U.S. Department of Transportation

Pipeline and Hazardous Materials Safety Administration

May 16, 2023

Frank Virginia AET Environmental, Inc. 14 Lakeside Lane Denver, CO 80212

Reference No. 23-0019

Dear Mr. Virginia:

This letter is in response to your March 6, 2023, email requesting clarification of the Hazardous Materials Regulations (HMR; 49 CFR Parts 171-180) applicable to waste streams containing trace amounts of explosive hazardous material. You state that your firm manages hazardous and non-hazardous waste for waste generators, and you are currently working with a DoD installation in Colorado named Pueblo Chemical Depot ("the depot"). You state that the depot has contamination of various constituents of concern¹ throughout the facility where a specific area was identified as being in contact with explosive nitro-aromatic compounds (e.g., TNT, Dinitrotoluene, RDX, etc.). You state that these compounds have contaminated the groundwater and you state that analysis of the post treatment groundwater samples display traces of certain explosive compounds at approximately 0.053 μ g/l. You ask questions regarding the applicability of the Pipeline and Hazardous Materials Safety Administration (PHMSA) explosive approval process for waste generated with trace amounts of these constituents of concern. We have paraphrased and answered your questions as follows:

- Q1. You ask whether any debris (e.g., personal protective equipment (PPE)) that may have been exposed to waste streams containing trace amounts of explosive compounds must have an explosives examination report submitted to PHMSA for review under the explosive approval process.
- A1. The answer is yes. Waste material that is exposed to and contaminated with explosive compounds is considered a "new explosive." A new explosive is an explosive produced by a person who has not previously produced that explosive or has previously produced that explosive but has made a change in the formulation, design, or process to alter any of the properties of the explosive (see § 173.56). The term "formulation"—as used in the definition of a new explosive—applies to the entire mixture and not just the explosive components. Any changes must be examined to determine whether the properties have been altered and this may not be self-determined but must be determined in accordance

1200 New Jersey Avenue, SE Washington, DC 20590

¹ Any substance defined as a hazardous substance, hazardous waste, hazardous material, toxic substance, solid waste, pollutant, or contaminant by an Environmental Law (<u>https://www.lawinsider.com/dictionary/constituent-of-concern</u>).

with § 173.56(b). If the explosive compounds are mixed with filters, rags, dirt, or other material (e.g., diluted with contaminated water or other solvents), it is considered a "new explosive" and must be approved in accordance with § 173.56(b).

However, it is the shipper's responsibility to determine whether a specific piece of waste material generated from the site is contaminated with explosive residue. Please note, if further process to decontaminate or neutralize contaminated PPE before declaring it as waste or if further sampling indicates there is no longer detectable explosive content, it would be possible to determine the PPE is no longer an explosive hazardous material.

- Q2. You believe that the contaminated water would be considered non-hazardous waste based on the trace amount of explosive compound identified in the groundwater and you ask whether the HMR has allowances for a de minimis quantity exception for explosive material. You also seek confirmation that assigning a non-regulated hazardous material description for the material is appropriate and would not warrant submission and review in accordance with the requirements found in § 173.56(b).
- A2. The answer is no. All compositions containing any amount of explosive material including compositions of diluted (desensitized) explosives or explosives combined or contaminated with other materials—meet the definition of a new explosive and must be classified and approved by PHMSA. However, this process may result in a determination that the material is not an explosive and thus not regulated.

Please note that in accordance with § 173.56(i), if experience or other data indicate that the hazard of a material or a device containing an explosive composition is greater or less than indicated according to the definitions and criteria specified in §§ 173.50, 173.56, and 173.58, the Associate Administrator may specify a classification or except the material or device from the requirements of the HMR.

I hope this information is helpful. Please contact us if we can be of further assistance.

Sincerely,

Maple

Dirk Der Kinderen Chief, Standards Development Branch Standards and Rulemaking Division

Baker

23-0019

 From:
 Raynor, T"Mia (PHMSA)

 To:
 Hazmat Interps

 Subject:
 FW: Interpretation of New Explosives (173.56)

 Date:
 Tuesday, March 7, 2023 10:18:04 AM

 Attachments:
 image001.png SWMU 17 PPE__Debris (002).pdf image003.png

Hello,

Please see below.

Thanks,

T'Mia Raynor

Webmaster, Office of the PHMSA CIO US Department of Transportation **Pipeline and Hazardous Materials Safety Administration** 1200 New Jersey Ave. SE, Washington, D.C., 20590 Office: 202.366.9818 \lapha Mobile: 202.580.9447

PHMSA Home | LinkedIn | Twitter | HAZMAT | OPS



a what's below. Call before you dig.



From: Virginia, Frank <frankvirginia@aetenvironmental.com>
Sent: Monday, March 6, 2023 5:36 PM
To: PHMSA Website Manager <PHMSAWebsiteManager@dot.gov>
Cc: Rosinski, Pamela A CIV USARMY USAMC (USA) <pamela.a.rosinski.civ@army.mil>; Monical, Lee B
<monical.lee@cleanharbors.com>
Subject: Interpretation of New Explosives (173.56)

CAUTION: This email originated from outside of the Department of Transportation (DOT). Do not click on links or open attachments unless you recognize the sender and know the content is safe.

To whom it may concern:

My firm manages hazardous and non-hazardous waste for a variety of Generators across a wide variety of industry sectors and government agencies.

In this particular instance, I am working with a DOD instillation, Pueblo Chemical Depot, in Pueblo, CO. The site is slated for closure in the coming years but was very instrumental in our success during the cold war and had broad mission. Fast forward to today (70 years later) and there is wide spread contamination of various constituents of concern (COC) throughout the facility. The Army worked with the State of Colorado (CDPHE) to identify and establish corrective action measures for various areas of concern throughout the site, which brings us to my question.

Solid Waste Management Unit (SWMU 17) is an area that came in contact with explosive materials years ago that eventually contaminated the ground water. Nitro-aromatic compounds (TNT, Dinitro-toluene, etc), RDX, etc.) have been identified in the ground water. A Corrective Action measure, approved by the State, calls for the ground water to be extracted, treated and reinjected back to ground, and to take quarterly samples from monitoring wells.

Most recent analysis of the water shows traces of certain explosive compounds at 0.053 ug/l. Excerpts from the analysis and a more detailed discussion of the history of the site and the corrective action measures are outlined in the attached file.

The generator is trying to profile non-hazardous PPE and debris from this process. The debris may or may not have come in direct contact with ground water containing trace levels (0.53ug/l) of explosive compounds.

The disposal firm (Clean Harbors) is asking for an EX number demonstrating that the generator has made a submission of this "material" (non-hazardous waste), as a "newly manufactured" explosive for review and concurrence by PHMSA. The generator maintains that this is not necessary, as this not a new explosive and nothing is being manufactured. This is simple a non-hazardous waste, that has been generated during implementation of corrective action measures, that may or may not have come in contact with water, that may have de minimus traces of explosive compounds. The generator believes that assigning a non-regulated DOT description is appropriate and does not believe that it requires submission and review under 173.56(b).

Could you please give us your interpretation in this matter

I would appreciate a prompt response.

Kind Regards,

Frank Virginia AET Environmental, Inc 14 Lakeside Ln Denver, CO 80212 (O) 303.333.8521



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notify the sender by return e-mail and promptly delete the e-mail and any attached documentation. This e-mail and any attached documentation may contain information that is privileged, confidential, proprietary or otherwise protected by law. This notice serves as a confidentiality marking for the purpose of any confidentiality or nondisclosure agreement. Receipt of this e-mail and the attached documentation by anyone other than the intended recipient shall not be deemed a waiver of any rights of confidentiality.

	N. KOMOLONDA	PARTI		Survey and the second second
A. GENERAL INFORMATION	1. GENERATOR'S N SWMU17-(GI	IAME: ETI) TNT WO	Facility	WASTE PROFILE NO. PCD SWMU 17-04
2. FACILITY ADDRESS:		I	4. GENERATOR USEPA ID:	5. GENERATOR STATE ID:
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXX		CO8213820725	
6. TECHNICAL CONTACT: Ann Mead	,	A TITLE:	1	8. PHONE: 719-549-4484
B. WASTE INFORMATION	1. NAME OF WASTE: FILTERS, PPE &	DEBRIS SWI	MU 17	
2A: USEAPA WASTE CODE:		2B. DEM		
3. PROCESS GENERATING WASTE: 4. PROJECTED ANNUAL VOL.: 1000 6. IS THIS WASTE A DIOXIN LISTED W 7. IS THIS WASTE RESTRICTED FROM HAS AN EXEMPTION BEEN GRANTE DOES THE WASTE MEET APPLICAE (If yes, Enter Reference Standards in I	Corrective action at 000 /ASTE AS DEFINED IN 40 // LAND DISPOSAL? ED? BLE TREATMENT STANDA Part II, Block 6)	a solid waste 5. MOD CFR 261.31? (40 RDS ALREADY?	Management unit under E OF COLLECTION: DR VES CFR 268) YES YES YES	RCRA
	Section and a section of the section	PART II		ferres of carbon side
	(Opti	onal - Unless othe	erwise indicated)	
1. MATERIAL CHARACTERIZATION	DENSITY:		BTU/LB:	
1. MATERIAL CHARACTERIZATION COLOR: Varied	ASH CONTENT 0 %			RED BILAYERED SINGLE P
1. MATERIAL CHARACTERIZATION COLOR: Varied TOTAL SOLIDS: 99 %			GAS OTHER	<u>}</u>
1. MATERIAL CHARACTERIZATION COLOR: Varied TOTAL SOLIDS: 99 % PHYSICAL STATE X SOLID				

HAZARDOUS WASTE PROFILE SHEET

WASTE PROFILE NO. **PCD SWMU 17-04**

3. CHEMICAL/MATERIAL COMPOSITION (List all components and contaminants, including PCB's and any applicable F-Listed and Underlying Hazardous Constituents)

CAS#	COMPONENT Be as descriptive as possible. Chemical names or generic descriptions, e.g. 'studge', peint solide, 'water', etc, are acceptable	CONCENTRATION	RANGE
NA	Filters, PPE & Debris	%	95-100
NA	Ground Water	%	5-10
		2	
			A THE REAL PROPERTY OF

RANGE TOTAL MUST EQUAL AT LEAST 100%

3. MATERIAL COMPOSITION/UNDERLYING HAZARDOUS CONSTITUENTS

CAS#	COMPONENT Be as descriptive as possible. Chemical names or generic descriptions, e.g. 'sludge', paint solids. 'water', etc, are acceptable	CONCENTRATION	RANGE

RANGE TOTAL MUST EQUAL AT LEAST 100%

HAZARDOUS WASTE PROFILE SHEET

WASTE PROFILE NO. PCD SWMU 17-04

4. SHIPPING INFORMATION			
DOT HAZARDOUS MATERIAL?	YES X I	NO If "NO" ski	ip to block 5
PROPER SHIPPING NAME: MATERIAL NOT REGULATED BY D.O.T.			с.
HAZARD CLASS:	U.N. or N.A. NO	D.:	PACKING GROUP:
ADDITIONAL DESCRIPTION MATERIAL NOT REGULATED BY D.O.T.			
METHOD OF SHIPMENT		JM OTHER	
DOT REPORTABLE QTY (RQ)	-	(REF: 49 CFR	72,101, Appendix A)
EMERGENCY RESPONSE GUIDE EDITION		EMERGENCY RES	PONSE NO:
6. GENERATOR CERTIFICATION:	EMICAL ANALYSIS ach Test Results)	USER K (Explain RCRA r	(NOWLEDGE (Attach Supporting Documents) how and why these documents comply with equirements)
CERTIFICATION: I. PAMELA ROSINSKI HEREBY ATTACHED DOCUMENTS IS TO THE BEST WASTE TURNED IN TO THE DLA. ALL KNO Pamela Crownk Signature of Generator's Representative	CERTIFY THAT OF MY KNOWL DWN OR SUSPE	ALL INFORMATION EDGE AN ACCURA CTED HAZARDS H	N SUBMITTED IN THIS AND ALL ATE REPRESENTATION OF THE AVE BEEN DISCLOSED. 03/03/2022 Date
DLA FORM 2511, NOV (F	Formerly DRMS Form	1930)	Page 3 of 3 PDF (DLA)

	: 00	

and the second second

Disposition Serial Letter Number TLI-0114

SWHN 17 - 04

February 11, 2022

Pamela Rosinski CECM, CIHM RCRA/Hazardous Waste Program Manager Environmental Management Office Pueblo Chemical Depot 45825 Highway 96 East Pueblo, CO 81006-9330

Subject: Disposition of Investigation-Derived Waste Pueblo Chemical Depot, Pueblo Colorado Contract #: W9128F-18-D-0029

Generating Process

During the period of 14 July to 30 November 2021, TLI Solutions – Bay West Joint Venture (TLI-Bay West JV) performed ground water sample collection activities at Solid Waste Management Unit (SWMU) 17. Environmental sampling equipment (inoperable submersible pump, bailer filters, and filter cartridges) and related waste (decontamination paper towels, personal protective equipment [PPE], and sampling debris) was generated during groundwater sampling and operation and maintenance (O&M) event. The waste was generated from Corrective Action activities conducted in accordance with the Pueblo Chemical Depot (PCD) Resource Conservation and Recovery Act (RCRA) Hazardous Waste Permit No. CO-13-12-23-01 (the Permit). As detailed herein, the wastes have been characterized pursuant to 6 Code of Colorado Regulations (CCR) 1007-3, §262.11.

Site Description and RCRA Status

The Trinitrotoluene (TNT) Washout Facility and Discharge System is located in the southwestern portion of PCD within the Western Wildlife Management Reuse Area. From the late 1940s to 1974, TNT from various munitions was reclaimed at the TNT Washout Facility. A pump and treat system for contaminated groundwater at SWMU 17, called the Southwest Terrace (SWT) Groundwater Extraction, Treatment, and Injection (GETI) System, was installed and operational since June 2001 to stop offsite migration of contaminated groundwater from the SWMU 17 Southwest Terrace (SWT) area. The SWT area covers approximately five square miles extending from northwest of the TNT Washout Facility to the western and southern boundaries of PCD. This area includes a portion of Chico Creek. The GETI system has three distinct and separate areas of groundwater extraction, treatment, and reinjection: Ciruli Spring, South Point, and Southwest.

Expected Waste Contaminants

SWMU 17 (TNT Washout Facility and Discharge System) is the source of explosives-related constituents in soil and groundwater in the SWT area. Explosives such as hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX), 2,4-dinitrotoluene (2,4-DNT), 2,6-dinitrotoluene (2,6-DNT), and 1,3-dinitrobenzene (1,3-DNB) are detected above the Colorado Groundwater Quality Standards (CGWQSs) in the groundwater within the facility boundary.

The Permit identifies octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX), RDX,

1,3,5-trinitrobenzene, 1,3-DNB, tetryl, nitrobenzene, 2,4,6-TNT, 4-amino-2,6-dinitrotoluene, 2-amino-4,6-dinitrotoluene, 2,4-DNT, 2,6-DNT, 2-nitrotoluene, 3-nitrotoluene, 4-nitrotoluene, pentaerythritol tetranitrate (PETN), and nitrate as contaminants of concern (COCs) in groundwater. The selected remedy for the boundary area of SWMU 17 is the GETI. The system is designed to extract groundwater and remove explosives and nitrates. Treated groundwater is then returned to the aquifer by subsurface injection.

Waste Characterization and Disposition

Quarterly and annual sampling occurs at the three areas of the GETI, and the solid waste is produced from sampling and O&M efforts in these and other SWT areas. The analytical results from the annual event at these three locations were used to characterize the waste contained in the Satellite Accumulation Area (SAA) drum addressed in this letter.

Purged Groundwater Characterization

Table 1 presents the waste drum ID along with the associated laboratory analytical file IDs of the groundwater sampled during the period solid waste was accumulated in drum 21PCD0232. Groundwater samples associated with solid waste contained in this drum were analyzed for explosives using USEPA Method SW8321B and nitrate by method USEPA SW9056A.

There were no listed waste compounds detected. However, toxicity characteristic (TC) waste constituent 2,4-DNT, as well as a number of other site-related hazardous and non-hazardous constituents, were detected in the purged groundwater collected during the period SAA drum 21PC0232 accumulated PPE and O&M solid waste.

None of the detected TC waste constituents exceeded the USEPA Toxicity Characteristic Regulatory Limits (TCRLs) in the purged groundwater associated with the solid waste in the drum addressed in this letter. Accordingly, "D" codes are not applicable to any of this waste.

TC waste constituent 2,4-DNT, as well as RDX, were detected above the CGWQS. However these are not listed waste constituents, and therefore this waste is considered non-hazardous.

Other site-related hazardous constituents detected in the purged groundwater associated with the solid waste in the drum addressed in this letter were below the associated CGWQSs, and therefore have no bearing on the waste classification.

Table 1 also shows the proposed waste codes, proposed waste code justification, and the proposed waste disposition. Table 2 provides a tabulation of the groundwater sample detections, and compares the concentrations to the TCRLs and CGWQS.

PPE and Sampling Debris Characterization and Disposition

The PPE and sampling debris generated during this groundwater sampling event was contained within SAA drum 21PCD0232 at the time of the sampling that was stored in the Ciruli Spring treatment building CS 6A at SWMU 17 in the GETI Area. PPE and sampling debris from sampling events conducted between 14 July to 30 November 2021 has not been in contact with a listed waste as characterized above, and is therefore will be disposed as non-hazardous solid waste contents will temporarily be stored in the Building 114 covered dumpster until it is transported off-site for disposal. This drum had an original accumulation start date (ASD) of 14 July 2021, and was filled and replaced

on 30 November 2021 with drum ID 21PCD0427. The original ASD was updated to 30 November 2021 upon transfer to Building 540.

Concurrence

Your concurrence with the waste disposition is required before TLI-Bay West JV may proceed with the disposal action. Please indicate your concurrence with the waste determination (shown in Table 1) in the signature block provided below.

If you require additional information regarding this waste, please contact me at (571) 992-5225.

Sincerely,

Pelchy

Paul Chang TLI-Bay West JV Waste Coordinator

I concur with the waste determination as described above.

Signature Pamela Rosinski Pueblo Chemical Depot Date

Enclosure

 Jamal Albaiz, PCD, 45825 Highway 96 East, Building 49, Pueblo, CO 81006-9330
 PCD Document Tracking/PCD Environmental Library, 45825 Highway 96 East, Building 49, Pueblo, CO 81006-9330

T. Allen, TLI Solutions, 45825 Highway 96 East, Building 114, Pueblo, CO 81006-9330

SWMU 175AA Drum Watte Disposition

Tabla 1. Investigation Derived Waste Proposed Disposition Annusi Sampiing - Boundary Compliance Wells Pveldo Chemical Depot

	N.	Subtrie 0 750f	NA	NA	NA
Mants KOKRS Acceptors Orberts?	T.	Ŷ	Ŷ	Ŵ	No
Wents Date Auditation	Y	Site-related hazardous constituent > CGW05	Site-related hazardous constituent « CGWQS	Site-related constituent > CGWOS	Ske-related constituent < CGWQ5
11	e X	W	MA	MA	NA
Mark Constant	YN	W	NA	NA	MA
1411	£	a#	NA	W	HA
Owning Detections Determining Asylmotic Wester Calif and Projected Dependence	None None Solid watte not reteted but has come bitto craticat, with groundwatte with core emission of explosives (see bit reports associated with groundwater analysh). Detections are bit ed below.	2,4-Dinktrotokuene	1, 3, S-Trinitrobenzene	KDX	HMX
THE REAL	Listed (from Documented Source)	Touicity Characteristic	Other Constituents		
الأسلام مسترسمة بلغنا	1144361, 1144548, 1144362				
1	2				
These Contracted	PPE, baller färers, usbmerståke pump, cærtidge.				
Contrainer Stan/Type	55 GL DF				
10-Chry Link	7/23/2027				
9W	1/202/06/11				
Semple Location(s)	Sertifiwent, Cirial Spring, and the Sertif Point Boundary Compliance Wels				
	<u>11</u>				
TU Deve Dist	117-22-21-11				
Ma Ma	21PCD0332				

ed waste will go to a Subtille C or D facility, as appropriate ne all sol Cornective Action Guidance Document, CDPHE (NAry 2002); Appendix A, Table A2-1. For roll, unrestricted use is not applicable be intoGhS can only accept liquid Investigation-fremedial/on-derived waste from SWMUs 10, 21, 22, 32, 36, 41, 54, and 61.

2 - Amino - 4,5- Dimitrotoluene 4 - Amino - 1,6- Dimitrotoluene 2,4,6- Trimitrotoluene Nitrate (as M)

Accumulation Start Date Colorado Depariment of Public Health and Environm Colorado Grownowater Ousling Standard Constituent of Consern Drum - Fiber Reinforced Plastic volatia organic compound Hezahydro-1,3,5-Trientro-1,3,5-Triazine Octahydro-1,3,5,7-Tetrantro-1,3,5,7-Tetrazocim I dentification I dentification Puebo Chemical Deport Presonal protective equipment Resource Conservation and Recorry Act Solid Varsts Management Unix Interim Corrective Action Groundwater Rei trichloroethylene treatment, Storage, and Disposal Facility ouidity Characteristic Drum - Metal Meter: ASD COPHE C

Tu-ota Page 1 of 1

Client: TLI Solutions, Inc. Project/Site: Pueblo Chemical Depot 2021-2022 Job ID: 280-144361-1

Slient Sample ID: SPE01			ID (C)	Lab Sa	mple ID: 2	280-144361-		
Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D Method	Ргер Туре
RDX	0.038	J	0.095	0.020	ug/L	1	8321B	Total/NA
Nitrate as N	0.79	М	0.50	0.090	mg/L	1	9056A	Total/NA
Client Sample ID: SPE01A						Lab Sa	mple ID: 2	80-144361-2
- Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D Method	Ргер Туре
RDX	0.036	JM	0.095	0.020	ug/L	1	8321B	Total/NA
Nitrate as N	0.80	М	0.50	0.090	mg/L	1	9056A	Total/NA
Client Sample ID: SPE01B					100	Lab Sa	mple ID: 2	80-144361-3
Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D Method	Ргер Туре
RDX	0.024	JM	0.095	0.020	ug/L	1	83218	Total/NA
Nitrate as N	0.75	М	0.50	0.090	mg/L	1	9056A	Total/NA
Client Sample ID: SPE01BFE)					Lab Sa	mple ID: 2	280-144361-4
Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D Method	Ргер Туре
RDX	0.023	J	0.095	0.020	ug/L	1	8321B	Total/NA
Nitrate as N	0.75	М	0.50	0.090	mg/L	1	9056A	Total/NA
Client Sample ID: SPE01C	1					Lab Sa	mple ID: 2	280-144361-
- Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D Method	Ргер Туре
RDX	0.024	JM	0.095	0.020	ug/L	1	8321B	Total/NA
Nitrate as N	0.56	M	0.50	0.090	mg/L	1	9056A	Total/NA
Jient Sample ID: SPE02						Lab Sa	mple ID: 2	280-144361-6
Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D Method	Ргер Туре
RDX	0.045	J	0.096	0.020	ug/L	1	8321B	Total/NA
Nitrate as N	0.64	М	0.50	0.090	mg/L	1	9056A	Total/NA
Client Sample ID: SPE02A						Lab Sa	mple ID: 2	280-144361-7
Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D Method	Ргер Туре
2,4-Dinitrotoluene	0.058	J	0.076	0.018	ug/L	1	8321B	Total/NA
2-Amino-4,6-dinitrotoluene	0.049	JM	0.095	0.020	ug/L	1	8321B	Total/NA
4-Amino-2,6-dinitrotoluene	0.056	JM	0.095	0.018	ug/L	1	8321B	Total/NA
RDX	0.20		0.095	0.020	ug/L	1	8321B	Total/NA
Nitrate as N	0.82	М	0.50	0.090	mg/L	1	9056A	Total/NA
Client Sample ID: SPE02B						Lab Sa	mple ID: 2	280-144361-1
Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D Method	Prep Type
2,4-Dinitrotoluene	0.029	J	0.076	0.018	ug/L	1	8321B	Total/NA
2-Amino-4,6-dinitrotoluene	0.026	JM	0.095	0.020	ug/L	1	8321B	Total/NA
4-Amino-2,6-dinitrotoluene	0.027	ЛМ	0.095	0.018	ug/L	1	8321B	Total/NA
RDX	0.15		0.095	0.020	ug/L	<u>, 1</u>	8321B	Total/NA
Nitrate as N	0.79	M	0.50	0.090	mg/L	1	9056A	Total/NA
Client Sample ID: SPE03						Lab Sa	imple ID: 2	280-144361-9
Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D Method	Prep Type
2,4-Dinitrotoluene	0.024	JM	0.076	0.018	ua/L	1	8321B	Total/NA

Client: TLI Solutions, Inc. Project/Site: Pueblo Chemical Depot 2021-2022

Client Sample ID: SPE03 (Co	ntinue	d)				Lab Sa	mple ID:	280-144361-9
Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D Method	Ргер Туре
2-Amino-4,6-dinitrotoluene	0.029	JM	0.095	0.020	ug/L	1	8321B	Total/NA
4-Amino-2,6-dinitrotoluene	0.032	JM	0.095	0.018	ug/L	1	8321B	Total/NA
RDX	0.33		0.095	0.020	ug/L	1	8321B	Total/NA
Nitrate as N	0.95	М	0.50	0.090	mg/L	1	9056A	Total/NA
Client Sample ID: SPE04					teal ill	Lab San	nple ID: 2	80-144361-10
Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D Method	Ргер Туре
2,4,6-Trinitrotoluene	0.039	JM	0.096	0.021	ug/L	1	8321B	Total/NA
2-Amino-4,6-dinitrotoluene	0.021	JM	0.096	0.020	ug/L	1	8321B	Total/NA
4-Amino-2.6-dinitrotoluene	0.022	JM	0.096	0.018	ug/L	1	8321B	Total/NA
НМХ	0.018	JM	0.096	0.018	ug/L	1	8321B	Total/NA
BDX	0.31		0.096	0.020	ug/L	1	8321B	Total/NA
Nitrate as N	0.82	М	0.50	0.090	mg/L	1	9056A	Total/NA
Client Sample ID: SPE05		2018-10 2018-10				Lab Sar	nple ID: 2	80-144361-11
Analyte	Recult	Qualifier	100	DI	Unit	Dil Fac	D Method	Prep Type
Phy	0.022	IM	0.096	0.020		1	8321B	Total/NA
Nitrate as N	0.84	M	0.50	0.090	mg/L	i	9056A	Total/NA
Client Sample ID: SPE06					-	Lab Sar	nple ID: 2	80-144361-12
Analyta	Pocult	Qualifier	100	Di	Unit	Dil Fac	D Method	Pren Tyne
PDY	0.12		0.096	0 020	00/1	1	8321B	Total/NA
Nitrate as N	0.75	м	0.50	0.090	mg/L	1	9056A	Total/NA
Client Sample ID: SPE06FD					_	Lab Sar	nple ID: 2	80-144361-15
Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D Method	Prep Type
BDX	0.069		0.095	0.020	ua/L	1	8321B	Total/NA
Nitrate as N	0.75	M	0.50	0.090	mg/L	1	9056A	Total/NA
Client Sample ID: SPE07	-	×		_	_	Lab Sar	nple ID: 2	80-144361-14
Analyte	Result	Qualifier	LOO	DL	Unit	Dil Fac	D Method	Prep Type
2.4-Dinitrotoluene	0.049	J M	0.076	0.018	ua/L	1	8321B	Total/NA
2.Amino-4.6-dipitrotoluene	0.041	JM	0.096	0.020	ug/l	1	8321B	Total/NA
4-Amino-2 6-dipitrotokuene	0.045	IM	0.096	0.018	ug/l	1	8321B	Total/NA
HMY	0.010		0.096	0.018	ug/L	1	8321B	Total/NA
RDX	0.019 A A A		0.096	0.020	un/l		8321B	Total/NA
Nitrate as N	1.2	М	0.50	0.090	mg/L	1	9056A	Total/NA
Client Sample ID: SPE08					Portá	Lab Sar	nple ID: 2	80-144361-15
Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D Method	Ргер Туре
A 174 - 14 - 14 - 14							-	

Client: TLI Solutions, Inc. Project/Site: Pueblo Chemical Depot 2021-2022

Client Sample ID: CSE10

Lab Sample ID: 280-144648-1

Lab Sample ID: 280-144648-3

Lab Sample ID: 280-144648-4

Lab Sample ID: 280-144648-5

Lab Sample ID: 280-144648-6

Lab Sample ID: 280-144648-7

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Ргер Туре
1,3,5-Trinitrobenzene	0.86		0.096	0.016	ug/L	1	-	8321B	Total/NA
2,4-Dinitrotoluene	0.054	JM	0.077	0.018	ug/L	1		8321B	Total/NA
2-Amino-4,6-dinitrotoluene	0.026	JM	0.096	0.020	ug/L	1		8321B	Total/NA
4-Amino-2,6-dinitrotoluene	0.064	JM	0.096	0.018	ug/L	1		8321B	Total/NA
RDX	0.023	J	0.096	0.020	ug/L	1		8321B	Total/NA
Nitrate as N	0.32	JM	0.50	0.090	mg/L	1		9056A	Total/NA
Client Sample ID: CSE11						Lab Sa	am	ple ID: 2	80-144648-2

Client Sample ID: CSE11

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method		Ргер Туре
1,3,5-Trinitrobenzene	0.92		0.096	0.016	ug/L	1		8321B		Total/NA
2,4-Dinitrotoluene	0.080	М	0.077	0.018	ug/L	1		8321B		Total/NA
2-Amino-4,6-dinitrotoluene	0.023	JM	0.096	0.020	ug/L	1		8321B		Total/NA
4-Amino-2,6-dinitrotoluene	0.048	JM	0.096	0.018	ug/L	1		8321B	65	Total/NA
RDX	0.057	J	0.096	0.020	ug/L	1		8321B		Total/NA
Nitrate as N	0.44	J	0.50	0.090	mg/L	1		9056A		Total/NA

Client Sample ID: CSE11FD

Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Ргер Туре
0.085	M	0.077	0.018	ug/L	1	-	8321B	Total/NA
0.037	JM	0.096	0.020	ug/L	1		8321B	Total/NA
0.064	JM	0.096	0.018	ug/L	1		8321B	Total/NA
0.059	J	0.096	0.020	ug/L	1		8321B	Total/NA
1.3	D	0.19	0.033	ug/L	. 2		8321B	Total/NA
0.44	JM	0.50	0.090	mg/L	1		9056A	Total/NA
	Result 0.085 0.037 0.064 0.059 1.3 0.44	Result Qualifier 0.085 M 0.037 J M 0.064 J M 0.059 J 1.3 D 0.44 J M	Result Qualifier LOQ 0.085 M 0.077 0.037 J M 0.096 0.064 J M 0.096 0.059 J 0.096 1.3 D 0.19 0.44 J M 0.50	Result Qualifier LOQ DL 0.085 M 0.077 0.018 0.037 J M 0.096 0.020 0.064 J M 0.096 0.018 0.059 J 0.096 0.020 1.3 D 0.19 0.033 0.44 J M 0.50 0.090	Result Qualifier LOQ DL Unit 0.085 M 0.077 0.018 ug/L 0.037 J M 0.096 0.020 ug/L 0.064 J M 0.096 0.018 ug/L 0.059 J 0.096 0.020 ug/L 1.3 D 0.19 0.033 ug/L 0.44 J M 0.50 0.090 mg/L	Result Qualifier LOQ DL Unit Dil Fac 0.085 M 0.077 0.018 ug/L 1 0.037 J M 0.096 0.020 ug/L 1 0.064 J M 0.096 0.018 ug/L 1 0.059 J 0.096 0.020 ug/L 1 1.3 D 0.19 0.033 ug/L 2 0.44 J M 0.50 0.090 mg/L 1	Result Qualifier LOQ DL Unit Dil Fac D 0.085 M 0.077 0.018 ug/L 1 1 0.037 J M 0.096 0.020 ug/L 1 0.064 J M 0.096 0.018 ug/L 1 0.059 J 0.096 0.020 ug/L 1 1.3 D 0.19 0.033 ug/L 2 0.44 J M 0.50 0.090 mg/L 1	Result Qualifier LOQ DL Unit Dil Fac D Method 0.085 M 0.077 0.018 ug/L 1 8321B 0.037 J M 0.096 0.020 ug/L 1 8321B 0.064 J M 0.096 0.018 ug/L 1 8321B 0.059 J 0.096 0.020 ug/L 1 8321B 1.3 D 0.19 0.033 ug/L 2 8321B 0.44 J M 0.50 0.090 mg/L 1 9056A

Client Sample ID: CSE12

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Ргер Туре
1,3,5-Trinitrobenzene	0.066	J	0.096	0.016	ug/L	1		8321B	Total/NA
RDX	0.034	JM	0.096	0.020	ug/L	1		8321B	Total/NA
Nitrate as N	0.65	M	0.50	0.090	mg/L	1		9056A	Total/NA

Client Sample ID: CSE13

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Ргер Туре
1,3,5-Trinitrobenzene	0.13		0.096	0.016	ug/L	1	_	8321B	Total/NA
RDX	0.065	J	0.096	0.020	ug/L	1		8321B	Total/NA
Nitrate as N	0.61	М	0.50	0.090	mg/L	1		9056A	Total/NA

Client Sample ID: CSE14

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D Meti	nod	Ргер Туре
1,3,5-Trinitrobenzene	0.13		0.095	0.016	ug/L	1	8321	В	Total/NA
RDX	0.038	J	0.095	0.020	ug/L	1	8321	В	Total/NA
Nitrate as N	0.48	JM	0.50	0.090	mg/L	1	9056	iA S	Total/NA

Client Sample ID: CSE15

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Ргер Туре
1,3,5-Trinitrobenzene	0.58		0.095	0.016	ug/L	1	_	8321B	Total/NA
2 4-Dinitrotoluene	0.053	J	0.076	0.018	ug/L	1		8321B	Total/NA
4-Amino-2,6-dinitrotoluene	0.023	JM	0.095	0.018	ug/L	1		8321B	Total/NA

Client: TLI Solutions, Inc. Project/Site: Pueblo Chemical Depot 2021-2022

Job ID: 280-144648-1

Client Sample ID: CSE15 (C	ontinue	d)				Lab Sa	am	ple ID: 2	80-144648-7
Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
RDX	0.058	J	0.095	0.020	ug/L	1		8321B	Total/NA
Nitrate as N	0.49	JM	0.50	0.090	mg/L	1		9056A	Total/NA
Client Sample ID: CSE16						Lab Sa	am	ple ID: 2	80-144648-8
Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Ргер Туре
1.3.5-Trinitrobenzene	0.89		0.096	0.016	ug/L	1		8321B	Total/NA
2.4-Dinitrotoluene	0.072	J	0.077	0.018	ug/L	1		8321B	Total/NA
RDX	0.047	J	0.096	0.020	ua/L	1		8321B	Total/NA
Nitrate as N	0.44	JM	0.50	0.090	mg/L	1		9056A	Total/NA
Client Sample ID: CSE17						Lab Sa	arr	ple ID: 2	80-144648-9
Anaivte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
2.4-Dinitrotoluene	0.11		0.076	0.018	ua/L		-	8321B	Total/NA
4-Amino-2.6-dinitrotoluene	0.028	JM	0.095	0.018	ua/L	1		8321B	Total/NA
RDX	0.088	J	0.095	0.020	ug/L	1		8321B	Total/NA
1.3.5-Trinitrobenzene - DI	2.0	D	0.19	0.032	ug/L	2		8321B	Total/NA
Nitrate as N	0.42	JM	0.50	0.090	mg/L	1		9056A	Total/NA
Client Sample ID: CSE18						Lab Sa	mp	ole ID: 28	0-144648-10
Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
2.4-Dinitrotoluene	0.11	_	0.078	0.019	ua/L	= 1	-	8321B	Total/NA
2-Amino-4.6-dinitrotoluene	0.023	J M J1	0.098	0.021	ua/L	1		8321B	Total/NA
4-Amino-2 6-dipitrotoluene	0.037	J M J1	0.098	0.019	ua/L	1		8321B	Total/NA
RDX	0.13		0.098	0.021	uo/L	1		8321B	Total/NA
1.3.5-Tripitrobenzene - DI	2.6	D	0.39	0.067	-9'- ua/l	4		8321B	Total/NA
Nitrate as N	0.48	JM	0.50	0.090	mg/L	1		9056A	Total/NA
Client Sample ID: CSE19						Lab Sa	mį	ple ID: 28	0-144648-11
Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Ргер Туре
2.4-Dinitrotoluene	0.065	J	0.077	0.018	ug/L	1	-	8321B	Total/NA
4-Amino-2.6-dinitrotoluene	0.027	JM	0.096	0.018	ug/L	1		8321B	Total/NA
BDX	0.070	J	0.096	0.020	ua/L	1		8321B	Total/NA
1.3.5-Trinitrobenzene - DI	2.8	D	0.19	0.033	ua/L	2		8321B	Total/NA
Nitrate as N	0.50	M	0.50	0.090	mg/L	1		9056A	Total/NA
Client Sample ID: CSE20		-			~	Lab Sa	mj	ple ID: 28	0-144648-12
Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Ргер Туре
1,3,5-Trinitrobenzene	0.34		0.096	0.016	ug/L	1	5	8321B	Total/NA
2,4-Dinitrotoluene	0.037	J	0.077	0.018	ug/L	1		8321B	Total/NA
2-Amino-4,6-dinitrotoluene	0.020	JM	0.096	0.020	ug/L	1		8321B	Total/NA
4-Amino-2,6-dinitrotoluene	0.028	JM	0.096	0.018	ug/L	1		8321B	Total/NA
RDX	0.058	J	0.096	0.020	ug/L	1		8321B	Total/NA
Nitrate as N	0.70	М	0.50	0.090	mg/L	1		9056A	Total/NA
Client Sample ID: CSE22		1				Lab Sa	mj	ple ID: 28	0-144648-13
Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Ргер Туре
2,4-Dinitrotoluene	0.24		0.077	0.018	ug/L	1	-	8321B	Total/NA
2-Amino-4,6-dinitrotoluene	0.062	JM	0.096	0.020	ug/L	1		8321B	Total/NA
This Detection Summary does not include ra	diochemica	test results.							(
							Eu	rofins TestA	merica, Denve

Client: TLI Solutions, Inc. Project/Site: Pueblo Chemical Depot 2021-2022

Client Sample ID: CSE22 (Continued)

Lab Sample ID: 280-144648-13

Lab Sample ID: 280-144648-14

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Ргер Туре
4-Amino-2,6-dinitrotoluene	0.10	M	0.096	0.018	ug/L	1		8321B	Total/NA
HMX	0.033	JM	0.096	0.018	ug/L	1		8321B	Total/NA
RDX	0.35		0.096	0.020	ug/L	1		8321B	Total/NA
1,3,5-Trinitrobenzene - DL	1.6	DM	0.19	0.033	ug/L	2		8321B	Total/NA
Nitrate as N	0.49	JM	0.50	0.090	mg/L	1		9056A	Total/NA

Client Sample ID: CSE22FD

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Ргер Туре
2,4-Dinitrotoluene	0.21		0.077	0.018	ug/L	1	-	8321B	Total/NA
2-Amino-4,6-dinitrotoluene	0.053	JM	0.096	0.020	ug/L	1		8321B	Total/NA
4-Amino-2,6-dinitrotoluene	0.071	JM	0.096	0.018	ug/L	1		8321B	Total/NA
НМХ	0.031	JM	0.096	0.018	ug/L	1		8321B	Total/NA
RDX	0.33		0.096	0.020	ug/L	1		8321B	Total/NA
1,3,5-Trinitrobenzene - DL	1.6	D	0.19	0.033	ug/L	2		8321B	Total/NA
Nitrate as N	0.49	JM	0.50	0.090	mg/L	1		9056A	Total/NA

Client Sample ID: CSE23

Analyte	Result	Qualifier	LOQ	: DL	Unit	Dil Fac	DI	Method	Ргер Туре
1,3,5-Trinitrobenzene	0.30		0.096	0.016	ug/L	1		8321B	Total/NA
2,4-Dinitrotoluene	0.054	J	0.077	0.018	ug/L	1	ł	8321B	Total/NA
2-Amino-4,6-dinitrotoluene	0.022	JM	0.096	0.020	ug/L	1	ł	8321B	Total/NA
4-Amino-2,6-dinitrotoluene	0.029	JM	0.096	0.018	ug/L	1	- 4	8321B	Total/NA
RDX	0.074	L	0.096	0.020	ug/L	1	ł	8321B	Total/NA
Nitrate as N	0.31	JM	0.50	0.090	mg/L	1	1	9056A	Total/NA

Client Sample ID: CSE24

Lab Sample ID: 280-144648-16

Lab Sample ID: 280-144648-17

Lab Sample ID: 280-144648-18

Lab Sample ID: 280-144648-15

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
1,3,5-Trinitrobenzene	0.40		0.096	0.016	ug/L	1		8321B	Total/NA
2,4-Dinitrotoluene	0.091	М	0.076	0.018	ug/L	1		8321B	Total/NA
2-Amino-4,6-dinitrotoluene	0.039	JM	0.096	0.020	ug/L	1		8321B	Total/NA
4-Amino-2,6-dinitrotoluene	0.049	JM	0.096	0.018	ug/L	1		8321B	Total/NA
НМХ	0.018	JΜ	0.096	0.018	ug/L	1		8321B	Total/NA
RDX	0.16		0.096	0.020	ug/L	1		8321B	Total/NA
Nitrate as N	0.40	JM	0.50	0.090	mg/L	1		9056A	Total/NA

Client Sample ID: CSE30

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	DM	lethod	Prep Type
1,3,5-Trinitrobenzene	1.0		0.095	0.016	ug/L	1	8	321B	Total/NA
2,4-Dinitrotoluene	0.076		0.076	0.018	ug/L	1	8	321B	Total/NA
2-Amino-4,6-dinitrotoluene	0.026	JM	0.095	0.020	ug/L	1	8	321B	Total/NA
4-Amino-2,6-dinitrotoluene	0.059	JM	0.095	0.018	ug/L	1	8	321B	Total/NA
RDX	0.065	J	0.095	0.020	ug/L	1	8	321B	Total/NA
Nitrate as N	0.46	JM	0.50	0.090	mg/L	1	9	056A	Total/NA

Client Sample ID: CSE31

Analyte	Result	Qualifier	LOQ	DL	Unit		Dil Fac	D	Method	Ргер Туре
1,3,5-Trinitrobenzene	1.2		0.095	0.016	ug/L	94) (4)	1	-	8321B	Total/NA
2,4-Dinitrotoluene	0,088		0.076	0,018	ug/L		1		8321B	Total/NA

Client: TLI Solutions, Inc. Project/Site: Pueblo Chemical Depot 2021-2022

Client Sample ID: CSE31 (Continued)

Client Sample ID: CSE	lient Sample ID: CSE31 (Continued)						Lab Sample ID: 280-144					
Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Ргер Туре			
2-Amino-4,6-dinitrotoluene	0.032	JM	0.095	0.020	ug/L	1		8321B	Total/NA			
4-Amino-2,6-dinitrotoluene	0.077	JM	0.095	0.018	ug/L	1		8321B	Total/NA			
RDX	0.14		0.095	0.020	ug/L	1		8321B	Total/NA			
Nitrate as N	0.70	M	0.50	0.090	mg/L	1		9056A	Total/NA			

Client Sample ID: CSE44

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Ргер Туре
1,3,5-Trinitrobenzene	0.054	J	0.095	0.016	ug/L	1	_	8321B	Total/NA
Nitrate as N	0.43	JM	0.50	0.090	mg/L	1		9056A	Total/NA

Client Sample ID: CSE45

DL Unit **Dil Fac D Method** Ргер Туре Analyte **Result Qualifier** LOQ 1,3,5-Trinitrobenzene 0.57 0.096 0.016 ug/L 1 8321B Total/NA 8321B Total/NA 2,4-Dinitrotoluene 0.023 J 0.077 0.018 ug/L 1 8321B Total/NA RDX 0.027 J 0.096 0.020 ug/L 1 Total/NA Nitrate as N 0.49 JM 0.50 0.090 mg/L 1 9056A

Client Sample ID: CSE46

Lab Sample ID: 280-144648-21

Lab Sample ID: 280-144648-19

Lab Sample ID: 280-144648-20

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Ргер Туре
1,3,5-Trinitrobenzene	0.048	J	0.094	0.016	ug/L	1	_	8321B	Total/NA
RDX	0.025	J	0.094	0.020	ug/L	1		8321B	Total/NA
Nitrate as N	0.47	J	0.50	0.090	mg/L	1		9056A	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Denver

Job II	D: 280-	144962-1
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Lab Sample ID: 280-144962-1

Lab Sample ID: 280-144962-2

Lab Sample ID: 280-144962-3

Lab Sample ID: 280-144962-4

Client Sample ID: SWE01

No Detections.

Client: TLI Solutions. Inc.

Client Sample ID: SWE01A

No Detections.

Client Sample ID: SWE01FD

No Detections.

Client Sample ID: SWE02

No Detections.

Client Sample ID: SWE03

No Detections.

Client Sample ID: SWE04

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
2,4-Dinitrotoluene	0.030	J	0.076	0.018	ug/L	1	-	8321B	Total/NA
2-Amino-4,6-dinitrotoluene	0.020	JM	0.095	0.020	ug/L	1		8321B	Total/NA
4-Amino-2,6-dinitrotoluene	0.038	JM	0.095	0.018	ug/L	1		8321B	Total/NA
RDX	0.11		0.095	0.020	ug/L	1		8321B	Total/NA

Client Sample ID: SWE05

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
2,4-Dinitrotoluene	0.027	J	0.077	0.018	ug/L	1		8321B	Total/NA
2-Amino-4,6-dinitrotoluene	0.020	J	0.096	0.020	ug/L	1		8321B	Total/NA
4-Amino-2,6-dinitrotoluene	0.054	J	0.096	0.018	ug/L	1		8321B	Total/NA
RDX	0.18		0.096	0.020	ug/L	1		8321B	Total/NA

Client Sample ID: SWE06

Analyte	Result	Qualifier	LOQ	DL	Unit	Dii Fa	c D	Method	Ргер Туре
2,4-Dinitrotoluene	0.17		0.077	0.018	ug/L		1	8321B	Total/NA
2-Amino-4,6-dinitrotoluene	0.060	J	0.096	0.020	ug/L		1	8321B	Total/NA
4-Amino-2,6-dinitrotoluene	0.11		0.096	0.018	ug/L		1	8321B	Total/NA
RDX	0.65		0.096	0.020	ug/L		1	8321B	Total/NA

Client Sample ID: SWE30

0,13	0.077	0.018	ug/l			
		0,010	uyrc	1	83218	Total/NA
0.032 J	0.096	0.020	ug/L	1	8321B	Total/NA
0.11	0.096	0.018	ug/L	1	8321B	Total/NA
0.89	0.096	0.020	ug/L	1	8321B	Total/NA
5.8	0.50	0.090	mg/L	1	9056A	Total/NA
			•	Lab San	nple ID:	280-144962-10
	0.032 J 0.11 0.89 5.8	0.032 J 0.096 0.11 0.096 0.89 0.096 5.8 0.50	0.032 J 0.096 0.020 0.11 0.096 0.018 0.89 0.096 0.020 5.8 0.50 0.090	0.032 0.096 0.020 0g/L 0.11 0.096 0.018 ug/L 0.89 0.096 0.020 ug/L 5.8 0.50 0.090 mg/L	0.032 0.096 0.020 0g/L 1 0.11 0.096 0.018 ug/L 1 0.89 0.096 0.020 ug/L 1 5.8 0.50 0.090 mg/L 1	0.032 0.096 0.020 0g/L 1 83218 0.11 0.096 0.018 ug/L 1 83218 0.89 0.096 0.020 ug/L 1 83218 5.8 0.50 0.090 mg/L 1 9056A

Analyte	Result Qualifier	LOQ	DL Unit	Dil Fac D	Method	Ргер Туре
Nitrate as N	4.9	0.50	0.090 mg/L	1	9056A	Total/NA

This Detection Summary does not include radiochemical test results.

Lab Sample ID: 280-144962-5

Lab Sample ID: 280-144962-6

Lab Sample ID: 280-144962-7

Lab Sample ID: 280-144962-8

Lab Sample ID: 280-144962-9

Client: TLI Solutions, Inc. Project/Site: Corrective Measure Monitoring Plan

Client Sample ID: SWE31FD						Lab Sa	mp	ole ID: 28	0-144962-11
Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
Nitrate as N	4.9		0.50	0.090	mg/L	1		9056A ·	Total/NA
Client Sample ID: SWE32						Lab Sa	np	ole ID: 28	0-144962-12
Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Ргер Туре
2,4-Dinitrotoluene	0.072	J	0.077	0.018	ug/L	1	_	8321B	Total/NA
2-Amino-4,6-dinitrotoluene	0.071	J	0.096	0.020	ug/L	1		8321B	Total/NA
4-Amino-2,6-dinitrotoluene	0.070	J	0.096	0.018	ug/L	1		8321B	Total/NA
RDX	1.2		0.096	0.020	ug/L	1		8321B	Total/NA
Nitrate as N	3.3		0.50	0.090	mg/L	1		9056A	Total/NA
Client Sample ID: SWE33	u. T					Lab Sa	nļ	ole ID: 28	0-144962-13
Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Ргер Туре
2-Amino-4,6-dinitrotoluene	0.46		0.095	0.020	ug/L	1	-	8321B	Total/NA
4-Amino-2,6-dinitrotoluene	• 0.73		0.095	0.018	ug/L	1		8321B	Total/NA
HMX	0.080	J	0.095	0.018	ug/L	1		8321B	Total/NA
2,4-Dinitrotoluene - DL	1.5	D	0.38	0.091	ug/L	5		8321B	Total/NA
RDX - DL	2.5	J1 D	0.48	0.10	ug/L	5		8321B	Total/NA
Nitrate as N	5.7		0.50	0.090	mg/L	1		9056A	Total/NA
Client Sample ID: SWE34						Lab Sa	mp	ole ID: 28	0-144962-14
Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
2,4-Dinitrotoluene	0.66		0.077	0.018	ug/L	1		8321B	Total/NA
2-Amino-4,6-dinitrotoluene	0.20		0.096	0.020	ug/L	1		8321B	Total/NA
4-Amino-2,6-dinitrotoluene	0.41		0.096	0.018	ug/L	1		8321B	Total/NA
RDX - DL	3.3	D	1.9	0.40	ug/L	20		8321B	Total/NA
Nitrate as N	4.0		0.50	0.090	mg/L	1		9056A	Total/NA

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CONTAINER LOG

Date Issued: 07/08/2021

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CONTAINER CONTENTS: FILTERS, PPE & DEBRIS CONTAINER NUMBER: 21PCD0232 CONTAINER SIZE: 55 GL OT Poly

REMARKS:

Organization: Building: Hazardous Waste Manger and Alternate Manage SWMU17-(GETI) TNT WO Ann Mead									
DATE	AMOUNT	TYPE OF WASTE	NAME (Print Clearly)						
7-14-21	1/2 CU.FT.	Gloves, Bailer Filters, PAPER TUWALS	JONY AllEN						
15-03-7	.25 cuFT	20" CARTE INGE CITY	TONY ALLEN						
7-,28-71	1.25 cuff	sines difers filter wrappers	Ne: / Nelson						
7/28/21	1 Bag PPE	sters Paper touts out sompling	Bill themp						
7-29-21	3-5/2514	Gloves, filters.	your						
8-23-21	11" long	Dead submersible pump	Neil Nelson						
10-20.21	1.29 cuft.	gloves. Folters, Popul Towels	Tory AllEN						
11-17-21	"" each	subnersible pumps gloves	Neil Nelson						
		i in an i							
)									
TURN-IN VF GENERATOR I, accurate repres on this waste,	RIFICATION CERTIFICATIC sentation of the wa I certify that no ch	ON , hereby certify that all the information submitted in this document is to aste turned in or burned. All known or suspected hazards have been disch nanges have occurred in the process that generated this waste.	the best of my knowledge an osed. If a waste profile exists						
SIGNATURE		Date							
DISPOSAL METHOD: (Circle One: BLEND FOR ENERGY RECOVERY, RECYCLED, SENT TO HWC)									
This section to	be filled in by	Hazardous Waste Center Personnel							
Profile Numbe	г								
Document Nu	mber:	Tum-in date:							

