Discrepancy								
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection								
18b. Alternate Facility (or Generator) Manifest Reference Number: U.S. EPA ID Number								
Facility's Phone:								
18c. Signature of Alternate Facility (or Generator) Month Day Year								
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)								
1. H040			2.			3.		
4.								
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a								
Printed/Typed Name Socelyn Moore				Signature Socelyn Moore		Month Day Year 10 05 22		

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UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NYD008413877		2. Page 1 of 1	3. Emergency Response Phone CCN 101139 1-800-424-9300		4. Manifest Tracking Number 023894326 JJK		
		5. Generator's Name and Mailing Address Riverside Innovation & Technology Campus 140 Lee Street, Suite 200 Buffalo NY 14210 716-856-3333		Generator's Site Address (if different than mailing address) 3874 River Road Tonawanda New York 3875 14151 10-4-22-LL					
6. Transporter 1 Company Name Goulet Trucking Inc		U.S. EPA ID Number MAC300006038							
7. Transporter 2 Company Name		U.S. EPA ID Number							
8. Designated Facility Name and Site Address 8439117 Canada INC /RSI Environnemental 80 rue des Mélèzes St, Ambroise QC G7P2N4 418-695-3302		U.S. EPA ID Number 116 904 5474							
Facility's Phone:									
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))			10. Containers No. Type		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
		1. UN 3077 Environmentally hazardous substance, solid, NOS, 9, PG III (coal tar)			1 CM		28	T	D018
		2.							
		3.							
		4.							
14. Special Handling Instructions and Additional Information 1-EQ Northeast Inc., acting as the recognized trader arranging for export. 2-AOC #029672E21004 SECUR-T 3- CON Manifest 4- RSI TAG 5-Fedex AS 400 6-ITN X2-221004709093 #ERG 171# 0033144									
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.									
Generator's/Offor's Printed/Typed Name Kirsten Calligan on behalf of RITE Signature Month Day Year 10 4 2022									
TRANSPORTER INT'L	16. International Shipments ☐ Import to U.S. ☒ Export from U.S. Port of entry/exit: Lacolle, QC Date leaving U.S.: 10/5/22								
	Transporter signature (for exports only): <i>[Signature]</i>								
	17. Transporter Acknowledgment of Receipt of Materials								
	Transporter 1 Printed/Typed Name Allard W... Signature Month Day Year 10 4 22								
DESIGNATED FACILITY	Transporter 2 Printed/Typed Name Signature Month Day Year								
	18. Discrepancy								
	18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection								
	18b. Alternate Facility (or Generator) Manifest Reference Number: U.S. EPA ID Number								
	Facility's Phone: 18c. Signature of Alternate Facility (or Generator) Month Day Year								
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)									
1. H040 2. 3. 4.									
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in item 18a									
Printed/Typed Name: Jocelyn M... Signature Month Day Year 10 05 22									

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UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NYD008413877	2. Page 1 of 1	3. Emergency Response Phone CCN 181137 1-800-424-9300	4. Manifest Tracking Number 023894398 JJK	
5. Generator's Name and Mailing Address Riverside Innovation & Technology Campus 140 Lee Street, Suite 200 Buffalo NY 14210 716-856-3333				Generator's Site Address (if different than mailing address) 3875 River Road Tonawanda New York 3875 14151 19-4-22		
6. Transporter 1 Company Name Goulet Trucking Inc				U.S. EPA ID Number MAC300006038		
7. Transporter 2 Company Name				U.S. EPA ID Number		
8. Designated Facility Name and Site Address 8439117 Canada INC /RSI Environnemental 80 rue des Mélézes St. Ambroise QC G7P2N4 418-695-3302				U.S. EPA ID Number 116 90 5474		
Facility's Phone:						
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))		10. Containers No. Type		11. Total Quantity	12. Unit Wt./Vol.
X	1. UN 3077 Environmentally hazardous substance solid, NOS. 9 PG III (coal tar)		1 1 CM		28	T
					EST	
14. Special Handling Instructions and Additional Information 1-EQ Northeast Inc. acting as the recognized trader arranging for export 2- AOT #029672E21004 3- CDN Manifest 4- RSI TAG 5- Fedex AS 400 6-ITN X20221004230124 #ERG 171# 0033155 SECUR-T						
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.						
Generator's/Offor's Printed/Typed Name Kirsten Colligan on behalf of RITC				Signature [Signature]		Month Day Year 10 9 22
16. International Shipments ☐ Import to U.S. Transporter signature (for exports only): [Signature]				☒ Export from U.S. Port of entry/exit: Lacolle QC Date leaving U.S.: 10/5/22		
17. Transporter Acknowledgment of Receipt of Materials						
Transporter 1 Printed/Typed Name [Signature] Stephen Colligan				Signature [Signature]		Month Day Year 10 8 22
Transporter 2 Printed/Typed Name				Signature		Month Day Year
18. Discrepancy						
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection						
18b. Alternate Facility (or Generator)				Manifest Reference Number: U.S. EPA ID Number:		
Facility's Phone:						
18c. Signature of Alternate Facility (or Generator)						Month Day Year
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)						
1. H040		2.		3.		4.
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a						
Printed/Typed Name [Signature] [Signature]				Signature [Signature]		Month Day Year 05 10 22

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UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NY0000413877	2. Page 1 of 1	3. Emergency Response Phone 1-800-424-9300	4. Manifest Tracking Number 023894403 JJK	
5. Generator's Name and Mailing Address Riverside Innovation & Technology Campus 140 Lee Street, Suite 200 Buffalo NY 14210 716-856-3333			Generator's Site Address (if different than mailing address) 3875 River Road Tonawanda New York 14151 10-4-22			
6. Transporter 1 Company Name Goulet Trucking Inc			U.S. EPA ID Number MAC300006038			
7. Transporter 2 Company Name			U.S. EPA ID Number			
8. Designated Facility Name and Site Address 8439117 Canada INC /RSI Environnemental 80 rue des Mélèzes St. Ambroise QC G7P2N4 418-695-3302			U.S. EPA ID Number 116 904 5474			
Facility's Phone:						
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No. Type		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. UN 3077 Environmentally hazardous substance, solid, NOS 9, PG III (coal tar)	1 CM		28	T	D018
	2.			EST		
	3.					
	4.					
14. Special Handling Instructions and Additional Information 1-EQ Northeast Inc. acting as the recognized trader arranging for export 2- ADC #029672E21004 3- CDN Manifest 4- RSI TAG 5-Fedex AS 400 6-ITN X20221005255602 #ERG 171#						
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.						
Generator's/Offor's Printed/Typed Name Kirsten Colligan		Signature <i>[Signature]</i>		Month 10	Day 4	Year 2022
16. International Shipments ☐ Import to U.S. ☒ Export from U.S. Port of entry/exit: Lacrosse QC Transporter signature (for exports only): <i>[Signature]</i> Date leaving U.S.: 10/5/22						
17. Transporter Acknowledgment of Receipt of Materials						
Transporter 1 Printed/Typed Name Michael Curtis		Signature <i>[Signature]</i>		Month 10	Day 04	Year 22
Transporter 2 Printed/Typed Name		Signature		Month	Day	Year
18. Discrepancy						
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection						
18b. Alternate Facility (or Generator) Manifest Reference Number: U.S. EPA ID Number						
Facility's Phone:						
18c. Signature of Alternate Facility (or Generator)						Month Day Year
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)						
1.	2.	3.	4.			
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a						
Printed/Typed Name Sachin K. Das		Signature <i>[Signature]</i>		Month 10	Day 06	Year 22

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UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NYD0008413877	2. Page 1 of 1	3. Emergency Response Phone CCN 1611139 1-800-424-9300	4. Manifest Tracking Number 023894404 JJK		
5. Generator's Name and Mailing Address Riverside Innovation & Technology Campus 140 Lee Street, Suite 200 Buffalo NY 14210 716-856-3333			Generator's Site Address (if different than mailing address) 3974 River Road Tonawanda New York 3575 14151 10-5-25				
Generator's Phone:			U.S. EPA ID Number MAC300006033				
6. Transporter 1 Company Name Goulet Trucking Inc			U.S. EPA ID Number				
7. Transporter 2 Company Name			U.S. EPA ID Number				
8. Designated Facility Name and Site Address 8439117 Canada INC /RSI Environnemental 80 rue des Métézès St. Ambroise QC G7P2N4 418-695-3302			U.S. EPA ID Number 116 904 5474				
Facility's Phone:							
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No. Type		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
1. X	UN 3077 Environmentally hazardous substance, solid NOS 9 PG III (coal tar)	1 CM		28 EST	T	D018	
2.							
3.							
4.							
14. Special Handling Instructions and Additional Information 1-EQ Northeast Inc acting as the recognized trader arranging for export 2- AOC #029672E21004 SECUR-T 3- CDN Manifest 4- RSI TAG 5- Fedex AS 400 0033147 6-ITN-X20221005272536 #ERG 171#							
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Offor's Printed/Typed Name Kirsten Colligan		Signature [Signature]		Month Day Year 10/05/2022			
16. International Shipments Transporter signature (for exports only): [Signature]		☐ Import to U.S. ☒ Export from U.S.		Port of entry/exit: Chem Plain, NY Date leaving U.S.: 10/15/22			
17. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name Mike Sheber		Signature [Signature]		Month Day Year 10/05/22			
Transporter 2 Printed/Typed Name		Signature		Month Day Year			
18. Discrepancy 18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection Manifest Reference Number: 18b. Alternate Facility (or Generator) U.S. EPA ID Number Facility's Phone: 18c. Signature of Alternate Facility (or Generator) Month Day Year							
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems) 1. H040 2. 3. 4.							
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a Printed/Typed Name Jacelyn Hone Signature [Signature] Month Day Year 10/06/22							

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UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NYD008413877	2. Page 1 of 1	3. Emergency Response Phone 1-800-424-9300	4. Manifest Tracking Number 023894405 JJK		
5. Generator's Name and Mailing Address Riverside Innovation & Technology Campus 140 Lee Street, Suite 200 Buffalo NY 14210 716-856-3333			Generator's Site Address (if different than mailing address) 3874 River Road Tonawanda New York 3875 14151 10-5-22				
6. Transporter 1 Company Name Goulet Trucking Inc			U.S. EPA ID Number MAC300006033				
7. Transporter 2 Company Name			U.S. EPA ID Number				
8. Designated Facility Name and Site Address 8439117 Canada INC / RSI Environnemental 80 rue des Métézès St. Ambroise QC G7P2N4 418-695-3302			U.S. EPA ID Number 115 904 5474				
Facility's Phone:							
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No. Type		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
X	1. UN 3077 Environmentally hazardous substance solid NOS. 9 PG III (coal tar)	1		28 EST	T	0018	
	2.						
	3.						
	4.						
14. Special Handling Instructions and Additional Information 1-EQ Northeast Inc acting as the recognized trader arranging for export 2-AOC #029672E21004 SECUR-T 3-CDN Manifest 4-RSI TAG 5-Fedex AS 400 0033161 6-ITN X 2022/055268875 #ERG 171#							
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Offor's Printed/Typed Name Kirsten Colligan on behalf of RITC		Signature [Signature]		Month Day Year 10 05 2022			
16. International Shipments ☐ Import to U.S. ☒ Export from U.S. Port of entry/exit: Local PK Date leaving U.S.: 10-6-22							
17. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name Kich Wnalt Signature [Signature] Month Day Year 10 05 22 Transporter 2 Printed/Typed Name Signature [Signature] Month Day Year							
18. Discrepancy 18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection Manifest Reference Number: U.S. EPA ID Number 18b. Alternate Facility (or Generator) Facility's Phone: 18c. Signature of Alternate Facility (or Generator) Month Day Year							
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems) 1. H040 2. 3. 4.							
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a Printed/Typed Name Salem Horan Signature [Signature] Month Day Year 10 06 22							

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UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NYD008413877		2. Page 1 of 1		3. Emergency Response Phone CCN 151139 1-800-424-9300		4. Manifest Tracking Number 023894406 JJK			
		5. Generator's Name and Mailing Address Riverside Innovation & Technology Campus 140 Lee Street, Suite 200 Buffalo NY 14210 716-856-3333						Generator's Site Address (if different than mailing address) 3875 River Road Tonawanda New York 3875 14151			
6. Transporter 1 Company Name Goulet Trucking Inc		U.S. EPA ID Number MAC300006038									
7. Transporter 2 Company Name		U.S. EPA ID Number									
8. Designated Facility Name and Site Address 8439117 Canada INC /RSI Environnemental 80 rue des Mélèzes St. Ambroise QC G7P2N4 418-695-3302		U.S. EPA ID Number 116 904 5474									
Facility's Phone:											
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))				10. Containers No. Type		11. Total Quantity	12. Unit WL/Vol.	13. Waste Codes	
	1.	UN 3077 Environmentally hazardous substance, solid, NOS. 9 PG III (coal tar)				1 CM		28	T	D018	
	2.							EST			
	3.										
	4.										
14. Special Handling Instructions and Additional Information 1-EQ Northeast Inc. acting as the recognized trader arranging for export 2- AOC #029672E21004 3- CDN Manifest 4- RSI TAG 5- Fedex AS 400 6-ITN X2022101161017 #ERG 171# Secur-T 0033106 ST 23											
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.											
Generator's/Officer's Printed/Typed Name Kirsten Colligan on behalf of RITE											
Signature [Signature] on behalf of RITE											
Month Day Year 10 11 22											
TRANSPORTER INT'L	16. International Shipments ☐ Import to U.S. ☒ Export from U.S. Port of entry/exit: Lacolle, QC Date leaving U.S.: 10/12/22										
	17. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name Alfred M. Whan										
	Signature [Signature]										
	Month Day Year 10 11 22										
	Transporter 2 Printed/Typed Name Signature [Signature]										
Month Day Year 10 11 22											
DESIGNATED FACILITY	18. Discrepancy										
	18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection										
	18b. Alternate Facility (or Generator) Manifest Reference Number: U.S. EPA ID Number										
	Facility's Phone:										
	18c. Signature of Alternate Facility (or Generator) Month Day Year										
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems) 1. H040 2. 3. 4.											
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a Printed/Typed Name Joelynn Nowak											
Signature [Signature]											
Month Day Year 10 13 22											

Please print or type.

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NY0008413877		2. Page 1 of 1		3. Emergency Response Phone CCN 101139 1-800-424-9300		4. Manifest Tracking Number 023894407 JJK		
5. Generator's Name and Mailing Address Riverside Innovation & Technology Campus 140 Lee Street, Suite 200 Buffalo NY 14210 716-856-3333						Generator's Site Address (if different than mailing address) 5875 River Road Tonawanda New York 3875 14151				
6. Transporter 1 Company Name Goulet Trucking Inc						U.S. EPA ID Number MAC300006038				
7. Transporter 2 Company Name						U.S. EPA ID Number				
8. Designated Facility Name and Site Address 8439117 Canada INC /RSI Environnemental 80 rue des Mélèzes St. Ambroise QC G7P2N4 418-695-3302						U.S. EPA ID Number 116 904 5474				
Facility's Phone:										
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))				10. Containers No. Type		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
	X	1. UN 3077 Environmentally hazardous substance, solid, NOS. 9, PG III (coal tar) 7619				1 DT 1 CM		EST 30	T	D018
14. Special Handling Instructions and Additional Information 1-EQ Northeast Inc., acting as the recognized trader arranging for export 3- CDN Manifest 6-ITN X20221012646728 4- RSI TAG #ERG 171# 2- AQC #029672E21004 5- Fedex AS 400 Secur-T 0033167 ST23										
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.										
Generator's/Offoror's Printed/Typed Name Kirsten Colligan on behalf of RITC										
Signature [Signature] on behalf of RITC										
Month Day Year 10 12 22										
TRANSPORTER INT'L	16. International Shipments ☐ Import to U.S. ☒ Export from U.S. Port of entry/exit: Lacolle QC Date leaving U.S.: 11/12/22									
	Transporter signature (for exports only): [Signature]									
	17. Transporter Acknowledgment of Receipt of Materials									
	Transporter 1 Printed/Typed Name Stephen Collins					Signature [Signature]				
	Month Day Year 10 12 22									
DESIGNATED FACILITY	Transporter 2 Printed/Typed Name									
	Signature					Month Day Year				
	18. Discrepancy									
	18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection									
	18b. Alternate Facility (or Generator) Manifest Reference Number: U.S. EPA ID Number									
Facility's Phone:										
18c. Signature of Alternate Facility (or Generator)										
Month Day Year										
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)										
1. H040		2.		3.		4.				
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a										
Printed/Typed Name [Signature]					Signature [Signature]					Month Day Year 10 13 22

Please print or type.

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NYD008413877		2. Page 1 of 1		3. Emergency Response Phone CCN 101139 1-800-424-9300		4. Manifest Tracking Number 023894408 JJK			
5. Generator's Name and Mailing Address Riverside Innovation & Technology Campus 140 Lee Street, Suite 200 Buffalo NY 14210 716-856-3333						Generator's Site Address (if different than mailing address) 3874 River Road Tonawanda New York 14151					
6. Transporter 1 Company Name Goulet Trucking Inc						U.S. EPA ID Number MAC300006038					
7. Transporter 2 Company Name						U.S. EPA ID Number					
8. Designated Facility Name and Site Address 8439117 Canada INC /RSI Environnemental 80 rue des Mélèzes St. Ambroise QC G7P2N4 418-695-3302						U.S. EPA ID Number 116 904 5474					
Facility's Phone:											
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))				10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
						No.	Type				
	X	1. UN 3077 Environmentally hazardous substance, solid, NOS. 9, PG III (coal tar)				1	CM	28	T	D018	
		2.						EST			
		3.									
		4.									
14. Special Handling Instructions and Additional Information 1-EQ Northeast Inc., acting as the recognized trader arranging for export 3- CDN Manifest 6-ITN# 20221012081656 4- RSI TAG #ERG 171# 2- AOC #029672E21004 5- Fedex AS 400 Secur-T 0033168 ST 23											
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.											
Generator's/Offor's Printed/Typed Name Kirsten Colligan on behalf of RITC											
Signature [Signature] on behalf of RITC											
Month Day Year 10 12 22											
TRANSPORTER INT'L	16. International Shipments ☐ Import to U.S. ☒ Export from U.S. Port of entry/exit: Lacolle Date leaving U.S.: 10-13-22										
	17. Transporter Acknowledgment of Receipt of Materials										
	Transporter 1 Printed/Typed Name Rich Wright										
	Signature [Signature]										
	Month Day Year 11 12 22										
DESIGNATED FACILITY	Transporter 2 Printed/Typed Name										
	Signature [Signature]										
	Month Day Year 11 12 22										
	18. Discrepancy										
	18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection										
18b. Alternate Facility (or Generator)											
Manifest Reference Number:											
U.S. EPA ID Number											
Facility's Phone:											
18c. Signature of Alternate Facility (or Generator)											
Month Day Year											
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)											
1. H 040 2. 3. 4.											
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a											
Printed/Typed Name Sedyn Morris											
Signature [Signature]											
Month Day Year 10 13 22											

Please print or type.

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NYD008413877	2. Page 1 of 1	3. Emergency Response Phone CAN 1-800-424-9300	4. Manifest Tracking Number 023894409 JJK		
5. Generator's Name and Mailing Address Riverside Innovation & Technology Campus 140 Lee Street, Suite 200 Buffalo NY 14210 Generator's Phone: 716-856-3333				Generator's Site Address (if different than mailing address) 5074 River Road Tonawanda New York 3875 14151 10-14-22			
6. Transporter 1 Company Name Goulet Trucking Inc				U.S. EPA ID Number MAC300006038			
7. Transporter 2 Company Name				U.S. EPA ID Number			
8. Designated Facility Name and Site Address 8439117 Canada INC /RSI Environnemental 80 rue des Mélèzes St. Ambroise-QC G7P2N4 418-695-3302				U.S. EPA ID Number 116 904 5474			
Facility's Phone:							
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
		No.	Type				
X	1. UN 3077 Environmentally hazardous substance, solid, NOS. 9, PG III (coal tar)	1	CM	28	T	D018	
	2.			EST			
	3.						
	4.						
14. Special Handling Instructions and Additional Information 1-EQ Northeast Inc. acting as the recognized trader arranging for export. 2- AOC #029672E21004 3- CDN Manifest 4- RSI TAG 5-Fedex AS 400 6-ITN X20221014936736 #ERG 171#							
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Offor's Printed/Typed Name Kirsten Colligan on behalf of RITC				Signature [Signature]		Month Day Year 10/14/22	
16. International Shipments ☐ Import to U.S. ☒ Export from U.S. Port of entry/exit: Chomplain, NY Transporter signature (for exports only): [Signature] Date leaving U.S.: 10/16/22							
17. Transporter Acknowledgment of Receipt of Materials							
Transporter 1 Printed/Typed Name Mike Sheber				Signature [Signature]		Month Day Year 10/14/22	
Transporter 2 Printed/Typed Name				Signature		Month Day Year	
18. Discrepancy							
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection							
18b. Alternate Facility (or Generator) Manifest Reference Number: U.S. EPA ID Number							
Facility's Phone:							
18c. Signature of Alternate Facility (or Generator) Month Day Year							
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
1. H-040		2.		3.		4.	
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a							
Printed/Typed Name Pierre Huot				Signature [Signature]		Month Day Year 10/17/22	

Please print or type.

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NY D008413877	2. Page 1 of 1	3. Emergency Response Phone CC 1 011 39 1-800-424-9300	4. Manifest Tracking Number 023894410 JJK	
5. Generator's Name and Mailing Address Riverside Innovation & Technology Campus 140 Lee Street, Suite 200 Buffalo NY 14210 716-856-3333			Generator's Site Address (if different than mailing address) 3874 River Road Tonawanda New York 14151			
Generator's Phone:						
6. Transporter 1 Company Name Goulet Trucking Inc			U.S. EPA ID Number MAC300006038			
7. Transporter 2 Company Name			U.S. EPA ID Number			
8. Designated Facility Name and Site Address 8439 117 Canada INC /RSI Environnemental 80 rue des Métézès St. Ambroise QC G7P2N4 418-695-3302			U.S. EPA ID Number 116 904 5474			
Facility's Phone:						
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No. Type		11. Total Quantity	12. Unit Wt./Vol.
	1.	UN 3077 Environmentally hazardous substance, solid, NOS. 9, PG III (coal tar)	1 CM		28 EST	T
	2.					
	3.					
	4.					
13. Waste Codes 0018						
14. Special Handling Instructions and Additional Information 1-EQ Northeast Inc. acting as the recognized trader arranging for export 2- AOC #029672E21004 3- CDN Manifest 4- RSI TAG 5-Fedex AS 400 6-ITN X20221018021466 #ERG 171# Secur-T 0033172 ST23						
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.						
Generator's/Offeror's Printed/Typed Name Kirsten Colligan on behalf of RITE		Signature 		Month Day Year 10 18 22		
TRANSPORTER	16. International Shipments ☐ Import to U.S. ☒ Export from U.S.		Port of entry/exit: Lacolle, QC Date leaving U.S.: 10/19/22			
	Transporter signature (for exports only):					
DESIGNATED FACILITY	17. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name Alfred Whinn		Signature 		Month Day Year 10 18 22	
	Transporter 2 Printed/Typed Name		Signature		Month Day Year	
18. Discrepancy 18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection Manifest Reference Number: U.S. EPA ID Number						
18b. Alternate Facility (or Generator) Facility's Phone:						
18c. Signature of Alternate Facility (or Generator)			Month Day Year			
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems) 1. 2. 3. 4.						
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a Printed/Typed Name: Pierre Huot Signature: Month Day Year: 10 20 22						

Please print or type.

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NYD009413877		2. Page 1 of 1		3. Emergency Response Phone CCN 101139 1-800-424-9300		4. Manifest Tracking Number 023894411 JJK			
		5. Generator's Name and Mailing Address Riverside Innovation & Technology Campus 140 Lee Street, Suite 200 Buffalo NY 14210 716-856-3333						Generator's Site Address (if different than mailing address) 3874 River Road Tonawanda New York 3875 14151			
6. Transporter 1 Company Name Goulet Trucking Inc.		U.S. EPA ID Number MAC300006038									
7. Transporter 2 Company Name		U.S. EPA ID Number									
8. Designated Facility Name and Site Address 8439117 Canada INC /RSI Environnemental 80 rue des Mélézes St. Ambroise QC G7P2N4 418-695-3302		U.S. EPA ID Number 116 904 5474									
Facility's Phone:											
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))				10. Containers		11. Total Quantity	12. Unit WL/Vol.	13. Waste Codes	
						No.	Type				
	1.	UN 3077 Environmentally hazardous substance, solid, NOS, 9, PG III (coal tar)				1	DT	28	T	D018	
	2.							EST			
	3.										
14. Special Handling Instructions and Additional Information		1-EQ Northeast Inc. acting as the recognized trader arranging for export. 2- AOC #029672E21004 3- CDN Manifest 4- RSI TAG 5- Fedex AS 400 6-ITN #ERG 171# Secur-T 0033173 ST 23									
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.											
Generator's/Offor's Printed/Typed Name Kirsten Colligan on behalf of RITC Signature [Signature] on behalf of RITC Month Day Year 10 18 22											
TRANSPORTER INT'L	16. International Shipments ☐ Import to U.S. ☒ Export from U.S. Transporter signature (for exports only): [Signature] Port of entry/exit: Lacolle QC Date leaving U.S.: 10/19/22										
	17. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name: Stephen Collins Signature: [Signature] Month Day Year: 10 18 22 Transporter 2 Printed/Typed Name: _____ Signature: _____ Month Day Year: _____										
DESIGNATED FACILITY	18. Discrepancy 18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection Manifest Reference Number: _____ U.S. EPA ID Number: _____										
	18b. Alternate Facility (or Generator) Facility's Phone: _____										
	18c. Signature of Alternate Facility (or Generator) Month Day Year: _____										
	19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems) 1. _____ 2. _____ 3. _____ 4. _____										
	20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a Printed/Typed Name: Pierre Hoot Signature: [Signature] Month Day Year: 10 19 22										

Please print or type.

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NYD 088 413 877		2. Page 1 of 1	3. Emergency Response Phone (800) 839-3975		4. Manifest Tracking Number 017760941 FLE		
		5. Generator's Name and Mailing Address 140 LEE ST STE 200 BUFFALO, NY 14210 Generator's Phone: (716) 856-3333							
		Generator's Site Address (if different than mailing address) 3875 RIVER ROAD TONAWANDA, NY 14150							
6. Transporter 1 Company Name Page ETC Inc		U.S. EPA ID Number NYD986969947							
7. Transporter 2 Company Name		U.S. EPA ID Number							
8. Designated Facility Name and Site Address MICHIGAN DISPOSAL WASTE TREATMEN 49350 N I-94 SERVICE DRIVE BELLEVILLE, MI 48111 Facility's Phone: (800) 592-5489		U.S. EPA ID Number MID 000 724 831							
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))			10. Containers No. Type		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
	X	1. RQ, NA3077, Waste, Hazardous, solid, n.o.s., (Benzene), 9, PGIII, (Benzene), ERG #171			1 DT		23 EST	T	D018
		2.							
		3.							
		4.							
14. Special Handling Instructions and Additional Information 1. J220030MDI / Debris - D018 CO6 micro									
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.									
Generator's/Offor's Printed/Typed Name Kirsten Colligan on behalf of RITC Signature [Signature] on behalf of RITC Month 11 Day 17 Year 22									
INT'L	16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____								
	17. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name David Youngs Signature [Signature] Month 11 Day 17 Year 22 Transporter 2 Printed/Typed Name _____ Signature _____ Month _____ Day _____ Year _____								
TRANSPORTER	18. Discrepancy								
	18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection								
	Manifest Reference Number: _____								
	18b. Alternate Facility (or Generator) _____ U.S. EPA ID Number _____								
DESIGNATED FACILITY	Facility's Phone: _____								
	18c. Signature of Alternate Facility (or Generator) _____ Month _____ Day _____ Year _____								
	19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems) 1. H110 2. _____ 3. _____ 4. _____								
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a Printed/Typed Name Mary M. Lazarus Signature [Signature] Month 11 Day 18 Year 22									

CERTIFICATE OF DISPOSAL

us ecology



FORM #REC-FM-029-BEL

The electronic version of this document is the controlled version. Each user is responsible for ensuring that any document being used is the current version.

6/12/17

This certificate is to verify the wastes specified on Manifest # 017760941 F/E

have been properly disposed of in accordance with all local, state and federal regulation.

"Disposed of" means either: 1) Burial or 2) Processed as specified in 40CFR et seq.

FACILITY NAME:
(Please check one)



Michigan Disposal Waste Treatment Plant
(EPA I.D. # MID000724831)

☐ Wayne Disposal, Inc.
(EPA I.D. # MID048090633)

ADDRESS:

49350 N. I-94 Service Drive
Bellville, Michigan 48111

PHONE NUMBER:

1-800-592-5489

FAX NUMBER:

1-800-593-5329

Authorized Signature: _____

A blue ink signature is written over a horizontal line.



INVENTUM ENGINEERING, PC

Attachment D – Laboratory Reports



October 26, 2021

Service Request No:R2109410

Mr. John Black
Inventum Engineering
481 Carlisle Drive
Herndon, VA 20170

Laboratory Results for: RITC Tanks

Dear Mr.Black,

Enclosed are the results of the sample(s) submitted to our laboratory September 11, 2021
For your reference, these analyses have been assigned our service request number **R2109410**.

All testing was performed according to our laboratory's quality assurance program and met the requirements of the TNI standards except as noted in the case narrative report. Any testing not included in the lab's accreditation is identified on a Non-Certified Analytes report. All results are intended to be considered in their entirety. ALS Environmental is not responsible for use of less than the complete report. Results apply only to the individual samples submitted to the lab for analysis, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s), and represented by Laboratory Control Sample control limits. Any events, such as QC failures or Holding Time exceedances, which may add to the uncertainty are explained in the report narrative or are flagged with qualifiers. The flags are explained in the Report Qualifiers and Definitions page of this report.

Please contact me if you have any questions. My extension is 7475. You may also contact me via email at Meghan.Pedro@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Meghan Pedro
Project Manager

ADDRESS

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

PHONE +1 585 288 5380 | **FAX** +1 585 288 8475

ALS Group USA, Corp.
dba ALS Environmental



Narrative Documents

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

Phone (585) 288-5380 Fax (585) 288-8475

www.alsglobal.com



Client: Inventum Engineering
Project: RITC Tanks
Sample Matrix: Water

Service Request: R2109410
Date Received: 09/11/2021

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier level IV requested by the client.

Sample Receipt:

Three water samples were received for analysis at ALS Environmental on 09/11/2021. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

Semivolatiles by GC/MS:

Method 8270D, 09/16/2021: The lower control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). Since there were no detections of the analyte(s) above the MRL in the associated field samples, the quantitation is not affected. The data quality was not significantly affected and no further corrective action was taken.

Method 8270D, 09/17/2021: The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.

Method 8270D, 09/16/2021: The lower control limit for the spike recovery of the Laboratory Control Sample (LCS) was exceeded for one or more analyte. Precision is also outside limits. The LCS/batch MS/MSD are within limits for all analytes. The analytes affected are flagged in the LCS Summary.

Method 8270D, R2109410-002: The control limits for one or more surrogates in the sample are not applicable. The analysis of the sample required a dilution, which resulted in a surrogate concentration below the Method Reporting Limit (MRL). No further corrective action was appropriate.

Semivolatile GC:

Method 8081B, 09/20/2021: The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.

Method 8081B, 739415, R2109410-002: The control limits for one or more surrogates in the sample are not applicable. The chromatogram indicated the presence of target/non-target background components that masked the surrogate, which prevented adequate resolution for quantitation. No corrective action was appropriate.

Method 8081B, 739415, R2109410-002: The reporting limit is elevated for one or more analytes. The sample extract was diluted prior to instrumental analysis due to relatively high levels of non-target background components. The extract was highly colored and viscous, which indicated the need to perform a dilution prior to injection into the instrument. Clean-up of the extract was performed within the scope of the method, but did not eliminate enough of the background components to prevent dilution. The result(s) are flagged to indicate the matrix interference.

Method 8082A, 09/20/2021: The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and

Approved by _____

Date 10/26/2021

no further corrective action was taken.

Method 8151A, 739108: The control limits for one or more surrogates in the sample are not applicable. The analysis of the sample required a dilution, which resulted in a surrogate concentration below the Method Reporting Limit (MRL). No further corrective action was appropriate.

Metals:

Method 6020A: Sample(s) required dilution due to the nature of the matrix. The reporting limits are adjusted to reflect the dilution.

General Chemistry:

Method 353.2, R2109410-002: Sample(s) required dilution due to the nature of the matrix. The reporting limits are adjusted to reflect the dilution.

Method 353.2, R2109410-001,002,003: Sample(s) required dilution due to the nature of the matrix. The reporting limits are adjusted to reflect the dilution.

Method Kelada-01, R2109410-001 and -003: The Method Reporting Limit (MRL) was elevated due to color and salinity of sample.

Subcontracted Analytical Parameters:

One or more samples were subcontracted to another laboratory for testing. The certified analytical report from the subcontractor has been included in its entirety at the end of this report and includes the name and address of the subcontracted laboratory.

Volatiles by GC/MS:

Method 8260C, 09/22/2021: The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.

Method 8260C, 739515: Sample(s) required dilution due to the foaming nature of the matrix and/or the presence of a non-target compound at high concentration. The reporting limits are adjusted to reflect the dilution.

Approved by



Date

10/26/2021

SAMPLE DETECTION SUMMARY

CLIENT ID: TK-LQ-ST22-09102021	Lab ID: R2109410-001
---------------------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Fluoride, undistilled	2.65		0.010	0.10	mg/L	300.0
pH	7.63				pH Units	9040C
Benzene	1.0	J	0.20	5.0	ug/L	8260C
Toluene	0.63	J	0.20	5.0	ug/L	8260C
m,p-Xylenes	0.45	J	0.20	5.0	ug/L	8260C
2-Methylnaphthalene	11		1.3	9.1	ug/L	8270D
3- and 4-Methylphenol Coelution	1.3	J	1.2	9.1	ug/L	8270D
Acenaphthene	1.8	J	1.4	9.1	ug/L	8270D
Acenaphthylene	13		1.4	9.1	ug/L	8270D
Anthracene	11		1.3	9.1	ug/L	8270D
Benz(a)anthracene	57		1.6	9.1	ug/L	8270D
Benzo(a)pyrene	47		1.2	9.1	ug/L	8270D
Benzo(b)fluoranthene	53		1.2	9.1	ug/L	8270D
Benzo(g,h,i)perylene	19		1.0	9.1	ug/L	8270D
Benzo(k)fluoranthene	21		1.3	9.1	ug/L	8270D
Biphenyl	2.5	J	1.4	9.1	ug/L	8270D
Carbazole	26		1.6	9.1	ug/L	8270D
Chrysene	61		1.2	9.1	ug/L	8270D
Dibenz(a,h)anthracene	8.6	J	1.1	9.1	ug/L	8270D
Dibenzofuran	10		1.4	9.1	ug/L	8270D
Fluoranthene	40		1.5	9.1	ug/L	8270D
Fluorene	19		1.3	9.1	ug/L	8270D
Indeno(1,2,3-cd)pyrene	20		1.8	9.1	ug/L	8270D
Naphthalene	61		1.2	9.1	ug/L	8270D
Phenanthrene	53		1.4	9.1	ug/L	8270D
Phenol	1.4	J	1.0	9.1	ug/L	8270D
Pyrene	32		1.5	9.1	ug/L	8270D

CLIENT ID: TK-LQ-ST23-09102021	Lab ID: R2109410-002
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Analyte	Results	Flag	MDL	MRL	Units	Method
Ammonia as Nitrogen, undistilled	765000		26	50	mg/L	350.1
Cyanide, Total	164		4.0	5.0	mg/L	Kelada-01
Fluoride, undistilled	18		1.0	10	mg/L	300.0
pH	7.51				pH Units	9040C
2-Butanone (MEK)	11	J	7.8	100	ug/L	8260C
Benzene	440		2.0	50	ug/L	8260C
Ethylbenzene	4.4	J	2.0	50	ug/L	8260C
Styrene	14	J	2.0	50	ug/L	8260C
Toluene	170		2.0	50	ug/L	8260C
m,p-Xylenes	63		2.0	50	ug/L	8260C
o-Xylene	19	J	2.0	50	ug/L	8260C
2,4-Dimethylphenol	2300		140	910	ug/L	8270D

SAMPLE DETECTION SUMMARY

CLIENT ID: TK-LQ-ST23-09102021	Lab ID: R2109410-002
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Analyte	Results	Flag	MDL	MRL	Units	Method
2-Methylnaphthalene	810	J	130	910	ug/L	8270D
2-Methylphenol	9900		100	910	ug/L	8270D
3- and 4-Methylphenol Coelution	28000		120	910	ug/L	8270D
Acenaphthylene	910	J	140	910	ug/L	8270D
Anthracene	490	J	130	910	ug/L	8270D
Benz(a)anthracene	500	J	160	910	ug/L	8270D
Benzo(a)pyrene	540	J	120	910	ug/L	8270D
Benzo(b)fluoranthene	550	J	120	910	ug/L	8270D
Benzo(g,h,i)perylene	330	J	100	910	ug/L	8270D
Benzo(k)fluoranthene	230	J	130	910	ug/L	8270D
Carbazole	830	J	160	910	ug/L	8270D
Chrysene	670	J	120	910	ug/L	8270D
Dibenzofuran	460	J	140	910	ug/L	8270D
Fluoranthene	1400		150	910	ug/L	8270D
Fluorene	740	J	130	910	ug/L	8270D
Indeno(1,2,3-cd)pyrene	300	J	180	910	ug/L	8270D
Naphthalene	3800		120	910	ug/L	8270D
Phenanthrene	2300		140	910	ug/L	8270D
Phenol	26000		100	910	ug/L	8270D
Pyrene	1100		150	910	ug/L	8270D
2,4-D	310	P	35	45	ug/L	8151A

CLIENT ID: TK-LQ-ST24-09102021	Lab ID: R2109410-003
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Analyte	Results	Flag	MDL	MRL	Units	Method
Ammonia as Nitrogen, undistilled	0.086		0.026	0.050	mg/L	350.1
Fluoride, undistilled	0.17		0.010	0.10	mg/L	300.0
pH	7.44				pH Units	9040C



Sample Receipt Information

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

Phone (585) 288-5380 Fax (585) 288-8475

www.alsglobal.com

Client: Inventum Engineering
Project: RITC Tanks

Service Request:R2109410

SAMPLE CROSS-REFERENCE

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
R2109410-001	TK-LQ-ST22-09102021	9/10/2021	
R2109410-002	TK-LQ-ST23-09102021	9/10/2021	
R2109410-003	TK-LQ-ST24-09102021	9/10/2021	



CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

060028

1565 Jefferson Road, Building 300, Suite 360 • Rochester, NY 14623 | +1 585 288 5380 +1 585 288 8475 (fax) PAGE 1 OF 1

Project Name RITC		Project Number TANKS		ANALYSIS REQUESTED (Include Method Number and Container Preservative)																					
Project Manager JOHN BLACK		Report CC		PRESERVATIVE																					
Company/Address 481 CARLISLE DR SUITE 202 HERNDON, VA 20170		Phone # 585-734-5255		Email john.black@ " "		Sample's Signature [Signature]		Sampler's Printed Name ROXANNE BIRX		NUMBER OF CONTAINERS															
FOR OFFICE USE ONLY LAB ID		DATE		SAMPLING TIME		MATRIX		PRESERVATIVE KEY																	
TK-LQ-ST21-09102021		9/10						0. NONE 1. HCL 2. HNO ₃ 3. H ₂ SO ₄ 4. NaOH 5. Zn. Acetate 6. MeOH 7. NaHSO ₄ 8. Other																	
TK-SD-ST22-09102021		9/10						REMARKS/ ALTERNATE DESCRIPTION																	
TK-LQ-ST23-09102021		9/10						SEE ATTACHED ASI PARAMETERS																	
TK-SD-ST23-09102021		9/10																							
TK-LQ-ST24-09102021		9/10																							
TK-SD-ST24-09102021		9/10																							
SPECIAL INSTRUCTIONS/COMMENTS Metals		TURNAROUND REQUIREMENTS RUSH (SURCHARGES APPLY) 1 day 2 day 3 day 4 day 5 day X Standard (10 business days-No Surcharge) REQUESTED REPORT DATE		REPORT REQUIREMENTS I. Results Only II. Results + QC Summaries (LCS, DUP, MS/MSD as required) III. Results + QC and Calibration Summaries X IV. Data Validation Report with Raw Data MYS DEC, HONEYWELL EDD Edata X Yes No		INVOICE INFORMATION PO # BILL TO: RECEIVED BY																			
STATE WHERE SAMPLES WERE COLLECTED NY		RELINQUISHED BY		RECEIVED BY		RELINQUISHED BY		RECEIVED BY		RELINQUISHED BY		RECEIVED BY													
Signature Keith Adderley		Signature Mathew Mackey		Signature		Signature		Signature		Signature		Signature													
Printed Name Keith Adderley		Printed Name Mathew Mackey		Printed Name		Printed Name		Printed Name		Printed Name		Printed Name													
Firm Inventum Eng.		Firm ALS		Firm		Firm		Firm		Firm		Firm													
Date/Time 9/10/21		Date/Time 9/11/21 9:35		Date/Time		Date/Time		Date/Time		Date/Time		Date/Time													



Cooler Receipt and Preservation Check Form

R2109410

Inventum Engineering
RITC Tanks

5



Project/Client RITC Folder Number _____

Cooler received on 9/11/21 by: MM COURIER: ALS UPS FEDEX VELOCITY CLIENT

1	Were Custody seals on outside of cooler?	Y <u>N</u>	5a	Perchlorate samples have required headspace?	Y N <u>NA</u>
2	Custody papers properly completed (ink, signed)?	Y <u>N</u>	5b	Did VOA vials, Alk, or Sulfide have sig* bubbles?	Y <u>N</u> NA
3	Did all bottles arrive in good condition (unbroken)?	Y <u>N</u>	6	Where did the bottles originate?	<u>ALS/ROC</u> CLIENT
4	Circle: <u>Wet Ice</u> Dry Ice Gel packs present?	<u>Y</u> N	7	Soil VOA received as: Bulk Encore 5035set	<u>NA</u>

8. Temperature Readings Date: 9/11/21 Time: 9:45 ID: IR#7 IR#11 From: Temp Blank Sample Bottle

Observed Temp (°C)	<u>9.7</u>	<u>13.4</u>	<u>10.6</u>				
Within 0-6°C?	Y <u>N</u>	Y <u>N</u>	Y <u>N</u>	Y N	Y N	Y N	Y N
If <0°C, were samples frozen?	Y N	Y N	Y N	Y N	Y N	Y N	Y N

If out of Temperature, note packing/ice condition: Ice melted Poorly Packed (described below) Same Day Rule

& Client Approval to Run Samples: _____ Standing Approval Client aware at drop-off Client notified by: _____

All samples held in storage location: R1002 by MM on 9/11/21 at 10:15
5035 samples placed in storage location: _____ by _____ on _____ at _____ within 48 hours of sampling? Y N

Cooler Breakdown/Preservation Check**: Date: 9/14/21 Time: 10:49 by: MM

- Were all bottle labels complete (i.e. analysis, preservation, etc.)? YES NO
- Did all bottle labels and tags agree with custody papers? YES NO
- Were correct containers used for the tests indicated? YES NO
- Were 5035 vials acceptable (no extra labels, not leaking)? YES NO
- Air Samples: Cassettes / Tubes Intact Y / N with MS Y / N Canisters Pressurized N/A Tedlar® Bags Inflated N/A

pH	Lot of test paper	Reagent	Preserved?	Lot Received	Exp	Sample ID Adjusted	Vol. Added	Lot Added	Final pH
≥12	<u>203/19</u>	NaOH	✓	<u>214719</u>	<u>4/22</u>				
≤2		HNO ₃	✓	<u>1120092</u>					
≤2		H ₂ SO ₄	✓	<u>1121-25</u>					
<4		NaHSO ₄							
5-9		For 608pest		No=Notify for 3day					
Residual Chlorine (-)		For <u>CN</u> Phenol, 625, 608pest, 522	✓	If +, contact PM to add Na ₂ S ₂ O ₃ (625, 608, CN), ascorbic (phenol).					
		Na ₂ S ₂ O ₃							
		ZnAcetate	-						
		HCl	**						

**VOAs and 1664 Not to be tested before analysis. Otherwise, all bottles of all samples with chemical preservatives are checked (not just representatives).

Bottle lot numbers: 2596 client 2-06-16, 76636 1275, 21-04-30

Explain all Discrepancies/ Other Comments:

* TK-LQ-ST23-09/02/21 reactivity has broken cap,
TK-LQ-ST22-09/02/21 8260 TCLP 1 vial shattered
& Missing 1 NO₂ bottle

HPROD	BULK
HTR	FLDT
<u>SUB</u>	HGFB
ALS	LL3541

Labels secondary reviewed by: MM
PC Secondary Review: _____

*significant air bubbles: VOA > 5-6 mm : WC > 1 in. diameter

Client: Inventum Engineering
Project: RITC Tanks

Client: Inventum Engineering
Project: RITC Tanks

Client: Inventum Engineering
Project: RITC Tanks

ALS Group USA, Corp.
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Internal Chain of Custody Report

Client: Inventum Engineering
Project: RITC Tanks

Service Request: R2109410

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
R2109410-001.22					
	Kelada-01				
		9/14/2021	1248	SMO / GESMERIAN	
		9/15/2021	0928	RT000703 / GLAFORCE	
		9/15/2021	0928	R-015 / GLAFORCE	
		10/1/2021	1506	R-002 / GESMERIAN	
R2109410-001.23					
	8260C				
		9/14/2021	1248	SMO / GESMERIAN	
		9/14/2021	1256	R-001 / GESMERIAN	
		9/21/2021	1721	In Lab / KRUEST	
		9/21/2021	1737	R-001-S12 / KRUEST	
R2109410-001.24					
		9/14/2021	1248	SMO / GESMERIAN	
		9/14/2021	1256	R-001 / GESMERIAN	
R2109410-001.25					
		9/14/2021	1248	SMO / GESMERIAN	
		9/14/2021	1256	R-001 / GESMERIAN	
R2109410-001.26					
	8270D				
		9/14/2021	1250	SMO / GESMERIAN	
		9/14/2021	1257	R-002 / GESMERIAN	
		9/15/2021	0808	In Lab / VSTAUFFER	
R2109410-001.27					
		9/14/2021	1250	SMO / GESMERIAN	
		9/14/2021	1257	R-002 / GESMERIAN	
R2109410-001.28					
		9/14/2021	1250	SMO / GESMERIAN	
		9/14/2021	1257	R-002 / GESMERIAN	
R2109410-001.29					
	8151A				
		9/14/2021	1250	SMO / GESMERIAN	
		9/14/2021	1257	R-002 / GESMERIAN	
		9/15/2021	0808	In Lab / VSTAUFFER	
R2109410-001.30					

Client: Inventum Engineering
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Internal Chain of Custody Report

Client: Inventum Engineering
Project: RITC Tanks

Service Request: R2109410

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
	300.0,353.2,9040C	9/15/2021	1337	R-017 / GLAFORCE	
		9/15/2021	1337	R-017 / GLAFORCE	
		9/30/2021	1510	R-002 / GESMERIAN	
		R2109410-002.22			
	Kelada-01	9/14/2021	1248	SMO / GESMERIAN	
		9/15/2021	0928	RT000703 / GLAFORCE	
		9/15/2021	0928	R-015 / GLAFORCE	
		10/1/2021	1506	R-002 / GESMERIAN	
R2109410-002.23					
		9/14/2021	1248	SMO / GESMERIAN	
		9/14/2021	1256	R-001 / GESMERIAN	
		R2109410-002.24			
			8260C	9/14/2021	1248
9/14/2021	1256			R-001 / GESMERIAN	
9/21/2021	1721			In Lab / KRUEST	
9/21/2021	1737			R-001-S12 / KRUEST	
R2109410-002.25					
		9/14/2021	1248	SMO / GESMERIAN	
		9/14/2021	1256	R-001 / GESMERIAN	
		R2109410-002.26			
			8270D	9/14/2021	1250
9/14/2021	1257			R-002 / GESMERIAN	
9/15/2021	0808			In Lab / VSTAUFFER	
R2109410-002.27					
		9/14/2021	1250	SMO / GESMERIAN	
		9/14/2021	1257	R-002 / GESMERIAN	
		R2109410-002.28			
			8151A	9/14/2021	1250
9/14/2021	1257			R-002 / GESMERIAN	
9/15/2021	0808			In Lab / VSTAUFFER	
R2109410-002.29					
		9/14/2021	1250	SMO / GESMERIAN	

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Internal Chain of Custody Report

Client: Inventum Engineering
Project: RITC Tanks

Service Request: R2109410[illegible]

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Internal Chain of Custody Report

Client: Inventum Engineering
Project: RITC Tanks

Service Request: R2109410

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
R2109410-003.18	300.0,353.2,9040C	9/14/2021	1248	SMO / GESMERIAN	
		9/15/2021	1337	R-017 / GLAFORCE	
		9/15/2021	1337	RT000540 / GLAFORCE	
		9/15/2021	1337	R-017 / GLAFORCE	
		9/30/2021	1510	R-002 / GESMERIAN	
R2109410-003.22	Kelada-01	9/14/2021	1248	SMO / GESMERIAN	
		9/15/2021	0928	RT000703 / GLAFORCE	
		9/15/2021	0928	R-015 / GLAFORCE	
		10/1/2021	1506	R-002 / GESMERIAN	
R2109410-003.23	8260C	9/14/2021	1248	SMO / GESMERIAN	
		9/14/2021	1256	R-001 / GESMERIAN	
		9/21/2021	1721	In Lab / KRUEST	
		9/21/2021	1737	R-001-S12 / KRUEST	
R2109410-003.24		9/14/2021	1248	SMO / GESMERIAN	
		9/14/2021	1256	R-001 / GESMERIAN	
R2109410-003.25		9/14/2021	1248	SMO / GESMERIAN	
		9/14/2021	1256	R-001 / GESMERIAN	
R2109410-003.26	8151A	9/14/2021	1250	SMO / GESMERIAN	
		9/14/2021	1257	R-002 / GESMERIAN	
		9/15/2021	0808	In Lab / VSTAUFFER	
R2109410-003.27		9/14/2021	1250	SMO / GESMERIAN	
		9/14/2021	1257	R-002 / GESMERIAN	
R2109410-003.28		9/14/2021	1250	SMO / GESMERIAN	
		9/14/2021	1257	R-002 / GESMERIAN	
R2109410-003.29		9/14/2021	1250	SMO / GESMERIAN	
		9/14/2021	1257	R-002 / GESMERIAN	

ALS Group USA, Corp.
dba ALS Environmental
Internal Chain of Custody Report

Client: Inventum Engineering
Project: RITC Tanks

Service Request: R2109410

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
R2109410-003.30	8081B,8082A	9/14/2021	1250	SMO / GESMERIAN	
		9/14/2021	1257	R-002 / GESMERIAN	
		9/14/2021	1250	SMO / GESMERIAN	
		9/14/2021	1257	R-002 / GESMERIAN	



Miscellaneous Forms

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

Phone (585) 288-5380 Fax (585) 288-8475

www.alsglobal.com

REPORT QUALIFIERS AND DEFINITIONS

U	Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.	+	Correlation coefficient for MSA is <0.995.
J	Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Aroclors).	N	Inorganics- Matrix spike recovery was outside laboratory limits.
B	Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.	N	Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.
E	Inorganics- Concentration is estimated due to the serial dilution was outside control limits.	S	Concentration has been determined using Method of Standard Additions (MSA).
E	Organics- Concentration has exceeded the calibration range for that specific analysis.	W	Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.
D	Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.	P	Concentration >40% difference between the two GC columns.
*	Indicates that a quality control parameter has exceeded laboratory limits. Under the "Notes" column of the Form I, this qualifier denotes analysis was performed out of Holding Time.	C	Confirmed by GC/MS
H	Analysis was performed out of hold time for tests that have an "immediate" hold time criteria.	Q	DoD reports: indicates a pesticide/Aroclor is not confirmed ($\geq 100\%$ Difference between two GC columns).
#	Spike was diluted out.	X	See Case Narrative for discussion.
		MRL	Method Reporting Limit. Also known as:
		LOQ	Limit of Quantitation (LOQ) The lowest concentration at which the method analyte may be reliably quantified under the method conditions.
		MDL	Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).
		LOD	Limit of Detection. A value at or above the MDL which has been verified to be detectable.
		ND	Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.

Rochester Lab ID # for State Accreditations¹



NELAP States
Florida ID # E87674
New Hampshire ID # 2941
New York ID # 10145
Pennsylvania ID# 68-786
Virginia #460167

Non-NELAP States
Connecticut ID #PH0556
Delaware Approved
Maine ID #NY01587
North Carolina #36701
North Carolina #676
Rhode Island LAO00333

¹ Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the case narrative. Since not all analyte/method/matrix combinations are offered for state/NELAC accreditation, this report may contain results which are not accredited. For a specific list of accredited analytes, contact the laboratory or go to <https://www.alsglobal.com/locations/americas/north-america/usa/new-york/rochester-environmental>

ALS Laboratory Group

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: Inventum Engineering
Project: RITC Tanks/

Service Request: R2109410

Sample Name: TK-LQ-ST22-09102021
Lab Code: R2109410-001
Sample Matrix: Water

Date Collected: 09/10/21
Date Received: 09/11/21

Analysis Method	Extracted/Digested By	Analyzed By
300.0		SMORGAN
350.1		SMEDBURY
353.2		SMEDBURY
353.2		MROGERSON
6010C	BDIAMOND	KMCLAEN
6020A	BDIAMOND	KMCLAEN
7470A	BDIAMOND	NMANSEN
8081B	KSERCU	AMOSSES
8082A	KSERCU	AMOSSES
8151A	KSERCU	AMOSSES
8260C		KRUEST
8270D	KSERCU	JMISIUREWICZ
9040C		KAWONG
ASTM D4809-06		WHYATT
Kelada-01		CWOODS

Sample Name: TK-LQ-ST23-09102021
Lab Code: R2109410-002
Sample Matrix: Water

Date Collected: 09/10/21
Date Received: 09/11/21

Analysis Method	Extracted/Digested By	Analyzed By
300.0		SMORGAN
350.1		SMEDBURY
353.2		MROGERSON
353.2		SMEDBURY
6010C	BDIAMOND	KMCLAEN
6020A	BDIAMOND	KMCLAEN
7470A	BDIAMOND	NMANSEN
8081B	KSERCU	AMOSSES
8082A	KSERCU	AMOSSES
8151A	KSERCU	AMOSSES
8260C		KRUEST
8270D	KSERCU	JMISIUREWICZ
9040C		KAWONG

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: Inventum Engineering
Project: RITC Tanks/

Service Request: R2109410

Sample Name: TK-LQ-ST23-09102021
Lab Code: R2109410-002
Sample Matrix: Water

Date Collected: 09/10/21
Date Received: 09/11/21

Analysis Method
ASTM D4809-06
Kelada-01

Extracted/Digested By

Analyzed By
WHYATT
CWOODS

Sample Name: TK-LQ-ST24-09102021
Lab Code: R2109410-003
Sample Matrix: Water

Date Collected: 09/10/21
Date Received: 09/11/21

Analysis Method

Extracted/Digested By

Analyzed By

300.0

SMORGAN

350.1

SMEDBURY

353.2

MROGERSON

353.2

SMEDBURY

6010C

BDIAMOND

KMCLAEN

6020A

BDIAMOND

KMCLAEN

7470A

BDIAMOND

NMANSEN

8081B

KSERCU

AMOSSES

8082A

KSERCU

AMOSSES

8151A

KSERCU

AMOSSES

8260C

KRUEST

8270D

KSERCU

JMISIUREWICZ

9040C

KAWONG

ASTM D4809-06

WHYATT

Kelada-01

CWOODS



INORGANIC PREPARATION METHODS

The preparation methods associated with this report are found in these tables unless discussed in the case narrative.

Water/Liquid Matrix

Analytical Method	Preparation Method
200.7	200.2
200.8	200.2
6010C	3005A/3010A
6020A	ILM05.3
9034 Sulfide Acid Soluble	9030B
SM 4500-CN-E Residual Cyanide	SM 4500-CN-G
SM 4500-CN-E WAD Cyanide	SM 4500-CN-I

Solid/Soil/Non-Aqueous Matrix

Analytical Method	Preparation Method
6010C	3050B
6020A	3050B
6010C TCLP (1311) extract	3005A/3010A
6010 SPLP (1312) extract	3005A/3010A
7199	3060A
300.0 Anions/ 350.1/ 353.2/ SM 2320B/ SM 5210B/ 9056A Anions	DI extraction
For analytical methods not listed, the preparation method is the same as the analytical method reference.	



Sample Results

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

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Volatile Organic Compounds by GC/MS

ALS Environmental—Rochester Laboratory

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ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Inventum Engineering
Project: RITC Tanks
Sample Matrix: Water

Sample Name: TK-LQ-ST22-09102021
Lab Code: R2109410-001

Service Request: R2109410
Date Collected: 09/10/21
Date Received: 09/11/21 09:35

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	0.20 U	5.0	0.20	1	09/22/21 06:46	
1,1,2,2-Tetrachloroethane	0.20 U	5.0	0.20	1	09/22/21 06:46	
1,1,2-Trichloroethane	0.20 U	5.0	0.20	1	09/22/21 06:46	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.20 U	5.0	0.20	1	09/22/21 06:46	
1,1-Dichloroethane (1,1-DCA)	0.20 U	5.0	0.20	1	09/22/21 06:46	
1,1-Dichloroethene (1,1-DCE)	0.20 U	5.0	0.20	1	09/22/21 06:46	
1,2,3-Trichlorobenzene	0.25 U	5.0	0.25	1	09/22/21 06:46	
1,2,4-Trichlorobenzene	0.34 U	5.0	0.34	1	09/22/21 06:46	
1,2-Dibromo-3-chloropropane (DBCP)	0.45 U	5.0	0.45	1	09/22/21 06:46	
1,2-Dibromoethane	0.20 U	5.0	0.20	1	09/22/21 06:46	
1,2-Dichlorobenzene	0.20 U	5.0	0.20	1	09/22/21 06:46	
1,2-Dichloroethane	0.20 U	5.0	0.20	1	09/22/21 06:46	
1,2-Dichloropropane	0.20 U	5.0	0.20	1	09/22/21 06:46	
1,3-Dichlorobenzene	0.20 U	5.0	0.20	1	09/22/21 06:46	
1,4-Dichlorobenzene	0.20 U	5.0	0.20	1	09/22/21 06:46	
1,4-Dioxane	13 U	100	13	1	09/22/21 06:46	
2-Butanone (MEK)	0.78 U	10	0.78	1	09/22/21 06:46	
2-Hexanone	0.20 U	10	0.20	1	09/22/21 06:46	
4-Methyl-2-pentanone	0.20 U	10	0.20	1	09/22/21 06:46	
Acetone	5.0 U	10	5.0	1	09/22/21 06:46	
Benzene	1.0 J	5.0	0.20	1	09/22/21 06:46	
Bromochloromethane	0.20 U	5.0	0.20	1	09/22/21 06:46	
Bromodichloromethane	0.20 U	5.0	0.20	1	09/22/21 06:46	
Bromoform	0.25 U	5.0	0.25	1	09/22/21 06:46	
Bromomethane	0.70 U	5.0	0.70	1	09/22/21 06:46	
Carbon Disulfide	0.42 U	10	0.42	1	09/22/21 06:46	
Carbon Tetrachloride	0.34 U	5.0	0.34	1	09/22/21 06:46	
Chlorobenzene	0.20 U	5.0	0.20	1	09/22/21 06:46	
Chloroethane	0.23 U	5.0	0.23	1	09/22/21 06:46	
Chloroform	0.24 U	5.0	0.24	1	09/22/21 06:46	
Chloromethane	0.28 U	5.0	0.28	1	09/22/21 06:46	
Cyclohexane	0.26 U	10	0.26	1	09/22/21 06:46	
Dibromochloromethane	0.20 U	5.0	0.20	1	09/22/21 06:46	
Dichlorodifluoromethane (CFC 12)	0.21 U	5.0	0.21	1	09/22/21 06:46	
Dichloromethane	0.65 U	5.0	0.65	1	09/22/21 06:46	
Ethylbenzene	0.20 U	5.0	0.20	1	09/22/21 06:46	
Isopropylbenzene (Cumene)	0.20 U	5.0	0.20	1	09/22/21 06:46	
Methyl Acetate	0.33 U	10	0.33	1	09/22/21 06:46	
Methyl tert-Butyl Ether	0.20 U	5.0	0.20	1	09/22/21 06:46	
Methylcyclohexane	0.20 U	10	0.20	1	09/22/21 06:46	
Styrene	0.20 U	5.0	0.20	1	09/22/21 06:46	
Tetrachloroethene (PCE)	0.21 U	5.0	0.21	1	09/22/21 06:46	
Toluene	0.63 J	5.0	0.20	1	09/22/21 06:46	

ALS Group USA, Corp.
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Analytical Report

Client: Inventum Engineering
Project: RITC Tanks
Sample Matrix: Water

Sample Name: TK-LQ-ST22-09102021
Lab Code: R2109410-001

Service Request: R2109410
Date Collected: 09/10/21
Date Received: 09/11/21 09:35

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	0.20 U	5.0	0.20	1	09/22/21 06:46	
Trichlorofluoromethane (CFC 11)	0.24 U	5.0	0.24	1	09/22/21 06:46	
Vinyl Chloride	0.20 U	5.0	0.20	1	09/22/21 06:46	
cis-1,2-Dichloroethene	0.23 U	5.0	0.23	1	09/22/21 06:46	
cis-1,3-Dichloropropene	0.20 U	5.0	0.20	1	09/22/21 06:46	
m,p-Xylenes	0.45 J	5.0	0.20	1	09/22/21 06:46	
o-Xylene	0.20 U	5.0	0.20	1	09/22/21 06:46	
trans-1,2-Dichloroethene	0.20 U	5.0	0.20	1	09/22/21 06:46	
trans-1,3-Dichloropropene	0.23 U	5.0	0.23	1	09/22/21 06:46	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	105	85 - 122	09/22/21 06:46	
Dibromofluoromethane	109	80 - 116	09/22/21 06:46	
Toluene-d8	110	87 - 121	09/22/21 06:46	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Inventum Engineering
Project: RITC Tanks
Sample Matrix: Water

Service Request: R2109410
Date Collected: 09/10/21
Date Received: 09/11/21 09:35

Sample Name: TK-LQ-ST23-09102021
Lab Code: R2109410-002

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	2.0 U	50	2.0	10	09/22/21 07:30	
1,1,2,2-Tetrachloroethane	2.0 U	50	2.0	10	09/22/21 07:30	
1,1,2-Trichloroethane	2.0 U	50	2.0	10	09/22/21 07:30	
1,1,2-Trichloro-1,2,2-trifluoroethane	2.0 U	50	2.0	10	09/22/21 07:30	
1,1-Dichloroethane (1,1-DCA)	2.0 U	50	2.0	10	09/22/21 07:30	
1,1-Dichloroethene (1,1-DCE)	2.0 U	50	2.0	10	09/22/21 07:30	
1,2,3-Trichlorobenzene	2.5 U	50	2.5	10	09/22/21 07:30	
1,2,4-Trichlorobenzene	3.4 U	50	3.4	10	09/22/21 07:30	
1,2-Dibromo-3-chloropropane (DBCP)	4.5 U	50	4.5	10	09/22/21 07:30	
1,2-Dibromoethane	2.0 U	50	2.0	10	09/22/21 07:30	
1,2-Dichlorobenzene	2.0 U	50	2.0	10	09/22/21 07:30	
1,2-Dichloroethane	2.0 U	50	2.0	10	09/22/21 07:30	
1,2-Dichloropropane	2.0 U	50	2.0	10	09/22/21 07:30	
1,3-Dichlorobenzene	2.0 U	50	2.0	10	09/22/21 07:30	
1,4-Dichlorobenzene	2.0 U	50	2.0	10	09/22/21 07:30	
1,4-Dioxane	130 U	1000	130	10	09/22/21 07:30	
2-Butanone (MEK)	11 J	100	7.8	10	09/22/21 07:30	
2-Hexanone	2.0 U	100	2.0	10	09/22/21 07:30	
4-Methyl-2-pentanone	2.0 U	100	2.0	10	09/22/21 07:30	
Acetone	50 U	100	50	10	09/22/21 07:30	
Benzene	440	50	2.0	10	09/22/21 07:30	
Bromochloromethane	2.0 U	50	2.0	10	09/22/21 07:30	
Bromodichloromethane	2.0 U	50	2.0	10	09/22/21 07:30	
Bromoform	2.5 U	50	2.5	10	09/22/21 07:30	
Bromomethane	7.0 U	50	7.0	10	09/22/21 07:30	
Carbon Disulfide	4.2 U	100	4.2	10	09/22/21 07:30	
Carbon Tetrachloride	3.4 U	50	3.4	10	09/22/21 07:30	
Chlorobenzene	2.0 U	50	2.0	10	09/22/21 07:30	
Chloroethane	2.3 U	50	2.3	10	09/22/21 07:30	
Chloroform	2.4 U	50	2.4	10	09/22/21 07:30	
Chloromethane	2.8 U	50	2.8	10	09/22/21 07:30	
Cyclohexane	2.6 U	100	2.6	10	09/22/21 07:30	
Dibromochloromethane	2.0 U	50	2.0	10	09/22/21 07:30	
Dichlorodifluoromethane (CFC 12)	2.1 U	50	2.1	10	09/22/21 07:30	
Dichloromethane	6.5 U	50	6.5	10	09/22/21 07:30	
Ethylbenzene	4.4 J	50	2.0	10	09/22/21 07:30	
Isopropylbenzene (Cumene)	2.0 U	50	2.0	10	09/22/21 07:30	
Methyl Acetate	3.3 U	100	3.3	10	09/22/21 07:30	
Methyl tert-Butyl Ether	2.0 U	50	2.0	10	09/22/21 07:30	
Methylcyclohexane	2.0 U	100	2.0	10	09/22/21 07:30	
Styrene	14 J	50	2.0	10	09/22/21 07:30	
Tetrachloroethene (PCE)	2.1 U	50	2.1	10	09/22/21 07:30	
Toluene	170	50	2.0	10	09/22/21 07:30	

ALS Group USA, Corp.
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Analytical Report

Client: Inventum Engineering
Project: RITC Tanks
Sample Matrix: Water

Sample Name: TK-LQ-ST23-09102021
Lab Code: R2109410-002

Service Request: R2109410
Date Collected: 09/10/21
Date Received: 09/11/21 09:35

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	2.0 U	50	2.0	10	09/22/21 07:30	
Trichlorofluoromethane (CFC 11)	2.4 U	50	2.4	10	09/22/21 07:30	
Vinyl Chloride	2.0 U	50	2.0	10	09/22/21 07:30	
cis-1,2-Dichloroethene	2.3 U	50	2.3	10	09/22/21 07:30	
cis-1,3-Dichloropropene	2.0 U	50	2.0	10	09/22/21 07:30	
m,p-Xylenes	63	50	2.0	10	09/22/21 07:30	
o-Xylene	19 J	50	2.0	10	09/22/21 07:30	
trans-1,2-Dichloroethene	2.0 U	50	2.0	10	09/22/21 07:30	
trans-1,3-Dichloropropene	2.3 U	50	2.3	10	09/22/21 07:30	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	107	85 - 122	09/22/21 07:30	
Dibromofluoromethane	105	80 - 116	09/22/21 07:30	
Toluene-d8	109	87 - 121	09/22/21 07:30	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Inventum Engineering
Project: RITC Tanks
Sample Matrix: Water

Service Request: R2109410
Date Collected: 09/10/21
Date Received: 09/11/21 09:35

Sample Name: TK-LQ-ST24-09102021
Lab Code: R2109410-003

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	2.0 U	50	2.0	10	09/22/21 07:08	
1,1,2,2-Tetrachloroethane	2.0 U	50	2.0	10	09/22/21 07:08	
1,1,2-Trichloroethane	2.0 U	50	2.0	10	09/22/21 07:08	
1,1,2-Trichloro-1,2,2-trifluoroethane	2.0 U	50	2.0	10	09/22/21 07:08	
1,1-Dichloroethane (1,1-DCA)	2.0 U	50	2.0	10	09/22/21 07:08	
1,1-Dichloroethene (1,1-DCE)	2.0 U	50	2.0	10	09/22/21 07:08	
1,2,3-Trichlorobenzene	2.5 U	50	2.5	10	09/22/21 07:08	
1,2,4-Trichlorobenzene	3.4 U	50	3.4	10	09/22/21 07:08	
1,2-Dibromo-3-chloropropane (DBCP)	4.5 U	50	4.5	10	09/22/21 07:08	
1,2-Dibromoethane	2.0 U	50	2.0	10	09/22/21 07:08	
1,2-Dichlorobenzene	2.0 U	50	2.0	10	09/22/21 07:08	
1,2-Dichloroethane	2.0 U	50	2.0	10	09/22/21 07:08	
1,2-Dichloropropane	2.0 U	50	2.0	10	09/22/21 07:08	
1,3-Dichlorobenzene	2.0 U	50	2.0	10	09/22/21 07:08	
1,4-Dichlorobenzene	2.0 U	50	2.0	10	09/22/21 07:08	
1,4-Dioxane	130 U	1000	130	10	09/22/21 07:08	
2-Butanone (MEK)	7.8 U	100	7.8	10	09/22/21 07:08	
2-Hexanone	2.0 U	100	2.0	10	09/22/21 07:08	
4-Methyl-2-pentanone	2.0 U	100	2.0	10	09/22/21 07:08	
Acetone	50 U	100	50	10	09/22/21 07:08	
Benzene	2.0 U	50	2.0	10	09/22/21 07:08	
Bromochloromethane	2.0 U	50	2.0	10	09/22/21 07:08	
Bromodichloromethane	2.0 U	50	2.0	10	09/22/21 07:08	
Bromoform	2.5 U	50	2.5	10	09/22/21 07:08	
Bromomethane	7.0 U	50	7.0	10	09/22/21 07:08	
Carbon Disulfide	4.2 U	100	4.2	10	09/22/21 07:08	
Carbon Tetrachloride	3.4 U	50	3.4	10	09/22/21 07:08	
Chlorobenzene	2.0 U	50	2.0	10	09/22/21 07:08	
Chloroethane	2.3 U	50	2.3	10	09/22/21 07:08	
Chloroform	2.4 U	50	2.4	10	09/22/21 07:08	
Chloromethane	2.8 U	50	2.8	10	09/22/21 07:08	
Cyclohexane	2.6 U	100	2.6	10	09/22/21 07:08	
Dibromochloromethane	2.0 U	50	2.0	10	09/22/21 07:08	
Dichlorodifluoromethane (CFC 12)	2.1 U	50	2.1	10	09/22/21 07:08	
Dichloromethane	6.5 U	50	6.5	10	09/22/21 07:08	
Ethylbenzene	2.0 U	50	2.0	10	09/22/21 07:08	
Isopropylbenzene (Cumene)	2.0 U	50	2.0	10	09/22/21 07:08	
Methyl Acetate	3.3 U	100	3.3	10	09/22/21 07:08	
Methyl tert-Butyl Ether	2.0 U	50	2.0	10	09/22/21 07:08	
Methylcyclohexane	2.0 U	100	2.0	10	09/22/21 07:08	
Styrene	2.0 U	50	2.0	10	09/22/21 07:08	
Tetrachloroethene (PCE)	2.1 U	50	2.1	10	09/22/21 07:08	
Toluene	2.0 U	50	2.0	10	09/22/21 07:08	

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Analytical Report

Client: Inventum Engineering
Project: RITC Tanks
Sample Matrix: Water

Sample Name: TK-LQ-ST24-09102021
Lab Code: R2109410-003

Service Request: R2109410
Date Collected: 09/10/21
Date Received: 09/11/21 09:35

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	2.0 U	50	2.0	10	09/22/21 07:08	
Trichlorofluoromethane (CFC 11)	2.4 U	50	2.4	10	09/22/21 07:08	
Vinyl Chloride	2.0 U	50	2.0	10	09/22/21 07:08	
cis-1,2-Dichloroethene	2.3 U	50	2.3	10	09/22/21 07:08	
cis-1,3-Dichloropropene	2.0 U	50	2.0	10	09/22/21 07:08	
m,p-Xylenes	2.0 U	50	2.0	10	09/22/21 07:08	
o-Xylene	2.0 U	50	2.0	10	09/22/21 07:08	
trans-1,2-Dichloroethene	2.0 U	50	2.0	10	09/22/21 07:08	
trans-1,3-Dichloropropene	2.3 U	50	2.3	10	09/22/21 07:08	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	105	85 - 122	09/22/21 07:08	
Dibromofluoromethane	103	80 - 116	09/22/21 07:08	
Toluene-d8	111	87 - 121	09/22/21 07:08	



Semivolatile Organic Compounds by GC/MS

ALS Environmental—Rochester Laboratory

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Analytical Report

Client: Inventum Engineering
Project: RITC Tanks
Sample Matrix: Water

Sample Name: TK-LQ-ST22-09102021
Lab Code: R2109410-001

Service Request: R2109410
Date Collected: 09/10/21
Date Received: 09/11/21 09:35

Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4,5-Tetrachlorobenzene	1.2 U	9.1	1.2	1	09/17/21 17:03	9/15/21	
2,3,4,6-Tetrachlorophenol	1.2 U	9.1	1.2	1	09/17/21 17:03	9/15/21	
2,4,5-Trichlorophenol	1.1 U	9.1	1.1	1	09/17/21 17:03	9/15/21	
2,4,6-Trichlorophenol	1.4 U	9.1	1.4	1	09/17/21 17:03	9/15/21	
2,4-Dichlorophenol	1.3 U	9.1	1.3	1	09/17/21 17:03	9/15/21	
2,4-Dimethylphenol	1.4 U	9.1	1.4	1	09/17/21 17:03	9/15/21	
2,4-Dinitrophenol	20 U	45	20	1	09/17/21 17:03	9/15/21	
2,4-Dinitrotoluene	2.4 U	9.1	2.4	1	09/17/21 17:03	9/15/21	
2,6-Dinitrotoluene	1.4 U	9.1	1.4	1	09/17/21 17:03	9/15/21	
2-Chloronaphthalene	1.4 U	9.1	1.4	1	09/17/21 17:03	9/15/21	
2-Chlorophenol	1.1 U	9.1	1.1	1	09/17/21 17:03	9/15/21	
2-Methylnaphthalene	11	9.1	1.3	1	09/17/21 17:03	9/15/21	
2-Methylphenol	1.0 U	9.1	1.0	1	09/17/21 17:03	9/15/21	
2-Nitroaniline	1.4 U	9.1	1.4	1	09/17/21 17:03	9/15/21	
2-Nitrophenol	1.5 U	9.1	1.5	1	09/17/21 17:03	9/15/21	
3,3'-Dichlorobenzidine	1.2 U	9.1	1.2	1	09/17/21 17:03	9/15/21	
3- and 4-Methylphenol Coelution	1.3 J	9.1	1.2	1	09/17/21 17:03	9/15/21	
3-Nitroaniline	1.1 U	9.1	1.1	1	09/17/21 17:03	9/15/21	
4,6-Dinitro-2-methylphenol	8.7 U	45	8.7	1	09/17/21 17:03	9/15/21	
4-Bromophenyl Phenyl Ether	1.7 U	9.1	1.7	1	09/17/21 17:03	9/15/21	
4-Chloro-3-methylphenol	1.1 U	9.1	1.1	1	09/17/21 17:03	9/15/21	
4-Chloroaniline	1.0 U	9.1	1.0	1	09/17/21 17:03	9/15/21	
4-Chlorophenyl Phenyl Ether	1.5 U	9.1	1.5	1	09/17/21 17:03	9/15/21	
4-Nitroaniline	1.4 U	9.1	1.4	1	09/17/21 17:03	9/15/21	
4-Nitrophenol	6.4 U	45	6.4	1	09/17/21 17:03	9/15/21	
Acenaphthene	1.8 J	9.1	1.4	1	09/17/21 17:03	9/15/21	
Acenaphthylene	13	9.1	1.4	1	09/17/21 17:03	9/15/21	
Acetophenone	1.3 U	9.1	1.3	1	09/17/21 17:03	9/15/21	
Anthracene	11	9.1	1.3	1	09/17/21 17:03	9/15/21	
Atrazine	2.1 U	9.1	2.1	1	09/17/21 17:03	9/15/21	
Benz(a)anthracene	57	9.1	1.6	1	09/17/21 17:03	9/15/21	
Benzaldehyde	1.0 U	9.1	1.0	1	09/17/21 17:03	9/15/21	
Benzo(a)pyrene	47	9.1	1.2	1	09/17/21 17:03	9/15/21	
Benzo(b)fluoranthene	53	9.1	1.2	1	09/17/21 17:03	9/15/21	
Benzo(g,h,i)perylene	19	9.1	1.0	1	09/17/21 17:03	9/15/21	
Benzo(k)fluoranthene	21	9.1	1.3	1	09/17/21 17:03	9/15/21	
Biphenyl	2.5 J	9.1	1.4	1	09/17/21 17:03	9/15/21	
2,2'-Oxybis(1-chloropropane)	1.4 U	9.1	1.4	1	09/17/21 17:03	9/15/21	
Bis(2-chloroethoxy)methane	1.9 U	9.1	1.9	1	09/17/21 17:03	9/15/21	
Bis(2-chloroethyl) Ether	1.3 U	9.1	1.3	1	09/17/21 17:03	9/15/21	
Bis(2-ethylhexyl) Phthalate	7.8 U	9.1	7.8	1	09/17/21 17:03	9/15/21	
Butyl Benzyl Phthalate	1.4 U	9.1	1.4	1	09/17/21 17:03	9/15/21	
Caprolactam	1.0 U	9.1	1.0	1	09/17/21 17:03	9/15/21	

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Analytical Report

Client: Inventum Engineering
Project: RITC Tanks
Sample Matrix: Water

Sample Name: TK-LQ-ST22-09102021
Lab Code: R2109410-001

Service Request: R2109410
Date Collected: 09/10/21
Date Received: 09/11/21 09:35

Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Carbazole	26	9.1	1.6	1	09/17/21 17:03	9/15/21	
Chrysene	61	9.1	1.2	1	09/17/21 17:03	9/15/21	
Di-n-butyl Phthalate	1.7 U	9.1	1.7	1	09/17/21 17:03	9/15/21	
Di-n-octyl Phthalate	3.3 U	9.1	3.3	1	09/17/21 17:03	9/15/21	
Dibenz(a,h)anthracene	8.6 J	9.1	1.1	1	09/17/21 17:03	9/15/21	
Dibenzofuran	10	9.1	1.4	1	09/17/21 17:03	9/15/21	
Diethyl Phthalate	1.1 U	9.1	1.1	1	09/17/21 17:03	9/15/21	
Dimethyl Phthalate	1.3 U	9.1	1.3	1	09/17/21 17:03	9/15/21	
Fluoranthene	40	9.1	1.5	1	09/17/21 17:03	9/15/21	
Fluorene	19	9.1	1.3	1	09/17/21 17:03	9/15/21	
Hexachlorobenzene	1.6 U	9.1	1.6	1	09/17/21 17:03	9/15/21	
Hexachlorobutadiene	1.0 U	9.1	1.0	1	09/17/21 17:03	9/15/21	
Hexachlorocyclopentadiene	2.2 U	9.1	2.2	1	09/17/21 17:03	9/15/21	
Hexachloroethane	1.1 U	9.1	1.1	1	09/17/21 17:03	9/15/21	
Indeno(1,2,3-cd)pyrene	20	9.1	1.8	1	09/17/21 17:03	9/15/21	
Isophorone	1.4 U	9.1	1.4	1	09/17/21 17:03	9/15/21	
N-Nitrosodi-n-propylamine	1.2 U	9.1	1.2	1	09/17/21 17:03	9/15/21	
N-Nitrosodiphenylamine	2.7 U	9.1	2.7	1	09/17/21 17:03	9/15/21	
Naphthalene	61	9.1	1.2	1	09/17/21 17:03	9/15/21	
Nitrobenzene	1.5 U	9.1	1.5	1	09/17/21 17:03	9/15/21	
Pentachlorophenol (PCP)	9.7 U	45	9.7	1	09/17/21 17:03	9/15/21	
Phenanthrene	53	9.1	1.4	1	09/17/21 17:03	9/15/21	
Phenol	1.4 J	9.1	1.0	1	09/17/21 17:03	9/15/21	
Pyrene	32	9.1	1.5	1	09/17/21 17:03	9/15/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	78	35 - 141	09/17/21 17:03	
2-Fluorobiphenyl	75	31 - 118	09/17/21 17:03	
2-Fluorophenol	41	10 - 105	09/17/21 17:03	
Nitrobenzene-d5	68	31 - 110	09/17/21 17:03	
Phenol-d6	31	10 - 107	09/17/21 17:03	
Terphenyl-d14	79	10 - 165	09/17/21 17:03	

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Analytical Report

Client: Inventum Engineering
Project: RITC Tanks
Sample Matrix: Water

Service Request: R2109410
Date Collected: 09/10/21
Date Received: 09/11/21 09:35

Sample Name: TK-LQ-ST23-09102021
Lab Code: R2109410-002

Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4,5-Tetrachlorobenzene	120 U	910	120	100	09/17/21 17:31	9/15/21	
2,3,4,6-Tetrachlorophenol	120 U	910	120	100	09/17/21 17:31	9/15/21	
2,4,5-Trichlorophenol	110 U	910	110	100	09/17/21 17:31	9/15/21	
2,4,6-Trichlorophenol	140 U	910	140	100	09/17/21 17:31	9/15/21	
2,4-Dichlorophenol	130 U	910	130	100	09/17/21 17:31	9/15/21	
2,4-Dimethylphenol	2300	910	140	100	09/17/21 17:31	9/15/21	
2,4-Dinitrophenol	2000 U	4500	2000	100	09/17/21 17:31	9/15/21	
2,4-Dinitrotoluene	240 U	910	240	100	09/17/21 17:31	9/15/21	
2,6-Dinitrotoluene	140 U	910	140	100	09/17/21 17:31	9/15/21	
2-Chloronaphthalene	140 U	910	140	100	09/17/21 17:31	9/15/21	
2-Chlorophenol	110 U	910	110	100	09/17/21 17:31	9/15/21	
2-Methylnaphthalene	810 J	910	130	100	09/17/21 17:31	9/15/21	
2-Methylphenol	9900	910	100	100	09/17/21 17:31	9/15/21	
2-Nitroaniline	140 U	910	140	100	09/17/21 17:31	9/15/21	
2-Nitrophenol	150 U	910	150	100	09/17/21 17:31	9/15/21	
3,3'-Dichlorobenzidine	120 U	910	120	100	09/17/21 17:31	9/15/21	
3- and 4-Methylphenol Coelution	28000	910	120	100	09/17/21 17:31	9/15/21	
3-Nitroaniline	110 U	910	110	100	09/17/21 17:31	9/15/21	
4,6-Dinitro-2-methylphenol	870 U	4500	870	100	09/17/21 17:31	9/15/21	
4-Bromophenyl Phenyl Ether	170 U	910	170	100	09/17/21 17:31	9/15/21	
4-Chloro-3-methylphenol	110 U	910	110	100	09/17/21 17:31	9/15/21	
4-Chloroaniline	100 U	910	100	100	09/17/21 17:31	9/15/21	
4-Chlorophenyl Phenyl Ether	150 U	910	150	100	09/17/21 17:31	9/15/21	
4-Nitroaniline	140 U	910	140	100	09/17/21 17:31	9/15/21	
4-Nitrophenol	640 U	4500	640	100	09/17/21 17:31	9/15/21	
Acenaphthene	140 U	910	140	100	09/17/21 17:31	9/15/21	
Acenaphthylene	910 J	910	140	100	09/17/21 17:31	9/15/21	
Acetophenone	130 U	910	130	100	09/17/21 17:31	9/15/21	
Anthracene	490 J	910	130	100	09/17/21 17:31	9/15/21	
Atrazine	210 U	910	210	100	09/17/21 17:31	9/15/21	
Benz(a)anthracene	500 J	910	160	100	09/17/21 17:31	9/15/21	
Benzaldehyde	100 U	910	100	100	09/17/21 17:31	9/15/21	
Benzo(a)pyrene	540 J	910	120	100	09/17/21 17:31	9/15/21	
Benzo(b)fluoranthene	550 J	910	120	100	09/17/21 17:31	9/15/21	
Benzo(g,h,i)perylene	330 J	910	100	100	09/17/21 17:31	9/15/21	
Benzo(k)fluoranthene	230 J	910	130	100	09/17/21 17:31	9/15/21	
Biphenyl	140 U	910	140	100	09/17/21 17:31	9/15/21	
2,2'-Oxybis(1-chloropropane)	140 U	910	140	100	09/17/21 17:31	9/15/21	
Bis(2-chloroethoxy)methane	190 U	910	190	100	09/17/21 17:31	9/15/21	
Bis(2-chloroethyl) Ether	130 U	910	130	100	09/17/21 17:31	9/15/21	
Bis(2-ethylhexyl) Phthalate	780 U	910	780	100	09/17/21 17:31	9/15/21	
Butyl Benzyl Phthalate	140 U	910	140	100	09/17/21 17:31	9/15/21	
Caprolactam	100 U	910	100	100	09/17/21 17:31	9/15/21	

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Analytical Report

Client: Inventum Engineering
Project: RITC Tanks
Sample Matrix: Water

Service Request: R2109410
Date Collected: 09/10/21
Date Received: 09/11/21 09:35

Sample Name: TK-LQ-ST23-09102021
Lab Code: R2109410-002

Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Carbazole	830 J	910	160	100	09/17/21 17:31	9/15/21	
Chrysene	670 J	910	120	100	09/17/21 17:31	9/15/21	
Di-n-butyl Phthalate	170 U	910	170	100	09/17/21 17:31	9/15/21	
Di-n-octyl Phthalate	330 U	910	330	100	09/17/21 17:31	9/15/21	
Dibenz(a,h)anthracene	110 U	910	110	100	09/17/21 17:31	9/15/21	
Dibenzofuran	460 J	910	140	100	09/17/21 17:31	9/15/21	
Diethyl Phthalate	110 U	910	110	100	09/17/21 17:31	9/15/21	
Dimethyl Phthalate	130 U	910	130	100	09/17/21 17:31	9/15/21	
Fluoranthene	1400	910	150	100	09/17/21 17:31	9/15/21	
Fluorene	740 J	910	130	100	09/17/21 17:31	9/15/21	
Hexachlorobenzene	160 U	910	160	100	09/17/21 17:31	9/15/21	
Hexachlorobutadiene	100 U	910	100	100	09/17/21 17:31	9/15/21	
Hexachlorocyclopentadiene	220 U	910	220	100	09/17/21 17:31	9/15/21	
Hexachloroethane	110 U	910	110	100	09/17/21 17:31	9/15/21	
Indeno(1,2,3-cd)pyrene	300 J	910	180	100	09/17/21 17:31	9/15/21	
Isophorone	140 U	910	140	100	09/17/21 17:31	9/15/21	
N-Nitrosodi-n-propylamine	120 U	910	120	100	09/17/21 17:31	9/15/21	
N-Nitrosodiphenylamine	270 U	910	270	100	09/17/21 17:31	9/15/21	
Naphthalene	3800	910	120	100	09/17/21 17:31	9/15/21	
Nitrobenzene	150 U	910	150	100	09/17/21 17:31	9/15/21	
Pentachlorophenol (PCP)	970 U	4500	970	100	09/17/21 17:31	9/15/21	
Phenanthrene	2300	910	140	100	09/17/21 17:31	9/15/21	
Phenol	26000	910	100	100	09/17/21 17:31	9/15/21	
Pyrene	1100	910	150	100	09/17/21 17:31	9/15/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	0 *	35 - 141	09/17/21 17:31	D
2-Fluorobiphenyl	0 *	31 - 118	09/17/21 17:31	D
2-Fluorophenol	0 *	10 - 105	09/17/21 17:31	D
Nitrobenzene-d5	0 *	31 - 110	09/17/21 17:31	D
Phenol-d6	0 *	10 - 107	09/17/21 17:31	D
Terphenyl-d14	0 *	10 - 165	09/17/21 17:31	D

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Analytical Report

Client: Inventum Engineering
Project: RITC Tanks
Sample Matrix: Water

Service Request: R2109410
Date Collected: 09/10/21
Date Received: 09/11/21 09:35

Sample Name: TK-LQ-ST24-09102021
Lab Code: R2109410-003

Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4,5-Tetrachlorobenzene	1.2 U	9.1	1.2	1	09/17/21 17:59	9/15/21	
2,3,4,6-Tetrachlorophenol	1.2 U	9.1	1.2	1	09/17/21 17:59	9/15/21	
2,4,5-Trichlorophenol	1.1 U	9.1	1.1	1	09/17/21 17:59	9/15/21	
2,4,6-Trichlorophenol	1.4 U	9.1	1.4	1	09/17/21 17:59	9/15/21	
2,4-Dichlorophenol	1.3 U	9.1	1.3	1	09/17/21 17:59	9/15/21	
2,4-Dimethylphenol	1.4 U	9.1	1.4	1	09/17/21 17:59	9/15/21	
2,4-Dinitrophenol	20 U	45	20	1	09/17/21 17:59	9/15/21	
2,4-Dinitrotoluene	2.4 U	9.1	2.4	1	09/17/21 17:59	9/15/21	
2,6-Dinitrotoluene	1.4 U	9.1	1.4	1	09/17/21 17:59	9/15/21	
2-Chloronaphthalene	1.4 U	9.1	1.4	1	09/17/21 17:59	9/15/21	
2-Chlorophenol	1.1 U	9.1	1.1	1	09/17/21 17:59	9/15/21	
2-Methylnaphthalene	1.3 U	9.1	1.3	1	09/17/21 17:59	9/15/21	
2-Methylphenol	1.0 U	9.1	1.0	1	09/17/21 17:59	9/15/21	
2-Nitroaniline	1.4 U	9.1	1.4	1	09/17/21 17:59	9/15/21	
2-Nitrophenol	1.5 U	9.1	1.5	1	09/17/21 17:59	9/15/21	
3,3'-Dichlorobenzidine	1.2 U	9.1	1.2	1	09/17/21 17:59	9/15/21	
3- and 4-Methylphenol Coelution	1.2 U	9.1	1.2	1	09/17/21 17:59	9/15/21	
3-Nitroaniline	1.1 U	9.1	1.1	1	09/17/21 17:59	9/15/21	
4,6-Dinitro-2-methylphenol	8.7 U	45	8.7	1	09/17/21 17:59	9/15/21	
4-Bromophenyl Phenyl Ether	1.7 U	9.1	1.7	1	09/17/21 17:59	9/15/21	
4-Chloro-3-methylphenol	1.1 U	9.1	1.1	1	09/17/21 17:59	9/15/21	
4-Chloroaniline	1.0 U	9.1	1.0	1	09/17/21 17:59	9/15/21	
4-Chlorophenyl Phenyl Ether	1.5 U	9.1	1.5	1	09/17/21 17:59	9/15/21	
4-Nitroaniline	1.4 U	9.1	1.4	1	09/17/21 17:59	9/15/21	
4-Nitrophenol	6.4 U	45	6.4	1	09/17/21 17:59	9/15/21	
Acenaphthene	1.4 U	9.1	1.4	1	09/17/21 17:59	9/15/21	
Acenaphthylene	1.4 U	9.1	1.4	1	09/17/21 17:59	9/15/21	
Acetophenone	1.3 U	9.1	1.3	1	09/17/21 17:59	9/15/21	
Anthracene	1.3 U	9.1	1.3	1	09/17/21 17:59	9/15/21	
Atrazine	2.1 U	9.1	2.1	1	09/17/21 17:59	9/15/21	
Benz(a)anthracene	1.6 U	9.1	1.6	1	09/17/21 17:59	9/15/21	
Benzaldehyde	1.0 U	9.1	1.0	1	09/17/21 17:59	9/15/21	
Benzo(a)pyrene	1.2 U	9.1	1.2	1	09/17/21 17:59	9/15/21	
Benzo(b)fluoranthene	1.2 U	9.1	1.2	1	09/17/21 17:59	9/15/21	
Benzo(g,h,i)perylene	1.0 U	9.1	1.0	1	09/17/21 17:59	9/15/21	
Benzo(k)fluoranthene	1.3 U	9.1	1.3	1	09/17/21 17:59	9/15/21	
Biphenyl	1.4 U	9.1	1.4	1	09/17/21 17:59	9/15/21	
2,2'-Oxybis(1-chloropropane)	1.4 U	9.1	1.4	1	09/17/21 17:59	9/15/21	
Bis(2-chloroethoxy)methane	1.9 U	9.1	1.9	1	09/17/21 17:59	9/15/21	
Bis(2-chloroethyl) Ether	1.3 U	9.1	1.3	1	09/17/21 17:59	9/15/21	
Bis(2-ethylhexyl) Phthalate	7.8 U	9.1	7.8	1	09/17/21 17:59	9/15/21	
Butyl Benzyl Phthalate	1.4 U	9.1	1.4	1	09/17/21 17:59	9/15/21	
Caprolactam	1.0 U	9.1	1.0	1	09/17/21 17:59	9/15/21	

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Analytical Report

Client: Inventum Engineering
Project: RITC Tanks
Sample Matrix: Water

Service Request: R2109410
Date Collected: 09/10/21
Date Received: 09/11/21 09:35

Sample Name: TK-LQ-ST24-09102021
Lab Code: R2109410-003

Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Carbazole	1.6 U	9.1	1.6	1	09/17/21 17:59	9/15/21	
Chrysene	1.2 U	9.1	1.2	1	09/17/21 17:59	9/15/21	
Di-n-butyl Phthalate	1.7 U	9.1	1.7	1	09/17/21 17:59	9/15/21	
Di-n-octyl Phthalate	3.3 U	9.1	3.3	1	09/17/21 17:59	9/15/21	
Dibenz(a,h)anthracene	1.1 U	9.1	1.1	1	09/17/21 17:59	9/15/21	
Dibenzofuran	1.4 U	9.1	1.4	1	09/17/21 17:59	9/15/21	
Diethyl Phthalate	1.1 U	9.1	1.1	1	09/17/21 17:59	9/15/21	
Dimethyl Phthalate	1.3 U	9.1	1.3	1	09/17/21 17:59	9/15/21	
Fluoranthene	1.5 U	9.1	1.5	1	09/17/21 17:59	9/15/21	
Fluorene	1.3 U	9.1	1.3	1	09/17/21 17:59	9/15/21	
Hexachlorobenzene	1.6 U	9.1	1.6	1	09/17/21 17:59	9/15/21	
Hexachlorobutadiene	1.0 U	9.1	1.0	1	09/17/21 17:59	9/15/21	
Hexachlorocyclopentadiene	2.2 U	9.1	2.2	1	09/17/21 17:59	9/15/21	
Hexachloroethane	1.1 U	9.1	1.1	1	09/17/21 17:59	9/15/21	
Indeno(1,2,3-cd)pyrene	1.8 U	9.1	1.8	1	09/17/21 17:59	9/15/21	
Isophorone	1.4 U	9.1	1.4	1	09/17/21 17:59	9/15/21	
N-Nitrosodi-n-propylamine	1.2 U	9.1	1.2	1	09/17/21 17:59	9/15/21	
N-Nitrosodiphenylamine	2.7 U	9.1	2.7	1	09/17/21 17:59	9/15/21	
Naphthalene	1.2 U	9.1	1.2	1	09/17/21 17:59	9/15/21	
Nitrobenzene	1.5 U	9.1	1.5	1	09/17/21 17:59	9/15/21	
Pentachlorophenol (PCP)	9.7 U	45	9.7	1	09/17/21 17:59	9/15/21	
Phenanthrene	1.4 U	9.1	1.4	1	09/17/21 17:59	9/15/21	
Phenol	1.0 U	9.1	1.0	1	09/17/21 17:59	9/15/21	
Pyrene	1.5 U	9.1	1.5	1	09/17/21 17:59	9/15/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	75	35 - 141	09/17/21 17:59	
2-Fluorobiphenyl	75	31 - 118	09/17/21 17:59	
2-Fluorophenol	41	10 - 105	09/17/21 17:59	
Nitrobenzene-d5	68	31 - 110	09/17/21 17:59	
Phenol-d6	32	10 - 107	09/17/21 17:59	
Terphenyl-d14	81	10 - 165	09/17/21 17:59	



Semivolatile Organic Compounds by GC

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Analytical Report

Client: Inventum Engineering
Project: RITC Tanks
Sample Matrix: Water

Service Request: R2109410
Date Collected: 09/10/21
Date Received: 09/11/21 09:35

Sample Name: TK-LQ-ST22-09102021
Lab Code: R2109410-001

Units: ug/L
Basis: NA

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	0.020 U	0.045	0.020	1	09/20/21 15:44	9/16/21	
4,4'-DDE	0.020 U	0.045	0.020	1	09/20/21 15:44	9/16/21	
4,4'-DDT	0.020 U	0.045	0.020	1	09/20/21 15:44	9/16/21	
Aldrin	0.020 U	0.045	0.020	1	09/20/21 15:44	9/16/21	
Dieldrin	0.020 U	0.045	0.020	1	09/20/21 15:44	9/16/21	
Endosulfan I	0.020 U	0.045	0.020	1	09/20/21 15:44	9/16/21	
Endosulfan II	0.020 U	0.045	0.020	1	09/20/21 15:44	9/16/21	
Endosulfan Sulfate	0.020 U	0.045	0.020	1	09/20/21 15:44	9/16/21	
Endrin	0.020 U	0.045	0.020	1	09/20/21 15:44	9/16/21	
Endrin Aldehyde	0.020 U	0.045	0.020	1	09/20/21 15:44	9/16/21	
Endrin Ketone	0.020 U	0.045	0.020	1	09/20/21 15:44	9/16/21	
Heptachlor	0.020 U	0.045	0.020	1	09/20/21 15:44	9/16/21	
Heptachlor Epoxide	0.020 U	0.045	0.020	1	09/20/21 15:44	9/16/21	
Methoxychlor	0.020 U	0.045	0.020	1	09/20/21 15:44	9/16/21	
Toxaphene	0.50 U	0.50	0.50	1	09/20/21 15:44	9/16/21	
alpha-BHC	0.020 U	0.045	0.020	1	09/20/21 15:44	9/16/21	
alpha-Chlordane	0.020 U	0.045	0.020	1	09/20/21 15:44	9/16/21	
beta-BHC	0.020 U	0.045	0.020	1	09/20/21 15:44	9/16/21	
delta-BHC	0.020 U	0.045	0.020	1	09/20/21 15:44	9/16/21	
gamma-BHC (Lindane)	0.020 U	0.045	0.020	1	09/20/21 15:44	9/16/21	
gamma-Chlordane	0.020 U	0.045	0.020	1	09/20/21 15:44	9/16/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	69	10 - 164	09/20/21 15:44	
Tetrachloro-m-xylene	51	10 - 147	09/20/21 15:44	

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Analytical Report

Client: Inventum Engineering
Project: RITC Tanks
Sample Matrix: Water

Service Request: R2109410
Date Collected: 09/10/21
Date Received: 09/11/21 09:35

Sample Name: TK-LQ-ST23-09102021
Lab Code: R2109410-002

Units: ug/L
Basis: NA

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	0.20 U	0.45	0.20	10	09/20/21 16:03	9/16/21	
4,4'-DDE	0.20 U	0.45	0.20	10	09/20/21 16:03	9/16/21	
4,4'-DDT	0.20 U	0.45	0.20	10	09/20/21 16:03	9/16/21	
Aldrin	0.20 U	0.45	0.20	10	09/20/21 16:03	9/16/21	
Dieldrin	0.20 U	0.45	0.20	10	09/20/21 16:03	9/16/21	
Endosulfan I	0.20 U	0.45	0.20	10	09/20/21 16:03	9/16/21	
Endosulfan II	0.20 U	0.45	0.20	10	09/20/21 16:03	9/16/21	
Endosulfan Sulfate	0.20 U	0.45	0.20	10	09/20/21 16:03	9/16/21	
Endrin	0.20 U	0.45	0.20	10	09/20/21 16:03	9/16/21	
Endrin Aldehyde	0.20 U	0.45	0.20	10	09/20/21 16:03	9/16/21	
Endrin Ketone	0.20 U	0.45	0.20	10	09/20/21 16:03	9/16/21	
Heptachlor	0.20 U	0.45	0.20	10	09/20/21 16:03	9/16/21	
Heptachlor Epoxide	0.20 U	0.45	0.20	10	09/20/21 16:03	9/16/21	
Methoxychlor	0.20 U	0.45	0.20	10	09/20/21 16:03	9/16/21	
Toxaphene	5.0 U	5.0	5.0	10	09/20/21 16:03	9/16/21	
alpha-BHC	0.20 U	0.45	0.20	10	09/20/21 16:03	9/16/21	
alpha-Chlordane	0.20 U	0.45	0.20	10	09/20/21 16:03	9/16/21	
beta-BHC	0.20 U	0.45	0.20	10	09/20/21 16:03	9/16/21	
delta-BHC	0.20 U	0.45	0.20	10	09/20/21 16:03	9/16/21	
gamma-BHC (Lindane)	0.20 U	0.45	0.20	10	09/20/21 16:03	9/16/21	
gamma-Chlordane	0.20 U	0.45	0.20	10	09/20/21 16:03	9/16/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	88	10 - 164	09/20/21 16:03	
Tetrachloro-m-xylene	220 *	10 - 147	09/20/21 16:03	*

ALS Group USA, Corp.
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Analytical Report

Client: Inventum Engineering
Project: RITC Tanks
Sample Matrix: Water

Service Request: R2109410
Date Collected: 09/10/21
Date Received: 09/11/21 09:35

Sample Name: TK-LQ-ST24-09102021
Lab Code: R2109410-003

Units: ug/L
Basis: NA

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	0.020 U	0.045	0.020	1	09/20/21 16:23	9/16/21	
4,4'-DDE	0.020 U	0.045	0.020	1	09/20/21 16:23	9/16/21	
4,4'-DDT	0.020 U	0.045	0.020	1	09/20/21 16:23	9/16/21	
Aldrin	0.020 U	0.045	0.020	1	09/20/21 16:23	9/16/21	
Dieldrin	0.020 U	0.045	0.020	1	09/20/21 16:23	9/16/21	
Endosulfan I	0.020 U	0.045	0.020	1	09/20/21 16:23	9/16/21	
Endosulfan II	0.020 U	0.045	0.020	1	09/20/21 16:23	9/16/21	
Endosulfan Sulfate	0.020 U	0.045	0.020	1	09/20/21 16:23	9/16/21	
Endrin	0.020 U	0.045	0.020	1	09/20/21 16:23	9/16/21	
Endrin Aldehyde	0.020 U	0.045	0.020	1	09/20/21 16:23	9/16/21	
Endrin Ketone	0.020 U	0.045	0.020	1	09/20/21 16:23	9/16/21	
Heptachlor	0.020 U	0.045	0.020	1	09/20/21 16:23	9/16/21	
Heptachlor Epoxide	0.020 U	0.045	0.020	1	09/20/21 16:23	9/16/21	
Methoxychlor	0.020 U	0.045	0.020	1	09/20/21 16:23	9/16/21	
Toxaphene	0.50 U	0.50	0.50	1	09/20/21 16:23	9/16/21	
alpha-BHC	0.020 U	0.045	0.020	1	09/20/21 16:23	9/16/21	
alpha-Chlordane	0.020 U	0.045	0.020	1	09/20/21 16:23	9/16/21	
beta-BHC	0.020 U	0.045	0.020	1	09/20/21 16:23	9/16/21	
delta-BHC	0.020 U	0.045	0.020	1	09/20/21 16:23	9/16/21	
gamma-BHC (Lindane)	0.020 U	0.045	0.020	1	09/20/21 16:23	9/16/21	
gamma-Chlordane	0.020 U	0.045	0.020	1	09/20/21 16:23	9/16/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	24	10 - 164	09/20/21 16:23	
Tetrachloro-m-xylene	34	10 - 147	09/20/21 16:23	

ALS Group USA, Corp.
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Analytical Report

Client: Inventum Engineering
Project: RITC Tanks
Sample Matrix: Water

Sample Name: TK-LQ-ST22-09102021
Lab Code: R2109410-001

Service Request: R2109410
Date Collected: 09/10/21
Date Received: 09/11/21 09:35

Units: ug/L
Basis: NA

Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	0.50 U	0.91	0.50	1	09/20/21 23:17	9/16/21	
Aroclor 1221	1.0 U	1.8	1.0	1	09/20/21 23:17	9/16/21	
Aroclor 1232	0.50 U	0.91	0.50	1	09/20/21 23:17	9/16/21	
Aroclor 1242	0.50 U	0.91	0.50	1	09/20/21 23:17	9/16/21	
Aroclor 1248	0.50 U	0.91	0.50	1	09/20/21 23:17	9/16/21	
Aroclor 1254	0.50 U	0.91	0.50	1	09/20/21 23:17	9/16/21	
Aroclor 1260	0.50 U	0.91	0.50	1	09/20/21 23:17	9/16/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	30	10 - 152	09/20/21 23:17	
Tetrachloro-m-xylene	50	14 - 129	09/20/21 23:17	

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Analytical Report

Client: Inventum Engineering
Project: RITC Tanks
Sample Matrix: Water

Service Request: R2109410
Date Collected: 09/10/21
Date Received: 09/11/21 09:35

Sample Name: TK-LQ-ST23-09102021
Lab Code: R2109410-002

Units: ug/L
Basis: NA

Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	0.50 U	0.91	0.50	1	09/20/21 23:37	9/16/21	
Aroclor 1221	1.0 U	1.8	1.0	1	09/20/21 23:37	9/16/21	
Aroclor 1232	0.50 U	0.91	0.50	1	09/20/21 23:37	9/16/21	
Aroclor 1242	0.50 U	0.91	0.50	1	09/20/21 23:37	9/16/21	
Aroclor 1248	0.50 U	0.91	0.50	1	09/20/21 23:37	9/16/21	
Aroclor 1254	0.50 U	0.91	0.50	1	09/20/21 23:37	9/16/21	
Aroclor 1260	0.50 U	0.91	0.50	1	09/20/21 23:37	9/16/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	12	10 - 152	09/20/21 23:37	
Tetrachloro-m-xylene	25	14 - 129	09/20/21 23:37	

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Analytical Report

Client: Inventum Engineering
Project: RITC Tanks
Sample Matrix: Water

Service Request: R2109410
Date Collected: 09/10/21
Date Received: 09/11/21 09:35

Sample Name: TK-LQ-ST24-09102021
Lab Code: R2109410-003

Units: ug/L
Basis: NA

Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	0.50 U	0.91	0.50	1	09/20/21 23:56	9/16/21	
Aroclor 1221	1.0 U	1.8	1.0	1	09/20/21 23:56	9/16/21	
Aroclor 1232	0.50 U	0.91	0.50	1	09/20/21 23:56	9/16/21	
Aroclor 1242	0.50 U	0.91	0.50	1	09/20/21 23:56	9/16/21	
Aroclor 1248	0.50 U	0.91	0.50	1	09/20/21 23:56	9/16/21	
Aroclor 1254	0.50 U	0.91	0.50	1	09/20/21 23:56	9/16/21	
Aroclor 1260	0.50 U	0.91	0.50	1	09/20/21 23:56	9/16/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	12	10 - 152	09/20/21 23:56	
Tetrachloro-m-xylene	38	14 - 129	09/20/21 23:56	

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Analytical Report

Client: Inventum Engineering
Project: RITC Tanks
Sample Matrix: Water

Sample Name: TK-LQ-ST22-09102021
Lab Code: R2109410-001

Service Request: R2109410
Date Collected: 09/10/21
Date Received: 09/11/21 09:35

Units: ug/L
Basis: NA

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-T	0.14 U	0.45	0.14	1	09/17/21 09:26	9/15/21	
2,4,5-TP	0.12 U	0.45	0.12	1	09/17/21 09:26	9/15/21	
2,4-D	0.35 U	0.45	0.35	1	09/17/21 09:26	9/15/21	
Dicamba	0.12 U	0.45	0.12	1	09/17/21 09:26	9/15/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4-Dichlorophenylacetic Acid	75	10 - 136	09/17/21 09:26	

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Analytical Report

Client: Inventum Engineering
Project: RITC Tanks
Sample Matrix: Water

Sample Name: TK-LQ-ST23-09102021
Lab Code: R2109410-002

Service Request: R2109410
Date Collected: 09/10/21
Date Received: 09/11/21 09:35

Units: ug/L
Basis: NA

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-T	14 U	45	14	100	09/17/21 13:23	9/15/21	
2,4,5-TP	12 U	45	12	100	09/17/21 13:23	9/15/21	
2,4-D	310 P	45	35	100	09/17/21 13:23	9/15/21	
Dicamba	12 U	45	12	100	09/17/21 13:23	9/15/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4-Dichlorophenylacetic Acid	0 *	10 - 136	09/17/21 13:23	D

ALS Group USA, Corp.
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Analytical Report

Client: Inventum Engineering
Project: RITC Tanks
Sample Matrix: Water

Sample Name: TK-LQ-ST24-09102021
Lab Code: R2109410-003

Service Request: R2109410
Date Collected: 09/10/21
Date Received: 09/11/21 09:35

Units: ug/L
Basis: NA

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-T	0.14 U	0.45	0.14	1	09/17/21 10:06	9/15/21	
2,4,5-TP	0.12 U	0.45	0.12	1	09/17/21 10:06	9/15/21	
2,4-D	0.35 U	0.45	0.35	1	09/17/21 10:06	9/15/21	
Dicamba	0.12 U	0.45	0.12	1	09/17/21 10:06	9/15/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4-Dichlorophenylacetic Acid	57	10 - 136	09/17/21 10:06	



Metals

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- 1 -
INORGANIC ANALYSIS DATA PACKAGE

Client: Inventum Engineering	Service Request: TK-LQ-ST22-09102021
Project No.: R2109410	Date Collected: 9/10/2021
Project Name:	Date Received: 9/11/2021
Matrix: WATER	Units: ug/L
	Basis:

Sample Name: TK-LQ-ST22-09102021	Lab Code: R2109410-001
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Analyte	Analysis Method	PQL	MDL	Dil. Factor	Result	C	Q
Aluminum	6010C	100	23.0	1.0	51.6	J	
Antimony	6010C	60.0	6.3	1.0	60.0	U	
Arsenic	6010C	10.0	5.5	1.0	10.0	U	
Barium	6010C	20.0	3.0	1.0	9.3	J	
Beryllium	6010C	3.0	0.130	1.0	3.0	U	
Boron	6010C	200	12.0	1.0	119	J	
Cadmium	6010C	5.0	0.350	1.0	5.0	U	
Mercury	7470A	0.200	0.077	1.0	0.861		
Calcium	6010C	1000	220	1.0	21000		
Chromium	6010C	10.0	1.4	1.0	10.0	U	
Cobalt	6010C	50.0	0.890	1.0	50.0	U	
Copper	6010C	20.0	3.9	1.0	7.1	J	
Iron	6010C	100	61.0	1.0	2330		
Uranium	6020A	5.0	0.17	5.0	5.0	U	
Lead	6010C	50.0	2.1	1.0	4.2	J	
Magnesium	6010C	1000	29.0	1.0	9990		
Manganese	6010C	10.0	3.7	1.0	185		
Molybdenum	6010C	25.0	2.9	1.0	25.0	U	
Nickel	6010C	40.0	2.6	1.0	40.0	U	
Potassium	6010C	2000	380	1.0	1500	J	
Selenium	6010C	10.0	6.4	1.0	10.0	U	
Silver	6010C	10.0	0.570	1.0	10.0	U	
Sodium	6010C	10000	1300	10.0	239000		
Thallium	6010C	10.0	6.6	1.0	10.0	U	
Tin	6010C	500	8.0	1.0	500	U	
Vanadium	6010C	50.0	0.670	1.0	50.0	U	
Zinc	6010C	20.0	2.4	1.0	12.3	J	

% Solids: 0.0

Comments:

METALS
- 1 -
INORGANIC ANALYSIS DATA PACKAGE

Client: Inventum Engineering	Service Request: TK-LQ-ST22-09102021
Project No.: R2109410	Date Collected: 9/10/2021
Project Name:	Date Received: 9/11/2021
Matrix: WATER	Units: ug/L
	Basis:

Sample Name: TK-LQ-ST23-09102021	Lab Code: R2109410-002
----------------------------------	------------------------

Analyte	Analysis Method	PQL	MDL	Dil. Factor	Result	C	Q
Aluminum	6010C	100	23.0	1.0	2480		
Antimony	6010C	60.0	6.3	1.0	60.0	U	
Arsenic	6010C	10.0	5.5	1.0	17.3		
Barium	6010C	20.0	3.0	1.0	39.6		
Beryllium	6010C	3.0	0.130	1.0	0.200	J	
Boron	6010C	200	12.0	1.0	404		
Cadmium	6010C	5.0	0.350	1.0	1.8	J	
Mercury	7470A	0.200	0.077	1.0	0.241		
Calcium	6010C	1000	220	1.0	29000		
Chromium	6010C	10.0	1.4	1.0	40.3		
Cobalt	6010C	50.0	0.890	1.0	9.4	J	
Copper	6010C	20.0	3.9	1.0	34.3		
Iron	6010C	100	61.0	1.0	29400		
Uranium	6020A	5.0	0.17	5.0	5.0	U	
Lead	6010C	50.0	2.1	1.0	111		
Magnesium	6010C	1000	29.0	1.0	3900		
Manganese	6010C	10.0	3.7	1.0	1160		
Molybdenum	6010C	25.0	2.9	1.0	25.0	U	
Nickel	6010C	40.0	2.6	1.0	10.0	J	
Potassium	6010C	2000	380	1.0	2800		
Selenium	6010C	10.0	6.4	1.0	45.3		
Silver	6010C	10.0	0.570	1.0	10.0	U	
Sodium	6010C	1000	130	1.0	104000		
Thallium	6010C	10.0	6.6	1.0	10.0	U	
Tin	6010C	500	8.0	1.0	500	U	
Vanadium	6010C	50.0	0.670	1.0	7.3	J	
Zinc	6010C	20.0	2.4	1.0	147		

% Solids: 0.0

Comments:

METALS
- 1 -
INORGANIC ANALYSIS DATA PACKAGE

Client: Inventum Engineering	Service Request: TK-LQ-ST22-09102021
Project No.: R2109410	Date Collected: 9/10/2021
Project Name:	Date Received: 9/11/2021
Matrix: WATER	Units: ug/L
	Basis:

Sample Name: TK-LQ-ST24-09102021	Lab Code: R2109410-003
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Analyte	Analysis Method	PQL	MDL	Dil. Factor	Result	C	Q
Aluminum	6010C	100	23.0	1.0	5620		
Antimony	6010C	60.0	6.3	1.0	60.0	U	
Arsenic	6010C	10.0	5.5	1.0	10.0	U	
Barium	6010C	20.0	3.0	1.0	66.7		
Beryllium	6010C	3.0	0.130	1.0	0.200	J	
Boron	6010C	200	12.0	1.0	59.6	J	
Cadmium	6010C	5.0	0.350	1.0	5.0	U	
Mercury	7470A	0.200	0.077	1.0	0.313		
Calcium	6010C	1000	220	1.0	45100		
Chromium	6010C	10.0	1.4	1.0	12.0		
Cobalt	6010C	50.0	0.890	1.0	50.0	U	
Copper	6010C	20.0	3.9	1.0	22.8		
Iron	6010C	1000	610	10.0	61300		
Uranium	6020A	5.0	0.17	5.0	0.17	J	
Lead	6010C	50.0	2.1	1.0	261		
Magnesium	6010C	1000	29.0	1.0	10600		
Manganese	6010C	10.0	3.7	1.0	288		
Molybdenum	6010C	25.0	2.9	1.0	25.0	U	
Nickel	6010C	40.0	2.6	1.0	2.7	J	
Potassium	6010C	2000	380	1.0	5650		
Selenium	6010C	10.0	6.4	1.0	10.0	U	
Silver	6010C	10.0	0.570	1.0	10.0	U	
Sodium	6010C	1000	130	1.0	2830		
Thallium	6010C	10.0	6.6	1.0	10.0	U	
Tin	6010C	500	8.0	1.0	500	U	
Vanadium	6010C	50.0	0.670	1.0	10.5	J	
Zinc	6010C	20.0	2.4	1.0	26.1		

% Solids: 0.0

Comments:



General Chemistry

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Analytical Report

Client: Inventum Engineering
Project: RITC Tanks
Sample Matrix: Water

Service Request: R2109410
Date Collected: 09/10/21
Date Received: 09/11/21 09:35

Sample Name: TK-LQ-ST22-09102021
Lab Code: R2109410-001

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Ammonia as Nitrogen, undistilled	350.1	0.026 U	mg/L	0.050	0.026	1	09/25/21 15:52	
Cyanide, Total	Kelada-01	0.40 U	mg/L	0.50	0.40	100	09/22/21 14:05	
Fluoride, undistilled	300.0	2.65	mg/L	0.10	0.010	1	09/13/21 08:46	
Nitrate+Nitrite as Nitrogen	353.2	0.2 U	mg/L	5.0	0.2	100	09/29/21 21:20	
Nitrite as Nitrogen	353.2	0.007 U	mg/L	0.010	0.007	1	09/15/21 19:39	
pH	9040C	7.63	pH Units	-	-	1	09/24/21 08:20	

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Analytical Report

Client: Inventum Engineering
Project: RITC Tanks
Sample Matrix: Water

Service Request: R2109410
Date Collected: 09/10/21
Date Received: 09/11/21 09:35

Sample Name: TK-LQ-ST23-09102021
Lab Code: R2109410-002

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Ammonia as Nitrogen, undistilled	350.1	765000	mg/L	50	26	1000	09/30/21 13:53	
Cyanide, Total	Kelada-01	164	mg/L	5.0	4.0	1000	09/22/21 15:49	
Fluoride, undistilled	300.0	18	mg/L	10	1.0	100	09/13/21 09:21	
Nitrate+Nitrite as Nitrogen	353.2	2 U	mg/L	50	2	1000	09/29/21 21:21	
Nitrite as Nitrogen	353.2	0.7 U	mg/L	1.0	0.7	100	09/15/21 19:40	
pH	9040C	7.51	pH Units	-	-	1	09/24/21 08:20	

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Analytical Report

Client: Inventum Engineering
Project: RITC Tanks
Sample Matrix: Water

Service Request: R2109410
Date Collected: 09/10/21
Date Received: 09/11/21 09:35

Sample Name: TK-LQ-ST24-09102021
Lab Code: R2109410-003

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Ammonia as Nitrogen, undistilled	350.1	0.086	mg/L	0.050	0.026	1	09/30/21 14:25	
Cyanide, Total	Kelada-01	0.16 U	mg/L	0.20	0.16	40	09/22/21 13:53	
Fluoride, undistilled	300.0	0.17	mg/L	0.10	0.010	1	09/13/21 09:35	
Nitrate+Nitrite as Nitrogen	353.2	0.2 U	mg/L	5.0	0.2	100	09/29/21 21:28	
Nitrite as Nitrogen	353.2	0.007 U	mg/L	0.010	0.007	1	09/15/21 19:40	
pH	9040C	7.44	pH Units	-	-	1	09/24/21 08:20	



QC Summary Forms

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Volatile Organic Compounds by GC/MS

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QA/QC Report

Client: Inventum Engineering
Project: RITC Tanks
Sample Matrix: Water

Service Request: R2109410

SURROGATE RECOVERY SUMMARY
Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Extraction Method: EPA 5030C

Sample Name	Lab Code	4-Bromofluorobenzene	Dibromofluoromethane	Toluene-d8
		85-122	80-116	87-121
TK-LQ-ST22-09102021	R2109410-001	105	109	110
TK-LQ-ST23-09102021	R2109410-002	107	105	109
TK-LQ-ST24-09102021	R2109410-003	105	103	111
Method Blank	RQ2111706-04	102	105	109
Lab Control Sample	RQ2111706-03	109	109	111

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Analytical Report

Client: Inventum Engineering
Project: RITC Tanks
Sample Matrix: Water

Service Request: R2109410
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ2111706-04

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	0.20 U	5.0	0.20	1	09/21/21 23:28	
1,1,2,2-Tetrachloroethane	0.20 U	5.0	0.20	1	09/21/21 23:28	
1,1,2-Trichloroethane	0.20 U	5.0	0.20	1	09/21/21 23:28	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.20 U	5.0	0.20	1	09/21/21 23:28	
1,1-Dichloroethane (1,1-DCA)	0.20 U	5.0	0.20	1	09/21/21 23:28	
1,1-Dichloroethene (1,1-DCE)	0.20 U	5.0	0.20	1	09/21/21 23:28	
1,2,3-Trichlorobenzene	0.25 U	5.0	0.25	1	09/21/21 23:28	
1,2,4-Trichlorobenzene	0.34 U	5.0	0.34	1	09/21/21 23:28	
1,2-Dibromo-3-chloropropane (DBCP)	0.45 U	5.0	0.45	1	09/21/21 23:28	
1,2-Dibromoethane	0.20 U	5.0	0.20	1	09/21/21 23:28	
1,2-Dichlorobenzene	0.20 U	5.0	0.20	1	09/21/21 23:28	
1,2-Dichloroethane	0.20 U	5.0	0.20	1	09/21/21 23:28	
1,2-Dichloropropane	0.20 U	5.0	0.20	1	09/21/21 23:28	
1,3-Dichlorobenzene	0.20 U	5.0	0.20	1	09/21/21 23:28	
1,4-Dichlorobenzene	0.20 U	5.0	0.20	1	09/21/21 23:28	
1,4-Dioxane	13 U	100	13	1	09/21/21 23:28	
2-Butanone (MEK)	0.78 U	10	0.78	1	09/21/21 23:28	
2-Hexanone	0.20 U	10	0.20	1	09/21/21 23:28	
4-Methyl-2-pentanone	0.20 U	10	0.20	1	09/21/21 23:28	
Acetone	5.0 U	10	5.0	1	09/21/21 23:28	
Benzene	0.20 U	5.0	0.20	1	09/21/21 23:28	
Bromochloromethane	0.20 U	5.0	0.20	1	09/21/21 23:28	
Bromodichloromethane	0.20 U	5.0	0.20	1	09/21/21 23:28	
Bromoform	0.25 U	5.0	0.25	1	09/21/21 23:28	
Bromomethane	0.70 U	5.0	0.70	1	09/21/21 23:28	
Carbon Disulfide	0.42 U	10	0.42	1	09/21/21 23:28	
Carbon Tetrachloride	0.34 U	5.0	0.34	1	09/21/21 23:28	
Chlorobenzene	0.20 U	5.0	0.20	1	09/21/21 23:28	
Chloroethane	0.23 U	5.0	0.23	1	09/21/21 23:28	
Chloroform	0.24 U	5.0	0.24	1	09/21/21 23:28	
Chloromethane	0.35 J	5.0	0.28	1	09/21/21 23:28	
Cyclohexane	0.26 U	10	0.26	1	09/21/21 23:28	
Dibromochloromethane	0.20 U	5.0	0.20	1	09/21/21 23:28	
Dichlorodifluoromethane (CFC 12)	0.21 U	5.0	0.21	1	09/21/21 23:28	
Dichloromethane	0.65 U	5.0	0.65	1	09/21/21 23:28	
Ethylbenzene	0.20 U	5.0	0.20	1	09/21/21 23:28	
Isopropylbenzene (Cumene)	0.20 U	5.0	0.20	1	09/21/21 23:28	
Methyl Acetate	0.33 U	10	0.33	1	09/21/21 23:28	
Methyl tert-Butyl Ether	0.20 U	5.0	0.20	1	09/21/21 23:28	
Methylcyclohexane	0.20 U	10	0.20	1	09/21/21 23:28	
Styrene	0.20 U	5.0	0.20	1	09/21/21 23:28	
Tetrachloroethene (PCE)	0.21 U	5.0	0.21	1	09/21/21 23:28	
Toluene	0.20 U	5.0	0.20	1	09/21/21 23:28	

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Analytical Report

Client: Inventum Engineering
Project: RITC Tanks
Sample Matrix: Water

Service Request: R2109410
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ2111706-04

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	0.20 U	5.0	0.20	1	09/21/21 23:28	
Trichlorofluoromethane (CFC 11)	0.24 U	5.0	0.24	1	09/21/21 23:28	
Vinyl Chloride	0.20 U	5.0	0.20	1	09/21/21 23:28	
cis-1,2-Dichloroethene	0.23 U	5.0	0.23	1	09/21/21 23:28	
cis-1,3-Dichloropropene	0.20 U	5.0	0.20	1	09/21/21 23:28	
m,p-Xylenes	0.20 U	5.0	0.20	1	09/21/21 23:28	
o-Xylene	0.20 U	5.0	0.20	1	09/21/21 23:28	
trans-1,2-Dichloroethene	0.20 U	5.0	0.20	1	09/21/21 23:28	
trans-1,3-Dichloropropene	0.23 U	5.0	0.23	1	09/21/21 23:28	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	102	85 - 122	09/21/21 23:28	
Dibromofluoromethane	105	80 - 116	09/21/21 23:28	
Toluene-d8	109	87 - 121	09/21/21 23:28	

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QA/QC Report

Client: Inventum Engineering
Project: RITC Tanks
Sample Matrix: Water

Service Request: R2109410
Date Analyzed: 09/21/21

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2111706-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
1,1,1-Trichloroethane (TCA)	8260C	22.0	20.0	110	75-125
1,1,2,2-Tetrachloroethane	8260C	23.5	20.0	117	78-126
1,1,2-Trichloroethane	8260C	21.9	20.0	109	82-121
1,1,2-Trichloro-1,2,2-trifluoroethane	8260C	21.4	20.0	107	67-124
1,1-Dichloroethane (1,1-DCA)	8260C	24.2	20.0	121	80-124
1,1-Dichloroethene (1,1-DCE)	8260C	23.6	20.0	118	71-118
1,2,3-Trichlorobenzene	8260C	23.3	20.0	116	67-136
1,2,4-Trichlorobenzene	8260C	23.0	20.0	115	75-132
1,2-Dibromo-3-chloropropane (DBCP)	8260C	22.3	20.0	111	55-136
1,2-Dibromoethane	8260C	22.8	20.0	114	82-127
1,2-Dichlorobenzene	8260C	22.3	20.0	111	80-119
1,2-Dichloroethane	8260C	21.3	20.0	107	71-127
1,2-Dichloropropane	8260C	22.3	20.0	112	80-119
1,3-Dichlorobenzene	8260C	21.7	20.0	109	83-121
1,4-Dichlorobenzene	8260C	21.2	20.0	106	79-119
1,4-Dioxane	8260C	465	400	116	44-154
2-Butanone (MEK)	8260C	22.7	20.0	114	61-137
2-Hexanone	8260C	22.8	20.0	114	63-124
4-Methyl-2-pentanone	8260C	22.7	20.0	114	66-124
Acetone	8260C	23.9	20.0	119	40-161
Benzene	8260C	22.4	20.0	112	79-119
Bromochloromethane	8260C	22.4	20.0	112	81-126
Bromodichloromethane	8260C	22.0	20.0	110	81-123
Bromoform	8260C	21.4	20.0	107	65-146
Bromomethane	8260C	24.0	20.0	120	42-166
Carbon Disulfide	8260C	25.7	20.0	129 *	66-128
Carbon Tetrachloride	8260C	19.9	20.0	100	70-127
Chlorobenzene	8260C	22.2	20.0	111	80-121
Chloroethane	8260C	25.1	20.0	125	62-131
Chloroform	8260C	22.9	20.0	114	79-120
Chloromethane	8260C	30.0	20.0	150 *	65-135
Cyclohexane	8260C	20.2	20.0	101	69-120
Dibromochloromethane	8260C	22.4	20.0	112	72-128

Printed 10/26/2021 5:39:03 PM

Superset Reference:21-0000603479 rev 00

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QA/QC Report

Client: Inventum Engineering
Project: RITC Tanks
Sample Matrix: Water

Service Request: R2109410
Date Analyzed: 09/21/21

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ2111706-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Dichlorodifluoromethane (CFC 12)	8260C	23.7	20.0	118	59-155
Dichloromethane	8260C	23.5	20.0	118	73-122
Ethylbenzene	8260C	21.9	20.0	109	76-120
Isopropylbenzene (Cumene)	8260C	23.7	20.0	119	77-128
Methyl Acetate	8260C	27.2	20.0	136 *	61-133
Methyl tert-Butyl Ether	8260C	24.0	20.0	120 *	75-118
Methylcyclohexane	8260C	21.8	20.0	109	51-129
Styrene	8260C	22.6	20.0	113	80-124
Tetrachloroethene (PCE)	8260C	20.5	20.0	103	72-125
Toluene	8260C	23.2	20.0	116	79-119
Trichloroethene (TCE)	8260C	21.0	20.0	105	74-122
Trichlorofluoromethane (CFC 11)	8260C	21.8	20.0	109	71-136
Vinyl Chloride	8260C	26.8	20.0	134	74-159
cis-1,2-Dichloroethene	8260C	23.7	20.0	118	80-121
cis-1,3-Dichloropropene	8260C	23.3	20.0	116	77-122
m,p-Xylenes	8260C	44.2	40.0	110	80-126
o-Xylene	8260C	22.6	20.0	113	79-123
trans-1,2-Dichloroethene	8260C	23.4	20.0	117	73-118
trans-1,3-Dichloropropene	8260C	23.1	20.0	115	71-133



Semivolatile Organic Compounds by GC/MS

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QA/QC Report

Client: Inventum Engineering
Project: RITC Tanks
Sample Matrix: Water

Service Request: R2109410

SURROGATE RECOVERY SUMMARY
Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Extraction Method: EPA 3510C

Sample Name	Lab Code	2,4,6-Tribromophenol	2-Fluorobiphenyl	2-Fluorophenol
		35-141	31-118	10-105
TK-LQ-ST22-09102021	R2109410-001	78	75	41
TK-LQ-ST23-09102021	R2109410-002	0*	0*	0*
TK-LQ-ST24-09102021	R2109410-003	75	75	41
Method Blank	RQ2111388-03	79	62	39
Lab Control Sample	RQ2111388-04	75	70	40
Duplicate Lab Control Sample	RQ2111388-05	79	70	30

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QA/QC Report

Client: Inventum Engineering
Project: RITC Tanks
Sample Matrix: Water

Service Request: R2109410

SURROGATE RECOVERY SUMMARY
Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Extraction Method: EPA 3510C

Sample Name	Lab Code	Nitrobenzene-d5	Phenol-d6	Terphenyl-d14
		31-110	10-107	10-165
TK-LQ-ST22-09102021	R2109410-001	68	31	79
TK-LQ-ST23-09102021	R2109410-002	0*	0*	0*
TK-LQ-ST24-09102021	R2109410-003	68	32	81
Method Blank	RQ2111388-03	56	29	106
Lab Control Sample	RQ2111388-04	59	36	93
Duplicate Lab Control Sample	RQ2111388-05	53	31	99

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Analytical Report

Client: Inventum Engineering
Project: RITC Tanks
Sample Matrix: Water

Service Request: R2109410
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ2111388-03

Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4,5-Tetrachlorobenzene	1.2 U	10	1.2	1	09/16/21 16:14	9/15/21	
2,3,4,6-Tetrachlorophenol	1.2 U	10	1.2	1	09/16/21 16:14	9/15/21	
2,4,5-Trichlorophenol	1.1 U	10	1.1	1	09/16/21 16:14	9/15/21	
2,4,6-Trichlorophenol	1.4 U	10	1.4	1	09/16/21 16:14	9/15/21	
2,4-Dichlorophenol	1.3 U	10	1.3	1	09/16/21 16:14	9/15/21	
2,4-Dimethylphenol	1.4 U	10	1.4	1	09/16/21 16:14	9/15/21	
2,4-Dinitrophenol	20 U	50	20	1	09/16/21 16:14	9/15/21	
2,4-Dinitrotoluene	2.4 U	10	2.4	1	09/16/21 16:14	9/15/21	
2,6-Dinitrotoluene	1.4 U	10	1.4	1	09/16/21 16:14	9/15/21	
2-Chloronaphthalene	1.4 U	10	1.4	1	09/16/21 16:14	9/15/21	
2-Chlorophenol	1.1 U	10	1.1	1	09/16/21 16:14	9/15/21	
2-Methylnaphthalene	1.3 U	10	1.3	1	09/16/21 16:14	9/15/21	
2-Methylphenol	1.0 U	10	1.0	1	09/16/21 16:14	9/15/21	
2-Nitroaniline	1.4 U	10	1.4	1	09/16/21 16:14	9/15/21	
2-Nitrophenol	1.5 U	10	1.5	1	09/16/21 16:14	9/15/21	
3,3'-Dichlorobenzidine	1.2 U	10	1.2	1	09/16/21 16:14	9/15/21	
3- and 4-Methylphenol Coelution	1.2 U	10	1.2	1	09/16/21 16:14	9/15/21	
3-Nitroaniline	1.1 U	10	1.1	1	09/16/21 16:14	9/15/21	
4,6-Dinitro-2-methylphenol	8.7 U	50	8.7	1	09/16/21 16:14	9/15/21	
4-Bromophenyl Phenyl Ether	1.7 U	10	1.7	1	09/16/21 16:14	9/15/21	
4-Chloro-3-methylphenol	1.1 U	10	1.1	1	09/16/21 16:14	9/15/21	
4-Chloroaniline	1.0 U	10	1.0	1	09/16/21 16:14	9/15/21	
4-Chlorophenyl Phenyl Ether	1.5 U	10	1.5	1	09/16/21 16:14	9/15/21	
4-Nitroaniline	1.4 U	10	1.4	1	09/16/21 16:14	9/15/21	
4-Nitrophenol	6.4 U	50	6.4	1	09/16/21 16:14	9/15/21	
Acenaphthene	1.4 U	10	1.4	1	09/16/21 16:14	9/15/21	
Acenaphthylene	1.4 U	10	1.4	1	09/16/21 16:14	9/15/21	
Acetophenone	1.3 U	10	1.3	1	09/16/21 16:14	9/15/21	
Anthracene	1.3 U	10	1.3	1	09/16/21 16:14	9/15/21	
Atrazine	2.1 U	10	2.1	1	09/16/21 16:14	9/15/21	
Benz(a)anthracene	1.6 U	10	1.6	1	09/16/21 16:14	9/15/21	
Benzaldehyde	1.0 U	10	1.0	1	09/16/21 16:14	9/15/21	
Benzo(a)pyrene	1.2 U	10	1.2	1	09/16/21 16:14	9/15/21	
Benzo(b)fluoranthene	1.2 U	10	1.2	1	09/16/21 16:14	9/15/21	
Benzo(g,h,i)perylene	1.0 U	10	1.0	1	09/16/21 16:14	9/15/21	
Benzo(k)fluoranthene	1.3 U	10	1.3	1	09/16/21 16:14	9/15/21	
Biphenyl	1.4 U	10	1.4	1	09/16/21 16:14	9/15/21	
2,2'-Oxybis(1-chloropropane)	1.4 U	10	1.4	1	09/16/21 16:14	9/15/21	
Bis(2-chloroethoxy)methane	1.9 U	10	1.9	1	09/16/21 16:14	9/15/21	
Bis(2-chloroethyl) Ether	1.3 U	10	1.3	1	09/16/21 16:14	9/15/21	
Bis(2-ethylhexyl) Phthalate	7.8 U	10	7.8	1	09/16/21 16:14	9/15/21	
Butyl Benzyl Phthalate	1.4 U	10	1.4	1	09/16/21 16:14	9/15/21	
Caprolactam	1.0 U	10	1.0	1	09/16/21 16:14	9/15/21	

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Analytical Report

Client: Inventum Engineering
Project: RITC Tanks
Sample Matrix: Water

Service Request: R2109410
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ2111388-03

Units: ug/L
Basis: NA

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Carbazole	1.6 U	10	1.6	1	09/16/21 16:14	9/15/21	
Chrysene	1.2 U	10	1.2	1	09/16/21 16:14	9/15/21	
Di-n-butyl Phthalate	1.7 U	10	1.7	1	09/16/21 16:14	9/15/21	
Di-n-octyl Phthalate	3.3 U	10	3.3	1	09/16/21 16:14	9/15/21	
Dibenz(a,h)anthracene	1.1 U	10	1.1	1	09/16/21 16:14	9/15/21	
Dibenzofuran	1.4 U	10	1.4	1	09/16/21 16:14	9/15/21	
Diethyl Phthalate	1.1 U	10	1.1	1	09/16/21 16:14	9/15/21	
Dimethyl Phthalate	1.3 U	10	1.3	1	09/16/21 16:14	9/15/21	
Fluoranthene	1.5 U	10	1.5	1	09/16/21 16:14	9/15/21	
Fluorene	1.3 U	10	1.3	1	09/16/21 16:14	9/15/21	
Hexachlorobenzene	1.6 U	10	1.6	1	09/16/21 16:14	9/15/21	
Hexachlorobutadiene	1.0 U	10	1.0	1	09/16/21 16:14	9/15/21	
Hexachlorocyclopentadiene	2.2 U	10	2.2	1	09/16/21 16:14	9/15/21	
Hexachloroethane	1.1 U	10	1.1	1	09/16/21 16:14	9/15/21	
Indeno(1,2,3-cd)pyrene	1.8 U	10	1.8	1	09/16/21 16:14	9/15/21	
Isophorone	1.4 U	10	1.4	1	09/16/21 16:14	9/15/21	
N-Nitrosodi-n-propylamine	1.2 U	10	1.2	1	09/16/21 16:14	9/15/21	
N-Nitrosodiphenylamine	2.7 U	10	2.7	1	09/16/21 16:14	9/15/21	
Naphthalene	1.2 U	10	1.2	1	09/16/21 16:14	9/15/21	
Nitrobenzene	1.5 U	10	1.5	1	09/16/21 16:14	9/15/21	
Pentachlorophenol (PCP)	9.7 U	50	9.7	1	09/16/21 16:14	9/15/21	
Phenanthrene	1.4 U	10	1.4	1	09/16/21 16:14	9/15/21	
Phenol	1.0 U	10	1.0	1	09/16/21 16:14	9/15/21	
Pyrene	1.5 U	10	1.5	1	09/16/21 16:14	9/15/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	79	35 - 141	09/16/21 16:14	
2-Fluorobiphenyl	62	31 - 118	09/16/21 16:14	
2-Fluorophenol	39	10 - 105	09/16/21 16:14	
Nitrobenzene-d5	56	31 - 110	09/16/21 16:14	
Phenol-d6	29	10 - 107	09/16/21 16:14	
Terphenyl-d14	106	10 - 165	09/16/21 16:14	

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QA/QC Report

Client: Inventum Engineering
Project: RITC Tanks
Sample Matrix: Water

Service Request: R2109410
Date Analyzed: 09/16/21

Duplicate Lab Control Sample Summary
Semivolatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample RQ2111388-04					Duplicate Lab Control Sample RQ2111388-05					
Analyte Name	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
1,2,4,5-Tetrachlorobenzene	8270D	82.0	80.1	102	92.5	80.1	116	15-132	13	30
2,3,4,6-Tetrachlorophenol	8270D	66.0	80.0	83	69.8	80.0	87	42-136	5	30
2,4,5-Trichlorophenol	8270D	63.4	80.0	79	68.1	80.0	85	48-134	7	30
2,4,6-Trichlorophenol	8270D	56.5	80.0	71	59.3	80.0	74	44-135	4	30
2,4-Dichlorophenol	8270D	49.6	80.0	62	50.4	80.0	63	48-127	2	30
2,4-Dimethylphenol	8270D	53.5	80.0	67	55.1	80.0	69	35-99	3	30
2,4-Dinitrophenol	8270D	29.5 J	80.0	37	48.8 J	80.0	61	21-154	49*	30
2,4-Dinitrotoluene	8270D	67.0	80.0	84	69.4	80.0	87	54-130	4	30
2,6-Dinitrotoluene	8270D	73.3	80.0	92	72.6	80.0	91	51-127	1	30
2-Chloronaphthalene	8270D	57.6	80.0	72	58.3	80.0	73	40-108	1	30
2-Chlorophenol	8270D	39.0	80.0	49	33.0	80.0	41 *	42-112	18	30
2-Methylnaphthalene	8270D	54.2	80.0	68	52.6	80.0	66	34-102	3	30
2-Methylphenol	8270D	48.6	80.0	61	43.7	80.0	55	47-100	10	30
2-Nitroaniline	8270D	72.5	80.0	91	72.9	80.0	91	52-133	<1	30
2-Nitrophenol	8270D	45.6	80.0	57	42.5	80.0	53	43-131	7	30
3,3'-Dichlorobenzidine	8270D	68.9	80.0	86	60.6	80.0	76	43-126	12	30
3- and 4-Methylphenol Coelution	8270D	48.3	80.0	60	46.3	80.0	58	40-92	3	30
3-Nitroaniline	8270D	60.6	80.0	76	59.3	80.0	74	42-111	3	30
4,6-Dinitro-2-methylphenol	8270D	52.7	80.0	66	60.2	80.0	75	36-152	13	30
4-Bromophenyl Phenyl Ether	8270D	75.0	80.0	94	73.1	80.0	91	48-114	3	30
4-Chloro-3-methylphenol	8270D	59.6	80.0	75	61.6	80.0	77	52-113	3	30
4-Chloroaniline	8270D	57.0	80.0	71	50.4	80.0	63	44-109	12	30
4-Chlorophenyl Phenyl Ether	8270D	68.7	80.0	86	70.5	80.0	88	51-107	2	30
4-Nitroaniline	8270D	65.3	80.0	82	65.8	80.0	82	54-133	<1	30
4-Nitrophenol	8270D	29.7 J	80.0	37	31.4 J	80.0	39	10-126	5	30
Acenaphthene	8270D	65.6	80.0	82	65.3	80.0	82	52-107	<1	30
Acenaphthylene	8270D	69.9	80.0	87	69.4	80.0	87	55-109	<1	30
Acetophenone	8270D	102	160	64	92.2	160	58	46-114	10	30
Anthracene	8270D	74.1	80.0	93	76.8	80.0	96	55-116	3	30
Atrazine	8270D	84.8	80.0	106	94.6	80.0	118	61-164	11	30
Benz(a)anthracene	8270D	69.7	80.0	87	70.1	80.0	88	61-121	1	30
Benzaldehyde	8270D	45.8	80.0	57	11.0	80.0	14 *	45-132	121*	30
Benzo(a)pyrene	8270D	83.1	80.0	104	83.3	80.0	104	44-114	<1	30

ALS Group USA, Corp.
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QA/QC Report

Client: Inventum Engineering
Project: RITC Tanks
Sample Matrix: Water

Service Request: R2109410
Date Analyzed: 09/16/21

Duplicate Lab Control Sample Summary
Semivolatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample					Duplicate Lab Control Sample					
RQ2111388-04					RQ2111388-05					
Analyte Name	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Benzo(b)fluoranthene	8270D	71.0	80.0	89	71.2	80.0	89	62-115	<1	30
Benzo(g,h,i)perylene	8270D	75.9	80.0	95	76.9	80.0	96	63-136	1	30
Benzo(k)fluoranthene	8270D	77.0	80.0	96	77.4	80.0	97	49-133	1	30
Biphenyl	8270D	53.0	80.0	66	55.3	80.0	69	39-106	4	30
2,2'-Oxybis(1-chloropropane)	8270D	48.2	80.0	60	41.7	80.0	52	32-122	14	30
Bis(2-chloroethoxy)methane	8270D	68.4	80.0	86	64.7	80.0	81	55-110	6	30
Bis(2-chloroethyl) Ether	8270D	43.6	80.0	55	36.1	80.0	45 *	46-102	20	30
Bis(2-ethylhexyl) Phthalate	8270D	63.4	80.0	79	66.7	80.0	83	51-132	5	30
Butyl Benzyl Phthalate	8270D	69.8	80.0	87	69.0	80.0	86	41-148	1	30
Caprolactam	8270D	25.3	80.0	32	28.0	80.0	35	10-41	9	30
Carbazole	8270D	82.5	80.0	103	83.1	80.0	104	56-139	<1	30
Chrysene	8270D	74.8	80.0	94	75.5	80.0	94	57-118	<1	30
Di-n-butyl Phthalate	8270D	86.2	80.0	108	86.2	80.0	108	57-128	<1	30
Di-n-octyl Phthalate	8270D	68.6	80.0	86	69.9	80.0	87	62-124	1	30
Dibenz(a,h)anthracene	8270D	78.1	80.0	98	77.0	80.0	96	54-135	2	30
Dibenzofuran	8270D	69.2	80.0	86	69.0	80.0	86	55-110	<1	30
Diethyl Phthalate	8270D	66.0	80.0	83	66.2	80.0	83	53-113	<1	30
Dimethyl Phthalate	8270D	71.7	80.0	90	73.5	80.0	92	51-112	2	30
Fluoranthene	8270D	77.0	80.0	96	78.9	80.0	99	66-127	3	30
Fluorene	8270D	70.3	80.0	88	71.4	80.0	89	54-106	1	30
Hexachlorobenzene	8270D	71.7	80.0	90	72.0	80.0	90	53-123	<1	30
Hexachlorobutadiene	8270D	40.4	80.0	50	36.3	80.0	45	16-95	11	30
Hexachlorocyclopentadiene	8270D	17.0	80.0	21	16.5	80.0	21	10-99	<1	30
Hexachloroethane	8270D	31.5	80.0	39	22.7	80.0	28	15-92	33*	30
Indeno(1,2,3-cd)pyrene	8270D	72.2	80.0	90	71.8	80.0	90	62-137	<1	30
Isophorone	8270D	63.6	80.0	80	60.1	80.0	75	50-116	6	30
N-Nitrosodi-n-propylamine	8270D	52.8	80.0	66	48.0	80.0	60	49-115	10	30
N-Nitrosodiphenylamine	8270D	79.3	80.0	99	79.4	80.0	99	45-123	<1	30
Naphthalene	8270D	45.9	80.0	57	44.0	80.0	55	38-99	4	30
Nitrobenzene	8270D	48.3	80.0	60	44.1	80.0	55	46-108	9	30
Pentachlorophenol (PCP)	8270D	59.0	80.0	74	64.8	80.0	81	29-164	9	30
Phenanthrene	8270D	74.3	80.0	93	73.8	80.0	92	58-118	1	30
Phenol	8270D	28.4	80.0	36	24.9	80.0	31	10-113	15	30

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QA/QC Report

Client: Inventum Engineering
Project: RITC Tanks
Sample Matrix: Water

Service Request: R2109410
Date Analyzed: 09/16/21

Duplicate Lab Control Sample Summary
Semivolatile Organic Compounds by GC/MS

Units:ug/L**Basis:**NA

Analyte Name	Lab Control Sample				Duplicate Lab Control Sample				RPD	RPD Limit
	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits		
Pyrene	8270D	73.0	80.0	91	76.1	80.0	95	61-122	4	30



Semivolatile Organic Compounds by GC

ALS Environmental—Rochester Laboratory

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QA/QC Report

Client: Inventum Engineering
Project: RITC Tanks
Sample Matrix: Water

Service Request: R2109410

SURROGATE RECOVERY SUMMARY
Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Extraction Method: EPA 3510C

Sample Name	Lab Code	Decachlorobiphenyl	Tetrachloro-m-xylene
		10-164	10-147
TK-LQ-ST22-09102021	R2109410-001	69	51
TK-LQ-ST23-09102021	R2109410-002	88	220*
TK-LQ-ST24-09102021	R2109410-003	24	34
Method Blank	RQ2111454-01	74	50
Lab Control Sample	RQ2111454-02	78	54
Duplicate Lab Control Sample	RQ2111454-03	78	54

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Analytical Report

Client: Inventum Engineering
Project: RITC Tanks
Sample Matrix: Water

Service Request: R2109410
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ2111454-01

Units: ug/L
Basis: NA

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	0.020 U	0.050	0.020	1	09/20/21 12:13	9/16/21	
4,4'-DDE	0.020 U	0.050	0.020	1	09/20/21 12:13	9/16/21	
4,4'-DDT	0.020 U	0.050	0.020	1	09/20/21 12:13	9/16/21	
Aldrin	0.020 U	0.050	0.020	1	09/20/21 12:13	9/16/21	
Dieldrin	0.020 U	0.050	0.020	1	09/20/21 12:13	9/16/21	
Endosulfan I	0.020 U	0.050	0.020	1	09/20/21 12:13	9/16/21	
Endosulfan II	0.020 U	0.050	0.020	1	09/20/21 12:13	9/16/21	
Endosulfan Sulfate	0.020 U	0.050	0.020	1	09/20/21 12:13	9/16/21	
Endrin	0.020 U	0.050	0.020	1	09/20/21 12:13	9/16/21	
Endrin Aldehyde	0.020 U	0.050	0.020	1	09/20/21 12:13	9/16/21	
Endrin Ketone	0.020 U	0.050	0.020	1	09/20/21 12:13	9/16/21	
Heptachlor	0.020 U	0.050	0.020	1	09/20/21 12:13	9/16/21	
Heptachlor Epoxide	0.020 U	0.050	0.020	1	09/20/21 12:13	9/16/21	
Methoxychlor	0.020 U	0.050	0.020	1	09/20/21 12:13	9/16/21	
Toxaphene	0.50 U	0.50	0.50	1	09/20/21 12:13	9/16/21	
alpha-BHC	0.020 U	0.050	0.020	1	09/20/21 12:13	9/16/21	
alpha-Chlordane	0.020 U	0.050	0.020	1	09/20/21 12:13	9/16/21	
beta-BHC	0.020 U	0.050	0.020	1	09/20/21 12:13	9/16/21	
delta-BHC	0.020 U	0.050	0.020	1	09/20/21 12:13	9/16/21	
gamma-BHC (Lindane)	0.020 U	0.050	0.020	1	09/20/21 12:13	9/16/21	
gamma-Chlordane	0.020 U	0.050	0.020	1	09/20/21 12:13	9/16/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	74	10 - 164	09/20/21 12:13	
Tetrachloro-m-xylene	50	10 - 147	09/20/21 12:13	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Inventum Engineering
Project: RITC Tanks
Sample Matrix: Water

Service Request: R2109410
Date Analyzed: 09/20/21

Duplicate Lab Control Sample Summary
Organochlorine Pesticides by Gas Chromatography

Units:ug/L
Basis:NA

Lab Control Sample RQ2111454-02					Duplicate Lab Control Sample RQ2111454-03					
Analyte Name	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
4,4'-DDD	8081B	0.355	0.400	89	0.348	0.400	87	42-159	2	30
4,4'-DDE	8081B	0.326	0.400	81	0.327	0.400	82	47-147	<1	30
4,4'-DDT	8081B	0.410	0.400	102	0.399	0.400	100	41-149	3	30
Aldrin	8081B	0.231	0.400	58	0.230	0.400	58	22-137	<1	30
Dieldrin	8081B	0.346	0.400	86	0.340	0.400	85	52-144	2	30
Endosulfan I	8081B	0.341	0.400	85	0.334	0.400	83	52-136	2	30
Endosulfan II	8081B	0.357	0.400	89	0.349	0.400	87	57-138	2	30
Endosulfan Sulfate	8081B	0.367	0.400	92	0.373	0.400	93	34-156	1	30
Endrin	8081B	0.371	0.400	93	0.363	0.400	91	56-143	2	30
Endrin Aldehyde	8081B	0.399	0.400	100	0.423	0.400	106	10-166	6	30
Endrin Ketone	8081B	0.384	0.400	96	0.383	0.400	96	59-143	<1	30
Heptachlor	8081B	0.289	0.400	72	0.292	0.400	73	32-141	<1	30
Heptachlor Epoxide	8081B	0.341	0.400	85	0.335	0.400	84	51-143	2	30
Methoxychlor	8081B	0.424	0.400	106	0.426	0.400	107	56-149	<1	30
alpha-BHC	8081B	0.315	0.400	79	0.309	0.400	77	36-151	2	30
alpha-Chlordane	8081B	0.331	0.400	83	0.329	0.400	82	50-139	<1	30
beta-BHC	8081B	0.327	0.400	82	0.320	0.400	80	55-149	2	30
delta-BHC	8081B	0.320	0.400	80	0.313	0.400	78	29-159	2	30
gamma-BHC (Lindane)	8081B	0.317	0.400	79	0.312	0.400	78	41-149	2	30
gamma-Chlordane	8081B	0.325	0.400	81	0.330	0.400	82	50-140	1	30

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QA/QC Report

Client: Inventum Engineering
Project: RITC Tanks
Sample Matrix: Water

Service Request: R2109410

SURROGATE RECOVERY SUMMARY
Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Extraction Method: EPA 3510C

Sample Name	Lab Code	Decachlorobiphenyl	Tetrachloro-m-xylene
		10-152	14-129
TK-LQ-ST22-09102021	R2109410-001	30	50
TK-LQ-ST23-09102021	R2109410-002	12	25
TK-LQ-ST24-09102021	R2109410-003	12	38
Method Blank	RQ2111454-01	63	50
Lab Control Sample	RQ2111454-02	66	57
Duplicate Lab Control Sample	RQ2111454-03	72	57

ALS Group USA, Corp.
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Analytical Report

Client: Inventum Engineering
Project: RITC Tanks
Sample Matrix: Water

Service Request: R2109410
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ2111454-01

Units: ug/L
Basis: NA

Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Prep Method: EPA 3510C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	0.50 U	1.0	0.50	1	09/20/21 18:41	9/16/21	
Aroclor 1221	1.0 U	2.0	1.0	1	09/20/21 18:41	9/16/21	
Aroclor 1232	0.50 U	1.0	0.50	1	09/20/21 18:41	9/16/21	
Aroclor 1242	0.50 U	1.0	0.50	1	09/20/21 18:41	9/16/21	
Aroclor 1248	0.50 U	1.0	0.50	1	09/20/21 18:41	9/16/21	
Aroclor 1254	0.50 U	1.0	0.50	1	09/20/21 18:41	9/16/21	
Aroclor 1260	0.50 U	1.0	0.50	1	09/20/21 18:41	9/16/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	63	10 - 152	09/20/21 18:41	
Tetrachloro-m-xylene	50	14 - 129	09/20/21 18:41	

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QA/QC Report

Client: Inventum Engineering
Project: RITC Tanks
Sample Matrix: Water

Service Request: R2109410
Date Analyzed: 09/20/21

Duplicate Lab Control Sample Summary
Polychlorinated Biphenyls (PCBs) by GC

Units:ug/L**Basis:**NA**Lab Control Sample**

RQ2111454-02

Duplicate Lab Control Sample

RQ2111454-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Aroclor 1016	8082A	3.55	4.00	89	3.68	4.00	92	49-123	4	30
Aroclor 1260	8082A	3.74	4.00	94	3.99	4.00	100	30-120	7	30

ALS Group USA, Corp.
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QA/QC Report

Client: Inventum Engineering
Project: RITC Tanks
Sample Matrix: Water

Service Request: R2109410

SURROGATE RECOVERY SUMMARY
Chlorinated Herbicides by GC

Analysis Method: 8151A
Extraction Method: Method

Sample Name	Lab Code	2,4-Dichlorophenylacetic
		Acid 10-136
TK-LQ-ST22-09102021	R2109410-001	75
TK-LQ-ST23-09102021	R2109410-002	0*
TK-LQ-ST24-09102021	R2109410-003	57
Method Blank	RQ2111389-01	70
Lab Control Sample	RQ2111389-02	75
Duplicate Lab Control Sample	RQ2111389-03	65

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Inventum Engineering
Project: RITC Tanks
Sample Matrix: Water

Service Request: R2109410
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ2111389-01

Units: ug/L
Basis: NA

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-T	0.14 U	0.50	0.14	1	09/17/21 10:26	9/15/21	
2,4,5-TP	0.12 U	0.50	0.12	1	09/17/21 10:26	9/15/21	
2,4-D	0.35 U	0.50	0.35	1	09/17/21 10:26	9/15/21	
Dicamba	0.12 U	0.50	0.12	1	09/17/21 10:26	9/15/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4-Dichlorophenylacetic Acid	70	10 - 136	09/17/21 10:26	

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QA/QC Report

Client: Inventum Engineering
Project: RITC Tanks
Sample Matrix: Water

Service Request: R2109410
Date Analyzed: 09/17/21

Duplicate Lab Control Sample Summary
Chlorinated Herbicides by GC

Units:ug/L
Basis:NA

Lab Control Sample
RQ2111389-02

Duplicate Lab Control Sample
RQ2111389-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
2,4,5-T	8151A	1.15	2.00	57	1.27	2.00	64	21-125	10	30
2,4,5-TP	8151A	1.07	2.00	54	1.13	2.00	56	21-120	5	30
2,4-D	8151A	1.39	2.00	70	1.36	2.00	68	26-154	2	30
Dicamba	8151A	1.21	2.00	61	1.21	2.00	60	22-125	<1	30



Metals

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BLANKS

Contract: R2109410

Lab Code: Case No.: SAS No.: SDG NO.: TK-LQ-ST22-0

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L, ppt, or mg/kg): UG/L

Analyte	Initial Calib. Blank ug/L	Continuing Calibration Blank ug/L						Preparation Blank		M
		1	2	3						
Aluminum	23.00 U	23.00 U	23.00 U	23.00 U			23.000	U		P
Antimony	15.20 J	9.50 J	6.60 J	8.20 J			6.300	U		P
Arsenic	5.50 U	5.50 U	5.50 U	5.50 U			5.500	U		P
Barium	3.00 U	3.00 U	3.00 U	3.00 U			3.000	U		P
Beryllium	0.13 U	0.13 U	0.13 U	0.13 U			0.130	U		P
Boron	12.00 U	12.00 U	12.00 U	12.00 U			12.000	U		P
Cadmium	0.35 U	0.35 U	0.35 U	0.35 U			0.350	U		P
Mercury	0.077 U	0.077 U	0.077 U	0.077 U			0.077	U		CV
Calcium	220.00 U	220.00 U	220.00 U	220.00 U			220.000	U		P
Chromium	1.40 U	1.40 U	1.40 U	1.40 U			1.400	U		P
Cobalt	0.89 U	0.89 U	0.89 U	0.89 U			0.890	U		P
Copper	3.90 U	3.90 U	3.90 U	3.90 U			3.900	U		P
Iron	61.00 U	61.00 U	61.00 U	61.00 U			61.000	U		P
Uranium	0.03 U	0.03 U	0.03 U	0.03 U			0.03	U		MS
Lead	2.10 U	2.10 U	2.10 U	2.10 U			2.100	U		P
Magnesium	29.00 U	29.00 U	29.00 U	29.00 U			29.000	U		P
Manganese	3.70 U	3.70 U	3.70 U	3.70 U			3.700	U		P
Molybdenum	11.10 J	9.30 J	8.60 J	8.70 J			2.900	U		P
Nickel	2.60 U	2.60 U	2.60 U	2.60 U			2.600	U		P
Potassium	380.00 U	380.00 U	380.00 U	380.00 U			380.000	U		P
Selenium	6.40 U	6.40 U	6.40 U	6.40 U			6.400	U		P
Silver	0.57 U	0.57 U	0.57 U	0.57 U			0.570	U		P
Sodium	130.00 U	130.00 U	130.00 U	130.00 U			130.000	U		P
Thallium	6.60 U	6.60 U	7.00 J	6.60 U			6.600	U		P
Tin	8.00 U	8.00 U	8.00 U	8.00 U			8.000	U		P
Vanadium	0.67 U	0.67 U	0.67 U	0.67 U			0.670	U		P
Zinc	2.40 U	2.40 U	2.40 U	2.40 U			2.400	U		P

Comments:

METALS

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BLANKS

Contract: R2109410

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: TK-LQ-ST22-0

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L, ppt, or mg/kg): UG/L

Analyte	Initial Calib. Blank ug/L	C	Continuing Calibration Blank ug/L						Preparation Blank	C	M
			1	C	2	C	3	C			
Aluminum			23.00	U	23.00	U	23.00	U			P
Antimony			6.30	U	6.80	J	15.10	J			P
Arsenic			5.50	U	5.50	U	6.10	J			P
Barium			3.00	U	3.00	U	3.00	U			P
Beryllium			0.13	U	0.13	U	0.13	U			P
Boron			12.00	U	12.00	U	12.00	U			P
Cadmium			0.35	U	0.35	U	0.35	U			P
Mercury			0.077	U	0.077	U					CV
Calcium			220.00	U	220.00	U	220.00	U			P
Chromium			1.40	U	1.40	U	1.40	U			P
Cobalt			0.89	U	0.89	U	0.89	U			P
Copper			3.90	U	3.90	U	3.90	U			P
Iron			61.00	U	61.00	U	61.00	U			P
Uranium			0.03	U	0.03	U	0.03	U			MS
Lead			2.10	U	2.10	U	2.10	U			P
Magnesium			29.00	U	29.00	U	29.00	U			P
Manganese			3.70	U	3.70	U	3.70	U			P
Molybdenum			8.10	J	8.20	J	11.20	J			P
Nickel			2.60	U	2.60	U	2.60	U			P
Potassium			380.00	U	380.00	U	380.00	U			P
Selenium			6.40	U	6.40	U	6.40	U			P
Silver			0.57	U	0.57	U	0.57	U			P
Sodium			130.00	U	130.00	U	130.00	U			P
Thallium			6.60	U	7.10	J	8.70	J			P
Tin			8.00	U	8.00	U	8.00	U			P
Vanadium			0.67	U	0.67	U	0.67	U			P
Zinc			2.40	U	2.40	U	2.40	U			P

Comments:

METALS

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BLANKSContract: R2109410Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: TK-LQ-ST22-0Preparation Blank Matrix (soil/water): WATERPreparation Blank Concentration Units (ug/L, ppt, or mg/kg): UG/L

Analyte	Initial Calib. Blank ug/L		Continuing Calibration Blank ug/L						Preparation Blank		M
	C		1	C	2	C	3	C	C		
Arsenic	5.50	U	5.50	U	5.50	U	5.50	U			P
Iron	61.00	U	61.00	U	61.00	U	61.00	U			P
Sodium	130.00	U	130.00	U	130.00	U	130.00	U			P

Comments:

METALS

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BLANKS

Contract: R2109410

Lab Code: Case No.: SAS No.: SDG NO.: TK-LQ-ST22-0

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L, ppt, or mg/kg): UG/L

Analyte	Initial Calib. Blank ug/L		Continuing Calibration Blank ug/L									Preparation Blank		M
	C		1	C	2	C	3	C				C		
Arsenic			6.10	J	5.50	U	5.50	U						P
Iron			61.00	U	61.00	U	61.00	U						P
Sodium			130.00	U	130.00	U	130.00	U						P

Comments:

METALS

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LABORATORY CONTROL SAMPLE

Contract: **R2109410**

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: **TK-LQ-ST22-0**

Solid LCS Source: _____

Aqueous LCS Source: **ACCUSTANDARD**

Analyte	Aqueous (ug/L			Solid (mg/K					
	True	Found	%R	True	Found	C	Limits	%R	
Aluminum	2000	1980	99						
Antimony	500	479	96						
Arsenic	40	41	102						
Barium	2000	2010	100						
Beryllium	50	50	100						
Boron	1000	977	98						
Cadmium	50	51	102						
Mercury	1.000	1.080	108						
Calcium	2000	2030	102						
Chromium	200	205	102						
Cobalt	500	511	102						
Copper	250	243	97						
Iron	1000	999	100						
Uranium	20.0	19.7	98						
Lead	500	496	99						
Magnesium	2000	1950	98						
Manganese	500	495	99						
Molybdenum	500	493	99						
Nickel	500	507	101						
Potassium	20000	19400	97						
Selenium	1010	982	97						
Silver	50	48	96						
Sodium	20000	19800	99						
Thallium	2000	1870	94						
Tin	5000	4860	97						
Vanadium	500	494	99						
Zinc	500	496	99						

Comments: _____



General Chemistry

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Analytical Report

Client: Inventum Engineering
Project: RITC Tanks
Sample Matrix: Water

Sample Name: Method Blank
Lab Code: R2109410-MB1

Service Request: R2109410
Date Collected: NA
Date Received: NA

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Ammonia as Nitrogen, undistilled	350.1	0.026 U	mg/L	0.050	0.026	1	09/25/21 15:29	
Cyanide, Total	Kelada-01	0.0040 U	mg/L	0.0050	0.0040	1	09/22/21 13:25	
Fluoride, undistilled	300.0	0.010 U	mg/L	0.10	0.010	1	09/13/21 08:33	
Nitrate+Nitrite as Nitrogen	353.2	0.002 U	mg/L	0.050	0.002	1	09/29/21 20:45	
Nitrite as Nitrogen	353.2	0.007 U	mg/L	0.010	0.007	1	09/15/21 19:38	

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Analytical Report

Client: Inventum Engineering
Project: RITC Tanks
Sample Matrix: Water

Sample Name: Method Blank
Lab Code: R2109410-MB2

Service Request: R2109410
Date Collected: NA
Date Received: NA

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Q
Ammonia as Nitrogen, undistilled	350.1	0.026 U	mg/L	0.050	0.026	1	09/30/21 13:50	
Nitrate+Nitrite as Nitrogen	353.2	0.002 U	mg/L	0.050	0.002	1	09/29/21 21:18	

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QA/QC Report

Client: Inventum Engineering
Project: RITC Tanks
Sample Matrix: Water

Service Request: R2109410
Date Analyzed: 09/13/21 - 09/29/21

Lab Control Sample Summary
General Chemistry Parameters

Units:mg/L**Basis:**NA**Lab Control Sample**

R2109410-LCS1

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Ammonia as Nitrogen, undistilled	350.1	0.500	0.500	100	90-110
Cyanide, Total	Kelada-01	0.0999	0.100	100	90-110
Fluoride, undistilled	300.0	0.940	1.00	94	90-110
Nitrate+Nitrite as Nitrogen	353.2	0.520	0.500	104	90-110
Nitrite as Nitrogen	353.2	0.241	0.250	97	90-110

ALS Group USA, Corp.

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QA/QC Report

Client: Inventum Engineering
Project: RITC Tanks
Sample Matrix: Water

Service Request: R2109410
Date Analyzed: 09/29/21 - 09/30/21

Lab Control Sample Summary
General Chemistry Parameters

Units:mg/L**Basis:**NA**Lab Control Sample**

R2109410-LCS2

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Ammonia as Nitrogen, undistilled	350.1	0.496	0.500	99	90-110
Nitrate+Nitrite as Nitrogen	353.2	0.516	0.500	103	90-110



Subcontracted Analytical Parameters

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October 12, 2021

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Rochester, NY 14623

Certificate of Analysis

Revised Report - 10/12/2021 2:43:25 PM - See workorder comment section for explanation

Project Name:	2021-TCLP BORON; TOTAL URANIUM,SULFUR	Workorder:	3201053
Purchase Order:	58-R2109410	Workorder ID:	AER635 R2109410

Dear Reports Invoices:

Enclosed are the analytical results for samples received by the laboratory on Wednesday, September 15, 2021.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Ms. Sarah S Leung (Project Coordinator) at (717) 944-5541.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable. For a specific list of accredited analytes, refer to the certifications section of the ALS website at www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads.

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ALS Spring City: 10 Riverside Drive, Spring City, PA 19475 610-948-4903

CC: Mr. Michael Chevalier , Ms. Meghan Pedro , Mr. Brady Kalkman ,
Ms. Janice Jaeger

*This page is included as part of the Analytical Report and
must be retained as a permanent record thereof.*



Ms. Sarah S Leung
Project Coordinator

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**SAMPLE SUMMARY**

Workorder: 3201053 AER635|R2109410

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
3201053001	TK-LQ-ST22-09102021	Water	9/10/2021 00:00	9/15/2021 09:55	Collected by Client
3201053002	TL-LQ-ST23-09102021	Water	9/10/2021 00:00	9/15/2021 09:55	Collected by Client
3201053003	TL-LQ-ST24-09102021	Water	9/10/2021 00:00	9/15/2021 09:55	Collected by Client

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Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

SAMPLE SUMMARY

Workorder: 3201053 AER635|R2109410

Notes

- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are performed in the laboratory and are therefore analyzed out of hold time.
- Method references listed on this report beginning with the prefix "S" followed by a method number (such as S2310B-97) refer to methods from "Standard Methods for the Examination of Water and Wastewater".
- For microbiological analyses, the "Prepared" value is the date/time into the incubator and the "Analyzed" value is the date/time out the incubator.
- An Analysis-Prep Method Cross Reference Table is included after Analytical Results & Qualifiers section in this report.

Standard Acronyms/Flags

C	Please reference the Project Summary section of this Certificate of Analysis for case narrative comments.
J	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference
LOD	DoD Limit of Detection
LOQ	DoD Limit of Quantitation
DL	DoD Detection Limit
I	Indicates reported value is greater than or equal to the Method Detection Limit (MDL) but less than the Report Detection Limit (RDL)
(S)	Surrogate Compound
NC	Not Calculated
*	Result outside of QC limits

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Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

PROJECT SUMMARY

Workorder: 3201053 AER635|R2109410

Workorder Comments

Temperature of sample taken at time of sample receipt in the laboratory. See chain of custody for actual temperature.

This certificate of analysis was reissued to generate a level IV data package. SSL 10/11/21

ALS Environmental Laboratory Locations Across North America

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**ANALYTICAL RESULTS**

Workorder: 3201053 AER635|R2109410

Lab ID: **3201053001**
Sample ID: **TK-LQ-ST22-09102021**Date Collected: 9/10/2021 00:00 Matrix: Water
Date Received: 9/15/2021 09:55

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
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METALS

Sulfur	93.2	C	mg/L	0.11	0.036	SW846 6010C	9/23/21 20:00 SXC	9/24/21 08:32	SRT	A1
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Ms. Sarah S Leung
Project Coordinator**ALS Environmental Laboratory Locations Across North America**Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
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**ANALYTICAL RESULTS**

Workorder: 3201053 AER635|R2109410

Lab ID: **3201053002**
Sample ID: **TL-LQ-ST23-09102021**Date Collected: 9/10/2021 00:00 Matrix: Water
Date Received: 9/15/2021 09:55

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
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METALS

Sulfur	642	C	mg/L	0.55	0.18	SW846 6010C	9/23/21 20:00 SXC	9/24/21 08:35	SRT	A1
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Ms. Sarah S Leung
Project Coordinator**ALS Environmental Laboratory Locations Across North America**Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
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ANALYTICAL RESULTS

Workorder: 3201053 AER635|R2109410

Lab ID: **3201053003**
Sample ID: **TL-LQ-ST24-09102021**

Date Collected: 9/10/2021 00:00 Matrix: Water
Date Received: 9/15/2021 09:55

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
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METALS

Sulfur	35.7	C	mg/L	0.11	0.036	SW846 6010C	9/23/21 20:00 SXC	9/24/21 08:39	SRT	A1
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Ms. Sarah S Leung
Project Coordinator

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ANALYSIS - PREP METHOD CROSS REFERENCE TABLE

Workorder: 3201053 AER635|R2109410

Lab ID	Sample ID	Analysis Method	Prep Method	Leachate Method
3201053001	TK-LQ-ST22-09102021	SW846 6010C	SW846 3015	
3201053002	TL-LQ-ST23-09102021	SW846 6010C	SW846 3015	
3201053003	TL-LQ-ST24-09102021	SW846 6010C	SW846 3015	

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QUALITY CONTROL DATA

Workorder: 3201053 AER635|R2109410

QC Batch: MDIG/91750

Analysis Method: SW846 6010C

QC Batch Method: SW846 3015

Associated Lab Samples: 3201053001, 3201053002, 3201053003

METHOD BLANK: 3395483

Parameter	Blank Result	Units	Reporting Limit
Sulfur	ND	mg/L	0.11

LABORATORY CONTROL SAMPLE: 3395484

Parameter	LCS % Rec	Units	Spike Conc.	LCS Result	% Rec Limit
Sulfur	107	mg/L	11.1	11.9	80 - 120

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Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey

QUALITY CONTROL DATA CROSS REFERENCE TABLEWorkorder: 3201053 AER635|R2109410

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
3201053001	TK-LQ-ST22-09102021	SW846 3015	MDIG/91750	SW846 6010C	META/83223
3201053002	TL-LQ-ST23-09102021	SW846 3015	MDIG/91750	SW846 6010C	META/83223
3201053003	TL-LQ-ST24-09102021	SW846 3015	MDIG/91750	SW846 6010C	META/83223

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Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ALS Environmental Chain of Custody

1565 Jefferson Rd, Building 300 • Rochester, NY 14623 • 585-288-5380 • FAX 585-288-8475

Project Number: R2109410
Project Manager: Meghan Pedro
QAP: LAB QAP



3201053

Lab Code	Sample ID	# of Cont.	Matrix	Sample		Lab ID	Misc Out 1
				Date	Time		
R2109410-001	TK-LQ-ST22-09102021	/	Water	9/10/21		Middletown ALS	X
R2109410-002	TK-LQ-ST23-09102021	/	Water	9/10/21		Middletown ALS	X
R2109410-003	TK-LQ-ST24-09102021	/	Water	9/10/21		Middletown ALS	X

Test Comments
Misc Out 1 - None

R2109410-001,2,3

TOTAL SULFUR

10 573

Special Instructions/Comments H - Test is On Hold P - Test is Authorized for Prep Only	Turnaround Requirements RUSH (Surcharges Apply) PLEASE CIRCLE WORK DAYS 1 2 3 4 5 X STANDARD Requested FAX Date: _____ Requested Report Date: 10/01/21	Report Requirements I. Results Only X II. Results + QC Summaries III. Results + QC and Calibration Summaries X IV. Data Validation Report with Raw Data PQL/MDL/J Y EDD Y NY 5022 89410 4 Eq 200 89410 4	Invoice Information PO# 58R2109410 Bill to

Relinquished By: Samuel L. 9/14/21 1600 Received By: Fed Ex Airbill Number: _____

R2109410

— Ship To: Middletown ALS
ALS Environmental - Middletown
301 Fulling Mill Rd.
Middletown, PA 17057

PC 9/14/2011 Date WSP
SMO _____ Date _____

Instructions: _____
Ice _____
Dry Ice _____
No Ice _____
Shipping: _____
Overnight _____
2nd Day _____
Ground _____
Bill to Client Account _____

Comments:

ALS Group USA, Corp.
www.alsglobal.com
An ALS Limited Company



301 Fulling Mill Road
Middletown, PA 17057
P: (717) 944-5541
F: (717) 944-1430

3201053

ALS Environmental - Rochester

of Sample Receipt Form

Client: _____ Work Ord _____

Initials: SHC Date: 9/15/21

1. Were airbills / tracking numbers present and recorded?..... NONE ☒ YES ☐ NO
Tracking number: 9889 5096 0653
2. Are Custody Seals on shipping containers intact?..... NONE ☒ YES ☐ NO
3. Are Custody Seals on sample containers intact?..... ☒ NONE ☐ YES ☐ NO
4. Is there a COC (Chain-of-Custody) present?..... ☒ YES ☐ NO
5. Are the COC and bottle labels complete, legible and in agreement?..... YES ☒ NO ☐
 - 5a. Does the COC contain sample locations?..... ☒ YES ☐ NO
 - 5b. Does the COC contain date and time of sample collection for all samples?..... NO TIMES YES ☒ NO ☐
 - 5c. Does the COC contain sample collectors name?..... SHC 9/15/21 YES ☒ NO ☐
 - 5d. Does the COC note the type(s) of preservation for all bottles?..... None - LIMP YES ☒ NO ☐
 - 5e. Does the COC note the number of bottles submitted for each sample?..... ☒ YES ☐ NO
 - 5f. Does the COC note the type of sample, composite or grab?..... YES ☒ NO ☐
 - 5g. Does the COC note the matrix of the sample(s)?..... Water YES ☒ NO ☐
6. Are all aqueous samples requiring preservation preserved correctly?¹..... ☒ N/A ☐ YES ☐ NO
7. Were all samples placed in the proper containers for the requested analyses, with sufficient volume?..... ☒ YES ☐ NO
8. Are all samples within holding times for the requested analyses?..... ☒ YES ☐ NO
9. Were all sample containers received intact and headspace free when required? (not broken, leaking, frozen, etc.)..... ☒ YES ☐ NO
10. Did we receive trip blanks (applies only for methods EPA 504, EPA 524.2 and 1631E (LL Hg)?..... ☒ N/A ☐ YES ☐ NO
11. Were the samples received on ice?..... ☒ YES ☐ NO
12. Were sample temperatures measured at 0.0-6.0°C..... ☒ YES ☐ NO
13. Are the samples DW matrix ? If YES, fill out Reportable Drinking Water questions below..... YES ☒ NO ☐
 - 13a. Are the samples required for SDWA compliance reporting?..... N/A YES ☐ NO ☐
 - 13b. Did the client provide a SDWA PWS ID#?..... N/A YES ☐ NO ☐
 - 13c. Are all aqueous unpreserved SDWA samples pH 5-9?..... N/A YES ☐ NO ☐
 - 13d. Did the client provide the SDWA sample location ID/Description?..... N/A YES ☐ NO ☐
 - 13e. Did the client provide the SDWA sample type (D, E, R, C, P, S)?..... N/A YES ☐ NO ☐

Cooler #: _____

Temperature (°C): 70 _____

Thermometer ID: 573 _____

Radiological (µCi): (3) _____

COMMENTS (Required for all NO responses above and any sample non-conformance):

¹Final determination of correct preservation for analysis such as volatiles, microbiology, and oil and grease is made in the analytical department at the time of or following the analysis



September 30, 2021

Client: Inventum Engineering
481 Carlisle Drive
Herndon, VA 20170

Attn: John Black

Project: RITC Tanks

ALS : R2109410

Date Received: September 11, 2021

Certificate of Analysis

Sample ID:	Sample Date and Time:	Lab #:	Heating Value D4809 As Received BTU/lb
TK-LQ-ST22-09102021	9/10/21 n/a	R2109410-001	<100
TK-LQ-ST23-09102021	9/10/21 n/a	R2109410-002	585
TK-LQ-ST24-09102021	9/10/21 n/a	R2109410-003	<100

Wendy Hyatt, Laboratory Director



September 30, 2021

Client: Inventum Engineering
481 Carlisle Drive
Herndon, VA 20170

Attn: John Black

Project: RITC Tanks

ALS : R2109410

Date Received: September 11, 2021

Quality Control

Sample ID:	Sample Date and Time:	Lab #:	Heating Value
			D4809 As Received BTU/lb

Analysis Date

9/28/21

Prep Blank

n/a

LCS

AR 100

CN

6068

Observed Value

18,584

True Value

18,408

%R

101.0

Duplicate

K2110323-001

Observed Value

7,159

Duplicate Value

7,119

%RPD

0.6



December 06, 2021

Service Request No:R2109413

Mr. John Black
Inventum Engineering
481 Carlisle Drive
Herndon, VA 20170

Laboratory Results for: RITC Tanks

Dear Mr.Black,

Enclosed are the results of the sample(s) submitted to our laboratory September 11, 2021
For your reference, these analyses have been assigned our service request number **R2109413**.

All testing was performed according to our laboratory's quality assurance program and met the requirements of the TNI standards except as noted in the case narrative report. Any testing not included in the lab's accreditation is identified on a Non-Certified Analytes report. All results are intended to be considered in their entirety. ALS Environmental is not responsible for use of less than the complete report. Results apply only to the individual samples submitted to the lab for analysis, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s), and represented by Laboratory Control Sample control limits. Any events, such as QC failures or Holding Time exceedances, which may add to the uncertainty are explained in the report narrative or are flagged with qualifiers. The flags are explained in the Report Qualifiers and Definitions page of this report.

Please contact me if you have any questions. My extension is 7475. You may also contact me via email at Meghan.Pedro@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Meghan Pedro
Project Manager

ADDRESS

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

PHONE +1 585 288 5380 | **FAX** +1 585 288 8475

ALS Group USA, Corp.
dba ALS Environmental



Narrative Documents

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

Phone (585) 288-5380 Fax (585) 288-8475

www.alsglobal.com

Client: Inventum Engineering
Project: RITC Tanks
Sample Matrix: Waste

Service Request: R2109413
Date Received: 09/11/2021

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier level IV requested by the client.

Sample Receipt:

Two waste samples were received for analysis at ALS Environmental on 09/11/2021. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

Semivolatiles by GC/MS:

Method 8270D, 10/06/2021: The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.

Method 8270D, 10/06/2021: The upper control criterion was exceeded for one or more analytes in the Laboratory Control Sample (LCS). There were no detections of the analyte(s) above the MRL in the associated field samples. The error associated with elevated recovery equates to a high bias. The sample data is not significantly affected. No further corrective action was appropriate.

2,4-Dinitrophenol has been reported as zero percent recovery in the LCS/LCSD due to a limitation in LIMs. 2,4-Dinitrophenol was detected at 97% and 86% recovery, respectively, within laboratory limits. The LCS/LCSD is acceptable and should not be flagged on the summary form.

Method 8270D, 10/06/2021: The lower control limit for the spike recovery of the Laboratory Control Sample (LCS) was exceeded for one or more analyte. There were no detections of the analyte(s) in the associated field samples. The are within normal laboratory limits. The limits for these samples are generic 50-150. The analytes affected are flagged in the LCS Summary.

Method 8270D, 10/12/2021: The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.

Semivolatile GC:

Method 8081B, 09/27/2021: The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.

Method 8081B, 740349: The control limits for one or more surrogates in the sample are not applicable. The analysis of the sample required a dilution, which resulted in a surrogate concentration below the Method Reporting Limit (MRL). No further corrective action was appropriate.

Method 8081B, 740349: The reporting limit is elevated for one or more analytes. The sample extract was diluted prior to instrumental analysis due to relatively high levels of non-target background components. The extract was highly colored and viscous, which indicated the need to perform a dilution prior to injection into the instrument. Clean-up of the extract was performed within the scope of the method, but did not eliminate enough of the background components to prevent dilution. The result(s) are flagged to indicate the matrix interference.

Method 8082A, 09/27/2021: The lower control limit was exceeded for one or more analytes in the Continuing Calibration

Approved by Meghan Pedro

Date 10/25/2021



Verification (CCV) on the confirmation column. Since there were no detections of the analyte(s) above the MRL in the associated field samples, the quantitation is not affected. The data quality was not significantly affected and no further corrective action was taken.

Method 8082A, 09/27/2021: The control limits were exceeded for one or more surrogates in one or more QC samples associated with samples in this report. The associated recoveries of target compounds were in control, indicating the analysis was in control. The surrogate outlier is flagged accordingly. No further corrective action was appropriate.

Method 8082A, 09/27/2021: The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.

Method 8082A: The upper control limit was exceeded for one or more surrogates in one or more samples in this report. The elevated recovery equates to a high bias. Since no target analytes were detected in the sample(s), the quality of the sample data is not significantly affected. No further corrective action was appropriate.

Method 8151A, 09/23/2021: The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.

Metals:

No significant anomalies were noted with this analysis.

General Chemistry:

No significant anomalies were noted with this analysis.

Subcontracted Analytical Parameters:

One or more samples were subcontracted to another laboratory for testing. The certified analytical report from the subcontractor has been included in its entirety at the end of this report and includes the name and address of the subcontracted laboratory.

Volatiles by GC/MS:

Method 8260C, 09/20/2021: The lower control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). Since there were no detections of the analyte(s) above the MRL in the associated field samples, the quantitation is not affected. The data quality was not significantly affected and no further corrective action was taken.

Method 8260C, R2109413-001,002: Sample(s) required dilution due to a high nontarget compound. The reporting limits are adjusted to reflect the dilution.

Method 8260C, 09/20/2021: The upper control criterion was exceeded for one or more analytes in the Laboratory Control Sample (LCS). There were no detections of the analyte(s) above the MRL in the associated field samples. The error associated with elevated recovery equates to a high bias. The sample data is not significantly affected. No further corrective action was appropriate.

A handwritten signature in black ink, appearing to read "Meghan Pedco".

Approved by _____

Date 10/25/2021

SAMPLE DETECTION SUMMARY

CLIENT ID: TK-SD-ST22-09102021			Lab ID: R2109413-001			
Analyte	Results	Flag	MDL	MRL	Units	Method
Ammonia as Nitrogen, undistilled	19.0		1.4	5.0	mg/Kg	350.1M
Cyanide, Total	4.26			0.25	mg/Kg	9012B
Water	11.6		0.003	0.10	Percent	ASTM E203-01
2-Butanone (MEK)	4200	J	3900	50000	ug/Kg	8260C
Benzene	12000	J	1000	25000	ug/Kg	8260C
Chloromethane	1500	J	1400	25000	ug/Kg	8260C
Methyl Acetate	1800	J	1700	50000	ug/Kg	8260C
Toluene	9700	J	1000	25000	ug/Kg	8260C
m,p-Xylenes	10000	J	1000	25000	ug/Kg	8260C
o-Xylene	2400	J	1000	25000	ug/Kg	8260C
2-Methylnaphthalene	4400000		140000	1000000	ug/Kg	8270D
2-Methylphenol	310000	J	110000	1000000	ug/Kg	8270D
3- and 4-Methylphenol Coelution	950000	J	130000	1000000	ug/Kg	8270D
Acenaphthene	1500000		150000	1000000	ug/Kg	8270D
Acenaphthylene	1300000		150000	1000000	ug/Kg	8270D
Anthracene	4900000		140000	1000000	ug/Kg	8270D
Benz(a)anthracene	10000000		170000	1000000	ug/Kg	8270D
Benzo(a)pyrene	14000000	E	130000	1000000	ug/Kg	8270D
Benzo(b)fluoranthene	15000000	E	130000	1000000	ug/Kg	8270D
Benzo(g,h,i)perylene	8100000		110000	1000000	ug/Kg	8270D
Benzo(k)fluoranthene	4400000		140000	1000000	ug/Kg	8270D
Biphenyl	1100000		150000	1000000	ug/Kg	8270D
Carbazole	5900000		170000	1000000	ug/Kg	8270D
Chrysene	12000000	E	130000	1000000	ug/Kg	8270D
Dibenz(a,h)anthracene	1600000		120000	1000000	ug/Kg	8270D
Dibenzofuran	5600000		150000	1000000	ug/Kg	8270D
Fluoranthene	31000000	E	160000	1000000	ug/Kg	8270D
Fluorene	9400000		140000	1000000	ug/Kg	8270D
Indeno(1,2,3-cd)pyrene	8400000		190000	1000000	ug/Kg	8270D
Naphthalene	31000000	E	130000	1000000	ug/Kg	8270D
Phenanthrene	34000000	E	150000	1000000	ug/Kg	8270D
Phenol	930000	J	110000	1000000	ug/Kg	8270D
Pyrene	24000000	E	160000	1000000	ug/Kg	8270D
2-Methylnaphthalene	4400000	J	680000	5200000	ug/Kg	8270D
3- and 4-Methylphenol Coelution	760000	J	630000	5200000	ug/Kg	8270D
Acenaphthene	1400000	J	730000	5200000	ug/Kg	8270D
Acenaphthylene	1000000	J	730000	5200000	ug/Kg	8270D
Anthracene	4800000	J	680000	5200000	ug/Kg	8270D
Benz(a)anthracene	10000000		840000	5200000	ug/Kg	8270D
Benzo(a)pyrene	13000000	D	630000	5200000	ug/Kg	8270D
Benzo(b)fluoranthene	14000000	D	630000	5200000	ug/Kg	8270D

SAMPLE DETECTION SUMMARY

CLIENT ID: TK-SD-ST22-09102021	Lab ID: R2109413-001
---------------------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Benzo(g,h,i)perylene	8800000		530000	5200000	ug/Kg	8270D
Benzo(k)fluoranthene	4200000	J	680000	5200000	ug/Kg	8270D
Biphenyl	1100000	J	730000	5200000	ug/Kg	8270D
Carbazole	5400000		840000	5200000	ug/Kg	8270D
Chrysene	12000000	D	630000	5200000	ug/Kg	8270D
Dibenz(a,h)anthracene	1400000	J	580000	5200000	ug/Kg	8270D
Dibenzofuran	5600000		730000	5200000	ug/Kg	8270D
Fluoranthene	34000000	D	790000	5200000	ug/Kg	8270D
Fluorene	9500000		680000	5200000	ug/Kg	8270D
Indeno(1,2,3-cd)pyrene	8500000		940000	5200000	ug/Kg	8270D
Naphthalene	41000000	D	630000	5200000	ug/Kg	8270D
Phenanthrene	40000000	D	730000	5200000	ug/Kg	8270D
Phenol	820000	J	530000	5200000	ug/Kg	8270D
Pyrene	24000000	D	790000	5200000	ug/Kg	8270D

CLIENT ID: TK-SD-ST23-09102021	Lab ID: R2109413-002
---------------------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Ammonia as Nitrogen, undistilled	53.3		1.4	5.0	mg/Kg	350.1M
Cyanide, Total	1.08			0.28	mg/Kg	9012B
Water	7.52		0.003	0.10	Percent	ASTM E203-01
2-Butanone (MEK)	4300	J	3900	50000	ug/Kg	8260C
Benzene	110000		1000	25000	ug/Kg	8260C
Chloromethane	1900	J	1400	25000	ug/Kg	8260C
Ethylbenzene	4100	J	1000	25000	ug/Kg	8260C
Methyl Acetate	1700	J	1700	50000	ug/Kg	8260C
Styrene	11000	J	1000	25000	ug/Kg	8260C
Toluene	78000		1000	25000	ug/Kg	8260C
m,p-Xylenes	65000		1000	25000	ug/Kg	8260C
o-Xylene	17000	J	1000	25000	ug/Kg	8260C
2,4-Dimethylphenol	280000	J	160000	1100000	ug/Kg	8270D
2-Methylnaphthalene	3100000		140000	1100000	ug/Kg	8270D
2-Methylphenol	480000	J	110000	1100000	ug/Kg	8270D
3- and 4-Methylphenol Coelution	1000000	J	130000	1100000	ug/Kg	8270D
Acenaphthene	290000	J	160000	1100000	ug/Kg	8270D
Acenaphthylene	2700000		160000	1100000	ug/Kg	8270D
Anthracene	1700000		140000	1100000	ug/Kg	8270D
Benz(a)anthracene	1700000		180000	1100000	ug/Kg	8270D
Benzo(a)pyrene	2000000		130000	1100000	ug/Kg	8270D
Benzo(b)fluoranthene	2100000		130000	1100000	ug/Kg	8270D
Benzo(g,h,i)perylene	1000000	J	110000	1100000	ug/Kg	8270D
Benzo(k)fluoranthene	630000	J	140000	1100000	ug/Kg	8270D
Biphenyl	430000	J	160000	1100000	ug/Kg	8270D

SAMPLE DETECTION SUMMARY

CLIENT ID: TK-SD-ST23-09102021			Lab ID: R2109413-002			
Analyte	Results	Flag	MDL	MRL	Units	Method
Carbazole	1200000		180000	1100000	ug/Kg	8270D
Chrysene	1900000		130000	1100000	ug/Kg	8270D
Dibenz(a,h)anthracene	220000	J	120000	1100000	ug/Kg	8270D
Dibenzofuran	1600000		160000	1100000	ug/Kg	8270D
Fluoranthene	5900000		170000	1100000	ug/Kg	8270D
Fluorene	2600000		140000	1100000	ug/Kg	8270D
Indeno(1,2,3-cd)pyrene	1100000		200000	1100000	ug/Kg	8270D
Naphthalene	15000000	E	130000	1100000	ug/Kg	8270D
Phenanthrene	8600000		160000	1100000	ug/Kg	8270D
Phenol	910000	J	110000	1100000	ug/Kg	8270D
Pyrene	4400000		170000	1100000	ug/Kg	8270D
2-Methylnaphthalene	3100000		280000	2200000	ug/Kg	8270D
2-Methylphenol	430000	J	220000	2200000	ug/Kg	8270D
3- and 4-Methylphenol Coelution	870000	J	260000	2200000	ug/Kg	8270D
Acenaphthylene	2700000		310000	2200000	ug/Kg	8270D
Anthracene	1600000	J	280000	2200000	ug/Kg	8270D
Benz(a)anthracene	1800000	J	350000	2200000	ug/Kg	8270D
Benzo(a)pyrene	2000000	J	260000	2200000	ug/Kg	8270D
Benzo(b)fluoranthene	2100000	J	260000	2200000	ug/Kg	8270D
Benzo(g,h,i)perylene	1100000	J	220000	2200000	ug/Kg	8270D
Benzo(k)fluoranthene	620000	J	280000	2200000	ug/Kg	8270D
Biphenyl	450000	J	310000	2200000	ug/Kg	8270D
Carbazole	1200000	J	350000	2200000	ug/Kg	8270D
Chrysene	1900000	J	260000	2200000	ug/Kg	8270D
Dibenzofuran	1500000	J	310000	2200000	ug/Kg	8270D
Fluoranthene	6000000		330000	2200000	ug/Kg	8270D
Fluorene	2600000		280000	2200000	ug/Kg	8270D
Indeno(1,2,3-cd)pyrene	1000000	J	390000	2200000	ug/Kg	8270D
Naphthalene	16000000	D	260000	2200000	ug/Kg	8270D
Phenanthrene	8600000		310000	2200000	ug/Kg	8270D
Phenol	830000	J	220000	2200000	ug/Kg	8270D
Pyrene	4100000		330000	2200000	ug/Kg	8270D



Sample Receipt Information

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

Phone (585) 288-5380 Fax (585) 288-8475

www.alsglobal.com

Client: Inventum Engineering
Project: RITC Tanks

Service Request:R2109413

SAMPLE CROSS-REFERENCE

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
R2109413-001	TK-SD-ST22-09102021	9/10/2021	
R2109413-002	TK-SD-ST23-09102021	9/10/2021	

Project Name RITC		Project Number TANKS		ANALYSIS REQUESTED (Include Method Number and Container Preservative)																													
Project Manager JOHN BLACK		Report CC		PRESERVATIVE																													
Company/Address 481 CARLISLE DR SUITE 202 HERNDON, VA 20170				NUMBER OF CONTAINERS	GC/MS VOAs 8260 & 824 & CLP	GC/MS SVOAs 8270 & 825	GC VOAs 802 & 801/802	PESTICIDES 6081 & 808	PCBs 8082 & 608	METALS, TOTAL & Hg (List in comments below)	METALS, DISSOLVED, Hg (List in comments below)	TOTAL CYANIDE	AMMONIA	CORROSIVITY, SOLIDS	IGNITEABILITY	BTU & FLASHPOINT	TOTAL SULFUR	FULL TCLP	CYANIDES, NITRATE, NITRITE	FLUORIDE, URANIUM	Preservative Key 0. NONE 1. HCL 2. HNO ₃ 3. H ₂ SO ₄ 4. NaOH 5. Zn. Acetate 6. MeOH 7. NaHSO ₄ 8. Other _____												
Phone # 585-734-5255		Email john.black@inventumeng.com																															
Sampler's Signature <i>[Signature]</i>		Sampler's Printed Name RIKIANNE BIRX																															
CLIENT SAMPLE ID		FOR OFFICE USE ONLY LAB ID		DATE		TIME		MATRIX		REMARKS/ ALTERNATE DESCRIPTION SEE ATTACHED PSI PARAMETERS																							
TK-LQ-ST22-09102021				9/10																													
TK-SD-ST22-09102021				9/10																													
TK-LQ-ST23-09102021				9/10																													
TK-SD-ST23-09102021				9/10																													
TK-LQ-ST24-09102021				9/10																													
TK-SD-ST24-09102021				9/10																													
																				SPECIAL INSTRUCTIONS/COMMENTS Metals		TURNAROUND REQUIREMENTS RUSH (SURCHARGES APPLY) _____ 1 day _____ 2 day _____ 3 day _____ 4 day _____ 5 day ☒ Standard (10 business days-No Surcharge) REQUESTED REPORT DATE _____				REPORT REQUIREMENTS I. Results Only II. Results + QC Summaries (LCS, DUP, MS/MSD as required) III. Results + QC and Calibration Summaries ☒ IV. Data Validation Report with Raw Data NYS DEC, HONEYWELL Edata ☒ Yes _____ No				INVOICE INFORMATION PO # _____ BILL TO: _____			
STATE WHERE SAMPLES WERE COLLECTED NY																				RECEIVED BY				RECEIVED BY				RECEIVED BY					
RELINQUISHED BY				RECEIVED BY				RELINQUISHED BY				RECEIVED BY																					
Signature <i>[Signature]</i>				Signature <i>[Signature]</i>				Signature				Signature				Signature																	
Printed Name Keith Ackerley				Printed Name Matthew Mackey				Printed Name				Printed Name				Printed Name																	
Firm Inventum Eng.				Firm ALS				Firm				Firm				Firm																	
Date/Time 9/10/21				Date/Time 9/11/21 9:35				Date/Time				Date/Time				Date/Time																	

R2109413
 Inventum Engineering
 RITC Tanks

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Cooler Receipt and Preservation Check Form

R2109413

Inventum Engineering
RITC Tanks

5

Project/Client RITC Folder Number _____Cooler received on 9/11/21 by: MM COURIER: ALS UPS FEDEX VELOCITY CLIENT

1	Were Custody seals on outside of cooler?	Y <u>N</u>	5a	Perchlorate samples have required headspace?	Y N <u>NA</u>
2	Custody papers properly completed (ink, signed)?	Y <u>N</u>	5b	Did VOA vials, Alk, or Sulfide have sig* bubbles?	Y <u>N</u> NA
3	Did all bottles arrive in good condition (unbroken)?	Y <u>N</u>	6	Where did the bottles originate?	<u>ALS/ROC</u> CLIENT
4	Circle: <u>Wet Ice</u> Dry Ice Gel packs present?	<u>X</u> N	7	Soil VOA received as:	Bulk Encore 5035set <u>NA</u>

8. Temperature Readings Date: 9/11/21 Time: 9:45 ID: IR#7 IR#11 From: Temp Blank Sample Bottle

Observed Temp (°C)	<u>9.7</u>	<u>13.4</u>	<u>10.6</u>				
Within 0-6°C?	Y <u>N</u>	Y <u>N</u>	Y <u>N</u>	Y N	Y N	Y N	Y N
If <0°C, were samples frozen?	Y N	Y N	Y N	Y N	Y N	Y N	Y N

If out of Temperature, note packing/ice condition: Ice melted Poorly Packed (described below) Same Day Rule

& Client Approval to Run Samples: _____ Standing Approval Client aware at drop-off Client notified by: _____

All samples held in storage location: Room by MM on 9/11/21 at 10:15
5035 samples placed in storage location: _____ by _____ on _____ at _____ within 48 hours of sampling? Y NCooler Breakdown/Preservation Check**: Date: 9/14/21 Time: 1319 by: MM

9. Were all bottle labels complete (i.e. analysis, preservation, etc.)? YES NO
10. Did all bottle labels and tags agree with custody papers? YES NO
11. Were correct containers used for the tests indicated? YES NO
12. Were 5035 vials acceptable (no extra labels, not leaking)? YES NO
13. Air Samples: Cassettes / Tubes Intact Y / N with MS Y / N Canisters Pressurized Tedlar® Bags Inflated N/A

pH	Lot of test paper	Reagent	Preserved?		Lot Received	Exp	Sample ID Adjusted	Vol. Added	Lot Added	Final pH
			Yes	No						
≥12		NaOH								
≤2		HNO ₃								
≤2		H ₂ SO ₄								
<4		NaHSO ₄								
5-9		For 608pest			No=Notify for 3day					
Residual Chlorine (-)		For CN, Phenol, 625, 608pest, 522			If +, contact PM to add Na ₂ S ₂ O ₃ (625, 608, CN), ascorbic (phenol).					
		Na ₂ S ₂ O ₃								
		ZnAcetate	-	-						
		HCl	**	**						

**VOAs and 1664 Not to be tested before analysis. Otherwise, all bottles of all samples with chemical preservatives are checked (not just representatives).

Bottle lot numbers: Client inventory, 050401-1SR, 111620-170

Explain all Discrepancies/ Other Comments:

* TK-LQ-ST23-09102021 reactivity has broken cap,

TK-LQ-ST22-09102021 8260 TCLP 1 vial shattered

* Missing 1 NO₂ bottle

HPROD	BULK
HTR	FLDT
<u>SUB</u>	HGFB
ALS	LL3541

Labels secondary reviewed by: MM

PC Secondary Review: _____

*significant air bubbles: VOA > 5-6 mm : WC > 1 in. diameter

Client: Inventum Engineering
Project: RITC Tanks

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
R2109413-001.01					
		9/14/2021	1316	SMO / GESMERIAN	
		9/14/2021	1322	R-002 / GESMERIAN	
R2109413-001.31	ASTM D5291-09,9056,ASTM D4809-06				
		9/14/2021	1316	SMO / GESMERIAN	
		9/14/2021	1322	R-002 / GESMERIAN	
R2109413-001.37	8151A,8081B,8082A,8270D,8270D				
		9/14/2021	1318	SMO / GESMERIAN	
		9/14/2021	1322	R-002 / GESMERIAN	
		9/21/2021	0825	In Lab / VSTAUFFER	
		9/21/2021	1659	R-002 / BALLGEIER	
R2109413-001.38	7471B,6010C,6010C,6010C,6010C,6010C,6010C,6010C,6010C,6010C,6010 C,6010C,6010C,6010C,6010C,6010C,6010C,6010C,6010C,6010C,6010 0C,6010C,6010C				
		9/14/2021	1318	SMO / GESMERIAN	
		9/14/2021	1322	R-002 / GESMERIAN	
		9/15/2021	1132	In Lab / BDIAMOND	
R2109413-001.39					
		9/14/2021	1318	SMO / GESMERIAN	
		9/14/2021	1322	R-002 / GESMERIAN	
R2109413-001.40	350.1M,ASTM E203-01,9012B				
		9/14/2021	1319	SMO / GESMERIAN	
		9/14/2021	1322	R-002 / GESMERIAN	
		9/27/2021	1033	In Lab / AMOSSES	
R2109413-001.41	8260C				
		9/14/2021	1320	SMO / GESMERIAN	
		9/14/2021	1322	R-010 / GESMERIAN	
R2109413-001.42					
		9/14/2021	1320	SMO / GESMERIAN	
		9/14/2021	1322	R-010 / GESMERIAN	
R2109413-001.43					
		9/14/2021	1320	SMO / GESMERIAN	

Client: Inventum Engineering
Project: RITC Tanks

Client: Inventum Engineering
Project: RITC Tanks

Client: Inventum Engineering
Project: RITC Tanks

ALS Group USA, Corp.
dba ALS Environmental
Internal Chain of Custody Report

Client: Inventum Engineering
Project: RITC Tanks

Service Request: R2109413

Bottle ID	Methods	Date	Time	Sample Location / User	Disposed On
		9/14/2021	1322	R-002 / GESMERIAN	
		9/14/2021	1322	SMO / GESMERIAN	
		9/15/2021	1132	In Lab / BDIAMOND	
		9/15/2021	1144	In Lab / BDIAMOND	
R2109413-002.42					
		9/14/2021	1322	R-002 / GESMERIAN	
		9/14/2021	1322	SMO / GESMERIAN	



Miscellaneous Forms

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

Phone (585) 288-5380 Fax (585) 288-8475

www.alsglobal.com

REPORT QUALIFIERS AND DEFINITIONS

U	Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.	+	Correlation coefficient for MSA is <0.995.
J	Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Aroclors).	N	Inorganics- Matrix spike recovery was outside laboratory limits.
B	Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.	N	Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.
E	Inorganics- Concentration is estimated due to the serial dilution was outside control limits.	S	Concentration has been determined using Method of Standard Additions (MSA).
E	Organics- Concentration has exceeded the calibration range for that specific analysis.	W	Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.
D	Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.	P	Concentration >40% difference between the two GC columns.
*	Indicates that a quality control parameter has exceeded laboratory limits. Under the "Notes" column of the Form I, this qualifier denotes analysis was performed out of Holding Time.	C	Confirmed by GC/MS
H	Analysis was performed out of hold time for tests that have an "immediate" hold time criteria.	Q	DoD reports: indicates a pesticide/Aroclor is not confirmed ($\geq 100\%$ Difference between two GC columns).
#	Spike was diluted out.	X	See Case Narrative for discussion.
		MRL	Method Reporting Limit. Also known as:
		LOQ	Limit of Quantitation (LOQ) The lowest concentration at which the method analyte may be reliably quantified under the method conditions.
		MDL	Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).
		LOD	Limit of Detection. A value at or above the MDL which has been verified to be detectable.
		ND	Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.

Rochester Lab ID # for State Accreditations¹



NELAP States
Florida ID # E87674
New Hampshire ID # 2941
New York ID # 10145
Pennsylvania ID# 68-786
Virginia #460167

Non-NELAP States
Connecticut ID #PH0556
Delaware Approved
Maine ID #NY01587
North Carolina #36701
North Carolina #676
Rhode Island LAO00333

¹ Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the case narrative. Since not all analyte/method/matrix combinations are offered for state/NELAC accreditation, this report may contain results which are not accredited. For a specific list of accredited analytes, contact the laboratory or go to <https://www.alsglobal.com/locations/americas/north-america/usa/new-york/rochester-environmental>

ALS Laboratory Group

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Client: Inventum Engineering
Project: RITC Tanks

Service Request: R2109413

Non-Certified Analytes

Certifying Agency: New York Department of Health

Method	Matrix	Analyte
350.1M	Waste	Ammonia as Nitrogen, undistilled
6010C	Waste	Aluminum, Total
6010C	Waste	Antimony, Total
6010C	Waste	Arsenic, Total
6010C	Waste	Barium, Total
6010C	Waste	Beryllium, Total
6010C	Waste	Boron, Total
6010C	Waste	Cadmium, Total
6010C	Waste	Calcium, Total
6010C	Waste	Chromium, Total
6010C	Waste	Cobalt, Total
6010C	Waste	Copper, Total
6010C	Waste	Iron, Total
6010C	Waste	Lead, Total
6010C	Waste	Magnesium, Total
6010C	Waste	Manganese, Total
6010C	Waste	Molybdenum, Total
6010C	Waste	Nickel, Total
6010C	Waste	Potassium, Total
6010C	Waste	Selenium, Total
6010C	Waste	Silver, Total
6010C	Waste	Sodium, Total
6010C	Waste	Thallium, Total
6010C	Waste	Tin, Total
6010C	Waste	Vanadium, Total
6010C	Waste	Zinc, Total
7471B	Waste	Mercury, Total
8081B	Waste	4,4'-DDD
8081B	Waste	4,4'-DDE
8081B	Waste	4,4'-DDT
8081B	Waste	Aldrin
8081B	Waste	Dieldrin
8081B	Waste	Endosulfan I
8081B	Waste	Endosulfan II
8081B	Waste	Endosulfan Sulfate
8081B	Waste	Endrin
8081B	Waste	Endrin Aldehyde
8081B	Waste	Endrin Ketone
8081B	Waste	Heptachlor
8081B	Waste	Heptachlor Epoxide
8081B	Waste	Methoxychlor
8081B	Waste	Toxaphene
8081B	Waste	alpha-BHC
8081B	Waste	alpha-Chlordane
8081B	Waste	beta-BHC
8081B	Waste	delta-BHC
8081B	Waste	gamma-BHC (Lindane)

Client: Inventum Engineering
Project: RITC Tanks

Service Request: R2109413

Non-Certified Analytes

Certifying Agency: New York Department of Health

Method	Matrix	Analyte
8081B	Waste	gamma-Chlordane
8082A	Waste	Aroclor 1016
8082A	Waste	Aroclor 1221
8082A	Waste	Aroclor 1232
8082A	Waste	Aroclor 1242
8082A	Waste	Aroclor 1248
8082A	Waste	Aroclor 1254
8082A	Waste	Aroclor 1260
8151A	Waste	2,4,5-T
8151A	Waste	2,4,5-TP
8151A	Waste	2,4-D
8151A	Waste	Dicamba
8260C	Waste	1,1,1-Trichloroethane (TCA)
8260C	Waste	1,1,2,2-Tetrachloroethane
8260C	Waste	1,1,2-Trichloro-1,2,2-trifluoroethane
8260C	Waste	1,1,2-Trichloroethane
8260C	Waste	1,1-Dichloroethane (1,1-DCA)
8260C	Waste	1,1-Dichloroethene (1,1-DCE)
8260C	Waste	1,2,3-Trichlorobenzene
8260C	Waste	1,2,4-Trichlorobenzene
8260C	Waste	1,2-Dibromo-3-chloropropane (DBCP)
8260C	Waste	1,2-Dibromoethane
8260C	Waste	1,2-Dichlorobenzene
8260C	Waste	1,2-Dichloroethane
8260C	Waste	1,2-Dichloropropane
8260C	Waste	1,3-Dichlorobenzene
8260C	Waste	1,4-Dichlorobenzene
8260C	Waste	1,4-Dioxane
8260C	Waste	2-Butanone (MEK)
8260C	Waste	2-Hexanone
8260C	Waste	4-Methyl-2-pentanone
8260C	Waste	Acetone
8260C	Waste	Benzene
8260C	Waste	Bromochloromethane
8260C	Waste	Bromodichloromethane
8260C	Waste	Bromoform
8260C	Waste	Bromomethane
8260C	Waste	Carbon Disulfide
8260C	Waste	Carbon Tetrachloride
8260C	Waste	Chlorobenzene
8260C	Waste	Chloroethane
8260C	Waste	Chloroform
8260C	Waste	Chloromethane
8260C	Waste	Cyclohexane
8260C	Waste	Dibromochloromethane
8260C	Waste	Dichlorodifluoromethane (CFC 12)
8260C	Waste	Dichloromethane

Client: Inventum Engineering
Project: RITC Tanks

Service Request: R2109413

Non-Certified Analytes

Certifying Agency: New York Department of Health

Method	Matrix	Analyte
8260C	Waste	Ethylbenzene
8260C	Waste	Isopropylbenzene (Cumene)
8260C	Waste	Methyl Acetate
8260C	Waste	Methyl tert-Butyl Ether
8260C	Waste	Methylcyclohexane
8260C	Waste	Styrene
8260C	Waste	Tetrachloroethene (PCE)
8260C	Waste	Toluene
8260C	Waste	Trichloroethene (TCE)
8260C	Waste	Trichlorofluoromethane (CFC 11)
8260C	Waste	Vinyl Chloride
8260C	Waste	cis-1,2-Dichloroethene
8260C	Waste	cis-1,3-Dichloropropene
8260C	Waste	m,p-Xylenes
8260C	Waste	o-Xylene
8260C	Waste	trans-1,2-Dichloroethene
8260C	Waste	trans-1,3-Dichloropropene
8270D	Waste	1,2,4,5-Tetrachlorobenzene
8270D	Waste	2,2'-Oxybis(1-chloropropane)
8270D	Waste	2,3,4,6-Tetrachlorophenol
8270D	Waste	2,4,5-Trichlorophenol
8270D	Waste	2,4,6-Trichlorophenol
8270D	Waste	2,4-Dichlorophenol
8270D	Waste	2,4-Dimethylphenol
8270D	Waste	2,4-Dinitrophenol
8270D	Waste	2,4-Dinitrotoluene
8270D	Waste	2,6-Dinitrotoluene
8270D	Waste	2-Chloronaphthalene
8270D	Waste	2-Chlorophenol
8270D	Waste	2-Methylnaphthalene
8270D	Waste	2-Methylphenol
8270D	Waste	2-Nitroaniline
8270D	Waste	2-Nitrophenol
8270D	Waste	3,3'-Dichlorobenzidine
8270D	Waste	3- and 4-Methylphenol Coelution
8270D	Waste	3-Nitroaniline
8270D	Waste	4,6-Dinitro-2-methylphenol
8270D	Waste	4-Bromophenyl Phenyl Ether
8270D	Waste	4-Chloro-3-methylphenol
8270D	Waste	4-Chloroaniline
8270D	Waste	4-Chlorophenyl Phenyl Ether
8270D	Waste	4-Nitroaniline
8270D	Waste	4-Nitrophenol
8270D	Waste	Acenaphthene
8270D	Waste	Acenaphthylene
8270D	Waste	Acetophenone
8270D	Waste	Anthracene

Client: Inventum Engineering
Project: RITC Tanks

Service Request: R2109413

Non-Certified Analytes

Certifying Agency: New York Department of Health

Method	Matrix	Analyte
8270D	Waste	Atrazine
8270D	Waste	Benz(a)anthracene
8270D	Waste	Benzaldehyde
8270D	Waste	Benzo(a)pyrene
8270D	Waste	Benzo(b)fluoranthene
8270D	Waste	Benzo(g,h,i)perylene
8270D	Waste	Benzo(k)fluoranthene
8270D	Waste	Biphenyl
8270D	Waste	Bis(2-chloroethoxy)methane
8270D	Waste	Bis(2-chloroethyl) Ether
8270D	Waste	Bis(2-ethylhexyl) Phthalate
8270D	Waste	Butyl Benzyl Phthalate
8270D	Waste	Caprolactam
8270D	Waste	Carbazole
8270D	Waste	Chrysene
8270D	Waste	Di-n-butyl Phthalate
8270D	Waste	Di-n-octyl Phthalate
8270D	Waste	Dibenz(a,h)anthracene
8270D	Waste	Dibenzofuran
8270D	Waste	Diethyl Phthalate
8270D	Waste	Dimethyl Phthalate
8270D	Waste	Fluoranthene
8270D	Waste	Fluorene
8270D	Waste	Hexachlorobenzene
8270D	Waste	Hexachlorobutadiene
8270D	Waste	Hexachlorocyclopentadiene
8270D	Waste	Hexachloroethane
8270D	Waste	Indeno(1,2,3-cd)pyrene
8270D	Waste	Isophorone
8270D	Waste	N-Nitrosodi-n-propylamine
8270D	Waste	N-Nitrosodiphenylamine
8270D	Waste	Naphthalene
8270D	Waste	Nitrobenzene
8270D	Waste	Pentachlorophenol (PCP)
8270D	Waste	Phenanthrene
8270D	Waste	Phenol
8270D	Waste	Pyrene
9012B	Waste	Cyanide, Total
ASTM E203-01	Waste	Water

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Analyst Summary report

Client: Inventum Engineering
Project: RITC Tanks/

Service Request: R2109413

Sample Name: TK-SD-ST22-09102021
Lab Code: R2109413-001
Sample Matrix: Waste

Date Collected: 09/10/21
Date Received: 09/11/21

Analysis Method	Extracted/Digested By	Analyzed By
350.1M	MROGERSON	MROGERSON
6010C	BDIAMOND	KMCLAEN
7471B	NMANSEN	NMANSEN
8081B	AMOSSES	AMOSSES
8082A	AMOSSES	AMOSSES
8151A	KSERCU	AMOSSES
8260C		FNAEGLER
8270D	VSTAUFFER	JMISIUREWICZ
9012B	CKUTZER	MROGERSON
9056		LPORTER
ASTM D4809-06		LPORTER
ASTM D5291-09		WHYATT
ASTM E203-01		CWOODS

Sample Name: TK-SD-ST22-09102021
Lab Code: R2109413-001.R01
Sample Matrix: Waste

Date Collected: 09/10/21
Date Received: 09/11/21

Analysis Method	Extracted/Digested By	Analyzed By
8270D	VSTAUFFER	JMISIUREWICZ

Sample Name: TK-SD-ST23-09102021
Lab Code: R2109413-002
Sample Matrix: Waste

Date Collected: 09/10/21
Date Received: 09/11/21

Analysis Method	Extracted/Digested By	Analyzed By
350.1M	MROGERSON	MROGERSON
6010C	BDIAMOND	KMCLAEN
7471B	NMANSEN	NMANSEN
8081B	AMOSSES	AMOSSES
8082A	AMOSSES	AMOSSES
8151A	KSERCU	AMOSSES

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Analyst Summary report

Client: Inventum Engineering
Project: RITC Tanks/

Service Request: R2109413

Sample Name: TK-SD-ST23-09102021
Lab Code: R2109413-002
Sample Matrix: Waste

Date Collected: 09/10/21**Date Received:** 09/11/21**Analysis Method**

8260C
8270D
9012B
9056

Extracted/Digested By

VSTAUFFER
CKUTZER

Analyzed By

FNAEGLER
JMISIUREWICZ
MROGERSON
LPORTER

ASTM D4809-06
ASTM D5291-09
ASTM E203-01

LPORTER
WHYATT
CWOODS

Sample Name: TK-SD-ST23-09102021
Lab Code: R2109413-002.R01
Sample Matrix: Waste

Date Collected: 09/10/21**Date Received:** 09/11/21**Analysis Method**

8270D

Extracted/Digested By

VSTAUFFER

Analyzed By

JMISIUREWICZ



INORGANIC PREPARATION METHODS

The preparation methods associated with this report are found in these tables unless discussed in the case narrative.

Water/Liquid Matrix

Analytical Method	Preparation Method
200.7	200.2
200.8	200.2
6010C	3005A/3010A
6020A	ILM05.3
9034 Sulfide Acid Soluble	9030B
SM 4500-CN-E Residual Cyanide	SM 4500-CN-G
SM 4500-CN-E WAD Cyanide	SM 4500-CN-I

Solid/Soil/Non-Aqueous Matrix

Analytical Method	Preparation Method
6010C	3050B
6020A	3050B
6010C TCLP (1311) extract	3005A/3010A
6010 SPLP (1312) extract	3005A/3010A
7199	3060A
300.0 Anions/ 350.1/ 353.2/ SM 2320B/ SM 5210B/ 9056A Anions	DI extraction
For analytical methods not listed, the preparation method is the same as the analytical method reference.	



Sample Results

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Volatile Organic Compounds by GC/MS

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ALS Group USA, Corp.
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Analytical Report

Client: Inventum Engineering
Project: RITC Tanks
Sample Matrix: Waste

Service Request: R2109413
Date Collected: 09/10/21
Date Received: 09/11/21 09:35

Sample Name: TK-SD-ST22-09102021
Lab Code: R2109413-001

Units: ug/Kg
Basis: As Received

Volatile Organic Compounds by GC/MS, Unpreserved

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1000 U	25000	1000	5000	09/20/21 14:36	
1,1,2,2-Tetrachloroethane	1000 U	25000	1000	5000	09/20/21 14:36	
1,1,2-Trichloroethane	1000 U	25000	1000	5000	09/20/21 14:36	
1,1,2-Trichloro-1,2,2-trifluoroethane	1000 U	25000	1000	5000	09/20/21 14:36	
1,1-Dichloroethane (1,1-DCA)	1000 U	25000	1000	5000	09/20/21 14:36	
1,1-Dichloroethene (1,1-DCE)	1000 U	25000	1000	5000	09/20/21 14:36	
1,2,3-Trichlorobenzene	1300 U	25000	1300	5000	09/20/21 14:36	
1,2,4-Trichlorobenzene	1700 U	25000	1700	5000	09/20/21 14:36	
1,2-Dibromo-3-chloropropane (DBCP)	2300 U	25000	2300	5000	09/20/21 14:36	
1,2-Dibromoethane	1000 U	25000	1000	5000	09/20/21 14:36	
1,2-Dichlorobenzene	1000 U	25000	1000	5000	09/20/21 14:36	
1,2-Dichloroethane	1000 U	25000	1000	5000	09/20/21 14:36	
1,2-Dichloropropane	1000 U	25000	1000	5000	09/20/21 14:36	
1,3-Dichlorobenzene	1000 U	25000	1000	5000	09/20/21 14:36	
1,4-Dichlorobenzene	1000 U	25000	1000	5000	09/20/21 14:36	
1,4-Dioxane	65000 U	500000	65000	5000	09/20/21 14:36	
2-Butanone (MEK)	4200 J	50000	3900	5000	09/20/21 14:36	
2-Hexanone	1000 U	50000	1000	5000	09/20/21 14:36	
4-Methyl-2-pentanone	1000 U	50000	1000	5000	09/20/21 14:36	
Acetone	11000 U	50000	11000	5000	09/20/21 14:36	
Benzene	12000 J	25000	1000	5000	09/20/21 14:36	
Bromochloromethane	1000 U	25000	1000	5000	09/20/21 14:36	
Bromodichloromethane	1000 U	25000	1000	5000	09/20/21 14:36	
Bromoform	1300 U	25000	1300	5000	09/20/21 14:36	
Bromomethane	3500 U	25000	3500	5000	09/20/21 14:36	
Carbon Disulfide	2100 U	50000	2100	5000	09/20/21 14:36	
Carbon Tetrachloride	1700 U	25000	1700	5000	09/20/21 14:36	
Chlorobenzene	1000 U	25000	1000	5000	09/20/21 14:36	
Chloroethane	1200 U	25000	1200	5000	09/20/21 14:36	
Chloroform	1200 U	25000	1200	5000	09/20/21 14:36	
Chloromethane	1500 J	25000	1400	5000	09/20/21 14:36	
Cyclohexane	1300 U	50000	1300	5000	09/20/21 14:36	
Dibromochloromethane	1000 U	25000	1000	5000	09/20/21 14:36	
Dichlorodifluoromethane (CFC 12)	1100 U	25000	1100	5000	09/20/21 14:36	
Dichloromethane	3300 U	25000	3300	5000	09/20/21 14:36	
Ethylbenzene	1000 U	25000	1000	5000	09/20/21 14:36	
Isopropylbenzene (Cumene)	1000 U	25000	1000	5000	09/20/21 14:36	
Methyl Acetate	1800 J	50000	1700	5000	09/20/21 14:36	
Methyl tert-Butyl Ether	1000 U	25000	1000	5000	09/20/21 14:36	
Methylcyclohexane	1000 U	50000	1000	5000	09/20/21 14:36	
Styrene	1000 U	25000	1000	5000	09/20/21 14:36	
Tetrachloroethene (PCE)	1100 U	25000	1100	5000	09/20/21 14:36	
Toluene	9700 J	25000	1000	5000	09/20/21 14:36	

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Analytical Report

Client: Inventum Engineering
Project: RITC Tanks
Sample Matrix: Waste

Service Request: R2109413
Date Collected: 09/10/21
Date Received: 09/11/21 09:35

Sample Name: TK-SD-ST22-09102021
Lab Code: R2109413-001

Units: ug/Kg
Basis: As Received

Volatile Organic Compounds by GC/MS, Unpreserved

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	1000 U	25000	1000	5000	09/20/21 14:36	
Trichlorofluoromethane (CFC 11)	1200 U	25000	1200	5000	09/20/21 14:36	
Vinyl Chloride	1000 U	25000	1000	5000	09/20/21 14:36	
cis-1,2-Dichloroethene	1200 U	25000	1200	5000	09/20/21 14:36	
cis-1,3-Dichloropropene	1000 U	25000	1000	5000	09/20/21 14:36	
m,p-Xylenes	10000 J	25000	1000	5000	09/20/21 14:36	
o-Xylene	2400 J	25000	1000	5000	09/20/21 14:36	
trans-1,2-Dichloroethene	1000 U	25000	1000	5000	09/20/21 14:36	
trans-1,3-Dichloropropene	1200 U	25000	1200	5000	09/20/21 14:36	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	93	31 - 154	09/20/21 14:36	
Dibromofluoromethane	92	63 - 138	09/20/21 14:36	
Toluene-d8	95	66 - 138	09/20/21 14:36	

ALS Group USA, Corp.
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Analytical Report

Client: Inventum Engineering
Project: RITC Tanks
Sample Matrix: Waste

Service Request: R2109413
Date Collected: 09/10/21
Date Received: 09/11/21 09:35

Sample Name: TK-SD-ST23-09102021
Lab Code: R2109413-002

Units: ug/Kg
Basis: As Received

Volatile Organic Compounds by GC/MS, Unpreserved

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1000 U	25000	1000	5000	09/20/21 14:59	
1,1,2,2-Tetrachloroethane	1000 U	25000	1000	5000	09/20/21 14:59	
1,1,2-Trichloroethane	1000 U	25000	1000	5000	09/20/21 14:59	
1,1,2-Trichloro-1,2,2-trifluoroethane	1000 U	25000	1000	5000	09/20/21 14:59	
1,1-Dichloroethane (1,1-DCA)	1000 U	25000	1000	5000	09/20/21 14:59	
1,1-Dichloroethene (1,1-DCE)	1000 U	25000	1000	5000	09/20/21 14:59	
1,2,3-Trichlorobenzene	1300 U	25000	1300	5000	09/20/21 14:59	
1,2,4-Trichlorobenzene	1700 U	25000	1700	5000	09/20/21 14:59	
1,2-Dibromo-3-chloropropane (DBCP)	2300 U	25000	2300	5000	09/20/21 14:59	
1,2-Dibromoethane	1000 U	25000	1000	5000	09/20/21 14:59	
1,2-Dichlorobenzene	1000 U	25000	1000	5000	09/20/21 14:59	
1,2-Dichloroethane	1000 U	25000	1000	5000	09/20/21 14:59	
1,2-Dichloropropane	1000 U	25000	1000	5000	09/20/21 14:59	
1,3-Dichlorobenzene	1000 U	25000	1000	5000	09/20/21 14:59	
1,4-Dichlorobenzene	1000 U	25000	1000	5000	09/20/21 14:59	
1,4-Dioxane	65000 U	500000	65000	5000	09/20/21 14:59	
2-Butanone (MEK)	4300 J	50000	3900	5000	09/20/21 14:59	
2-Hexanone	1000 U	50000	1000	5000	09/20/21 14:59	
4-Methyl-2-pentanone	1000 U	50000	1000	5000	09/20/21 14:59	
Acetone	11000 U	50000	11000	5000	09/20/21 14:59	
Benzene	110000	25000	1000	5000	09/20/21 14:59	
Bromochloromethane	1000 U	25000	1000	5000	09/20/21 14:59	
Bromodichloromethane	1000 U	25000	1000	5000	09/20/21 14:59	
Bromoform	1300 U	25000	1300	5000	09/20/21 14:59	
Bromomethane	3500 U	25000	3500	5000	09/20/21 14:59	
Carbon Disulfide	2100 U	50000	2100	5000	09/20/21 14:59	
Carbon Tetrachloride	1700 U	25000	1700	5000	09/20/21 14:59	
Chlorobenzene	1000 U	25000	1000	5000	09/20/21 14:59	
Chloroethane	1200 U	25000	1200	5000	09/20/21 14:59	
Chloroform	1200 U	25000	1200	5000	09/20/21 14:59	
Chloromethane	1900 J	25000	1400	5000	09/20/21 14:59	
Cyclohexane	1300 U	50000	1300	5000	09/20/21 14:59	
Dibromochloromethane	1000 U	25000	1000	5000	09/20/21 14:59	
Dichlorodifluoromethane (CFC 12)	1100 U	25000	1100	5000	09/20/21 14:59	
Dichloromethane	3300 U	25000	3300	5000	09/20/21 14:59	
Ethylbenzene	4100 J	25000	1000	5000	09/20/21 14:59	
Isopropylbenzene (Cumene)	1000 U	25000	1000	5000	09/20/21 14:59	
Methyl Acetate	1700 J	50000	1700	5000	09/20/21 14:59	
Methyl tert-Butyl Ether	1000 U	25000	1000	5000	09/20/21 14:59	
Methylcyclohexane	1000 U	50000	1000	5000	09/20/21 14:59	
Styrene	11000 J	25000	1000	5000	09/20/21 14:59	
Tetrachloroethene (PCE)	1100 U	25000	1100	5000	09/20/21 14:59	
Toluene	78000	25000	1000	5000	09/20/21 14:59	

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Analytical Report

Client: Inventum Engineering
Project: RITC Tanks
Sample Matrix: Waste

Service Request: R2109413
Date Collected: 09/10/21
Date Received: 09/11/21 09:35

Sample Name: TK-SD-ST23-09102021
Lab Code: R2109413-002

Units: ug/Kg
Basis: As Received

Volatile Organic Compounds by GC/MS, Unpreserved

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	1000 U	25000	1000	5000	09/20/21 14:59	
Trichlorofluoromethane (CFC 11)	1200 U	25000	1200	5000	09/20/21 14:59	
Vinyl Chloride	1000 U	25000	1000	5000	09/20/21 14:59	
cis-1,2-Dichloroethene	1200 U	25000	1200	5000	09/20/21 14:59	
cis-1,3-Dichloropropene	1000 U	25000	1000	5000	09/20/21 14:59	
m,p-Xylenes	65000	25000	1000	5000	09/20/21 14:59	
o-Xylene	17000 J	25000	1000	5000	09/20/21 14:59	
trans-1,2-Dichloroethene	1000 U	25000	1000	5000	09/20/21 14:59	
trans-1,3-Dichloropropene	1200 U	25000	1200	5000	09/20/21 14:59	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	94	31 - 154	09/20/21 14:59	
Dibromofluoromethane	91	63 - 138	09/20/21 14:59	
Toluene-d8	95	66 - 138	09/20/21 14:59	



Semivolatile Organic Compounds by GC/MS

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Analytical Report

Client: Inventum Engineering
Project: RITC Tanks
Sample Matrix: Waste

Service Request: R2109413
Date Collected: 09/10/21
Date Received: 09/11/21 09:35

Sample Name: TK-SD-ST22-09102021
Lab Code: R2109413-001

Units: ug/Kg
Basis: As Received

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3580A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4,5-Tetrachlorobenzene	130000 U	1000000	130000	10	10/06/21 21:26	10/6/21	
2,3,4,6-Tetrachlorophenol	130000 U	1000000	130000	10	10/06/21 21:26	10/6/21	
2,4,5-Trichlorophenol	120000 U	1000000	120000	10	10/06/21 21:26	10/6/21	
2,4,6-Trichlorophenol	150000 U	1000000	150000	10	10/06/21 21:26	10/6/21	
2,4-Dichlorophenol	140000 U	1000000	140000	10	10/06/21 21:26	10/6/21	
2,4-Dimethylphenol	150000 U	1000000	150000	10	10/06/21 21:26	10/6/21	
2,4-Dinitrophenol	2100000 U	5200000	2100000	10	10/06/21 21:26	10/6/21	
2,4-Dinitrotoluene	260000 U	1000000	260000	10	10/06/21 21:26	10/6/21	
2,6-Dinitrotoluene	150000 U	1000000	150000	10	10/06/21 21:26	10/6/21	
2-Chloronaphthalene	150000 U	1000000	150000	10	10/06/21 21:26	10/6/21	
2-Chlorophenol	120000 U	1000000	120000	10	10/06/21 21:26	10/6/21	
2-Methylnaphthalene	4400000	1000000	140000	10	10/06/21 21:26	10/6/21	
2-Methylphenol	310000 J	1000000	110000	10	10/06/21 21:26	10/6/21	
2-Nitroaniline	150000 U	5200000	150000	10	10/06/21 21:26	10/6/21	
2-Nitrophenol	160000 U	1000000	160000	10	10/06/21 21:26	10/6/21	
3,3'-Dichlorobenzidine	130000 U	1000000	130000	10	10/06/21 21:26	10/6/21	
3- and 4-Methylphenol Coelution	950000 J	1000000	130000	10	10/06/21 21:26	10/6/21	
3-Nitroaniline	120000 U	5200000	120000	10	10/06/21 21:26	10/6/21	
4,6-Dinitro-2-methylphenol	910000 U	5200000	910000	10	10/06/21 21:26	10/6/21	
4-Bromophenyl Phenyl Ether	180000 U	1000000	180000	10	10/06/21 21:26	10/6/21	
4-Chloro-3-methylphenol	120000 U	1000000	120000	10	10/06/21 21:26	10/6/21	
4-Chloroaniline	110000 U	1000000	110000	10	10/06/21 21:26	10/6/21	
4-Chlorophenyl Phenyl Ether	160000 U	1000000	160000	10	10/06/21 21:26	10/6/21	
4-Nitroaniline	150000 U	5200000	150000	10	10/06/21 21:26	10/6/21	
4-Nitrophenol	670000 U	5200000	670000	10	10/06/21 21:26	10/6/21	
Acenaphthene	1500000	1000000	150000	10	10/06/21 21:26	10/6/21	
Acenaphthylene	1300000	1000000	150000	10	10/06/21 21:26	10/6/21	
Acetophenone	140000 U	1000000	140000	10	10/06/21 21:26	10/6/21	
Anthracene	4900000	1000000	140000	10	10/06/21 21:26	10/6/21	
Atrazine	220000 U	1000000	220000	10	10/06/21 21:26	10/6/21	
Benz(a)anthracene	10000000	1000000	170000	10	10/06/21 21:26	10/6/21	
Benzaldehyde	110000 U	5200000	110000	10	10/06/21 21:26	10/6/21	
Benzo(a)pyrene	14000000 E	1000000	130000	10	10/06/21 21:26	10/6/21	
Benzo(b)fluoranthene	15000000 E	1000000	130000	10	10/06/21 21:26	10/6/21	
Benzo(g,h,i)perylene	8100000	1000000	110000	10	10/06/21 21:26	10/6/21	
Benzo(k)fluoranthene	4400000	1000000	140000	10	10/06/21 21:26	10/6/21	
Biphenyl	1100000	1000000	150000	10	10/06/21 21:26	10/6/21	
2,2'-Oxybis(1-chloropropane)	150000 U	1000000	150000	10	10/06/21 21:26	10/6/21	
Bis(2-chloroethoxy)methane	200000 U	1000000	200000	10	10/06/21 21:26	10/6/21	
Bis(2-chloroethyl) Ether	140000 U	1000000	140000	10	10/06/21 21:26	10/6/21	
Bis(2-ethylhexyl) Phthalate	820000 U	1000000	820000	10	10/06/21 21:26	10/6/21	
Butyl Benzyl Phthalate	150000 U	1000000	150000	10	10/06/21 21:26	10/6/21	
Caprolactam	110000 U	1000000	110000	10	10/06/21 21:26	10/6/21	

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Analytical Report

Client: Inventum Engineering
Project: RITC Tanks
Sample Matrix: Waste

Service Request: R2109413
Date Collected: 09/10/21
Date Received: 09/11/21 09:35

Sample Name: TK-SD-ST22-09102021
Lab Code: R2109413-001

Units: ug/Kg
Basis: As Received

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3580A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Carbazole	5900000	1000000	170000	10	10/06/21 21:26	10/6/21	
Chrysene	12000000 E	1000000	130000	10	10/06/21 21:26	10/6/21	
Di-n-butyl Phthalate	180000 U	1000000	180000	10	10/06/21 21:26	10/6/21	
Di-n-octyl Phthalate	350000 U	1000000	350000	10	10/06/21 21:26	10/6/21	
Dibenz(a,h)anthracene	1600000	1000000	120000	10	10/06/21 21:26	10/6/21	
Dibenzofuran	5600000	1000000	150000	10	10/06/21 21:26	10/6/21	
Diethyl Phthalate	120000 U	1000000	120000	10	10/06/21 21:26	10/6/21	
Dimethyl Phthalate	140000 U	1000000	140000	10	10/06/21 21:26	10/6/21	
Fluoranthene	31000000 E	1000000	160000	10	10/06/21 21:26	10/6/21	
Fluorene	9400000	1000000	140000	10	10/06/21 21:26	10/6/21	
Hexachlorobenzene	170000 U	1000000	170000	10	10/06/21 21:26	10/6/21	
Hexachlorobutadiene	110000 U	1000000	110000	10	10/06/21 21:26	10/6/21	
Hexachlorocyclopentadiene	230000 U	1000000	230000	10	10/06/21 21:26	10/6/21	
Hexachloroethane	120000 U	1000000	120000	10	10/06/21 21:26	10/6/21	
Indeno(1,2,3-cd)pyrene	8400000	1000000	190000	10	10/06/21 21:26	10/6/21	
Isophorone	150000 U	1000000	150000	10	10/06/21 21:26	10/6/21	
N-Nitrosodi-n-propylamine	130000 U	1000000	130000	10	10/06/21 21:26	10/6/21	
N-Nitrosodiphenylamine	290000 U	1000000	290000	10	10/06/21 21:26	10/6/21	
Naphthalene	31000000 E	1000000	130000	10	10/06/21 21:26	10/6/21	
Nitrobenzene	160000 U	1000000	160000	10	10/06/21 21:26	10/6/21	
Pentachlorophenol (PCP)	1100000 U	5200000	1100000	10	10/06/21 21:26	10/6/21	
Phenanthrene	34000000 E	1000000	150000	10	10/06/21 21:26	10/6/21	
Phenol	930000 J	1000000	110000	10	10/06/21 21:26	10/6/21	
Pyrene	24000000 E	1000000	160000	10	10/06/21 21:26	10/6/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	65	10 - 180	10/06/21 21:26	
2-Fluorobiphenyl	91	49 - 157	10/06/21 21:26	
2-Fluorophenol	89	59 - 113	10/06/21 21:26	
Nitrobenzene-d5	92	66 - 143	10/06/21 21:26	
Phenol-d6	90	35 - 125	10/06/21 21:26	
Terphenyl-d14	114	72 - 172	10/06/21 21:26	

ALS Group USA, Corp.
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Analytical Report

Client: Inventum Engineering
Project: RITC Tanks
Sample Matrix: Waste

Service Request: R2109413
Date Collected: 09/10/21
Date Received: 09/11/21 09:35

Sample Name: TK-SD-ST22-09102021
Lab Code: R2109413-001

Units: ug/Kg
Basis: As Received

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3580A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4,5-Tetrachlorobenzene	630000 U	5200000	630000	50	10/12/21 18:10	10/6/21	
2,3,4,6-Tetrachlorophenol	630000 U	5200000	630000	50	10/12/21 18:10	10/6/21	
2,4,5-Trichlorophenol	580000 U	5200000	580000	50	10/12/21 18:10	10/6/21	
2,4,6-Trichlorophenol	730000 U	5200000	730000	50	10/12/21 18:10	10/6/21	
2,4-Dichlorophenol	680000 U	5200000	680000	50	10/12/21 18:10	10/6/21	
2,4-Dimethylphenol	730000 U	5200000	730000	50	10/12/21 18:10	10/6/21	
2,4-Dinitrophenol	11000000 U	26000000	11000000	50	10/12/21 18:10	10/6/21	
2,4-Dinitrotoluene	1300000 U	5200000	1300000	50	10/12/21 18:10	10/6/21	
2,6-Dinitrotoluene	730000 U	5200000	730000	50	10/12/21 18:10	10/6/21	
2-Chloronaphthalene	730000 U	5200000	730000	50	10/12/21 18:10	10/6/21	
2-Chlorophenol	580000 U	5200000	580000	50	10/12/21 18:10	10/6/21	
2-Methylnaphthalene	4400000 J	5200000	680000	50	10/12/21 18:10	10/6/21	
2-Methylphenol	530000 U	5200000	530000	50	10/12/21 18:10	10/6/21	
2-Nitroaniline	730000 U	26000000	730000	50	10/12/21 18:10	10/6/21	
2-Nitrophenol	790000 U	5200000	790000	50	10/12/21 18:10	10/6/21	
3,3'-Dichlorobenzidine	630000 U	5200000	630000	50	10/12/21 18:10	10/6/21	
3- and 4-Methylphenol Coelution	760000 J	5200000	630000	50	10/12/21 18:10	10/6/21	
3-Nitroaniline	580000 U	26000000	580000	50	10/12/21 18:10	10/6/21	
4,6-Dinitro-2-methylphenol	4600000 U	26000000	4600000	50	10/12/21 18:10	10/6/21	
4-Bromophenyl Phenyl Ether	890000 U	5200000	890000	50	10/12/21 18:10	10/6/21	
4-Chloro-3-methylphenol	580000 U	5200000	580000	50	10/12/21 18:10	10/6/21	
4-Chloroaniline	530000 U	5200000	530000	50	10/12/21 18:10	10/6/21	
4-Chlorophenyl Phenyl Ether	790000 U	5200000	790000	50	10/12/21 18:10	10/6/21	
4-Nitroaniline	730000 U	26000000	730000	50	10/12/21 18:10	10/6/21	
4-Nitrophenol	3400000 U	26000000	3400000	50	10/12/21 18:10	10/6/21	
Acenaphthene	1400000 J	5200000	730000	50	10/12/21 18:10	10/6/21	
Acenaphthylene	1000000 J	5200000	730000	50	10/12/21 18:10	10/6/21	
Acetophenone	680000 U	5200000	680000	50	10/12/21 18:10	10/6/21	
Anthracene	4800000 J	5200000	680000	50	10/12/21 18:10	10/6/21	
Atrazine	1100000 U	5200000	1100000	50	10/12/21 18:10	10/6/21	
Benz(a)anthracene	10000000	5200000	840000	50	10/12/21 18:10	10/6/21	
Benzaldehyde	530000 U	26000000	530000	50	10/12/21 18:10	10/6/21	
Benzo(a)pyrene	13000000 D	5200000	630000	50	10/12/21 18:10	10/6/21	
Benzo(b)fluoranthene	14000000 D	5200000	630000	50	10/12/21 18:10	10/6/21	
Benzo(g,h,i)perylene	8800000	5200000	530000	50	10/12/21 18:10	10/6/21	
Benzo(k)fluoranthene	4200000 J	5200000	680000	50	10/12/21 18:10	10/6/21	
Biphenyl	1100000 J	5200000	730000	50	10/12/21 18:10	10/6/21	
2,2'-Oxybis(1-chloropropane)	730000 U	5200000	730000	50	10/12/21 18:10	10/6/21	
Bis(2-chloroethoxy)methane	990000 U	5200000	990000	50	10/12/21 18:10	10/6/21	
Bis(2-chloroethyl) Ether	680000 U	5200000	680000	50	10/12/21 18:10	10/6/21	
Bis(2-ethylhexyl) Phthalate	4100000 U	5200000	4100000	50	10/12/21 18:10	10/6/21	
Butyl Benzyl Phthalate	730000 U	5200000	730000	50	10/12/21 18:10	10/6/21	
Caprolactam	530000 U	5200000	530000	50	10/12/21 18:10	10/6/21	

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Analytical Report

Client: Inventum Engineering
Project: RITC Tanks
Sample Matrix: Waste

Service Request: R2109413
Date Collected: 09/10/21
Date Received: 09/11/21 09:35

Sample Name: TK-SD-ST22-09102021
Lab Code: R2109413-001

Units: ug/Kg
Basis: As Received

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3580A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Carbazole	5400000	5200000	840000	50	10/12/21 18:10	10/6/21	
Chrysene	12000000 D	5200000	630000	50	10/12/21 18:10	10/6/21	
Di-n-butyl Phthalate	890000 U	5200000	890000	50	10/12/21 18:10	10/6/21	
Di-n-octyl Phthalate	1800000 U	5200000	1800000	50	10/12/21 18:10	10/6/21	
Dibenz(a,h)anthracene	1400000 J	5200000	580000	50	10/12/21 18:10	10/6/21	
Dibenzofuran	5600000	5200000	730000	50	10/12/21 18:10	10/6/21	
Diethyl Phthalate	580000 U	5200000	580000	50	10/12/21 18:10	10/6/21	
Dimethyl Phthalate	680000 U	5200000	680000	50	10/12/21 18:10	10/6/21	
Fluoranthene	34000000 D	5200000	790000	50	10/12/21 18:10	10/6/21	
Fluorene	9500000	5200000	680000	50	10/12/21 18:10	10/6/21	
Hexachlorobenzene	840000 U	5200000	840000	50	10/12/21 18:10	10/6/21	
Hexachlorobutadiene	530000 U	5200000	530000	50	10/12/21 18:10	10/6/21	
Hexachlorocyclopentadiene	1200000 U	5200000	1200000	50	10/12/21 18:10	10/6/21	
Hexachloroethane	580000 U	5200000	580000	50	10/12/21 18:10	10/6/21	
Indeno(1,2,3-cd)pyrene	8500000	5200000	940000	50	10/12/21 18:10	10/6/21	
Isophorone	730000 U	5200000	730000	50	10/12/21 18:10	10/6/21	
N-Nitrosodi-n-propylamine	630000 U	5200000	630000	50	10/12/21 18:10	10/6/21	
N-Nitrosodiphenylamine	1500000 U	5200000	1500000	50	10/12/21 18:10	10/6/21	
Naphthalene	41000000 D	5200000	630000	50	10/12/21 18:10	10/6/21	
Nitrobenzene	790000 U	5200000	790000	50	10/12/21 18:10	10/6/21	
Pentachlorophenol (PCP)	5100000 U	26000000	5100000	50	10/12/21 18:10	10/6/21	
Phenanthrene	40000000 D	5200000	730000	50	10/12/21 18:10	10/6/21	
Phenol	820000 J	5200000	530000	50	10/12/21 18:10	10/6/21	
Pyrene	24000000 D	5200000	790000	50	10/12/21 18:10	10/6/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	0 *	10 - 180	10/12/21 18:10	D
2-Fluorobiphenyl	0 *	49 - 157	10/12/21 18:10	D
2-Fluorophenol	0 *	59 - 113	10/12/21 18:10	D
Nitrobenzene-d5	0 *	66 - 143	10/12/21 18:10	D
Phenol-d6	0 *	35 - 125	10/12/21 18:10	D
Terphenyl-d14	0 *	72 - 172	10/12/21 18:10	D

ALS Group USA, Corp.
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Analytical Report

Client: Inventum Engineering
Project: RITC Tanks
Sample Matrix: Waste

Service Request: R2109413
Date Collected: 09/10/21
Date Received: 09/11/21 09:35

Sample Name: TK-SD-ST23-09102021
Lab Code: R2109413-002

Units: ug/Kg
Basis: As Received

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3580A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4,5-Tetrachlorobenzene	130000 U	1100000	130000	10	10/06/21 21:54	10/6/21	
2,3,4,6-Tetrachlorophenol	130000 U	1100000	130000	10	10/06/21 21:54	10/6/21	
2,4,5-Trichlorophenol	120000 U	1100000	120000	10	10/06/21 21:54	10/6/21	
2,4,6-Trichlorophenol	160000 U	1100000	160000	10	10/06/21 21:54	10/6/21	
2,4-Dichlorophenol	140000 U	1100000	140000	10	10/06/21 21:54	10/6/21	
2,4-Dimethylphenol	280000 J	1100000	160000	10	10/06/21 21:54	10/6/21	
2,4-Dinitrophenol	2200000 U	5400000	2200000	10	10/06/21 21:54	10/6/21	
2,4-Dinitrotoluene	260000 U	1100000	260000	10	10/06/21 21:54	10/6/21	
2,6-Dinitrotoluene	160000 U	1100000	160000	10	10/06/21 21:54	10/6/21	
2-Chloronaphthalene	160000 U	1100000	160000	10	10/06/21 21:54	10/6/21	
2-Chlorophenol	120000 U	1100000	120000	10	10/06/21 21:54	10/6/21	
2-Methylnaphthalene	3100000	1100000	140000	10	10/06/21 21:54	10/6/21	
2-Methylphenol	480000 J	1100000	110000	10	10/06/21 21:54	10/6/21	
2-Nitroaniline	160000 U	5400000	160000	10	10/06/21 21:54	10/6/21	
2-Nitrophenol	170000 U	1100000	170000	10	10/06/21 21:54	10/6/21	
3,3'-Dichlorobenzidine	130000 U	1100000	130000	10	10/06/21 21:54	10/6/21	
3- and 4-Methylphenol Coelution	1000000 J	1100000	130000	10	10/06/21 21:54	10/6/21	
3-Nitroaniline	120000 U	5400000	120000	10	10/06/21 21:54	10/6/21	
4,6-Dinitro-2-methylphenol	940000 U	5400000	940000	10	10/06/21 21:54	10/6/21	
4-Bromophenyl Phenyl Ether	190000 U	1100000	190000	10	10/06/21 21:54	10/6/21	
4-Chloro-3-methylphenol	120000 U	1100000	120000	10	10/06/21 21:54	10/6/21	
4-Chloroaniline	110000 U	1100000	110000	10	10/06/21 21:54	10/6/21	
4-Chlorophenyl Phenyl Ether	170000 U	1100000	170000	10	10/06/21 21:54	10/6/21	
4-Nitroaniline	160000 U	5400000	160000	10	10/06/21 21:54	10/6/21	
4-Nitrophenol	690000 U	5400000	690000	10	10/06/21 21:54	10/6/21	
Acenaphthene	290000 J	1100000	160000	10	10/06/21 21:54	10/6/21	
Acenaphthylene	2700000	1100000	160000	10	10/06/21 21:54	10/6/21	
Acetophenone	140000 U	1100000	140000	10	10/06/21 21:54	10/6/21	
Anthracene	1700000	1100000	140000	10	10/06/21 21:54	10/6/21	
Atrazine	230000 U	1100000	230000	10	10/06/21 21:54	10/6/21	
Benz(a)anthracene	1700000	1100000	180000	10	10/06/21 21:54	10/6/21	
Benzaldehyde	110000 U	5400000	110000	10	10/06/21 21:54	10/6/21	
Benzo(a)pyrene	2000000	1100000	130000	10	10/06/21 21:54	10/6/21	
Benzo(b)fluoranthene	2100000	1100000	130000	10	10/06/21 21:54	10/6/21	
Benzo(g,h,i)perylene	1000000 J	1100000	110000	10	10/06/21 21:54	10/6/21	
Benzo(k)fluoranthene	630000 J	1100000	140000	10	10/06/21 21:54	10/6/21	
Biphenyl	430000 J	1100000	160000	10	10/06/21 21:54	10/6/21	
2,2'-Oxybis(1-chloropropane)	160000 U	1100000	160000	10	10/06/21 21:54	10/6/21	
Bis(2-chloroethoxy)methane	210000 U	1100000	210000	10	10/06/21 21:54	10/6/21	
Bis(2-chloroethyl) Ether	140000 U	1100000	140000	10	10/06/21 21:54	10/6/21	
Bis(2-ethylhexyl) Phthalate	840000 U	1100000	840000	10	10/06/21 21:54	10/6/21	
Butyl Benzyl Phthalate	160000 U	1100000	160000	10	10/06/21 21:54	10/6/21	
Caprolactam	110000 U	1100000	110000	10	10/06/21 21:54	10/6/21	

ALS Group USA, Corp.
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Analytical Report

Client: Inventum Engineering
Project: RITC Tanks
Sample Matrix: Waste

Service Request: R2109413
Date Collected: 09/10/21
Date Received: 09/11/21 09:35

Sample Name: TK-SD-ST23-09102021
Lab Code: R2109413-002

Units: ug/Kg
Basis: As Received

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3580A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Carbazole	1200000	1100000	180000	10	10/06/21 21:54	10/6/21	
Chrysene	1900000	1100000	130000	10	10/06/21 21:54	10/6/21	
Di-n-butyl Phthalate	190000 U	1100000	190000	10	10/06/21 21:54	10/6/21	
Di-n-octyl Phthalate	360000 U	1100000	360000	10	10/06/21 21:54	10/6/21	
Dibenz(a,h)anthracene	220000 J	1100000	120000	10	10/06/21 21:54	10/6/21	
Dibenzofuran	1600000	1100000	160000	10	10/06/21 21:54	10/6/21	
Diethyl Phthalate	120000 U	1100000	120000	10	10/06/21 21:54	10/6/21	
Dimethyl Phthalate	140000 U	1100000	140000	10	10/06/21 21:54	10/6/21	
Fluoranthene	5900000	1100000	170000	10	10/06/21 21:54	10/6/21	
Fluorene	2600000	1100000	140000	10	10/06/21 21:54	10/6/21	
Hexachlorobenzene	180000 U	1100000	180000	10	10/06/21 21:54	10/6/21	
Hexachlorobutadiene	110000 U	1100000	110000	10	10/06/21 21:54	10/6/21	
Hexachlorocyclopentadiene	240000 U	1100000	240000	10	10/06/21 21:54	10/6/21	
Hexachloroethane	120000 U	1100000	120000	10	10/06/21 21:54	10/6/21	
Indeno(1,2,3-cd)pyrene	1100000	1100000	200000	10	10/06/21 21:54	10/6/21	
Isophorone	160000 U	1100000	160000	10	10/06/21 21:54	10/6/21	
N-Nitrosodi-n-propylamine	130000 U	1100000	130000	10	10/06/21 21:54	10/6/21	
N-Nitrosodiphenylamine	300000 U	1100000	300000	10	10/06/21 21:54	10/6/21	
Naphthalene	15000000 E	1100000	130000	10	10/06/21 21:54	10/6/21	
Nitrobenzene	170000 U	1100000	170000	10	10/06/21 21:54	10/6/21	
Pentachlorophenol (PCP)	1100000 U	5400000	1100000	10	10/06/21 21:54	10/6/21	
Phenanthrene	8600000	1100000	160000	10	10/06/21 21:54	10/6/21	
Phenol	910000 J	1100000	110000	10	10/06/21 21:54	10/6/21	
Pyrene	4400000	1100000	170000	10	10/06/21 21:54	10/6/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	84	10 - 180	10/06/21 21:54	
2-Fluorobiphenyl	94	49 - 157	10/06/21 21:54	
2-Fluorophenol	87	59 - 113	10/06/21 21:54	
Nitrobenzene-d5	108	66 - 143	10/06/21 21:54	
Phenol-d6	88	35 - 125	10/06/21 21:54	
Terphenyl-d14	121	72 - 172	10/06/21 21:54	

ALS Group USA, Corp.
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Analytical Report

Client: Inventum Engineering
Project: RITC Tanks
Sample Matrix: Waste

Service Request: R2109413
Date Collected: 09/10/21
Date Received: 09/11/21 09:35

Sample Name: TK-SD-ST23-09102021
Lab Code: R2109413-002

Units: ug/Kg
Basis: As Received

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3580A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4,5-Tetrachlorobenzene	260000 U	2200000	260000	20	10/12/21 18:38	10/6/21	
2,3,4,6-Tetrachlorophenol	260000 U	2200000	260000	20	10/12/21 18:38	10/6/21	
2,4,5-Trichlorophenol	240000 U	2200000	240000	20	10/12/21 18:38	10/6/21	
2,4,6-Trichlorophenol	310000 U	2200000	310000	20	10/12/21 18:38	10/6/21	
2,4-Dichlorophenol	280000 U	2200000	280000	20	10/12/21 18:38	10/6/21	
2,4-Dimethylphenol	310000 U	2200000	310000	20	10/12/21 18:38	10/6/21	
2,4-Dinitrophenol	4400000 U	11000000	4400000	20	10/12/21 18:38	10/6/21	
2,4-Dinitrotoluene	520000 U	2200000	520000	20	10/12/21 18:38	10/6/21	
2,6-Dinitrotoluene	310000 U	2200000	310000	20	10/12/21 18:38	10/6/21	
2-Chloronaphthalene	310000 U	2200000	310000	20	10/12/21 18:38	10/6/21	
2-Chlorophenol	240000 U	2200000	240000	20	10/12/21 18:38	10/6/21	
2-Methylnaphthalene	3100000	2200000	280000	20	10/12/21 18:38	10/6/21	
2-Methylphenol	430000 J	2200000	220000	20	10/12/21 18:38	10/6/21	
2-Nitroaniline	310000 U	11000000	310000	20	10/12/21 18:38	10/6/21	
2-Nitrophenol	330000 U	2200000	330000	20	10/12/21 18:38	10/6/21	
3,3'-Dichlorobenzidine	260000 U	2200000	260000	20	10/12/21 18:38	10/6/21	
3- and 4-Methylphenol Coelution	870000 J	2200000	260000	20	10/12/21 18:38	10/6/21	
3-Nitroaniline	240000 U	11000000	240000	20	10/12/21 18:38	10/6/21	
4,6-Dinitro-2-methylphenol	1900000 U	11000000	1900000	20	10/12/21 18:38	10/6/21	
4-Bromophenyl Phenyl Ether	370000 U	2200000	370000	20	10/12/21 18:38	10/6/21	
4-Chloro-3-methylphenol	240000 U	2200000	240000	20	10/12/21 18:38	10/6/21	
4-Chloroaniline	220000 U	2200000	220000	20	10/12/21 18:38	10/6/21	
4-Chlorophenyl Phenyl Ether	330000 U	2200000	330000	20	10/12/21 18:38	10/6/21	
4-Nitroaniline	310000 U	11000000	310000	20	10/12/21 18:38	10/6/21	
4-Nitrophenol	1400000 U	11000000	1400000	20	10/12/21 18:38	10/6/21	
Acenaphthene	310000 U	2200000	310000	20	10/12/21 18:38	10/6/21	
Acenaphthylene	2700000	2200000	310000	20	10/12/21 18:38	10/6/21	
Acetophenone	280000 U	2200000	280000	20	10/12/21 18:38	10/6/21	
Anthracene	1600000 J	2200000	280000	20	10/12/21 18:38	10/6/21	
Atrazine	460000 U	2200000	460000	20	10/12/21 18:38	10/6/21	
Benz(a)anthracene	1800000 J	2200000	350000	20	10/12/21 18:38	10/6/21	
Benzaldehyde	220000 U	11000000	220000	20	10/12/21 18:38	10/6/21	
Benzo(a)pyrene	2000000 J	2200000	260000	20	10/12/21 18:38	10/6/21	
Benzo(b)fluoranthene	2100000 J	2200000	260000	20	10/12/21 18:38	10/6/21	
Benzo(g,h,i)perylene	1100000 J	2200000	220000	20	10/12/21 18:38	10/6/21	
Benzo(k)fluoranthene	620000 J	2200000	280000	20	10/12/21 18:38	10/6/21	
Biphenyl	450000 J	2200000	310000	20	10/12/21 18:38	10/6/21	
2,2'-Oxybis(1-chloropropane)	310000 U	2200000	310000	20	10/12/21 18:38	10/6/21	
Bis(2-chloroethoxy)methane	410000 U	2200000	410000	20	10/12/21 18:38	10/6/21	
Bis(2-chloroethyl) Ether	280000 U	2200000	280000	20	10/12/21 18:38	10/6/21	
Bis(2-ethylhexyl) Phthalate	1700000 U	2200000	1700000	20	10/12/21 18:38	10/6/21	
Butyl Benzyl Phthalate	310000 U	2200000	310000	20	10/12/21 18:38	10/6/21	
Caprolactam	220000 U	2200000	220000	20	10/12/21 18:38	10/6/21	

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Analytical Report

Client: Inventum Engineering
Project: RITC Tanks
Sample Matrix: Waste

Service Request: R2109413
Date Collected: 09/10/21
Date Received: 09/11/21 09:35

Sample Name: TK-SD-ST23-09102021
Lab Code: R2109413-002

Units: ug/Kg
Basis: As Received

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3580A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Carbazole	1200000 J	2200000	350000	20	10/12/21 18:38	10/6/21	
Chrysene	1900000 J	2200000	260000	20	10/12/21 18:38	10/6/21	
Di-n-butyl Phthalate	370000 U	2200000	370000	20	10/12/21 18:38	10/6/21	
Di-n-octyl Phthalate	710000 U	2200000	710000	20	10/12/21 18:38	10/6/21	
Dibenz(a,h)anthracene	240000 U	2200000	240000	20	10/12/21 18:38	10/6/21	
Dibenzofuran	1500000 J	2200000	310000	20	10/12/21 18:38	10/6/21	
Diethyl Phthalate	240000 U	2200000	240000	20	10/12/21 18:38	10/6/21	
Dimethyl Phthalate	280000 U	2200000	280000	20	10/12/21 18:38	10/6/21	
Fluoranthene	6000000	2200000	330000	20	10/12/21 18:38	10/6/21	
Fluorene	2600000	2200000	280000	20	10/12/21 18:38	10/6/21	
Hexachlorobenzene	350000 U	2200000	350000	20	10/12/21 18:38	10/6/21	
Hexachlorobutadiene	220000 U	2200000	220000	20	10/12/21 18:38	10/6/21	
Hexachlorocyclopentadiene	480000 U	2200000	480000	20	10/12/21 18:38	10/6/21	
Hexachloroethane	240000 U	2200000	240000	20	10/12/21 18:38	10/6/21	
Indeno(1,2,3-cd)pyrene	1000000 J	2200000	390000	20	10/12/21 18:38	10/6/21	
Isophorone	310000 U	2200000	310000	20	10/12/21 18:38	10/6/21	
N-Nitrosodi-n-propylamine	260000 U	2200000	260000	20	10/12/21 18:38	10/6/21	
N-Nitrosodiphenylamine	590000 U	2200000	590000	20	10/12/21 18:38	10/6/21	
Naphthalene	16000000 D	2200000	260000	20	10/12/21 18:38	10/6/21	
Nitrobenzene	330000 U	2200000	330000	20	10/12/21 18:38	10/6/21	
Pentachlorophenol (PCP)	2100000 U	11000000	2100000	20	10/12/21 18:38	10/6/21	
Phenanthrene	8600000	2200000	310000	20	10/12/21 18:38	10/6/21	
Phenol	830000 J	2200000	220000	20	10/12/21 18:38	10/6/21	
Pyrene	4100000	2200000	330000	20	10/12/21 18:38	10/6/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	93	10 - 180	10/12/21 18:38	
2-Fluorobiphenyl	95	49 - 157	10/12/21 18:38	
2-Fluorophenol	83	59 - 113	10/12/21 18:38	
Nitrobenzene-d5	114	66 - 143	10/12/21 18:38	
Phenol-d6	82	35 - 125	10/12/21 18:38	
Terphenyl-d14	95	72 - 172	10/12/21 18:38	



Semivolatile Organic Compounds by GC

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Analytical Report

Client: Inventum Engineering
Project: RITC Tanks
Sample Matrix: Waste

Service Request: R2109413
Date Collected: 09/10/21
Date Received: 09/11/21 09:35

Sample Name: TK-SD-ST22-09102021
Lab Code: R2109413-001

Units: ug/Kg
Basis: As Received

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3580A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	1000 U	1000	1000	100	09/27/21 13:18	9/27/21	
4,4'-DDE	1000 U	1000	1000	100	09/27/21 13:18	9/27/21	
4,4'-DDT	1000 U	1000	1000	100	09/27/21 13:18	9/27/21	
Aldrin	1000 U	1000	1000	100	09/27/21 13:18	9/27/21	
Dieldrin	1000 U	1000	1000	100	09/27/21 13:18	9/27/21	
Endosulfan I	1000 U	1000	1000	100	09/27/21 13:18	9/27/21	
Endosulfan II	1000 U	1000	1000	100	09/27/21 13:18	9/27/21	
Endosulfan Sulfate	1000 U	1000	1000	100	09/27/21 13:18	9/27/21	
Endrin	1000 U	1000	1000	100	09/27/21 13:18	9/27/21	
Endrin Aldehyde	1000 U	1000	1000	100	09/27/21 13:18	9/27/21	
Endrin Ketone	1000 U	1000	1000	100	09/27/21 13:18	9/27/21	
Heptachlor	1000 U	1000	1000	100	09/27/21 13:18	9/27/21	
Heptachlor Epoxide	1000 U	1000	1000	100	09/27/21 13:18	9/27/21	
Methoxychlor	1000 U	1000	1000	100	09/27/21 13:18	9/27/21	
Toxaphene	5000 U	5000	5000	100	09/27/21 13:18	9/27/21	
alpha-BHC	1000 U	1000	1000	100	09/27/21 13:18	9/27/21	
alpha-Chlordane	1000 U	1000	1000	100	09/27/21 13:18	9/27/21	
beta-BHC	1000 U	1000	1000	100	09/27/21 13:18	9/27/21	
delta-BHC	1000 U	1000	1000	100	09/27/21 13:18	9/27/21	
gamma-BHC (Lindane)	1000 U	1000	1000	100	09/27/21 13:18	9/27/21	
gamma-Chlordane	1000 U	1000	1000	100	09/27/21 13:18	9/27/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	0 *	10 - 164	09/27/21 13:18	D
Tetrachloro-m-xylene	0 *	10 - 147	09/27/21 13:18	D

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Analytical Report

Client: Inventum Engineering
Project: RITC Tanks
Sample Matrix: Waste

Service Request: R2109413
Date Collected: 09/10/21
Date Received: 09/11/21 09:35

Sample Name: TK-SD-ST23-09102021
Lab Code: R2109413-002

Units: ug/Kg
Basis: As Received

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3580A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	10000 U	10000	10000	1000	09/27/21 13:38	9/27/21	
4,4'-DDE	10000 U	10000	10000	1000	09/27/21 13:38	9/27/21	
4,4'-DDT	10000 U	10000	10000	1000	09/27/21 13:38	9/27/21	
Aldrin	10000 U	10000	10000	1000	09/27/21 13:38	9/27/21	
Dieldrin	10000 U	10000	10000	1000	09/27/21 13:38	9/27/21	
Endosulfan I	10000 U	10000	10000	1000	09/27/21 13:38	9/27/21	
Endosulfan II	10000 U	10000	10000	1000	09/27/21 13:38	9/27/21	
Endosulfan Sulfate	10000 U	10000	10000	1000	09/27/21 13:38	9/27/21	
Endrin	10000 U	10000	10000	1000	09/27/21 13:38	9/27/21	
Endrin Aldehyde	10000 U	10000	10000	1000	09/27/21 13:38	9/27/21	
Endrin Ketone	10000 U	10000	10000	1000	09/27/21 13:38	9/27/21	
Heptachlor	10000 U	10000	10000	1000	09/27/21 13:38	9/27/21	
Heptachlor Epoxide	10000 U	10000	10000	1000	09/27/21 13:38	9/27/21	
Methoxychlor	10000 U	10000	10000	1000	09/27/21 13:38	9/27/21	
Toxaphene	50000 U	50000	50000	1000	09/27/21 13:38	9/27/21	
alpha-BHC	10000 U	10000	10000	1000	09/27/21 13:38	9/27/21	
alpha-Chlordane	10000 U	10000	10000	1000	09/27/21 13:38	9/27/21	
beta-BHC	10000 U	10000	10000	1000	09/27/21 13:38	9/27/21	
delta-BHC	10000 U	10000	10000	1000	09/27/21 13:38	9/27/21	
gamma-BHC (Lindane)	10000 U	10000	10000	1000	09/27/21 13:38	9/27/21	
gamma-Chlordane	10000 U	10000	10000	1000	09/27/21 13:38	9/27/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	0 *	10 - 164	09/27/21 13:38	D
Tetrachloro-m-xylene	0 *	10 - 147	09/27/21 13:38	D

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Analytical Report

Client: Inventum Engineering
Project: RITC Tanks
Sample Matrix: Waste

Sample Name: TK-SD-ST22-09102021
Lab Code: R2109413-001

Service Request: R2109413
Date Collected: 09/10/21
Date Received: 09/11/21 09:35

Units: ug/Kg
Basis: As Received

Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Prep Method: EPA 3580A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	2000 U	2000	2000	10	09/27/21 13:21	9/27/21	
Aroclor 1221	4000 U	4000	4000	10	09/27/21 13:21	9/27/21	
Aroclor 1232	2000 U	2000	2000	10	09/27/21 13:21	9/27/21	
Aroclor 1242	2000 U	2000	2000	10	09/27/21 13:21	9/27/21	
Aroclor 1248	2000 U	2000	2000	10	09/27/21 13:21	9/27/21	
Aroclor 1254	2000 U	2000	2000	10	09/27/21 13:21	9/27/21	
Aroclor 1260	2000 U	2000	2000	10	09/27/21 13:21	9/27/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	100	44 - 131	09/27/21 13:21	
Tetrachloro-m-xylene	84	33 - 139	09/27/21 13:21	

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Analytical Report

Client: Inventum Engineering
Project: RITC Tanks
Sample Matrix: Waste

Service Request: R2109413
Date Collected: 09/10/21
Date Received: 09/11/21 09:35

Sample Name: TK-SD-ST23-09102021
Lab Code: R2109413-002

Units: ug/Kg
Basis: As Received

Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Prep Method: EPA 3580A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	2000 U	2000	2000	10	09/27/21 13:41	9/27/21	
Aroclor 1221	4000 U	4000	4000	10	09/27/21 13:41	9/27/21	
Aroclor 1232	2000 U	2000	2000	10	09/27/21 13:41	9/27/21	
Aroclor 1242	2000 U	2000	2000	10	09/27/21 13:41	9/27/21	
Aroclor 1248	2000 U	2000	2000	10	09/27/21 13:41	9/27/21	
Aroclor 1254	2000 U	2000	2000	10	09/27/21 13:41	9/27/21	
Aroclor 1260	2000 U	2000	2000	10	09/27/21 13:41	9/27/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	132 *	44 - 131	09/27/21 13:41	*
Tetrachloro-m-xylene	67	33 - 139	09/27/21 13:41	

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Analytical Report

Client: Inventum Engineering
Project: RITC Tanks
Sample Matrix: Waste

Sample Name: TK-SD-ST22-09102021
Lab Code: R2109413-001

Service Request: R2109413
Date Collected: 09/10/21
Date Received: 09/11/21 09:35

Units: ug/Kg
Basis: As Received

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-T	100 U	100	100	1	09/23/21 01:57	9/21/21	
2,4,5-TP	100 U	100	100	1	09/23/21 01:57	9/21/21	
2,4-D	100 U	100	100	1	09/23/21 01:57	9/21/21	
Dicamba	100 U	100	100	1	09/23/21 01:57	9/21/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4-Dichlorophenylacetic Acid	71	10 - 151	09/23/21 01:57	

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Analytical Report

Client: Inventum Engineering
Project: RITC Tanks
Sample Matrix: Waste

Sample Name: TK-SD-ST23-09102021
Lab Code: R2109413-002

Service Request: R2109413
Date Collected: 09/10/21
Date Received: 09/11/21 09:35

Units: ug/Kg
Basis: As Received

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-T	100 U	100	100	1	09/23/21 02:17	9/21/21	
2,4,5-TP	100 U	100	100	1	09/23/21 02:17	9/21/21	
2,4-D	100 U	100	100	1	09/23/21 02:17	9/21/21	
Dicamba	100 U	100	100	1	09/23/21 02:17	9/21/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4-Dichlorophenylacetic Acid	58	10 - 151	09/23/21 02:17	



Metals

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INORGANIC ANALYSIS DATA PACKAGE

Client: Inventum Engineering	Service Request: TK-SD-ST22-09102021
Project No.: R2109413	Date Collected: 9/10/2021
Project Name:	Date Received: 9/11/2021
Matrix: SOIL	Units: mg/Kg
	Basis:

Sample Name: TK-SD-ST22-09102021	Lab Code: R2109413-001
----------------------------------	------------------------

Analyte	Analysis Method	PQL	MDL	Dil. Factor	Result	C	Q
Aluminum	6010C	19.2	11.5	1.0	188		
Antimony	6010C	5.8	0.519	1.0	0.587	J	
Arsenic	6010C	0.962	0.673	1.0	18.3		
Barium	6010C	1.9	1.4	1.0	2.9		
Beryllium	6010C	0.288	0.058	1.0	0.067	J	
Boron	6010C	19.2	1.4	1.0	5.9	J	
Cadmium	6010C	0.481	0.083	1.0	27.7		
Mercury	7471B	0.100	0.039	5.0	1.8		
Calcium	6010C	96.2	30.8	1.0	1130		
Chromium	6010C	0.962	0.337	1.0	1.6		
Cobalt	6010C	4.8	0.080	1.0	0.202	J	
Copper	6010C	1.9	0.125	1.0	7.2		
Iron	6010C	19.2	12.5	1.0	1460		
Lead	6010C	4.8	0.385	1.0	730		
Magnesium	6010C	96.2	12.5	1.0	168		
Manganese	6010C	1.9	0.154	1.0	9.7		
Molybdenum	6010C	2.4	0.375	1.0	2.4	U	
Nickel	6010C	3.9	0.635	1.0	1.9	J	
Potassium	6010C	192	48.1	1.0	192	U	
Selenium	6010C	0.962	0.519	1.0	19.1		
Silver	6010C	0.962	0.087	1.0	0.212	J	
Sodium	6010C	96.2	18.3	1.0	124		
Thallium	6010C	0.962	0.625	1.0	19.4		
Tin	6010C	48.1	1.8	1.0	28.3	J	
Vanadium	6010C	4.8	0.066	1.0	1.4	J	
Zinc	6010C	19.2	13.5	10.0	526		

% Solids: 100.0

Comments:

METALS
- 1 -
INORGANIC ANALYSIS DATA PACKAGE

Client: Inventum Engineering	Service Request: TK-SD-ST22-09102021
Project No.: R2109413	Date Collected: 9/10/2021
Project Name:	Date Received: 9/11/2021
Matrix: SOIL	Units: mg/Kg
	Basis:

Sample Name: TK-SD-ST23-09102021	Lab Code: R2109413-002
----------------------------------	------------------------

Analyte	Analysis Method	PQL	MDL	Dil. Factor	Result	C	Q
Aluminum	6010C	18.9	11.3	1.0	18.9	U	
Antimony	6010C	5.7	0.509	1.0	5.7	U	
Arsenic	6010C	0.943	0.660	1.0	0.943	U	
Barium	6010C	1.9	1.4	1.0	1.9	U	
Beryllium	6010C	0.283	0.057	1.0	0.283	U	
Boron	6010C	18.9	1.4	1.0	3.0	J	
Cadmium	6010C	0.472	0.081	1.0	0.217	J	
Mercury	7471B	0.019	0.008	1.0	0.060		
Calcium	6010C	94.3	30.2	1.0	45.1	J	
Chromium	6010C	0.943	0.330	1.0	0.943	U	
Cobalt	6010C	4.7	0.078	1.0	4.7	U	
Copper	6010C	1.9	0.123	1.0	0.491	J	
Iron	6010C	18.9	12.3	1.0	347		
Lead	6010C	4.7	0.377	1.0	5.1		
Magnesium	6010C	94.3	12.3	1.0	94.3	U	
Manganese	6010C	1.9	0.151	1.0	1.9		
Molybdenum	6010C	2.4	0.368	1.0	2.4	U	
Nickel	6010C	3.8	0.623	1.0	5.5		
Potassium	6010C	189	47.2	1.0	189	U	
Selenium	6010C	0.943	0.509	1.0	5.2		
Silver	6010C	0.943	0.085	1.0	0.943	U	
Sodium	6010C	94.3	17.9	1.0	19.4	J	
Thallium	6010C	0.943	0.613	1.0	0.943	U	
Tin	6010C	47.2	1.8	1.0	47.2	U	
Vanadium	6010C	4.7	0.065	1.0	12.2		
Zinc	6010C	1.9	1.3	1.0	4.4		

% Solids: 100.0

Comments:



General Chemistry

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Analytical Report

Client: Inventum Engineering

Project: RITC Tanks

Sample Matrix: Waste

Sample Name: TK-SD-ST22-09102021

Lab Code: R2109413-001

Service Request: R2109413

Date Collected: 09/10/21

Date Received: 09/11/21 09:35

Basis: As Received

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Ammonia as Nitrogen, undistilled	350.1M	19.0	mg/Kg	5.0	1.4	1	10/01/21 22:14	10/01/21	
Cyanide, Total	9012B	4.26	mg/Kg	0.25	-	1	09/15/21 22:26	09/15/21	
Water	ASTM E203-01	11.6	Percent	0.10	0.003	1	09/21/21 10:00	NA	

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Analytical Report

Client: Inventum Engineering

Project: RITC Tanks

Sample Matrix: Waste

Sample Name: TK-SD-ST23-09102021

Lab Code: R2109413-002

Service Request: R2109413

Date Collected: 09/10/21

Date Received: 09/11/21 09:35

Basis: As Received

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Ammonia as Nitrogen, undistilled	350.1M	53.3	mg/Kg	5.0	1.4	1	10/01/21 22:15	10/01/21	
Cyanide, Total	9012B	1.08	mg/Kg	0.28	-	1	09/15/21 22:29	09/15/21	
Water	ASTM E203-01	7.52	Percent	0.10	0.003	1	09/21/21 10:00	NA	



QC Summary Forms

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Volatile Organic Compounds by GC/MS

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QA/QC Report

Client: Inventum Engineering
Project: RITC Tanks
Sample Matrix: Waste

Service Request: R2109413

SURROGATE RECOVERY SUMMARY
Volatile Organic Compounds by GC/MS, Unpreserved

Analysis Method: 8260C
Extraction Method: EPA 5030C

Sample Name	Lab Code	4-Bromofluorobenzene	Dibromofluoromethane	Toluene-d8
		31-154	63-138	66-138
TK-SD-ST22-09102021	R2109413-001	93	92	95
TK-SD-ST23-09102021	R2109413-002	94	91	95
Method Blank	RQ2111584-04	99	92	100
Lab Control Sample	RQ2111584-03	99	99	97

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Analytical Report

Client: Inventum Engineering
Project: RITC Tanks
Sample Matrix: Waste

Service Request: R2109413
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ2111584-04

Units: ug/Kg
Basis: As Received

Volatile Organic Compounds by GC/MS, Unpreserved

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	10 U	250	10	50	09/20/21 14:14	
1,1,2,2-Tetrachloroethane	10 U	250	10	50	09/20/21 14:14	
1,1,2-Trichloroethane	10 U	250	10	50	09/20/21 14:14	
1,1,2-Trichloro-1,2,2-trifluoroethane	10 U	250	10	50	09/20/21 14:14	
1,1-Dichloroethane (1,1-DCA)	10 U	250	10	50	09/20/21 14:14	
1,1-Dichloroethene (1,1-DCE)	10 U	250	10	50	09/20/21 14:14	
1,2,3-Trichlorobenzene	13 U	250	13	50	09/20/21 14:14	
1,2,4-Trichlorobenzene	17 U	250	17	50	09/20/21 14:14	
1,2-Dibromo-3-chloropropane (DBCP)	23 U	250	23	50	09/20/21 14:14	
1,2-Dibromoethane	10 U	250	10	50	09/20/21 14:14	
1,2-Dichlorobenzene	10 U	250	10	50	09/20/21 14:14	
1,2-Dichloroethane	10 U	250	10	50	09/20/21 14:14	
1,2-Dichloropropane	10 U	250	10	50	09/20/21 14:14	
1,3-Dichlorobenzene	10 U	250	10	50	09/20/21 14:14	
1,4-Dichlorobenzene	10 U	250	10	50	09/20/21 14:14	
1,4-Dioxane	650 U	5000	650	50	09/20/21 14:14	
2-Butanone (MEK)	170 J	500	39	50	09/20/21 14:14	
2-Hexanone	10 U	500	10	50	09/20/21 14:14	
4-Methyl-2-pentanone	10 U	500	10	50	09/20/21 14:14	
Acetone	110 U	500	110	50	09/20/21 14:14	
Benzene	10 U	250	10	50	09/20/21 14:14	
Bromochloromethane	10 U	250	10	50	09/20/21 14:14	
Bromodichloromethane	10 U	250	10	50	09/20/21 14:14	
Bromoform	13 U	250	13	50	09/20/21 14:14	
Bromomethane	50 J	250	35	50	09/20/21 14:14	
Carbon Disulfide	21 U	500	21	50	09/20/21 14:14	
Carbon Tetrachloride	17 U	250	17	50	09/20/21 14:14	
Chlorobenzene	10 U	250	10	50	09/20/21 14:14	
Chloroethane	12 U	250	12	50	09/20/21 14:14	
Chloroform	12 U	250	12	50	09/20/21 14:14	
Chloromethane	54 J	250	14	50	09/20/21 14:14	
Cyclohexane	13 U	500	13	50	09/20/21 14:14	
Dibromochloromethane	10 U	250	10	50	09/20/21 14:14	
Dichlorodifluoromethane (CFC 12)	11 U	250	11	50	09/20/21 14:14	
Dichloromethane	33 U	250	33	50	09/20/21 14:14	
Ethylbenzene	10 U	250	10	50	09/20/21 14:14	
Isopropylbenzene (Cumene)	10 U	250	10	50	09/20/21 14:14	
Methyl Acetate	76 J	500	17	50	09/20/21 14:14	
Methyl tert-Butyl Ether	10 U	250	10	50	09/20/21 14:14	
Methylcyclohexane	10 U	500	10	50	09/20/21 14:14	
Styrene	10 U	250	10	50	09/20/21 14:14	
Tetrachloroethene (PCE)	11 U	250	11	50	09/20/21 14:14	
Toluene	10 U	250	10	50	09/20/21 14:14	

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Analytical Report

Client: Inventum Engineering
Project: RITC Tanks
Sample Matrix: Waste

Service Request: R2109413
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ2111584-04

Units: ug/Kg
Basis: As Received

Volatile Organic Compounds by GC/MS, Unpreserved

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	10 U	250	10	50	09/20/21 14:14	
Trichlorofluoromethane (CFC 11)	12 U	250	12	50	09/20/21 14:14	
Vinyl Chloride	10 U	250	10	50	09/20/21 14:14	
cis-1,2-Dichloroethene	12 U	250	12	50	09/20/21 14:14	
cis-1,3-Dichloropropene	10 U	250	10	50	09/20/21 14:14	
m,p-Xylenes	10 U	250	10	50	09/20/21 14:14	
o-Xylene	10 U	250	10	50	09/20/21 14:14	
trans-1,2-Dichloroethene	10 U	250	10	50	09/20/21 14:14	
trans-1,3-Dichloropropene	12 U	250	12	50	09/20/21 14:14	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	99	31 - 154	09/20/21 14:14	
Dibromofluoromethane	92	63 - 138	09/20/21 14:14	
Toluene-d8	100	66 - 138	09/20/21 14:14	

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QA/QC Report

Client: Inventum Engineering
Project: RITC Tanks
Sample Matrix: Waste

Service Request: R2109413
Date Analyzed: 09/20/21

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS, Unpreserved

Units:ug/Kg
Basis:As Received

Lab Control Sample
RQ2111584-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
1,1,1-Trichloroethane (TCA)	8260C	22.4	20.0	112	68-123
1,1,2,2-Tetrachloroethane	8260C	20.4	20.0	102	78-121
1,1,2-Trichloroethane	8260C	20.5	20.0	103	84-117
1,1,2-Trichloro-1,2,2-trifluoroethane	8260C	19.8	20.0	99	54-121
1,1-Dichloroethane (1,1-DCA)	8260C	23.3	20.0	117	76-123
1,1-Dichloroethene (1,1-DCE)	8260C	18.9	20.0	94	65-115
1,2,3-Trichlorobenzene	8260C	20.9	20.0	105	60-128
1,2,4-Trichlorobenzene	8260C	21.8	20.0	109	62-130
1,2-Dibromo-3-chloropropane (DBCP)	8260C	17.7	20.0	89	54-135
1,2-Dibromoethane	8260C	18.9	20.0	95	77-117
1,2-Dichlorobenzene	8260C	20.0	20.0	100	75-116
1,2-Dichloroethane	8260C	21.6	20.0	108	74-116
1,2-Dichloropropane	8260C	21.6	20.0	108	79-112
1,3-Dichlorobenzene	8260C	20.1	20.0	101	72-118
1,4-Dichlorobenzene	8260C	19.1	20.0	95	72-117
1,4-Dioxane	8260C	354	400	88	59-147
2-Butanone (MEK)	8260C	19.6	20.0	98	67-129
2-Hexanone	8260C	17.6	20.0	88	68-118
4-Methyl-2-pentanone	8260C	18.4	20.0	92	64-123
Acetone	8260C	16.6	20.0	83	32-154
Benzene	8260C	21.1	20.0	105	77-114
Bromochloromethane	8260C	20.7	20.0	104	78-117
Bromodichloromethane	8260C	21.2	20.0	106	72-118
Bromoform	8260C	17.9	20.0	89	55-134
Bromomethane	8260C	10.7	20.0	54	10-150
Carbon Disulfide	8260C	23.4	20.0	117	44-139
Carbon Tetrachloride	8260C	22.2	20.0	111	51-123
Chlorobenzene	8260C	20.1	20.0	100	79-115
Chloroethane	8260C	12.5	20.0	62	10-140
Chloroform	8260C	19.9	20.0	100	76-115
Chloromethane	8260C	28.4	20.0	142 *	10-131
Cyclohexane	8260C	21.8	20.0	109	67-122
Dibromochloromethane	8260C	20.0	20.0	100	68-121

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QA/QC Report

Client: Inventum Engineering
Project: RITC Tanks
Sample Matrix: Waste

Service Request: R2109413
Date Analyzed: 09/20/21

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS, Unpreserved

Units:ug/Kg
Basis:As Received

Lab Control Sample
RQ2111584-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Dichlorodifluoromethane (CFC 12)	8260C	25.1	20.0	126	51-144
Dichloromethane	8260C	20.9	20.0	104	72-118
Ethylbenzene	8260C	21.3	20.0	106	64-118
Isopropylbenzene (Cumene)	8260C	21.6	20.0	108	60-123
Methyl Acetate	8260C	31.3	20.0	156 *	31-122
Methyl tert-Butyl Ether	8260C	20.8	20.0	104	76-118
Methylcyclohexane	8260C	22.4	20.0	112	70-124
Styrene	8260C	21.0	20.0	105	74-117
Tetrachloroethene (PCE)	8260C	20.3	20.0	101	58-124
Toluene	8260C	21.2	20.0	106	72-116
Trichloroethene (TCE)	8260C	19.2	20.0	96	69-118
Trichlorofluoromethane (CFC 11)	8260C	17.6	20.0	88	52-127
Vinyl Chloride	8260C	21.8	20.0	109	59-153
cis-1,2-Dichloroethene	8260C	21.8	20.0	109	79-113
cis-1,3-Dichloropropene	8260C	23.9	20.0	119 *	66-117
m,p-Xylenes	8260C	42.2	40.0	106	68-118
o-Xylene	8260C	20.8	20.0	104	71-116
trans-1,2-Dichloroethene	8260C	22.7	20.0	113	73-114
trans-1,3-Dichloropropene	8260C	24.0	20.0	120	57-135



Semivolatile Organic Compounds by GC/MS

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QA/QC Report

Client: Inventum Engineering
Project: RITC Tanks
Sample Matrix: Waste

Service Request: R2109413

SURROGATE RECOVERY SUMMARY
Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Extraction Method: EPA 3580A

Sample Name	Lab Code	2,4,6-Tribromophenol	2-Fluorobiphenyl	2-Fluorophenol
		10-180	49-157	59-113
TK-SD-ST22-09102021	R2109413-001	65	91	89
TK-SD-ST22-09102021 DL	R2109413-001	0*	0*	0*
TK-SD-ST23-09102021	R2109413-002	84	94	87
TK-SD-ST23-09102021 DL	R2109413-002	93	95	83
Method Blank	RQ2112531-01	89	107	104
Lab Control Sample	RQ2112531-02	90	116	106
Duplicate Lab Control Sample	RQ2112531-03	87	110	102

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QA/QC Report

Client: Inventum Engineering
Project: RITC Tanks
Sample Matrix: Waste

Service Request: R2109413

SURROGATE RECOVERY SUMMARY
Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Extraction Method: EPA 3580A

Sample Name	Lab Code	Nitrobenzene-d5	Phenol-d6	Terphenyl-d14
		66-143	35-125	72-172
TK-SD-ST22-09102021	R2109413-001	92	90	114
TK-SD-ST22-09102021 DL	R2109413-001	0*	0*	0*
TK-SD-ST23-09102021	R2109413-002	108	88	121
TK-SD-ST23-09102021 DL	R2109413-002	114	82	95
Method Blank	RQ2112531-01	108	99	136
Lab Control Sample	RQ2112531-02	105	103	130
Duplicate Lab Control Sample	RQ2112531-03	97	99	128

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Analytical Report

Client: Inventum Engineering
Project: RITC Tanks
Sample Matrix: Waste

Service Request: R2109413
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ2112531-01

Units: ug/Kg
Basis: As Received

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3580A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
1,2,4,5-Tetrachlorobenzene	12000 U	100000	12000	1	10/06/21 19:02	10/6/21	
2,3,4,6-Tetrachlorophenol	12000 U	100000	12000	1	10/06/21 19:02	10/6/21	
2,4,5-Trichlorophenol	11000 U	100000	11000	1	10/06/21 19:02	10/6/21	
2,4,6-Trichlorophenol	14000 U	100000	14000	1	10/06/21 19:02	10/6/21	
2,4-Dichlorophenol	13000 U	100000	13000	1	10/06/21 19:02	10/6/21	
2,4-Dimethylphenol	14000 U	100000	14000	1	10/06/21 19:02	10/6/21	
2,4-Dinitrophenol	200000 U	500000	200000	1	10/06/21 19:02	10/6/21	
2,4-Dinitrotoluene	24000 U	100000	24000	1	10/06/21 19:02	10/6/21	
2,6-Dinitrotoluene	14000 U	100000	14000	1	10/06/21 19:02	10/6/21	
2-Chloronaphthalene	14000 U	100000	14000	1	10/06/21 19:02	10/6/21	
2-Chlorophenol	11000 U	100000	11000	1	10/06/21 19:02	10/6/21	
2-Methylnaphthalene	13000 U	100000	13000	1	10/06/21 19:02	10/6/21	
2-Methylphenol	10000 U	100000	10000	1	10/06/21 19:02	10/6/21	
2-Nitroaniline	14000 U	500000	14000	1	10/06/21 19:02	10/6/21	
2-Nitrophenol	15000 U	100000	15000	1	10/06/21 19:02	10/6/21	
3,3'-Dichlorobenzidine	12000 U	100000	12000	1	10/06/21 19:02	10/6/21	
3- and 4-Methylphenol Coelution	12000 U	100000	12000	1	10/06/21 19:02	10/6/21	
3-Nitroaniline	11000 U	500000	11000	1	10/06/21 19:02	10/6/21	
4,6-Dinitro-2-methylphenol	87000 U	500000	87000	1	10/06/21 19:02	10/6/21	
4-Bromophenyl Phenyl Ether	17000 U	100000	17000	1	10/06/21 19:02	10/6/21	
4-Chloro-3-methylphenol	11000 U	100000	11000	1	10/06/21 19:02	10/6/21	
4-Chloroaniline	10000 U	100000	10000	1	10/06/21 19:02	10/6/21	
4-Chlorophenyl Phenyl Ether	15000 U	100000	15000	1	10/06/21 19:02	10/6/21	
4-Nitroaniline	14000 U	500000	14000	1	10/06/21 19:02	10/6/21	
4-Nitrophenol	64000 U	500000	64000	1	10/06/21 19:02	10/6/21	
Acenaphthene	14000 U	100000	14000	1	10/06/21 19:02	10/6/21	
Acenaphthylene	14000 U	100000	14000	1	10/06/21 19:02	10/6/21	
Acetophenone	13000 U	100000	13000	1	10/06/21 19:02	10/6/21	
Anthracene	13000 U	100000	13000	1	10/06/21 19:02	10/6/21	
Atrazine	21000 U	100000	21000	1	10/06/21 19:02	10/6/21	
Benz(a)anthracene	16000 U	100000	16000	1	10/06/21 19:02	10/6/21	
Benzaldehyde	10000 U	500000	10000	1	10/06/21 19:02	10/6/21	
Benzo(a)pyrene	12000 U	100000	12000	1	10/06/21 19:02	10/6/21	
Benzo(b)fluoranthene	12000 U	100000	12000	1	10/06/21 19:02	10/6/21	
Benzo(g,h,i)perylene	10000 U	100000	10000	1	10/06/21 19:02	10/6/21	
Benzo(k)fluoranthene	13000 U	100000	13000	1	10/06/21 19:02	10/6/21	
Biphenyl	14000 U	100000	14000	1	10/06/21 19:02	10/6/21	
2,2'-Oxybis(1-chloropropane)	14000 U	100000	14000	1	10/06/21 19:02	10/6/21	
Bis(2-chloroethoxy)methane	19000 U	100000	19000	1	10/06/21 19:02	10/6/21	
Bis(2-chloroethyl) Ether	13000 U	100000	13000	1	10/06/21 19:02	10/6/21	
Bis(2-ethylhexyl) Phthalate	78000 U	100000	78000	1	10/06/21 19:02	10/6/21	
Butyl Benzyl Phthalate	14000 U	100000	14000	1	10/06/21 19:02	10/6/21	
Caprolactam	10000 U	100000	10000	1	10/06/21 19:02	10/6/21	

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Analytical Report

Client: Inventum Engineering
Project: RITC Tanks
Sample Matrix: Waste

Service Request: R2109413
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ2112531-01

Units: ug/Kg
Basis: As Received

Semivolatile Organic Compounds by GC/MS

Analysis Method: 8270D
Prep Method: EPA 3580A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Carbazole	16000 U	100000	16000	1	10/06/21 19:02	10/6/21	
Chrysene	12000 U	100000	12000	1	10/06/21 19:02	10/6/21	
Di-n-butyl Phthalate	17000 U	100000	17000	1	10/06/21 19:02	10/6/21	
Di-n-octyl Phthalate	33000 U	100000	33000	1	10/06/21 19:02	10/6/21	
Dibenz(a,h)anthracene	11000 U	100000	11000	1	10/06/21 19:02	10/6/21	
Dibenzofuran	14000 U	100000	14000	1	10/06/21 19:02	10/6/21	
Diethyl Phthalate	11000 U	100000	11000	1	10/06/21 19:02	10/6/21	
Dimethyl Phthalate	13000 U	100000	13000	1	10/06/21 19:02	10/6/21	
Fluoranthene	15000 U	100000	15000	1	10/06/21 19:02	10/6/21	
Fluorene	13000 U	100000	13000	1	10/06/21 19:02	10/6/21	
Hexachlorobenzene	16000 U	100000	16000	1	10/06/21 19:02	10/6/21	
Hexachlorobutadiene	10000 U	100000	10000	1	10/06/21 19:02	10/6/21	
Hexachlorocyclopentadiene	22000 U	100000	22000	1	10/06/21 19:02	10/6/21	
Hexachloroethane	11000 U	100000	11000	1	10/06/21 19:02	10/6/21	
Indeno(1,2,3-cd)pyrene	18000 U	100000	18000	1	10/06/21 19:02	10/6/21	
Isophorone	14000 U	100000	14000	1	10/06/21 19:02	10/6/21	
N-Nitrosodi-n-propylamine	12000 U	100000	12000	1	10/06/21 19:02	10/6/21	
N-Nitrosodiphenylamine	27000 U	100000	27000	1	10/06/21 19:02	10/6/21	
Naphthalene	12000 U	100000	12000	1	10/06/21 19:02	10/6/21	
Nitrobenzene	15000 U	100000	15000	1	10/06/21 19:02	10/6/21	
Pentachlorophenol (PCP)	97000 U	500000	97000	1	10/06/21 19:02	10/6/21	
Phenanthrene	14000 U	100000	14000	1	10/06/21 19:02	10/6/21	
Phenol	10000 U	100000	10000	1	10/06/21 19:02	10/6/21	
Pyrene	15000 U	100000	15000	1	10/06/21 19:02	10/6/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4,6-Tribromophenol	89	10 - 180	10/06/21 19:02	
2-Fluorobiphenyl	107	49 - 157	10/06/21 19:02	
2-Fluorophenol	104	59 - 113	10/06/21 19:02	
Nitrobenzene-d5	108	66 - 143	10/06/21 19:02	
Phenol-d6	99	35 - 125	10/06/21 19:02	
Terphenyl-d14	136	72 - 172	10/06/21 19:02	

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QA/QC Report

Client: Inventum Engineering
Project: RITC Tanks
Sample Matrix: Waste

Service Request: R2109413
Date Analyzed: 10/06/21

Duplicate Lab Control Sample Summary
Semivolatile Organic Compounds by GC/MS

Units:ug/Kg
Basis:As Received

Lab Control Sample					Duplicate Lab Control Sample					
RQ2112531-02					RQ2112531-03					
Analyte Name	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
1,2,4,5-Tetrachlorobenzene	8270D	144000	200000	72	135000	200000	68	50-150	6	30
2,3,4,6-Tetrachlorophenol	8270D	200000	200000	100	174000	200000	87	50-150	14	30
2,4,5-Trichlorophenol	8270D	192000	200000	96	194000	200000	97	50-150	1	30
2,4,6-Trichlorophenol	8270D	193000	200000	96	176000	200000	88	50-150	9	30
2,4-Dichlorophenol	8270D	181000	200000	90	174000	200000	87	50-150	4	30
2,4-Dimethylphenol	8270D	197000	200000	99	190000	200000	95	50-150	3	30
2,4-Dinitrophenol	8270D	200000 U	200000	0 *	200000 U	200000	0 *	30-178	NC	30
2,4-Dinitrotoluene	8270D	209000	200000	105	191000	200000	96	50-161	9	30
2,6-Dinitrotoluene	8270D	205000	200000	103	188000	200000	94	50-150	9	30
2-Chloronaphthalene	8270D	223000	200000	112	208000	200000	104	50-150	7	30
2-Chlorophenol	8270D	200000	200000	100	189000	200000	94	50-150	6	30
2-Methylnaphthalene	8270D	201000	200000	101	193000	200000	96	50-150	4	30
2-Methylphenol	8270D	202000	200000	101	192000	200000	96	50-150	6	30
2-Nitroaniline	8270D	227000 J	200000	114	227000 J	200000	114	50-150	<1	30
2-Nitrophenol	8270D	175000	200000	88	166000	200000	83	50-150	5	30
3,3'-Dichlorobenzidine	8270D	202000	200000	101	197000	200000	99	50-150	2	30
3- and 4-Methylphenol Coelution	8270D	201000	200000	100	197000	200000	98	50-150	2	30
3-Nitroaniline	8270D	167000 J	200000	84	152000 J	200000	76	50-150	10	30
4,6-Dinitro-2-methylphenol	8270D	183000 J	200000	92	184000 J	200000	92	15-180	<1	30
4-Bromophenyl Phenyl Ether	8270D	191000	200000	95	183000	200000	92	50-150	4	30
4-Chloro-3-methylphenol	8270D	174000	200000	87	174000	200000	87	39-168	<1	30
4-Chloroaniline	8270D	187000	200000	93 *	181000	200000	90 *	10-86	3	30
4-Chlorophenyl Phenyl Ether	8270D	189000	200000	94	187000	200000	93	50-150	1	30
4-Nitroaniline	8270D	199000 J	200000	100	189000 J	200000	94	50-150	5	30
4-Nitrophenol	8270D	217000 J	200000	108	202000 J	200000	101	28-164	7	30
Acenaphthene	8270D	219000	200000	109	210000	200000	105	50-150	4	30
Acenaphthylene	8270D	236000	200000	118	230000	200000	115	50-150	3	30
Acetophenone	8270D	307000	400000	77	292000	400000	73	50-150	5	30
Anthracene	8270D	225000	200000	112	207000	200000	103	50-150	8	30
Atrazine	8270D	133000	200000	66	126000	200000	63	50-150	5	30
Benz(a)anthracene	8270D	205000	200000	103	205000	200000	103	50-150	<1	30
Benzaldehyde	8270D	84800 J	200000	42 *	78700 J	200000	39 *	50-150	7	30
Benzo(a)pyrene	8270D	236000	200000	118	228000	200000	114	50-150	4	30

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QA/QC Report

Client: Inventum Engineering
Project: RITC Tanks
Sample Matrix: Waste

Service Request: R2109413
Date Analyzed: 10/06/21

Duplicate Lab Control Sample Summary
Semivolatile Organic Compounds by GC/MS

Units:ug/Kg
Basis:As Received

Lab Control Sample RQ2112531-02					Duplicate Lab Control Sample RQ2112531-03					
Analyte Name	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Benzo(b)fluoranthene	8270D	185000	200000	93	179000	200000	89	50-150	4	30
Benzo(g,h,i)perylene	8270D	196000	200000	98	179000	200000	90	50-150	9	30
Benzo(k)fluoranthene	8270D	210000	200000	105	198000	200000	99	50-150	6	30
Biphenyl	8270D	129000	200000	65	121000	200000	60	50-150	7	30
2,2'-Oxybis(1-chloropropane)	8270D	227000	200000	113	201000	200000	101	50-150	12	30
Bis(2-chloroethoxy)methane	8270D	242000	200000	121	231000	200000	115	50-150	5	30
Bis(2-chloroethyl) Ether	8270D	206000	200000	103	208000	200000	104	50-150	1	30
Bis(2-ethylhexyl) Phthalate	8270D	191000	200000	96	188000	200000	94	50-150	1	30
Butyl Benzyl Phthalate	8270D	214000	200000	107	208000	200000	104	50-150	3	30
Caprolactam	8270D	90600 J	200000	45 *	82200 J	200000	41 *	50-150	10	30
Carbazole	8270D	243000	200000	121	235000	200000	117	50-150	3	30
Chrysene	8270D	208000	200000	104	200000	200000	100	50-150	4	30
Di-n-butyl Phthalate	8270D	246000	200000	123	226000	200000	113	50-150	9	30
Di-n-octyl Phthalate	8270D	156000	200000	78	147000	200000	74	50-150	6	30
Dibenz(a,h)anthracene	8270D	188000	200000	94	175000	200000	88	50-150	7	30
Dibenzofuran	8270D	212000	200000	106	205000	200000	102	50-150	4	30
Diethyl Phthalate	8270D	190000	200000	95	179000	200000	90	50-150	6	30
Dimethyl Phthalate	8270D	198000	200000	99	182000	200000	91	50-150	8	30
Fluoranthene	8270D	232000	200000	116	214000	200000	107	50-150	8	30
Fluorene	8270D	207000	200000	104	197000	200000	99	50-150	5	30
Hexachlorobenzene	8270D	199000	200000	100	190000	200000	95	50-150	5	30
Hexachlorobutadiene	8270D	192000	200000	96	181000	200000	91	50-150	6	30
Hexachlorocyclopentadiene	8270D	219000	200000	110	209000	200000	105	50-150	5	30
Hexachloroethane	8270D	199000	200000	99	197000	200000	98	50-150	1	30
Indeno(1,2,3-cd)pyrene	8270D	174000	200000	87	165000	200000	83	50-150	5	30
Isophorone	8270D	213000	200000	106	201000	200000	101	50-150	6	30
N-Nitrosodi-n-propylamine	8270D	202000	200000	101	181000	200000	91	47-145	11	30
N-Nitrosodiphenylamine	8270D	223000	200000	111	211000	200000	106	50-150	5	30
Naphthalene	8270D	211000	200000	105	196000	200000	98	50-150	7	30
Nitrobenzene	8270D	216000	200000	108	209000	200000	105	50-150	3	30
Pentachlorophenol (PCP)	8270D	267000 J	200000	134	252000 J	200000	126	10-164	6	30
Phenanthrene	8270D	218000	200000	109	204000	200000	102	50-150	6	30
Phenol	8270D	201000	200000	100	198000	200000	99	50-150	1	30

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QA/QC Report

Client: Inventum Engineering
Project: RITC Tanks
Sample Matrix: Waste

Service Request: R2109413
Date Analyzed: 10/06/21

Duplicate Lab Control Sample Summary
Semivolatile Organic Compounds by GC/MS

Units:ug/Kg**Basis:**As Received

Analyte Name	Lab Control Sample				Duplicate Lab Control Sample					
	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Pyrene	8270D	239000	200000	119	235000	200000	117	50-150	2	30



Semivolatile Organic Compounds by GC

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QA/QC Report

Client: Inventum Engineering
Project: RITC Tanks
Sample Matrix: Waste

Service Request: R2109413

SURROGATE RECOVERY SUMMARY
Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Extraction Method: EPA 3580A

Sample Name	Lab Code	Decachlorobiphenyl	Tetrachloro-m-xylene
		10-164	10-147
TK-SD-ST22-09102021	R2109413-001	0*	0*
TK-SD-ST23-09102021	R2109413-002	0*	0*
Method Blank	RQ2111974-01	105	115
Lab Control Sample	RQ2111974-02	109	121
Duplicate Lab Control Sample	RQ2111974-03	109	122

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Analytical Report

Client: Inventum Engineering
Project: RITC Tanks
Sample Matrix: Waste

Service Request: R2109413
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ2111974-01

Units: ug/Kg
Basis: As Received

Organochlorine Pesticides by Gas Chromatography

Analysis Method: 8081B
Prep Method: EPA 3580A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
4,4'-DDD	100 U	100	100	10	09/27/21 14:18	9/27/21	
4,4'-DDE	100 U	100	100	10	09/27/21 14:18	9/27/21	
4,4'-DDT	100 U	100	100	10	09/27/21 14:18	9/27/21	
Aldrin	100 U	100	100	10	09/27/21 14:18	9/27/21	
Dieldrin	100 U	100	100	10	09/27/21 14:18	9/27/21	
Endosulfan I	100 U	100	100	10	09/27/21 14:18	9/27/21	
Endosulfan II	100 U	100	100	10	09/27/21 14:18	9/27/21	
Endosulfan Sulfate	100 U	100	100	10	09/27/21 14:18	9/27/21	
Endrin	100 U	100	100	10	09/27/21 14:18	9/27/21	
Endrin Aldehyde	100 U	100	100	10	09/27/21 14:18	9/27/21	
Endrin Ketone	100 U	100	100	10	09/27/21 14:18	9/27/21	
Heptachlor	100 U	100	100	10	09/27/21 14:18	9/27/21	
Heptachlor Epoxide	100 U	100	100	10	09/27/21 14:18	9/27/21	
Methoxychlor	100 U	100	100	10	09/27/21 14:18	9/27/21	
Toxaphene	500 U	500	500	10	09/27/21 14:18	9/27/21	
alpha-BHC	100 U	100	100	10	09/27/21 14:18	9/27/21	
alpha-Chlordane	100 U	100	100	10	09/27/21 14:18	9/27/21	
beta-BHC	100 U	100	100	10	09/27/21 14:18	9/27/21	
delta-BHC	100 U	100	100	10	09/27/21 14:18	9/27/21	
gamma-BHC (Lindane)	100 U	100	100	10	09/27/21 14:18	9/27/21	
gamma-Chlordane	100 U	100	100	10	09/27/21 14:18	9/27/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	105	10 - 164	09/27/21 14:18	
Tetrachloro-m-xylene	115	10 - 147	09/27/21 14:18	

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QA/QC Report

Client: Inventum Engineering
Project: RITC Tanks
Sample Matrix: Waste

Service Request: R2109413
Date Analyzed: 09/27/21

Duplicate Lab Control Sample Summary
Organochlorine Pesticides by Gas Chromatography

Units:ug/Kg
Basis:As Received

Lab Control Sample RQ2111974-02					Duplicate Lab Control Sample RQ2111974-03					
Analyte Name	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
4,4'-DDD	8081B	2080	2000	104	2110	2000	106	42-159	2	30
4,4'-DDE	8081B	2390	2000	120	2410	2000	121	47-147	<1	30
4,4'-DDT	8081B	2350	2000	117	2360	2000	118	41-149	<1	30
Aldrin	8081B	2550	2000	127	2580	2000	129	22-137	1	30
Dieldrin	8081B	2520	2000	126	2560	2000	128	52-144	2	30
Endosulfan I	8081B	2430	2000	122	2470	2000	124	52-136	2	30
Endosulfan II	8081B	2490	2000	125	2530	2000	127	57-138	2	30
Endosulfan Sulfate	8081B	2470	2000	123	2510	2000	125	34-156	2	30
Endrin	8081B	2500	2000	125	2540	2000	127	56-143	2	30
Endrin Aldehyde	8081B	2380	2000	119	2430	2000	121	10-166	2	30
Endrin Ketone	8081B	2430	2000	122	2480	2000	124	59-143	2	30
Heptachlor	8081B	2430	2000	121	2480	2000	124	32-141	2	30
Heptachlor Epoxide	8081B	2500	2000	125	2530	2000	127	51-143	1	30
Methoxychlor	8081B	2020	2000	101	2060	2000	103	56-149	2	30
alpha-BHC	8081B	2540	2000	127	2580	2000	129	36-151	1	30
alpha-Chlordane	8081B	2490	2000	124	2530	2000	126	50-139	1	30
beta-BHC	8081B	2360	2000	118	2380	2000	119	55-149	1	30
delta-BHC	8081B	2600	2000	130	2640	2000	132	29-159	2	30
gamma-BHC (Lindane)	8081B	2520	2000	126	2550	2000	128	41-149	1	30

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QA/QC Report

Client: Inventum Engineering
Project: RITC Tanks
Sample Matrix: Waste

Service Request: R2109413

SURROGATE RECOVERY SUMMARY
Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Extraction Method: EPA 3580A

Sample Name	Lab Code	Decachlorobiphenyl	Tetrachloro-m-xylene
		44-131	33-139
TK-SD-ST22-09102021	R2109413-001	100	84
TK-SD-ST23-09102021	R2109413-002	132*	67
Method Blank	RQ2111974-01	101	88
Lab Control Sample	RQ2111974-02	95	91
Duplicate Lab Control Sample	RQ2111974-03	102	93

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Analytical Report

Client: Inventum Engineering
Project: RITC Tanks
Sample Matrix: Waste

Service Request: R2109413
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ2111974-01

Units: ug/Kg
Basis: As Received

Polychlorinated Biphenyls (PCBs) by GC

Analysis Method: 8082A
Prep Method: EPA 3580A

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Aroclor 1016	2000 U	2000	2000	10	09/27/21 14:01	9/27/21	
Aroclor 1221	4000 U	4000	4000	10	09/27/21 14:01	9/27/21	
Aroclor 1232	2000 U	2000	2000	10	09/27/21 14:01	9/27/21	
Aroclor 1242	2000 U	2000	2000	10	09/27/21 14:01	9/27/21	
Aroclor 1248	2000 U	2000	2000	10	09/27/21 14:01	9/27/21	
Aroclor 1254	2000 U	2000	2000	10	09/27/21 14:01	9/27/21	
Aroclor 1260	2000 U	2000	2000	10	09/27/21 14:01	9/27/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	101	44 - 131	09/27/21 14:01	
Tetrachloro-m-xylene	88	33 - 139	09/27/21 14:01	

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QA/QC Report

Client: Inventum Engineering
Project: RITC Tanks
Sample Matrix: Waste

Service Request: R2109413
Date Analyzed: 09/27/21

Duplicate Lab Control Sample Summary
Polychlorinated Biphenyls (PCBs) by GC

Units:ug/Kg**Basis:**As Received

Lab Control Sample					Duplicate Lab Control Sample					
RQ2111974-02					RQ2111974-03					
Analyte Name	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Aroclor 1016	8082A	8100	10000	81	8820	10000	88	40-140	8	30
Aroclor 1260	8082A	7040	10000	70	8010	10000	80	53-127	13	30

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QA/QC Report

Client: Inventum Engineering
Project: RITC Tanks
Sample Matrix: Waste

Service Request: R2109413

SURROGATE RECOVERY SUMMARY
Chlorinated Herbicides by GC

Analysis Method: 8151A
Extraction Method: Method

Sample Name	Lab Code	2,4-Dichlorophenylacetic
		Acid 10-151
TK-SD-ST22-09102021	R2109413-001	71
TK-SD-ST23-09102021	R2109413-002	58
Method Blank	RQ2111612-04	75
Lab Control Sample	RQ2111612-05	81
Duplicate Lab Control Sample	RQ2111612-06	80

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Analytical Report

Client: Inventum Engineering
Project: RITC Tanks
Sample Matrix: Waste

Service Request: R2109413
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ2111612-04

Units: ug/Kg
Basis: As Received

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-T	100 U	100	100	1	09/22/21 23:57	9/21/21	
2,4,5-TP	100 U	100	100	1	09/22/21 23:57	9/21/21	
2,4-D	100 U	100	100	1	09/22/21 23:57	9/21/21	
Dicamba	100 U	100	100	1	09/22/21 23:57	9/21/21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
2,4-Dichlorophenylacetic Acid	75	10 - 151	09/22/21 23:57	

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QA/QC Report

Client: Inventum Engineering
Project: RITC Tanks
Sample Matrix: Waste

Service Request: R2109413
Date Analyzed: 09/23/21

Duplicate Lab Control Sample Summary
Chlorinated Herbicides by GC

Units:ug/Kg
Basis:As Received

Lab Control Sample
RQ2111612-05

Duplicate Lab Control Sample
RQ2111612-06

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
2,4,5-T	8151A	100 U	50.0	0 *	100 U	50.2	0 *	19-127	NC	30
2,4,5-TP	8151A	100 U	50.0	0 *	100 U	50.2	0 *	18-122	NC	30
2,4-D	8151A	100 U	50.0	0 *	100 U	50.2	0 *	24-165	NC	30
Dicamba	8151A	100 U	50.0	0 *	100 U	50.2	0 *	26-128	NC	30



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BLANKS

Contract: R2109413

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: TK-SD-ST22-0

Preparation Blank Matrix (soil/water): SOIL

Preparation Blank Concentration Units (ug/L, ppt, or mg/kg): MG/KG

Analyte	Initial Calib. Blank ug/L	Continuing Calibration Blank ug/L						Preparation Blank		M
		1	2	3						
Aluminum	120.00 U	120.00 U	120.00 U	120.00 U				12.000 U		P
Antimony	9.40 J	5.60 J	12.00 J	8.30 J				0.540 U		P
Arsenic	7.00 U	7.00 U	7.00 U	7.00 U				0.700 U		P
Barium	15.00 U	15.00 U	15.00 U	15.00 U				1.500 U		P
Beryllium	0.60 U	0.60 U	0.60 U	0.60 U				0.060 U		P
Boron	15.00 U	15.00 U	15.00 U	15.00 U				1.540 J		P
Cadmium	0.86 U	0.86 U	0.86 U	0.86 U				0.086 U		P
Mercury	0.078 U	0.078 U	0.078 U	0.078 U				0.008 U		CV
Calcium	320.00 U	320.00 U	320.00 U	320.00 U				32.000 U		P
Chromium	3.50 U	3.50 U	3.50 U	3.50 U				0.350 U		P
Cobalt	0.83 U	0.83 U	0.83 U	0.83 U				0.083 U		P
Copper	1.30 U	1.30 U	1.30 U	1.30 U				0.130 U		P
Iron	130.00 U	130.00 U	130.00 U	130.00 U				13.000 U		P
Lead	4.00 U	4.00 U	4.00 U	4.00 U				0.400 U		P
Magnesium	130.00 U	130.00 U	130.00 U	130.00 U				13.000 U		P
Manganese	1.60 U	1.60 U	1.60 U	1.60 U				0.170 J		P
Molybdenum	8.60 J	6.40 J	8.90 J	7.20 J				0.390 U		P
Nickel	6.60 U	6.60 U	6.60 U	6.60 U				0.660 U		P
Potassium	500.00 U	500.00 U	500.00 U	500.00 U				50.000 U		P
Selenium	5.40 U	5.40 U	5.40 U	5.40 U				0.540 U		P
Silver	0.90 U	0.90 U	0.90 U	0.90 U				0.090 U		P
Sodium	190.00 U	190.00 U	190.00 U	190.00 U				19.000 U		P
Thallium	6.50 U	6.50 U	6.50 U	6.50 U				0.650 U		P
Tin	19.00 U	19.00 U	19.00 U	19.00 U				1.900 U		P
Vanadium	0.69 U	0.69 U	0.69 U	0.69 U				0.069 U		P
Zinc	14.00 U	14.00 U	14.00 U	14.00 U				1.400 U		P

Comments:

METALS

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BLANKS

Contract: R2109413

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: TK-SD-ST22-0

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L, ppt, or mg/kg): UG/L

Analyte	Initial Calib. Blank ug/L	C	Continuing Calibration Blank ug/L						Preparation Blank	C	M
			1	C	2	C	3	C			
Aluminum			120.00	U	120.00	U	120.00	U			P
Antimony			6.60	J	5.70	J	6.50	J			P
Arsenic			7.00	U	7.00	U	7.00	U			P
Barium			15.00	U	15.00	U	15.00	U			P
Beryllium			0.60	U	0.60	U	0.60	U			P
Boron			15.00	U	15.00	U	15.00	U			P
Cadmium			0.86	U	0.86	U	0.86	U			P
Mercury			0.078	U	0.078	U	0.078	U			CV
Calcium			320.00	U	320.00	U	320.00	U			P
Chromium			3.50	U	3.50	U	3.50	U			P
Cobalt			0.83	U	0.83	U	0.83	U			P
Copper			1.30	U	1.30	U	1.30	U			P
Iron			130.00	U	130.00	U	130.00	U			P
Lead			4.00	U	4.00	U	4.00	U			P
Magnesium			130.00	U	130.00	U	130.00	U			P
Manganese			1.60	U	1.60	U	1.60	U			P
Molybdenum			7.10	J	7.30	J	7.50	J			P
Nickel			6.60	U	6.60	U	6.60	U			P
Potassium			500.00	U	500.00	U	500.00	U			P
Selenium			5.40	U	5.40	U	5.40	U			P
Silver			0.90	U	0.90	U	0.90	U			P
Sodium			190.00	U	190.00	U	190.00	U			P
Thallium			6.50	U	6.50	U	6.50	U			P
Tin			19.00	U	19.00	U	19.00	U			P
Vanadium			0.69	U	0.69	U	0.69	U			P
Zinc			14.00	U	14.00	U	14.00	U			P

Comments:

METALS

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BLANKS

Contract: R2109413

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: TK-SD-ST22-0

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L, ppt, or mg/kg): UG/L

Analyte	Initial Calib. Blank ug/L	C	Continuing Calibration Blank ug/L						Preparation Blank	C	M
			1	C	2	C	3	C			
Aluminum			120.00	U							P
Antimony			5.70	J							P
Arsenic			7.00	U							P
Barium			15.00	U							P
Beryllium			0.60	U							P
Boron			15.00	U							P
Cadmium			0.86	U							P
Calcium			320.00	U							P
Chromium			3.50	U							P
Cobalt			0.83	U							P
Copper			1.30	U							P
Iron			130.00	U							P
Lead			4.00	U							P
Magnesium			130.00	U							P
Manganese			1.60	U							P
Molybdenum			7.80	J							P
Nickel			6.60	U							P
Potassium			500.00	U							P
Selenium			5.40	U							P
Silver			0.90	U							P
Sodium			190.00	U							P
Thallium			6.50	U							P
Tin			19.00	U							P
Vanadium			0.69	U							P
Zinc			14.00	U							P

Comments:

METALS

-7-

LABORATORY CONTROL SAMPLE

Contract: R2109413

Lab Code: Case No.: SAS No.: SDG NO.: TK-SD-ST22-0

Solid LCS Source: CPI

Aqueous LCS Source:

Analyte	Aqueous (ug/L			Solid (mg/K				
	True	Found	%R	True	Found	C	Limits	%R
Aluminum				200	196.15		160 240	98
Antimony				50	46.23		40 60	92
Arsenic				4	3.86		3.2 4.8	96
Barium				200	199.81		160 240	100
Beryllium				5	4.83		4 6	97
Boron				100	93.87		160 240	94
Cadmium				5	4.89		4 6	98
Mercury				0.10	0.097		0.077 0.133	97
Calcium				200	204.66		160 240	102
Chromium				20	20.13		16 24	101
Cobalt				50	49.88		40 60	100
Copper				25	24.68		20 30	99
Iron				100	99.33		80 120	99
Lead				50	47.94		40 60	96
Magnesium				200	188.41		160 240	94
Manganese				50	48.85		40 60	98
Molybdenum				50	49.11		40 60	98
Nickel				50	48.91		40 60	98
Potassium				2000	1931.14		1600 2400	97
Selenium				101	84.13		80.8 121	83
Silver				5	4.68		4 6	94
Sodium				2000	1966.67		1600 2400	98
Thallium				200	179.95		160 240	90
Tin				500	479.16		400 600	96
Vanadium				50	49.05		40 60	98
Zinc				50	47.06		40 60	94

Comments:



General Chemistry

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Analytical Report

Client: Inventum Engineering
Project: RITC Tanks
Sample Matrix: Waste

Sample Name: Method Blank
Lab Code: R2109413-MB

Service Request: R2109413
Date Collected: NA
Date Received: NA

Basis: As Received

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
Ammonia as Nitrogen, undistilled	350.1M	1.4 U	mg/Kg	5.0	1.4	1	10/01/21 22:10	10/01/21	
Cyanide, Total	9012B	0.30 U	mg/Kg	0.30	-	1	09/15/21 22:16	09/15/21	

ALS Group USA, Corp.

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QA/QC Report

Client: Inventum Engineering
Project: RITC Tanks
Sample Matrix: Waste

Service Request: R2109413
Date Analyzed: 09/15/21 - 10/01/21

Lab Control Sample Summary
General Chemistry Parameters

Units:mg/Kg**Basis:**As Received**Lab Control Sample**

R2109413-LCS1

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Ammonia as Nitrogen, undistilled	350.1M	26.1	25.0	105	90-110
Cyanide, Total	9012B	3.00	3.00	100	85-115

ALS Group USA, Corp.

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QA/QC Report

Client: Inventum Engineering
Project: RITC Tanks
Sample Matrix: Waste

Service Request: R2109413
Date Analyzed: 09/21/21

Lab Control Sample Summary
General Chemistry Parameters

Units:Percent**Basis:**As Received**Lab Control Sample**

R2109413-LCS1

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Water	ASTM E203-01	102	100	102	90-110

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QA/QC Report

Client: Inventum Engineering
Project: RITC Tanks
Sample Matrix: Waste

Service Request: R2109413
Date Analyzed: 09/15/21

Lab Control Sample Summary
General Chemistry Parameters

Units:mg/Kg**Basis:**As Received**Lab Control Sample**

R2109413-LCS2

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Cyanide, Total	9012B	17.8	18.0	99	85-115

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QA/QC Report

Client: Inventum Engineering
Project: RITC Tanks
Sample Matrix: Waste

Service Request: R2109413
Date Analyzed: 09/21/21

Lab Control Sample Summary
General Chemistry Parameters

Units:Percent**Basis:**As Received**Lab Control Sample**

R2109413-LCS2

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Water	ASTM E203-01	102	100	102	90-110



Subcontracted Analytical Parameters

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October 31, 2021

Ms. Meghan Pedro
ALS Environmental-Rochester
1565 Jefferson Road
Bldg 300, Suite 360
Rochester, NY 14623

Certificate of Analysis

Project Name:	2021-TCLP BORON; TOTAL URANIUM,SULFUR	Workorder:	3201052
Purchase Order:	58-R2109413	Workorder ID:	AER623 R2109413

Dear Ms. Pedro:

Enclosed are the analytical results for samples received by the laboratory on Wednesday, September 15, 2021.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Ms. Sarah S Leung (Project Coordinator) at (717) 944-5541.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable. For a specific list of accredited analytes, refer to the certifications section of the ALS website at www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads.

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ALS Spring City: 10 Riverside Drive, Spring City, PA 19475 610-948-4903

CC: Mr. Michael Chevalier , Mr. Brady Kalkman , Reports and Invoices
, Ms. Janice Jaeger

*This page is included as part of the Analytical Report and
must be retained as a permanent record thereof.*



Ms. Sarah S Leung
Project Coordinator

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**SAMPLE SUMMARY**

Workorder: 3201052 AER623|R2109413

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
3201052001	TK-SD-ST22-09102021	Solid	9/10/2021 00:00	9/15/2021 09:55	Collected by Client
3201052002	TK-SD-ST23-09102021	Solid	9/10/2021 00:00	9/15/2021 09:55	Collected by Client

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SAMPLE SUMMARY

Workorder: 3201052 AER623|R2109413

Notes

- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are performed in the laboratory and are therefore analyzed out of hold time.
- Method references listed on this report beginning with the prefix "S" followed by a method number (such as S2310B-97) refer to methods from "Standard Methods for the Examination of Water and Wastewater".
- For microbiological analyses, the "Prepared" value is the date/time into the incubator and the "Analyzed" value is the date/time out the incubator.
- An Analysis-Prep Method Cross Reference Table is included after Analytical Results & Qualifiers section in this report.

Standard Acronyms/Flags

C	Please reference the Project Summary section of this Certificate of Analysis for case narrative comments.
J	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference
LOD	DoD Limit of Detection
LOQ	DoD Limit of Quantitation
DL	DoD Detection Limit
I	Indicates reported value is greater than or equal to the Method Detection Limit (MDL) but less than the Report Detection Limit (RDL)
(S)	Surrogate Compound
NC	Not Calculated
*	Result outside of QC limits

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PROJECT SUMMARY

Workorder: 3201052 AER623|R2109413

Workorder Comments

Temperature of sample taken at time of sample receipt in the laboratory. See chain of custody for actual temperature.

Sample Comments

Lab ID: 3201052001

Sample ID: TK-SD-ST22-09102021

Sample Type: SAMPLE

The analysis for ignitability is performed using a modified method 1010A that provides a flashpoint temperature for a solid sample.

Lab ID: 3201052002

Sample ID: TK-SD-ST23-09102021

Sample Type: SAMPLE

The analysis for ignitability is performed using a modified method 1010A that provides a flashpoint temperature for a solid sample.

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ANALYTICAL RESULTS

Workorder: 3201052 AER623|R2109413

Lab ID: **3201052001**
Sample ID: **TK-SD-ST22-09102021**

Date Collected: 9/10/2021 00:00 Matrix: Solid
Date Received: 9/15/2021 09:55

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
WET CHEMISTRY										
Cyanide, Reactive	ND	C	mg/kg	10	0.011	SW-846 7.3CN	9/19/21 17:00 VXF	9/23/21 17:20	MXF	A
Ignitability	See comment	C,1,2	Deg. F			SW-846 1010AM		9/17/21 09:35	II	A
Moisture	26.2	C	%	0.1	0.01	S2540G-11		9/17/21 11:50	IXK	A
Sulfide, Reactive	5.6J	C,J	mg/kg	6.2	1.4	SW846 7.3	9/19/21 17:00 VXF	9/20/21 02:48	VXF	A
Total Solids	73.8	C	%	0.1	0.01	S2540G-11		9/17/21 11:50	IXK	A
METALS										
Sulfur	3890	C	mg/kg	110	36.6	SW846 6010C	9/26/21 20:15 SXC	9/27/21 21:34	SRT	A1
Uranium, Total	ND	C	mg/kg	6.3	2.0	SW846 6020A	10/24/21 20:16 SXC	10/31/21 14:20	MSA	A2

Ms. Sarah S Leung
Project Coordinator

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ANALYTICAL RESULTS

Workorder: 3201052 AER623|R2109413

Lab ID: **3201052002**
Sample ID: **TK-SD-ST23-09102021**

Date Collected: 9/10/2021 00:00 Matrix: Solid
Date Received: 9/15/2021 09:55

Parameters	Results	Flag	Units	RDL	MDL	Method	Prepared By	Analyzed	By	Cntr
WET CHEMISTRY										
Cyanide, Reactive	ND	C	mg/kg	10	0.011	SW-846 7.3CN	9/19/21 17:00 VXF	9/23/21 17:20	MXF	A
Ignitability	See comment	C,1,2	Deg. F			SW-846 1010AM		9/17/21 09:35	II	A
Moisture	21.2	C	%	0.1	0.01	S2540G-11		9/17/21 11:50	IXK	A
Sulfide, Reactive	6.4	C	mg/kg	6.2	1.4	SW846 7.3	9/19/21 17:00 VXF	9/20/21 02:48	VXF	A
Total Solids	78.8	C	%	0.1	0.01	S2540G-11		9/17/21 11:50	IXK	A
METALS										
Sulfur	3790	C	mg/kg	103	34.3	SW846 6010C	9/21/21 22:13 SXC	9/22/21 10:09	SRT	A1
Uranium, Total	ND	C	mg/kg	5.2	1.6	SW846 6020A	9/21/21 22:13 SXC	10/22/21 08:47	MSA	A1

Ms. Sarah S Leung
Project Coordinator

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ANALYTICAL RESULTS

Workorder: 3201052 AER623|R2109413

PARAMETER QUALIFIERS

Lab ID	#	Sample ID	Analytical Method	Analyte
3201052001	1	TK-SD-ST22-09102021	SW-846 1010AM	Ignitability
According to Pa/USEPA regulations, this sample is not considered to be ignitable. (Ref 40 CFR 261.21)				
3201052001	2	TK-SD-ST22-09102021	SW-846 1010AM	Ignitability
The sample did not flash up to 200°F.				
3201052002	1	TK-SD-ST23-09102021	SW-846 1010AM	Ignitability
According to Pa/USEPA regulations, this sample is not considered to be ignitable. (Ref 40 CFR 261.21)				
3201052002	2	TK-SD-ST23-09102021	SW-846 1010AM	Ignitability
The sample did not flash up to 200°F.				

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ANALYSIS - PREP METHOD CROSS REFERENCE TABLE

Workorder: 3201052 AER623|R2109413

Lab ID	Sample ID	Analysis Method	Prep Method	Leachate Method
3201052001	TK-SD-ST22-09102021	S2540G-11		
3201052001	TK-SD-ST22-09102021	SW-846 1010AM		
3201052001	TK-SD-ST22-09102021	SW-846 7.3CN	SW-846 7.3CN	
3201052001	TK-SD-ST22-09102021	SW846 6010C	SW846 3051	
3201052001	TK-SD-ST22-09102021	SW846 6020A	SW846 3051	
3201052001	TK-SD-ST22-09102021	SW846 7.3	SW846 7.3	
3201052002	TK-SD-ST23-09102021	S2540G-11		
3201052002	TK-SD-ST23-09102021	SW-846 1010AM		
3201052002	TK-SD-ST23-09102021	SW-846 7.3CN	SW-846 7.3CN	
3201052002	TK-SD-ST23-09102021	SW846 6010C	SW846 3051	
3201052002	TK-SD-ST23-09102021	SW846 6020A	SW846 3051	
3201052002	TK-SD-ST23-09102021	SW846 7.3	SW846 7.3	

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QUALITY CONTROL DATA

Workorder: 3201052 AER623|R2109413

QC Batch: MDIG/91728 **Analysis Method:** SW846 6010C
QC Batch Method: SW846 3051
Associated Lab Samples: 3201052001, 3201052002

METHOD BLANK: 3394616

Parameter	Blank Result	Units	Reporting Limit
Sulfur	ND	mg/kg	10.0
Uranium, Total	ND	mg/kg	2.5

LABORATORY CONTROL SAMPLE: 3394617

Parameter	LCS % Rec	Units	Spike Conc.	LCS Result	% Rec Limit
Sulfur	105	mg/kg	1000	1050	80 - 120

LABORATORY CONTROL SAMPLE: 3394618

Parameter	LCS % Rec	Units	Spike Conc.	LCS Result	% Rec Limit
Uranium, Total	96.9	mg/kg	10	9.7	

MATRIX SPIKE: 3394621 DUPLICATE: 3394622 ORIGINAL: 3199919001

****NOTE - The Original Result shown below is a raw result and is only used for the purpose of calculating Matrix Spike percent recoveries. This result is not a final value and cannot be used as such.

Parameter	Original Result	Units	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD
Sulfur	2780.1047	mg/kg	921	3682.320	3381.944	98	60.7*	75 - 125	8.5	20

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QUALITY CONTROL DATA

Workorder: 3201052 AER623|R2109413

QC Batch: MDIG/91769

Analysis Method: SW846 6010C

QC Batch Method: SW846 3051

Associated Lab Samples: 3201052001

METHOD BLANK: 3396467

Parameter	Blank Result	Units	Reporting Limit
Sulfur	ND	mg/kg	10.0

LABORATORY CONTROL SAMPLE: 3396468

Parameter	LCS % Rec	Units	Spike Conc.	LCS Result	% Rec Limit
Sulfur	99.1	mg/kg	1000	991	80 - 120

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**QUALITY CONTROL DATA**

Workorder: 3201052 AER623|R2109413

QC Batch: MDIG/92243**Analysis Method:** SW846 6020A**QC Batch Method:** SW846 3051**Associated Lab Samples:** 3201052001**METHOD BLANK: 3410652**

Parameter	Blank Result	Units	Reporting Limit
Uranium, Total	ND	mg/kg	2.5

LABORATORY CONTROL SAMPLE: 3410653

Parameter	LCS % Rec	Units	Spike Conc.	LCS Result	% Rec Limit
Uranium, Total	91.6	mg/kg	10	9.2	

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QUALITY CONTROL DATA

Workorder: 3201052 AER623|R2109413

QC Batch: WCPR/55807 **Analysis Method:** SW-846 7.3CN
QC Batch Method: SW-846 7.3CN
Associated Lab Samples: 3201052001, 3201052002

METHOD BLANK: 3392336

Parameter	Blank Result	Units	Reporting Limit
Cyanide, Reactive	ND	mg/kg	10

LABORATORY CONTROL SAMPLE: 3392337

Parameter	LCS % Rec	Units	Spike Conc.	LCS Result	% Rec Limit
Cyanide, Reactive	18.3	mg/kg	10	1.8J	0 - 92

SAMPLE DUPLICATE: 3392338 ORIGINAL: 3199655002

Parameter	Original Result	Units	DUP Result	RPD	Max RPD
Cyanide, Reactive	.00499	mg/kg	0	NC	20

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QUALITY CONTROL DATA

Workorder: 3201052 AER623|R2109413

QC Batch: WCPR/55808 **Analysis Method:** SW846 7.3
QC Batch Method: SW846 7.3
Associated Lab Samples: 3201052001, 3201052002

METHOD BLANK: 3392339

Parameter	Blank Result	Units	Reporting Limit
Sulfide, Reactive	2.8J	mg/kg	6.2

LABORATORY CONTROL SAMPLE: 3392340

Parameter	LCS % Rec	Units	Spike Conc.	LCS Result	% Rec Limit
Sulfide, Reactive	67.6	mg/kg	569	384	49 - 148

SAMPLE DUPLICATE: 3392341 ORIGINAL: 3199655002

Parameter	Original Result	Units	DUP Result	RPD	Max RPD
Sulfide, Reactive	5.58325	mg/kg	2.39521	79.9*	20

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QUALITY CONTROL DATA

Workorder: 3201052 AER623|R2109413

QC Batch: WETC/260327 **Analysis Method:** S2540G-11
QC Batch Method: S2540G-11
Associated Lab Samples: 3201052001, 3201052002

SAMPLE DUPLICATE: 3392715 ORIGINAL: 3200420001

Parameter	Original Result	Units	DUP Result	RPD	Max RPD
Moisture	.0994	%	.4016	121*	10
Total Solids	99.9005	%	99.5983	.3	5

SAMPLE DUPLICATE: 3392716 ORIGINAL: 3200420011

Parameter	Original Result	Units	DUP Result	RPD	Max RPD
Moisture	1.8348	%	2.1621	16.4*	10
Total Solids	98.1651	%	97.8378	.33	5

SAMPLE DUPLICATE: 3392717 ORIGINAL: 3200798001

Parameter	Original Result	Units	DUP Result	RPD	Max RPD
Moisture	99.734	%	99.7916	.06	10
Total Solids	.2659	%	.2083	24.3*	5

SAMPLE DUPLICATE: 3392718 ORIGINAL: 3200905001

Parameter	Original Result	Units	DUP Result	RPD	Max RPD
Moisture	23.6566	%	24.5622	3.76	10
Total Solids	76.3433	%	75.4377	1.19	5

SAMPLE DUPLICATE: 3392719 ORIGINAL: 3200938001

Parameter	Original Result	Units	DUP Result	RPD	Max RPD
Moisture	11.4811	%	11.8103	2.83	10
Total Solids	88.5188	%	88.1896	.37	5

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**QUALITY CONTROL DATA**

Workorder: 3201052 AER623|R2109413

SAMPLE DUPLICATE: 3392720 ORIGINAL: 3201050001

Parameter	Original Result	Units	DUP Result	RPD	Max RPD
Moisture	47.5777	%	47.7219	.3	10
Total Solids	52.4222	%	52.278	.28	5

SAMPLE DUPLICATE: 3392721 ORIGINAL: 3201063002

Parameter	Original Result	Units	DUP Result	RPD	Max RPD
Moisture	6.8027	%	6.8716	1.01	10
Total Solids	93.1972	%	93.1283	.07	5

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**QUALITY CONTROL DATA**

Workorder: 3201052 AER623|R2109413

QC Batch: WETC/260376**Analysis Method:** SW846 7.3**QC Batch Method:** SW846 7.3**Associated Lab Samples:**

METHOD BLANK: 3393338

Parameter	Blank Result	Units	Reporting Limit
Sulfide, Reactive	ND	mg/kg	6.3

METHOD BLANK: 3393340

Parameter	Blank Result	Units	Reporting Limit
Sulfide, Reactive	ND	mg/kg	6.3

METHOD BLANK: 3393342

Parameter	Blank Result	Units	Reporting Limit
Sulfide, Reactive	ND	mg/kg	6.3

ALS Environmental Laboratory Locations Across North America**Canada:** Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: 3201052 AER623|R2109413

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
3201052001	TK-SD-ST22-09102021	SW-846 7.3CN	WCPR/55807	SW-846 7.3CN	WETC/260467
3201052002	TK-SD-ST23-09102021	SW-846 7.3CN	WCPR/55807	SW-846 7.3CN	WETC/260467
3201052001	TK-SD-ST22-09102021	SW846 7.3	WCPR/55808	SW846 7.3	WETC/260376
3201052002	TK-SD-ST23-09102021	SW846 7.3	WCPR/55808	SW846 7.3	WETC/260376
3201052001	TK-SD-ST22-09102021			S2540G-11	WETC/260327
3201052002	TK-SD-ST23-09102021			S2540G-11	WETC/260327
3201052002	TK-SD-ST23-09102021	SW846 3051	MDIG/91728	SW846 6010C	META/83191
3201052002	TK-SD-ST23-09102021	SW846 3051	MDIG/91728	SW846 6020A	META/83714
3201052001	TK-SD-ST22-09102021	SW846 3051	MDIG/91769	SW846 6010C	META/83257
3201052001	TK-SD-ST22-09102021	SW846 3051	MDIG/92243	SW846 6020A	META/83915

ALS Environmental Laboratory Locations Across North America

Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife **United States:** Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York **Mexico:** Monterrey

ALS Environmental Chain of Custody

1565 Jefferson Rd, Building 300 • Rochester, NY 14623 • 585-288-5380 • FAX 585-288-8475

ALS Contact: Meghan Pedro



3201052

Project Number: R2109413
Project Manager: Meghan Pedro
QAP: LAB QAP

Lab Code	Sample ID	# of Cont.	Matrix	Sample		Lab ID
				Date	Time	
R2109413-001	TK-SD-ST22-09102021	1	Waste	9/10/21		Middletown ALS
R2109413-002	TK-SD-ST23-09102021	1	Waste	9/10/21		Middletown ALS

CN React 9014
Flash 1010A
Misc Out 1 None
Misc Out 2 None
Sulfide React 9034

Test Comments
Misc Out 1 - None
Misc Out 2 - None

R2109413-001,2
R2109413-001,2

Total Uranium
Total Sulfur

2° 573

Special Instructions/Comments H - Test is On Hold P - Test is Authorized for Prep Only	Turnaround Requirements RUSH (Surcharges Apply) PLEASE CIRCLE WORK DAYS 1 2 3 4 5 X STANDARD Requested FAX Date: _____ Requested Report Date: 10/01/21	Report Requirements I. Results Only X II. Results + QC Summaries III. Results + QC and Calibration Summaries X IV. Data Validation Report with Raw Data PQL/MDL/J Y EDD Y NYS DEC EQUIS 49 Eqs 89205 Honeywell	Invoice Information PO# 58R2109413 Bill to
---	---	---	---

Relinquished By: Sherry L. 9/14/21 1600 Received By: Fed ex

Fed ex

CHS ALS

01/15/21 0955

Airbill Number:

R2109413

— Ship To: Middletown ALS
ALS Environmental - Middletown
301 Fulling Mill Rd.
Middletown, PA 17057

PC

Date

SMO

Date

Instructions:

Ice

Dry Ice

No Ice

Shipping:

Overnight

2nd Day

Ground

Bill to Client Account

Comments:

ALS Group USA, Corp.
www.alsglobal.com
An ALS Limited Company



301 Fulling Mill Road
Middletown, PA 17057

P: (717) 944-5541

F: (717) 944-1430

Condition of Sample Receipt Form

3201052

Client: _____ Work Order: _____

ALS Environmental - Rochester

Analyses: _____

Date: _____

SHC

9/15/21

1. Were airbills / tracking numbers present and recorded? NONE ☒ YES ☐ NO
Tracking number: 4889 5096 0653
2. Are Custody Seals on shipping containers intact? NONE ☒ YES ☐ NO
3. Are Custody Seals on sample containers intact? ☒ NONE ☐ YES ☐ NO
4. Is there a COC (Chain-of-Custody) present? ☒ YES ☐ NO
5. Are the COC and bottle labels complete, legible and in agreement? YES ☒ NO ☐ NO
 - 5a. Does the COC contain sample locations? ☒ YES ☐ NO
 - 5b. Does the COC contain date and time of sample collection for all samples? No time YES ☒ NO ☐ NO
 - 5c. Does the COC contain sample collectors name? YES ☒ NO ☐ NO
 - 5d. Does the COC note the type(s) of preservation for all bottles? G/LWP YES ☒ NO ☐ NO
 - 5e. Does the COC note the number of bottles submitted for each sample? ☒ YES ☐ NO
 - 5f. Does the COC note the type of sample, composite or grab? YES ☒ NO ☐ NO
 - 5g. Does the COC note the matrix of the sample(s)? Waste SL ☒ YES ☐ NO
6. Are all aqueous samples requiring preservation preserved correctly? ☒ N/A ☐ YES ☐ NO
7. Were all samples placed in the proper containers for the requested analyses, with sufficient volume? ☒ YES ☐ NO
8. Are all samples within holding times for the requested analyses? ☒ YES ☐ NO
9. Were all sample containers received intact and headspace free when required? (not broken, leaking, frozen, etc.) ☒ YES ☐ NO
10. Did we receive trip blanks (applies only for methods EPA 504, EPA 524.2 and 1631 E (LL Hg)? ☒ N/A ☐ YES ☐ NO
11. Were the samples received on ice? ☒ YES ☐ NO
12. Were sample temperatures measured at 0.0-6.0°C ☒ YES ☐ NO
13. Are the samples DW matrix? If YES, fill out Reportable Drinking Water questions below. YES ☒ NO ☐ NO
 - 13a. Are the samples required for SDWA compliance reporting? N/A ☐ YES ☐ NO
 - 13b. Did the client provide a SDWA PWS ID#? N/A ☐ YES ☐ NO
 - 13c. Are all aqueous unpreserved SDWA samples pH 5-9? N/A ☐ YES ☐ NO
 - 13d. Did the client provide the SDWA sample location ID/Description? N/A ☐ YES ☐ NO
 - 13e. Did the client provide the SDWA sample type (D, E, R, C, P, S)? N/A ☐ YES ☐ NO

Cooler #: _____

Temperature (°C): 2°

Thermometer ID: 573

Radiological (µCi): 3

COMMENTS (Required for all NO responses above and any sample non-conformance):

³ Final determination of correct preservation for analysis such as volatiles, microbiology, and oil and grease is made in the analytical department at the time of or following the analysis



October 14, 2021

Client: Inventum Engineering
481 Carlisle Drive
Herndon, VA 20170

Attn: John Black

Project: RITC Tanks

ALS: R2109413

Date Received: 9/11/21 0935

Certificate of Analysis

Sample ID:	Sample Date and Time:		Lab #:	Carbon, Total	Hydrogen, Total	Nitrogen, Total	Heating Value	Fluorine, Total
				As Received wt%	D5291 As Received wt%	As Received wt%	D4809 As Received BTU/lb	EPA 5050/9056 As Received ppm
TK-SD-ST22-09102021	n/a	n/a	R2109413-001	56.47	4.99	0.51	15,054	974
TK-SD-ST23-09102021	n/a	n/a	R2109413-002	74.03	9.77	0.37	17,185	<44

Ralph V. Poulsen, Client Services Manager



October 14, 2021

Client: Inventum Engineering
481 Carlisle Drive
Herndon, VA 20170
Attn: John Black
Project: RITC Tanks
ALS: R2109413

Date Received: 9/11/21 0935

Quality Control

Sample ID:	Sample Date and Time:	Lab #:	Carbon, Total As Received wt%	Hydrogen, Total D5291 As Received wt%	Nitrogen, Total As Received wt%	Heating Value D4809 As Received BTU/lb	Fluorine, Total EPA 5050/9056 As Received ppm
Analysis Date			10/13/21	10/13/21	10/13/21	10/09/21	10/09/21
Prep Blank			0.57	<0.5	<0.1	n/a	<52
LCS			ACET	ACET	ACET	Benzoic Acid	IV-59
CN			6709	6709	6709	6643	6650
	Observed Value		72.25	6.96	10.5	11,387	1,047
	True Value		71.09	6.71	10.4	11,373	1,000
	%R		101.6	103.7	101.0	100.1	104.7
Duplicate			T2101713-001	T2101713-001	T2101713-001	T2101593-001	R2109413-001
	Observed Value		85.16	14.23	<0.1	8,929	974
	Duplicate Value		84.44	14.34	<0.1	8,890	1,140
	%RPD		0.8	0.8	n/a	0.4	15.7



PARADIGM
ENVIRONMENTAL SERVICES, INC.

Analytical Report For
Inventum Engineering, P.C.

For Lab Project ID

221448

Referencing

ST23 Remaining Parameters

Prepared

Friday, April 15, 2022

Any noncompliant QC parameters or other notes impacting data interpretation are flagged or documented on the final report or are noted below:

Portions of the enclosed report reflects analysis that has been subcontracted and are presented in their original form.

Emily Farmer

Certifies that this report has been approved by the Technical Director or Designee

179 Lake Avenue • Rochester, NY 14608 • (585) 647-2530 • Fax (585) 647-3311 • ELAP ID# 10958

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

Report Prepared Friday, April 15, 2022

Lab Project ID: 221448

 Client: **Inventum Engineering, P.C.**

Project Reference: ST23 Remaining Parameters

Sample Identifier: ST23-TCLP-04052022

Lab Sample ID: 221448-01

Date Sampled: 4/5/2022 11:45

Matrix: TCLP Extract

Date Received 4/6/2022

TCLP Semi-Volatile Organics

Analyte	Result	Units	Regulatory Limit	Qualifier	Date Analyzed
1,4-Dichlorobenzene	< 4000	ug/L	7500		4/14/2022 13:45
2,4,5-Trichlorophenol	< 4000	ug/L	400000		4/14/2022 13:45
2,4,6-Trichlorophenol	< 4000	ug/L	2000		4/14/2022 13:45
2,4-Dinitrotoluene	< 4000	ug/L	130		4/14/2022 13:45
Cresols (as m,p,o-Cresol)	58900	ug/L	200000		4/14/2022 13:45
Hexachlorobenzene	< 4000	ug/L	130		4/14/2022 13:45
Hexachlorobutadiene	< 4000	ug/L	500		4/14/2022 13:45
Hexachloroethane	< 4000	ug/L	3000		4/14/2022 13:45
Nitrobenzene	< 4000	ug/L	2000		4/14/2022 13:45
Pentachlorophenol	< 8000	ug/L	100000		4/14/2022 13:45
Pyridine	< 4000	ug/L	5000	B	4/14/2022 13:45

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2,4,6-Tribromophenol	NC	29.6 - 139		4/14/2022 13:45
2-Fluorobiphenyl	NC	10 - 124		4/14/2022 13:45
2-Fluorophenol	NC	10 - 122		4/14/2022 13:45
Nitrobenzene-d5	NC	28.7 - 119		4/14/2022 13:45
Phenol-d5	NC	10 - 115		4/14/2022 13:45
Terphenyl-d14	NC	32.2 - 142		4/14/2022 13:45

Method Reference(s): EPA 8270D
 EPA 1311 / 3510C
 Preparation Date: 4/12/2022
 Data File: B61122.D

TCLP Mercury

Analyte	Result	Units	Regulatory Limit	Qualifier	Date Analyzed
Mercury	< 0.00200	mg/L	0.2		4/8/2022 10:38

Method Reference(s): EPA 7470A
 EPA 1311
 Preparation Date: 4/7/2022
 Data File: Hg220408A

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

Lab Project ID: 221448
Client: **Inventum Engineering, P.C.**
Project Reference: ST23 Remaining Parameters

Sample Identifier: ST23-TCLP-04052022

Lab Sample ID: 221448-01

Date Sampled: 4/5/2022 11:45

Matrix: TCLP Extract

Date Received 4/6/2022

TCLP Pesticides

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Regulatory Limit</u>	<u>Qualifier</u>	<u>Date Analyzed</u>
Chlordane	< 2.00	ug/L	30		4/14/2022 16:15
Endrin	< 2.00	ug/L	20		4/14/2022 16:15
gamma-BHC (Lindane)	< 1.00	ug/L	400		4/14/2022 16:15
Heptachlor	< 1.00	ug/L	8		4/14/2022 16:15
Heptachlor Epoxide	< 1.00	ug/L	8		4/14/2022 16:15
Methoxychlor	< 2.00	ug/L	10000		4/14/2022 16:15
Toxaphene	< 20.0	ug/L	500		4/14/2022 16:15

<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Limits</u>	<u>Outliers</u>	<u>Date Analyzed</u>
Decachlorobiphenyl (1)	177	15.5 - 160	*	4/14/2022 16:15
Tetrachloro-m-xylene (1)	186	16.9 - 135	*	4/14/2022 16:15

Method Reference(s): EPA 8081B
 EPA 1311 / 3510C
Preparation Date: 4/12/2022

TCLP RCRA Metals (ICP)

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Regulatory Limit</u>	<u>Qualifier</u>	<u>Date Analyzed</u>
Arsenic	< 0.500	mg/L	5		4/7/2022 12:25
Barium	< 0.500	mg/L	100		4/7/2022 12:25
Cadmium	< 0.0250	mg/L	1		4/7/2022 12:25
Chromium	< 0.500	mg/L	5		4/7/2022 12:25
Lead	< 0.500	mg/L	5		4/7/2022 12:25
Selenium	< 0.200	mg/L	1		4/7/2022 12:25
Silver	< 0.500	mg/L	5		4/7/2022 12:25

Method Reference(s): EPA 6010C
 EPA 1311 / 3005A
Preparation Date: 4/7/2022
Data File: 220407A

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Report Prepared Friday, April 15, 2022



Lab Project ID: 221448

Client: **Inventum Engineering, P.C.**

Project Reference: ST23 Remaining Parameters

Sample Identifier: ST23-TCLP-04052022

Lab Sample ID: 221448-01

Date Sampled: 4/5/2022 11:45

Matrix: TCLP Extract

Date Received 4/6/2022

TCLP Volatile Organics

Analyte	Result	Units	Regulatory Limit	Qualifier	Date Analyzed
1,1-Dichloroethene	< 200	ug/L	700		4/8/2022 13:54
1,2-Dichloroethane	< 200	ug/L	500		4/8/2022 13:54
2-Butanone	< 1000	ug/L	200000		4/8/2022 13:54
Benzene	2160	ug/L	500		4/8/2022 13:54
Carbon Tetrachloride	< 200	ug/L	500		4/8/2022 13:54
Chlorobenzene	< 200	ug/L	100000		4/8/2022 13:54
Chloroform	< 200	ug/L	6000		4/8/2022 13:54
Tetrachloroethene	< 200	ug/L	700		4/8/2022 13:54
Trichloroethene	< 200	ug/L	500		4/8/2022 13:54
Vinyl chloride	< 200	ug/L	200		4/8/2022 13:54

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	106	81.1 - 136		4/8/2022 13:54
4-Bromofluorobenzene	94.5	75.8 - 132		4/8/2022 13:54
Pentafluorobenzene	102	82 - 132		4/8/2022 13:54
Toluene-D8	99.6	64.6 - 137		4/8/2022 13:54

Method Reference(s): EPA 8260C
EPA 1311 / 5030C
Data File: z08334.D



Method Blank Report

Client: Inventum Engineering, P.C.
Project Reference: ST23 Remaining Parameters
Lab Project ID: 221448
Matrix: TCLP Fluid

TCLP Semi-Volatile Organics

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Qualifier</u>	<u>Date Analyzed</u>
1,4-Dichlorobenzene	<40.0	ug/L		4/12/2022 11:58
2,4,5-Trichlorophenol	<40.0	ug/L		4/12/2022 11:58
2,4,6-Trichlorophenol	<40.0	ug/L		4/12/2022 11:58
2,4-Dinitrotoluene	<40.0	ug/L		4/12/2022 11:58
Cresols (as m,p,o-Cresol)	<80.0	ug/L		4/12/2022 11:58
Hexachlorobenzene	<40.0	ug/L		4/12/2022 11:58
Hexachlorobutadiene	<40.0	ug/L		4/12/2022 11:58
Hexachloroethane	<40.0	ug/L		4/12/2022 11:58
Nitrobenzene	<40.0	ug/L		4/12/2022 11:58
Pentachlorophenol	<80.0	ug/L		4/12/2022 11:58
Pyridine	381	ug/L		4/12/2022 11:58

<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Limits</u>	<u>Outliers</u>	<u>Date Analyzed</u>
2,4,6-Tribromophenol	89.1	29.6 - 139		4/12/2022 11:58
2-Fluorobiphenyl	59.6	10 - 124		4/12/2022 11:58
2-Fluorophenol	72.8	10 - 122		4/12/2022 11:58
Nitrobenzene-d5	65.7	28.7 - 119		4/12/2022 11:58
Phenol-d5	66.1	10 - 115		4/12/2022 11:58
Terphenyl-d14	72.9	32.2 - 142		4/12/2022 11:58

Method Reference(s): EPA 8270D
EPA 3510C
Preparation Date: 4/12/2022
Data File: B61030.D
QC Batch ID: QC220412ABNT
QC Number: Blk 1

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Report Prepared Friday, April 15, 2022



PARADIGM
ENVIRONMENTAL SERVICES, INC.

QC Report for Laboratory Control Sample

Client: Inventum Engineering, P.C.

Project Reference: ST23 Remaining Parameters

Lab Project ID: 221448

Matrix: TCLP Fluid

TCLP Semi-Volatile Organics

<u>Analyte</u>	<u>Spike Added</u>	<u>Spike Units</u>	<u>LCS Result</u>	<u>LCS % Recovery</u>	<u>% Rec Limits</u>	<u>LCS Outliers</u>	<u>Date Analyzed</u>
1,4-Dichlorobenzene	200	ug/L	169	84.7	27.5 - 93.4		4/12/2022
2,4,6-Trichlorophenol	300	ug/L	303	101	50.5 - 126		4/12/2022
2,4-Dinitrotoluene	200	ug/L	195	97.7	55.2 - 112		4/12/2022
Pentachlorophenol	300	ug/L	341	114	26.5 - 160		4/12/2022

Method Reference(s):

EPA 8270D
EPA 3510C

Preparation Date:

4/12/2022
B61031.D

QC Number:

LCS 1
QC220412ABNT

QC Batch ID:

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

Report Prepared Friday, April 15, 2022



Method Blank Report

Client: Inventum Engineering, P.C.
Project Reference: ST23 Remaining Parameters
Lab Project ID: 221448
Matrix: TCLP Fluid

TCLP Mercury

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Qualifier</u>	<u>Date Analyzed</u>
Mercury	<0.00200	mg/L		4/8/2022 10:25

Method Reference(s): EPA 7470A
Preparation Date: 4/7/2022
Data File: Hg220408A
QC Batch ID: QC220407HgTCLP
QC Number: Blk 1



QC Report for Laboratory Control Sample and Control Sample Duplicate

Client: Inventum Engineering, P.C.

Project Reference: ST23 Remaining Parameters

Lab Project ID: 221448

Matrix: TCLP Fluid

TCLP Mercury

Analyte	<u>Added</u>	<u>Added</u>	<u>Spike</u>	<u>LCS</u>	<u>LCSD</u>	<u>LCS %</u>	<u>LCSD %</u>	<u>% Rec</u>	<u>LCS</u>	<u>LCSD</u>	<u>Relative %</u>	<u>RPD</u>	<u>RPD</u>	<u>Date</u>
			<u>Units</u>	<u>Result</u>	<u>Result</u>	<u>Recovery</u>	<u>Recovery</u>	<u>Limits</u>	<u>Outliers</u>	<u>Outliers</u>	<u>Difference</u>	<u>Limit</u>	<u>Outliers</u>	<u>Analyzed</u>
Mercury	0.0200	0.0200	mg/L	0.0192	0.0205	96.2	103	80 - 120			6.32	20		4/8/2022
Method Reference(s): EPA 7470A														
Preparation Date: 4/7/2022														
Data File: Hg220408A														
QC Number: 1														
QC Batch ID: QC220407HgTCLP														

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.



Method Blank Report

Client: Inventum Engineering, P.C.
Project Reference: ST23 Remaining Parameters
Lab Project ID: 221448
Matrix: TCLP Fluid

TCLP Pesticides

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Qualifier</u>	<u>Date Analyzed</u>	
Chlordane	<2.00	ug/L		4/14/2022	14:53
Endrin	<2.00	ug/L		4/14/2022	14:53
gamma-BHC (Lindane)	<1.00	ug/L		4/14/2022	14:53
Heptachlor	<1.00	ug/L		4/14/2022	14:53
Heptachlor Epoxide	<1.00	ug/L		4/14/2022	14:53
Methoxychlor	<2.00	ug/L		4/14/2022	14:53
Toxaphene	<20.0	ug/L		4/14/2022	14:53

<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Limits</u>	<u>Outliers</u>	<u>Date Analyzed</u>	
Decachlorobiphenyl (1)	146	15.5 - 160		4/14/2022	14:53
Tetrachloro-m-xylene (1)	74.6	16.9 - 135		4/14/2022	14:53

Method Reference(s): EPA 8081B
EPA 3510C
Preparation Date: 4/12/2022
QC Batch ID: QC220412PESTT
QC Number: Blk 1



PARADIGM
ENVIRONMENTAL SERVICES, INC.

QC Report for Laboratory Control Sample

Client: Inventum Engineering, P.C.

Project Reference: ST23 Remaining Parameters

Lab Project ID: 221448

Matrix: TCLP Fluid

TCLP Pesticides

Analyte	Spike Added	Spike Units	LCS Result	LCS % Recovery	%Rec Limits	LCS Outliers	Date Analyzed
Chlordane (1)	10.0	ug/L	10.9	109	NC		4/14/2022
Endrin (1)	5.00	ug/L	6.27	125	33 - 140		4/14/2022
gamma-BHC (Lindane) (1)	5.00	ug/L	4.80	96.0	46.5 - 126		4/14/2022
Heptachlor (1)	5.00	ug/L	5.07	101	36.2 - 136		4/14/2022
Heptachlor Epoxide (1)	5.00	ug/L	5.34	107	51.9 - 132		4/14/2022
Methoxychlor (1)	5.00	ug/L	8.33	167	39.2 - 198		4/14/2022

Method Reference(s):

EPA 8081B

EPA 3510C

Preparation Date: 4/12/2022

QC Number: LCS 1

QC Batch ID: QC220412PESTT

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.



Method Blank Report

Client: Inventum Engineering, P.C.
Project Reference: ST23 Remaining Parameters
Lab Project ID: 221448
Matrix: TCLP Fluid

TCLP RCRA Metals (ICP)

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Qualifier</u>	<u>Date Analyzed</u>
Arsenic	<0.500	mg/L		4/7/2022 11:21
Barium	<0.500	mg/L		4/7/2022 11:21
Cadmium	<0.0250	mg/L		4/7/2022 11:21
Chromium	<0.500	mg/L		4/7/2022 11:21
Lead	<0.500	mg/L		4/7/2022 11:21
Selenium	<0.200	mg/L		4/7/2022 11:21
Silver	<0.500	mg/L		4/7/2022 11:21

Method Reference(s): EPA 6010C
EPA 3005
Preparation Date: 4/7/2022
Data File: 220407A
QC Batch ID: QC220407TCLP
QC Number: Blk 1



PARADIGM
ENVIRONMENTAL SERVICES, INC.

QC Report for Laboratory Control Sample and Control Sample Duplicate

Client:

Inventum Engineering, P.C.

Project Reference:

ST23 Remaining Parameters

Lab Project ID:

221448

Matrix:

TCLP Fluid

TCLP Metals (TCP)

Analyte	LCS	LCSD	Spike	LCS	LCSD	LCS %	LCSD %	% Rec	LCS	LCSD	Relative %	RPD	RPD	Date
	Added	Added	Units	Result	Result	Recovery	Recovery	Limits	Outliers	Outliers	Difference	Limit	Outliers	Analyzed
Arsenic	12.5	12.5	mg/L	11.8	12.1	94.7	96.4	80 - 120			1.84	20		4/7/2022
Barium	12.5	12.5	mg/L	12.9	13.0	103	104	80 - 120			0.609	20		4/7/2022
Cadmium	5.00	5.00	mg/L	5.04	5.08	101	102	80 - 120			0.679	20		4/7/2022
Chromium	12.5	12.5	mg/L	12.2	12.2	97.2	97.8	80 - 120			0.557	20		4/7/2022
Lead	12.5	12.5	mg/L	12.7	12.9	101	103	80 - 120			1.87	20		4/7/2022
Selenium	12.5	12.5	mg/L	12.7	13.1	102	105	80 - 120			2.62	20		4/7/2022
Silver	1.25	1.25	mg/L	1.23	1.23	98.2	98.8	80 - 120			0.598	20		4/7/2022

Method Reference(s):

EPA 6010C

EPA 3005

Preparation Date:

4/7/2022

Data File:

220407A

QC Number:

1

QC Batch ID:

QC220407TCLP

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

Report Prepared Friday, April 8, 2022



Method Blank Report

Client: Inventum Engineering, P.C.
Project Reference: ST23 Remaining Parameters
Lab Project ID: 221448
Matrix: TCLP Fluid

TCLP Volatile Organics

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Qualifier</u>	<u>Date Analyzed</u>
1,1-Dichloroethene	<20.0	ug/L		4/8/2022 11:48
1,2-Dichloroethane	<20.0	ug/L		4/8/2022 11:48
2-Butanone	<100	ug/L		4/8/2022 11:48
Benzene	<20.0	ug/L		4/8/2022 11:48
Carbon Tetrachloride	<20.0	ug/L		4/8/2022 11:48
Chlorobenzene	<20.0	ug/L		4/8/2022 11:48
Chloroform	<20.0	ug/L		4/8/2022 11:48
Tetrachloroethene	<20.0	ug/L		4/8/2022 11:48
Trichloroethene	<20.0	ug/L		4/8/2022 11:48
Vinyl chloride	<20.0	ug/L		4/8/2022 11:48

<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Limits</u>	<u>Outliers</u>	<u>Date Analyzed</u>
1,2-Dichloroethane-d4	110	81.1 - 136		4/8/2022 11:48
4-Bromofluorobenzene	96.9	75.8 - 132		4/8/2022 11:48
Pentafluorobenzene	99.3	82 - 132		4/8/2022 11:48
Toluene-D8	106	64.6 - 137		4/8/2022 11:48

Method Reference(s): EPA 8260C
EPA 5030
Data File: z08328.D
QC Batch ID: voax220408
QC Number: Blk 1

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Report Prepared Friday, April 8, 2022



PARADIGM
ENVIRONMENTAL SERVICES, INC.

QC Report for Laboratory Control Sample

Client: Inventum Engineering, P.C.
Project Reference: ST23 Remaining Parameters
Lab Project ID: 221448
Matrix: TCLP Fluid

TCLP Volatile Organics

<u>Analyte</u>	<u>Spike Added</u>	<u>Spike Units</u>	<u>LCS Result</u>	<u>LCS % Recovery</u>	<u>% Rec Limits</u>	<u>LCS Outliers</u>	<u>Date Analyzed</u>
1,1-Dichloroethene	20.0	ug/L	18.3	91.7	65.5 - 116		4/8/2022
1,2-Dichloroethane	20.0	ug/L	19.6	97.9	78.3 - 122		4/8/2022
Benzene	20.0	ug/L	18.7	93.4	81.6 - 114		4/8/2022
Carbon Tetrachloride	20.0	ug/L	18.5	92.5	76.4 - 129		4/8/2022
Chlorobenzene	20.0	ug/L	19.1	95.7	77.2 - 106		4/8/2022
Chloroform	20.0	ug/L	18.6	92.8	84.5 - 122		4/8/2022
Tetrachloroethene	20.0	ug/L	18.5	92.6	64.4 - 130		4/8/2022
Trichloroethene	20.0	ug/L	18.8	94.1	73.4 - 122		4/8/2022
Vinyl chloride	20.0	ug/L	19.8	98.9	50.9 - 164		4/8/2022

Method Reference(s): EPA 8260C
EPA 5030
z08327.D
Data File:
QC Number: LCS 1
QC Batch ID: voax220408

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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.

"H" = Denotes a parameter analyzed outside of holding time.

"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.

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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, term 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 will 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 the 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.

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PARADIGM
Performance Technology, Inc.REQUESTED ANALYSIS:

60Cical 4/15/22-16/17

Total Cost:

See additional page for sample conditions.



Chain of Custody Supplement

2 of 2

Client: Inventum Engineering

Completed by: Glenn Pezzullo

Lab Project ID: 221448

Date: 4/6/22

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	☒	☐	☐
Comments			
Transferred to method-compliant container	☐	☐	☒
Headspace (<1 mL)	☐	☒ TCLP v.o.A.	☒
Comments			
Preservation	☐	☐	☒
Comments			
Chlorine Absent (<0.10 ppm per test strip)	☐	☐	☒
Comments			
Holding Time	☒	☐	☐
Comments			
Temperature	☒	☐	☒ metals
Comments	<u>6°C iced</u>		
Compliant Sample Quantity/Type	☒	☐	☐
Comments			



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April 11, 2022

Emily Farmen
Paradigm Environmental
179 Lake Avenue
Rochester, NY 14608

TEL: (800) 724-1997

Work Order No: 220407062

RE: Analysis of Samples
Project# 221448

Dear Emily Farmen:

Adirondack Environmental Services, Inc received 1 sample on 4/7/2022 for the analyses presented in the following report.

Please see case narrative for specifics on analysis.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

ELAP#: 10709

Tara Daniels
Laboratory Director

Adirondack Environmental Services, Inc

CASE NARRATIVE

Paradigm Environmental

Analysis of Samples

Project# 221448

Date: 11-Apr-22

Lab WorkOrder: 220407062

Sample containers were not supplied by Adirondack Environmental Services.

The client performed the TCLP extraction procedure. The TCLP extract was provided for analysis.

Definitions - RL: Reporting Limit DF: Dilution factor

Qualifiers:	ND : Not Detected at reporting limit	C: CCV below acceptable Limits
	J: Analyte detected below quantitation limit	C+: CCV above acceptable Limits
	B: Analyte detected in Blank	S: LCS Spike recovery is below acceptable limits
	X : Exceeds maximum contamination limit	S+: LCS Spike recovery is above acceptable limits
	H: Hold time exceeded	Z: Duplication outside acceptable limits
	N: Matrix Spike below acceptable limits	T : Tentatively Identified Compound-Estimated
	N+: Matrix Spike is above acceptable limits	E :Above quantitation range-Estimated

Note : All Results are reported as wet weight unless noted

The results relate only to the items tested. Information supplied by the client is assumed to be correct.

Adirondack Environmental Services, Inc

Date: 11-Apr-22

CLIENT: Paradigm Environmental
Project: Analysis of Samples
Project# 221448

LabWork Order: 220407062
PO#:

Lab SampleID: 220407062-001**Collection Date:** 4/5/2022**Client Sample ID:** 221448-01**Matrix:** TCLP-EXTRACT

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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TCLP HERBICIDES - EPA 8321BAnalyst: **KF**

(Prep: SW3535A - 4/8/2022)

2,4,5-TP (Silvex)-TCLP	ND	0.050		mg/L	1	4/8/2022 4:40:17 PM
2,4-D-TCLP	ND	0.050		mg/L	1	4/8/2022 4:40:17 PM
Surr: Acifluorfen	108	52.5-128		%REC	1	4/8/2022 4:40:17 PM
Surr: DCAA	68.3	56.2-139		%REC	1	4/8/2022 4:40:17 PM

CLIENT: Paradigm Environmental

Work Order: 220407062

Project: Analysis of Samples

ANALYTICAL QC SUMMARY REPORT

BatchID: 92617

MBLK	SeqNo: 3286649		PrepDate:4/8/2022		TestNo: SW1311/8321		RunNo: 205869				
	Samp ID: MB-92617		PrepRef:(SW3535A)		Units: mg/L		Analysis Date: 4/8/2022				
Analyte	Result	POL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2,4,5-TP (Silvex)-TCLP	ND	0.050									
2,4-D-TCLP	ND	0.050									
Surr: Acifluorfen	0.2617	0.050	0.5	0	52.3	52.5	128	0	0		S
Surr: DCAA	0.4708	0	0.5	0	94.2	56.2	139	0	0		
LCS	SeqNo: 3286650		PrepDate:4/8/2022		TestNo: SW1311/8321		RunNo: 205869				
	Samp ID: LCS-92617		PrepRef:(SW3535A)		Units: mg/L		Analysis Date: 4/8/2022				
Analyte	Result	POL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2,4,5-TP (Silvex)-TCLP	ND	0.050	0.05	0	69.2	57.6	128	0	0		
2,4-D-TCLP	0.05545	0.050	0.05	0	111	52	138	0	0		
Surr: Acifluorfen	0.4473	0.050	0.5	0	89.5	52.5	128	0	0		
Surr: DCAA	0.5311	0	0.5	0	106	56.2	139	0	0		
MS	SeqNo: 3286656		PrepDate:4/8/2022		TestNo: SW1311/8321		RunNo: 205869				
	Samp ID: 220407064-002		PrepRef:(SW3535A)		Units: mg/L		Analysis Date: 4/8/2022				
Analyte	Result	POL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2,4,5-TP (Silvex)-TCLP	ND	0.050	0.05	0	80.8	53.1	121	0	0		
2,4-D-TCLP	0.05093	0.050	0.05	0	102	57.3	136	0	0		
Surr: Acifluorfen	0.6806	0.050	0.5	0	136	52.5	128	0	0		S
Surr: DCAA	0.5793	0	0.5	0	116	56.2	139	0	0		
MSD	SeqNo: 3286657		PrepDate:4/8/2022		TestNo: SW1311/8321		RunNo: 205869				
	Samp ID: 220407064-002		PrepRef:(SW3535A)		Units: mg/L		Analysis Date: 4/8/2022				
Analyte	Result	POL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2,4,5-TP (Silvex)-TCLP	ND	0.050	0.05	0	37.9	53.1	121	0.04041	0	20.8	S
2,4-D-TCLP	ND	0.050	0.05	0	60.3	57.3	136	0.05093	0	20	
Surr: Acifluorfen	0.3093	0.050	0.5	0	61.9	52.5	128	0	0		
Surr: DCAA	0.3724	0	0.5	0	74.5	56.2	139	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits



220407062

CHAIN OF CUSTODY

STD

1	2	3	4	5
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Date Due: 4/14/22

Date Due: 4/14/22

REQUESTED ANALYSIS

LAB USE ONLY BELOW THIS LINE

Sample Condition: Per NELAC/ELAP 210/241/242/243/244

Client

Total Cost:

P.I.F.



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TERMS, CONDITIONS & LIMITATIONS

All service rendered by the **Adirondack Environmental Services, Inc.** are undertaken and all rates are based upon the following terms:

- (a) Neither **Adirondack Environmental Services, Inc.**, nor any of its employees, agents or sub-contractors shall be liable for any loss or damage arising out of **Adirondack Environmental Services, Inc.**'s performance or nonperformance, whether by way of negligence or breach of contract, or otherwise, in any amount greater than twice the amount billed to the customer for the work leading to the claim of the customer. Said remedy shall be the sole and exclusive remedy against **Adirondack Environmental Services, Inc.** arising out of its work.
- (b) All claims made must be in writing within forty-five (45) days after delivery of the **Adirondack Environmental Services, Inc.** report regarding said work or such claim shall be deemed or irrevocably waived.
- (c) **Adirondack Environmental Services, Inc.** reports are submitted in writing and are for our customers only. Our customers are considered to be only those entities being billed for our services. Acquisition of an **Adirondack Environmental Services, Inc.** report by other than our customer does not constitute a representation of **Adirondack Environmental Services, Inc.** as to the accuracy of the contents thereof.
- (d) In no event shall **Adirondack Environmental Services, Inc.**, its employees, agents or sub-contractors be responsible for consequential or special damages of any kind or in any amount.
- (e) No deviation from the terms set forth herein shall bind **Adirondack Environmental Services, Inc.** unless in writing and signed by a Director of **Adirondack Environmental Services, Inc.**
- (f) Results pertain only to items analyzed. Information supplied by client is assumed to be correct. This information may be used on reports and in calculations and **Adirondack Environmental Services, Inc.** is not responsible for the accuracy of this information.
- (g) Payments by Credit Card/Purchase Cards are subject to a 3% additional charge.



PARADIGM
ENVIRONMENTAL SERVICES, INC.

Analytical Report For
Inventum Engineering, P.C.

For Lab Project ID

221570

Referencing

ST23

Prepared

Wednesday, April 13, 2022

Any noncompliant QC parameters or other notes impacting data interpretation are flagged or documented on the final report or are noted below.

A handwritten signature in blue ink that reads "Emily Farmer". The signature is written in a cursive style and is positioned above a horizontal line.

Certifies that this report has been approved by the Technical Director or Designee

179 Lake Avenue • Rochester, NY 14608 • (585) 647-2530 • Fax (585) 647-3311 • ELAP ID# 10958

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

Report Prepared Wednesday, April 13, 2022



Lab Project ID: 221570

Client: Inventum Engineering, P.C.

Project Reference: ST23

Sample Identifier: ST23-AQ-04082022

Lab Sample ID: 221570-01

Date Sampled: 4/8/2022 12:30

Matrix: Water

Date Received 4/11/2022

Ammonia-N

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Qualifier</u>	<u>Date Analyzed</u>
Ammonia	618	mg/L		4/11/2022
Method Reference(s):	SM 4500 NH3 BH			
Subcontractor ELAP ID:	11148			

Flash Point

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Qualifier</u>	<u>Date Analyzed</u>
Flash Point, Celsius	>70.0	C		4/13/2022
Method Reference(s):	EPA 1010A			
<i>ELAP does not offer this test for approval as part of their laboratory certification program.</i>				

Total Cyanide

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Qualifier</u>	<u>Date Analyzed</u>
Cyanide, Total	0.769	mg/L		4/13/2022
Method Reference(s):	SM 4500 CN E - 2016 SM 4500 CN C - 2016			
Preparation Date:	4/13/2022			

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

Report Prepared Wednesday, April 13, 2022



Method Blank Report

Client: Inventum Engineering, P.C.
Project Reference: ST23
Lab Project ID: 221570
Matrix: Water

Total Cyanide

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Qualifier</u>	<u>Date Analyzed</u>
Cyanide, Total	<0.0100	mg/L		4/13/2022

Method Reference(s): SM 4500 CN E - 2016
SM 4500 CN C - 2016
Preparation Date: 4/13/2022
QC Batch ID: QC220413wtcn
QC Number: Blk 1



PARADIGM
ENVIRONMENTAL SERVICES, INC.

QC Report for Laboratory Control Sample

Client: Inventum Engineering, P.C.

Project Reference: ST23

Lab Project ID: 221570

Matrix: Water

Total Cyanide

<u>Analyte</u>	<u>Spike Added</u>	<u>Spike Units</u>	<u>LCS Result</u>	<u>LCS % Recovery</u>	<u>% Rec Limits</u>	<u>LCS Outliers</u>	<u>Date Analyzed</u>
Cyanide, Total	0.100	mg/L	0.0957	95.7	85 - 115		4/13/2022
Method Reference(s): SM 4500 CN E - 2016 SM 4500 CN C - 2016							
Preparation Date: 4/13/2022							
QC Number: 1							
QC Batch ID: QC220413wrcn							

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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.

"H" = Denotes a parameter analyzed outside of holding time.

"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.

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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, term 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 will 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 the 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.

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DATE COLLECTED	TIME COLLECTED	C O M P O S I T E	G R A B	SAMPLE IDENTIFIER	M C A D R E S	N U N T B E A R I N G S	FLASHPOINT				REMARKS	P A R A D I G M L A B SAMPLE NUMBER
7/9							AMMONIA TOTAL CY					

Toxane Blex
 Sampled By
 4/8/22 12:30
 Date/Time
 Total Cost:

Requisitioned By
 4/8/22 13:00
 Date/Time

Received By
 4/8/22 16:25
 Date/Time
 P.L.F.

Received @ Lab By
 4/11/22 15:23
 Date/Time

4°C 500 4/11/22 15:14

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

See additional page for sample conditions.

2082



Chain of Custody Supplement

Client: Inventum

Completed by: V. Holpail

Lab Project ID: 221570

Date: 4/14/22

Sample Condition Requirements

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

Condition	Yes	No	N/A
Container Type	☒	☐	☐
Comments			
Transferred to method-compliant container	☐	☐	☒
Headspace (<1 mL)	☐	☐	☒
Comments			
Preservation	☒ FCN	☐	☒ Flash
Comments			
Chlorine Absent (<0.10 ppm per test strip)	☐	☐	☒
Comments			
Holding Time	☒	☐	☐
Comments			
Temperature	☒	☐	☐
Comments	<u>4°C cool</u>		
Compliant Sample Quantity/Type	☒	☐	☐
Comments	<u>Ammonia sent directly to test lab</u>		