Construction Completion Report – On-Site Wooded Area Soil Removal
Former Union Fork & Hoe Facility
253 East Main Street
Frankfort, New York
NYSDEC Site No. 6-22-011

Tetra Tech Project #194-1197-0003
May 2021

PRESENTED TO

The Ames Companies
Camp Hill, Pennsylvania

PRESENTED BY

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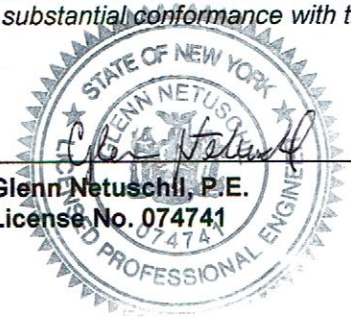
"I, Glenn Netuschil, P.E., certify that I am currently a licensed New York State Professional Engineer and that this Construction Completion Report was prepared in accordance with all applicable statutes and regulations in the Division of Environmental Remediation Technical Guidance for Site Investigation and Remediation (DER-10) and in substantial conformance with the NYSDEC-approved On-Site Wooded Area Soil Removal Plan."



5-26-2021

Glenn Netuschil, P.E.
License No. 074741

Date

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1.0 INTRODUCTION

Tetra Tech, Inc. (Tetra Tech), on behalf of The Ames Companies, is submitting to the New York State Department of Environmental Conservation (NYSDEC) and the New York State Department of Health (NYSDOH) this Construction Completion Report (CCR) for the former Union Fork & Hoe (UFH) facility located at 253 East Main Street in Frankfort, Herkimer County, New York (the "Site"; Figure 1). This CCR documents the on-site Wooded Area soil removal at the Site that was implemented in general conformance with the NYSDEC-approved On-Site Wooded Area Soil Removal Plan (Removal Plan) prepared by Tetra Tech dated November 16, 2020 (Tetra Tech, 2020a). The soil removal in the Wooded Area was part of the overall remedy for the Site which will be discussed in a separate CCR (by others).

1.1 CONSTRUCTION COMPLETION REPORT OBJECTIVES

The objectives of the CCR are to provide the following:

1. Documentation that the remedial activities were completed per the approved Removal Plan
2. A description of the remedial activities implemented
3. Clean backfill documentation
4. A summary of waste disposal information, including waste characterization sampling and disposal documentation

2.0 SITE DESCRIPTION AND BACKGROUND

The Site is approximately rectangular in shape, and bounded by East Orchard Street to the northwest, East Main Street to the southwest, residential and commercial uses to the northwest, a former railroad easement on the northeast side, and industrial and commercial uses on the southeast side (see Figure 1). The Site has historically been used for manufacturing of hoes, shovels, forks, and other hand tools by Union Tools (purchased by Ames True Temper in 2006) for more than 100 years (BBJG, 2015). Manufacturing processes conducted at the Site included forging, stamping, painting, varnishing, and milling. Operations ceased in December 2006 and all remaining Site buildings were demolished in 2012.

The previous on-site soil excavation activities were conducted pursuant to the March 2018 Record of Decision (ROD) and February 2019 Draft Remedial Action Work Plan (RAWP) (O'Brien & Gere [OBG], 2019). The impacted surface soil was removed from much of the northern and southern portions of the Site in early 2020, and northeast of the concrete pads along the northern property boundary. In accordance with the 2019 RAWP, a consolidated area of excavated soil was constructed on the Site with a vegetative soil cover. The remaining intact portions of the Site consist of the concrete pads and a Wooded Area in the central portion of the Site shown on Figure 1 ("Wooded Area").

2.1 WOODED AREA SOIL SAMPLING SUMMARY

Lead was previously detected at concentrations exceeding its commercial Soil Cleanup Objective (SCO) at the Wooded Area and in confirmation samples collected from the former excavated area abutting the Wooded Area. The purpose of the soil sampling was to pre-characterize the limits of soil removal required to address the elevated lead. Elevated concentrations of lead were detected above the corresponding commercial SCO at the on-site Wooded Area during the soil sampling activities conducted in August 2020 as discussed in correspondence prepared by Tetra Tech to the NYSDEC dated September 21, 2020 (Tetra Tech, 2020b). The sampling event included screening soil in the field for lead utilizing an x-ray fluorescence (XRF) analyzer, and the collection of verification soil samples from the screened locations for laboratory analyses within the former excavated area and the Wooded Area. As per the NYSDEC approval letter, Tetra Tech also performed lead screening of the floor and sidewall confirmation sample locations within the former excavated area which exceeded the commercial SCO of 1,000 parts per million (ppm) for lead. The previous samples exceeding the commercial SCO were sidewall samples S1240, S1241, S1242, S1243, and S1244, and floor samples F2214, F2215, and F2216 as shown on Figure 2.

At each of the sidewall sample locations, Tetra Tech screened soil from the interval immediately below the clean fill material to 1 foot below ground surface (bgs) and at 1-foot depth intervals until the lead concentration was below 1,000 ppm using the XRF field-screening analyzer. The concentration of lead in soil screened at locations S1240 and S1244 was below 1,000 ppm; therefore, screening intervals advanced to a total depth of 2 feet bgs. Soil screened from the 2 to 12-inch depth interval at locations S1241, S1242, and S1243 exhibited lead concentrations of 1,004 ppm, 2,243 ppm, and 1,760 ppm, respectively. At location S1241, S1242, and S1243, the lead concentrations measured in the underlying interval from 1 to 2 feet bgs were below 1,000 ppm.

Soil was screened at each of the previous floor sampling locations F2214, F2215, and F2216. The requested screening intervals were 18 to 24 inches and 24 to 36 inches below the original grade. The lead concentration measured with the XRF analyzer was below 1,000 ppm in the screened intervals at the floor sampling locations.

Tetra Tech screened soil at a total of 21 locations (DS-01 through DS-21) within the Wooded Area. Screening in the Wooded Area was conducted in two rows, an inner and outer row, beyond the limit of the former excavation into the Wooded Area. Screening started at ten locations (DS-01 through DS-10) forming an inner row approximately 30 feet into the Wooded Area from the limit of the former excavation. Then a second, outer row of screening was conducted at ten locations (DS-11 through DS-20) that were 30 feet farther into the Wooded Area. Due to elevated lead concentrations at DS-11, an additional location, DS-21, was screened approximately 30 feet to the south of DS-11.

Soil at locations DS-01 through DS-07, DS-10, and DS-12 through DS-21 was screened to a total depth of 1 foot bgs because the lead concentrations in the upper two screening intervals were below 1,000 ppm. At location DS-09, the lead concentrations measured by the XRF analyzer in the upper three soil screening intervals (0 to 2 inches, 2 inches to 1 foot, and 1 to 2 feet bgs) were 1,599 ppm, 1,781 ppm, and 2,173 ppm, respectively. Below 3 feet bgs the measured lead concentrations were below 1,000 ppm. From 2 to 3 feet bgs, the lead concentration was 807 ppm; and from 3 feet to 44 inches bgs, the lead concentration was 843 ppm. At location DS-11 soil was screened to a total depth of 5 feet bgs. The lead concentrations measured by the XRF analyzer in the upper three soil screening intervals (0 to 2 inches, 2 inches to 1 feet, 1 to 2 feet bgs) were 893 ppm, 1,244 ppm, and 1,110 ppm, respectively. Lead concentrations measured from 2 to 3 feet bgs and 3 to 4 feet bgs were below 1,000 ppm to qualify as further delineation at 993 ppm and 989 ppm. The lead concentration measured with the XRF analyzer in the deepest interval from 4 to 5 feet bgs was 1,156 ppm.

3.0 SUMMARY OF REMEDIAL ACTION

The following actions were completed as part of the on-site Wooded Area soil removal remedy:

1. Site preparation and equipment mobilization
2. Clearing and grubbing
3. Implementation of erosion and sediment controls
4. Excavation and off-site disposal of soil exceeding commercial SCOs for lead near the former excavation area, as shown on Figure 2 and as described below.
    - Shallow excavation of 1 foot bgs in the area located between delineation soil samples (DS-03 to DS-08, DS-12, DS-21 and DS-10) in the Wooded Area and the former sidewall confirmation samples (S1240 to S1244);
    - Shallow excavation to 2 feet bgs in the area of delineation soil sample location DS-09; and
    - Excavation to 5 feet bgs in the area of delineation soil sample location DS-11.
5. Implementation of the Community Air Monitoring Plan (CAMP) that was conducted during all ground-intrusive activities
6. Placement of a demarcation layer consisting of woven geotextile fabric along the bottom and sides of the excavation areas prior to backfilling
7. Import of clean backfill for the excavated areas in compliance with the Division of Remediation's criteria for backfill, as per DER-10 (NYSDEC, 2010)
8. The completion of Site restoration activities

3.1 GOVERNING DOCUMENTS

The remedial activities were completed in accordance with the NYSDEC-approved Removal Plan (Tetra Tech, 2020a) and the Site-Specific Health and Safety Plan (HASP), which was included as Appendix A of the Removal Plan.

3.2 REMEDIAL PROGRAM ELEMENTS

The following sections identify the contractor and consultant who performed the remedial action and site preparation and controls utilized to manage the Site. In addition, a summary of the CAMP results is provided in the following sections.

3.2.1 Contractor and Consultant

The project team and associated responsibilities were as follows:

- The Ames Companies – Site Owner. Granted access to the Site for the excavation activities.
- Environmental Waste Minimization, Inc. (EWMI) – The selected excavation contractor. Performed clearing and grubbing, the excavation of soil to the required depths, backfill, decontamination of trucks and heavy equipment, and Site restoration. Contracted the transport and disposal of the contaminated excavated soil.

- Tetra Tech, Inc. – Remedial Engineer
  - Glenn Netuschil, P.E., Project Manager and the Engineer of Record, a professional engineer licensed in the State of New York, was responsible for certifying that the remedial construction was completed in substantial conformance with the approved Removal Plan and/or any NYSDEC approved changes.
  - Greg Wissink, Field Oversight.

Tetra Tech provided full-time supervision services for the duration of soil removal activities. Tetra Tech implemented the CAMP. In accordance with the CAMP, monitoring of the upwind and downwind perimeters was conducted during intrusive activities to ensure the protection of the surrounding community.

Tetra Tech performed waste characterization sampling in support of off-site disposal of soil. Tetra Tech also ensured that all components of the Site activities were conducted according to the requirements of the Removal Plan.

3.2.2 Site Preparation

Prior to mobilization, EWMI contacted Dig Safely New York, Inc. to identify and mark, if applicable, known utilities and/or pipelines in the vicinity of the excavation area. EWMI and Tetra Tech mobilized to the Site on January 6, 2021. The mobilization activities included the following:

- Mobilization of remediation equipment and materials and
- Set-up of temporary facilities (e.g., construction trailer and portable toilet)

3.2.3 General Site Controls

The main access during the removal activities was from the existing East Main Street entrance (See Figure 1). The Site is surrounded by an existing perimeter fence with a locked gate. The gate was closed and locked when there was no activity on the Site.

The truck traffic used the existing roadway through the center of the consolidated area to minimize potential impacts to the existing site cover. Trucks were also used to bring the heavy equipment (i.e., excavator) via a trailer to the existing concrete slab area near the Wooded Area for off-loading and loading. Imported gravel was placed on the existing roadway through the center of the consolidated area to stabilize the roadway and prevent tracking of soil offsite.

Site record keeping for all remedial work was appropriately documented. Tetra Tech personnel who conducted the remediation work or provided oversight had completed the 40-hour OSHA Hazardous Waste Operations and Emergency Response training, with annual refreshers as applicable. The excavation activities were performed in Level C personal protective equipment, which included half-mask air-purifying respirators fitted with HEPA (P100, Magenta) cartridges, Tyvek® protective clothing, steel-toed work boots, hard hats, safety glasses, and high visibility clothing (e.g., reflective vests).

Prior to commencing soil removal activities, the former soil sampling locations, as discussed in Section 2.1, were located using a mobile global positioning system (GPS) device capable of measuring to the nearest foot. Following the determination of the limits of soil to be excavated, the Wooded Area was cleared and grubbed to allow access to the excavation area. The trees and brush were removed to ground surface. The vegetative material was chipped and placed in the consolidated area. Any ground or buried debris (i.e., concrete) was removed and staged onsite. The erosion and sedimentation control features, including pre-filled 8-inch compost filter socks, were placed approximately 15 feet from the proposed excavation perimeter at locations surrounding the excavation area.

The temporary soil stockpile area for the excavated soil was established in the paved area near the Site entrance. The soil stockpiles were constructed using poly sheeting and were kept covered at all times with appropriately anchored poly sheeting. The excavated materials suspected to be hazardous waste were staged separately from the non-hazardous waste. Tetra Tech was responsible for overseeing the waste segregation process and confirming that waste was segregated and stockpiled onsite. The Contractor was also responsible for the installation and maintenance of the soil staging area.

3.2.4 CAMP Results

Community air monitoring was conducted in accordance with the NYSDOH Generic Community Air Monitoring Plan, Appendix 1A and 1B of the Technical Guidance for Site Investigation and Remediation (DER-10).

One upwind and one downwind CAMP monitoring stations were operated during all intrusive activities. The instrument used for air monitoring was a dust/particulate monitor DustTrak 2 Monitor 8530, which can integrate readings over periods of 15 minutes. The instrumentation was housed in weather-tight enclosures. Particulate monitoring data were collected when intrusive activities were performed from January 18, 2021, to January 19, 2021.

There were no exceedances of the particulate action level (150 micrograms per liter [µg/m^3]) during performance of the excavation activities. Copies of all field data sheets relating to the CAMP are provided in Appendix A.

3.2.5 Reporting

Tetra Tech prepared and maintained onsite daily field activity reports. Daily field activity reports documented field conditions and activities throughout the performance of the remedial action and included the following information:

- Date and weather
- Listing of personnel onsite
- A summary of work activities performed
- A summary of anticipated future work activities
- A summary of QA/QC testing performed and/or samples collected

- A summary of waste generated
- A summary of materials or equipment delivered to or removed from the Site

All daily reports are included in Appendix B.

3.3 CONTAMINATED MATERIAL REMOVAL

The remedial action involved the removal of non-hazardous soil from the Site. The following sections summarize the soil remedial activities completed.

3.3.1 Soil Excavation

Based on the results of the soil sampling described in Section 2.1, soil was excavated in the Wooded Area to the design vertical and horizontal limits shown on Figure 2. Excavation activities were performed from January 18, 2021 to January 19, 2021.

All excavated soils were disposed of off-site. As per the approved Removal Plan, excavation sidewall and bottom samples were not required.

3.3.1.1 Waste Characterization Sampling

Waste characterization samples were collected from the soil stockpiles for full toxicity characteristic leaching procedure (TCLP) analysis and other analytes as required by the Oneida-Herkimer Solid Waste Authority, located in the Town of Ava, New York. The stockpiled soil from the excavation area was sampled at a frequency of one composite sample per 250 tons which resulted in the collection of three soil stockpile composite samples. The soil stockpile composite samples were analyzed for full TCLP by United States Environmental Protection Agency (USEPA) Method SW846 (i.e., volatile organic compounds, semi-volatile compounds, metals, pesticides, and herbicides) and other analytes as listed below.

- Total Metals (Method 6010C)
- Polychlorinated Biphenyls (PCBs) (Method 8082A)
- Total percent solids, USEPA (160.3M)
- Sulfide reactivity (Method SW846 7.3)
- Cyanide reactivity (Method SW846 7.3CN)
- Ignitability (Method SW846 1030)
- pH (Method SW846, 9045D)
- Paint filter test (Method SW846, 9095B)

A summary of the samples collected to characterize the waste, and associated analytical results is presented on Table 1.

3.3.1.2 Soil Disposal

Approximately 481 tons of soil were removed and properly disposed of offsite as non-hazardous regulated waste on March 10, 2021. The non-hazardous soil was transported to the Ava Landfill

in Booneville, New York for off-site disposal. The soil was transported to the Ava Landfill by Leitz Trucking Corporation of Frankfort, New York. All transport of the excavated soil was performed by licensed haulers in accordance with applicable local, State and Federal regulations, including NYCRR Part 364.

Tetra Tech observed the load-out of the excavated soil. Loaded vehicles leaving the site were appropriately lined, tarped, securely covered, manifested, and placarded in accordance with appropriate Federal, State, local, and New York State Department of Transportation (NYSDOT) requirements (and all other applicable transportation requirements).

The exterior of trucks leaving the site were free of soil. Once the excavated soil was removed, the poly sheeting and all other components used to construct the soil stockpile areas were collected and loaded with the soil for proper off-site disposal.

Table 2 shows the total quantity of material removed from the Site and the disposal location. Manifests and bills of lading are included in Appendix C.

3.4 IMPORTED BACKFILL

Once the excavation depths were reached, a non-woven geotextile (orange color) demarcation layer was placed on the bottom and sidewalls of the excavated area prior to backfilling. The excavation area was then backfilled with crushed stone prior to placement of the topsoil. The crushed stone met the requirements of DER-10, Section 5.4 and did not require chemical testing. The crushed stone was obtained from a clean source. (Documentation is provided in Appendix D.)

A 6-inch layer of topsoil was placed on top of the crushed stone. The topsoil was transported to the Site by Leitz Trucking Corporation from the Leitz Trucking Corporation's approved source located in Frankfort, New York. Sampling of topsoil material was conducted at the rate specified in Table 5.4(e)10 of DER-10 and analyses were performed for volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), PCBs and inorganics at a NYSDOH Environmental Laboratory Approval Program (ELAP) facility. In addition, one composite soil sample was analyzed for per-and polyfluoroalkyl substances (PFAS) and 1,4-dioxane.

A table of the imported backfill with quantities for each source is shown in Table 3. Imported documentation is provided in Appendix D.

3.4.1 Site Restoration

Erosion control matting was placed on the new vegetative cover area and on any existing soil cover areas disturbed and re-seeded during the soil removal activities.

3.5 DEVIATIONS FROM THE ON-SITE WOODED AREA SOIL REMOVAL PLAN

The deviation from the on-site Wooded Area soil removal plan was limited to the location of the soil stockpiles. The soil stockpiles were to be located and installed on the concrete slab near the excavated area. However, due to concerns with maintaining the stability of the roadway through

the consolidated area, the soil stockpiles were located on existing concrete near the gated entrance to the Site.

4.0 CONCLUSION

The soil removal activities successfully removed lead-impacted soils from the on-site Wooded Area. As a result of the remedial activities, the objectives of the on-site Wooded Area soil removal have been met and no further action is required for the on-site Wooded Area and for the entire Site.

5.0 REFERENCES

BBJG, 2015. Remedial Investigation Report, Former Union Fork and Hoe Facility, 253 East Main Street, Frankfort, New York. February 12.

New York State Department of Environmental Conservation (NYSDEC), 2010. DER-10 - Technical Guidance for Site Investigation and Remediation.

NYSDEC, 2018. Record of Decision, Former Union Fork & Hoe Site No. 622011, Frankfort, New York.

O'Brien and Gere (OBG), 2019. Draft Remedial Action Work Plan, Former Union Fork & Hoe Site No. 6-22-011, Frankfort, New York.

Tetra Tech, 2020a, On-Site Wooded Area Soil Removal Plan, Former Union Fork and Hoe Facility, 253 East Main Street, Frankfort, New York, NYSDEC Site No. 6-22-011.

Tetra Tech, 2020b, Soil Sampling Results for the Wooded Area Letter Report, Former Union Fork and Hoe Facility, 253 East Main Street, Frankfort, New York, NYSDEC Site No. 6-22-011.

TABLES

Table 1. Summary of Waste Characterization Soil Samples, Former Union Fork and Hoe Site, Frankfort, NY

			Sample Designation:	WC_A_01-011921	WC_A_02-011921	WC_B_01-011921
			Laboratory ID:	R2100502-001	R2100502-002	R2100502-003
			Sample Date:	1/19/2021	1/19/2021	1/19/2021
Parameter	Units	RCRA Regulatory Level (40 CFR 261)				
TCLP Volatile Organic Compounds (VOCs)						
1,1-Dichloroethene	mg/L	0.7		<0.05	<0.05	<0.05
1,2-Dichloroethane	mg/L	0.5		<0.05	<0.05	<0.05
2-Butanone (MEK)	mg/L	200		<0.01	<0.01	<0.01
Benzene	mg/L	0.5		<0.05	<0.05	<0.05
Carbon tetrachloride	mg/L	0.5		<0.05	<0.05	<0.05
Chlorobenzene	mg/L	100		<0.05	<0.05	<0.05
Chloroform	mg/L	6		<0.05	<0.05	<0.05
Tetrachloroethene (PCE)	mg/L	0.7		<0.05	<0.05	<0.05
Trichloroethene (TCE)	mg/L	0.5		<0.05	<0.05	<0.05
Vinyl chloride	mg/L	0.2		<0.05	<0.05	<0.05
TCLP Semi-Volatile Organic Compounds (SVOCs)						
1,4-Dichlorobenzene	mg/L	7.5		<0.01	<0.01	<0.01
2,4,5-Trichlorophenol	mg/L	400		<0.01	<0.01	<0.01
2,4,6-Trichlorophenol	mg/L	2		<0.01	<0.01	<0.01
2,4-Dinitrotoluene	mg/L	0.13		<0.01	<0.01	<0.01
2-Methylphenol (o-cresol)	mg/L	200		<0.01	<0.01	<0.01
3-Methylphenol/4-Methylphenol (m,p-cresol)	mg/L	200		<0.01	<0.01	<0.01
Hexachlorobenzene	mg/L	0.13		<0.01	<0.01	<0.01
Hexachlorobutadiene	mg/L	0.5		<0.01	<0.01	<0.01
Hexachloroethane	mg/L	3		<0.01	<0.01	<0.01
Nitrobenzene	mg/L	2		<0.01	<0.01	<0.01
Pentachlorophenol	mg/L	100		<0.5	<0.5	<0.5
Pyridine	mg/L	5		<0.5	<0.5	<0.5
TCLP Herbicide						
2,4,5-TP (Silvex)	mg/L	1		<0.005	<0.005	<0.005
Dichlorophenoxyacetic acid (2,4-D)	mg/L	10		<0.005	<0.005	<0.005
TCLP Pesticide						
BHC, gamma (Lindane)	mg/L	0.4		<0.0025	<0.0025	<0.0025
Chlordane	mg/L	0.03		<0.0005	<0.0005	<0.0005
Endrin	mg/L	0.02		<0.0005	<0.0005	<0.0005
Heptachlor	mg/L	0.008		<0.0005	<0.0005	<0.0005
Heptachlor epoxide	mg/L	0.008		<0.0005	<0.0005	<0.0005
Methoxychlor	mg/L	10		<0.0005	<0.0005	<0.0005
Toxaphene	mg/L	0.5		<0.005	<0.005	<0.005
TCLP Metals						
Arsenic	mg/L	5		<0.5	<0.5	<0.5
Barium	mg/L	100		<1.0	<1.0	<1.0
Cadmium	mg/L	1		<0.1	<0.1	<0.1
Chromium	mg/L	5		<0.1	<0.1	<0.1
Lead	mg/L	5		1.09	1.06	0.61
Mercury	mg/L	0.2		<0.0003	<0.0003	<0.0003
Selenium	mg/L	1		<0.5	<0.5	<0.5
Silver	mg/L	5		<0.1	<0.1	<0.1
General Chemistry						
Corrosivity as pH	su	<2/>12.5		7.75	7.91	8.06
Ignitability	-	--		Not ignitable	Not Ignitable	Not Ignitable
Paint Filter Test	-	--		No Free Liquid	No Free Liquid	No Free Liquid
Reactive cyanide	mg/kg	>250		ND	ND	ND
Reactive sulfide	mg/kg	>500		ND	ND	ND
Total Metals						
Arsenic	mg/kg	-		16	14.1	13
Barium	mg/kg	-		106	87	82.5
Cadmium	mg/kg	-		0.95	0.82	0.94
Chromium	mg/kg	-		39.1	20.2	24.6
Lead	mg/kg	-		1580	947	836
Mercury	mg/kg	-		0.214	0.212	0.174
Selenium	mg/kg	-		ND	ND	ND
Silver	mg/kg	-		ND	ND	ND
Polychlorinated Biphenyls (PCBs)						
Aroclor 1016	µg/kg	-		ND	ND	ND
Aroclor 1221	µg/kg	-		ND	ND	ND
Aroclor 1232	µg/kg	-		ND	ND	ND
Aroclor 1242	µg/kg	-		ND	ND	ND
Aroclor 1248	µg/kg	-		ND	ND	15000
Aroclor 1254	µg/kg	-		ND	49	3500
Aroclor 1260	µg/kg	-		44	46	ND

µg/kg - Micrograms per kilogram

mg/kg - Milligrams per kilogram

su - Standard Units

RCRA - Resource Conservation and Recovery Act

TCLP - Toxicity Characteristic Leaching Procedure

ND - Not Detected

Table 2. Summary of Soil Waste from the Wooded Area, Former Union Fork and Hoe Site, 253 E. Main Street, Frankfort, NY

Material Type	Quantity of Material Excavated (tons)	Waste Transporter	Waste Transporter Permit Number	Disposal Facility
Non-Hazardous Soil	481.11	Leitz Trucking Corporation, 162 McIntyre Road, Frankfort, NY	6A-433	Oneida-Herkimer Solid Waste Authority, Ava Landfill, 7044 State Route 294, Boonville, NY 13309

Table 3. Summary of Imported Material, Former Union Fork and Hoe Site, 253 E. Main Street, Frankfort, NY

Type of Material	Location Used on the Site	Quantities Imported	Facility Name	Facility Location
#4A Stone (Gravel)	Stabilization of Consolidated Area Roadway	41.18 Tons	Barrett Paving Materials, Inc.	Liverpool, NY
NYSDOT Type 2 Crusher Run	Backfill for Excavations	539.6 Tons	Barrett Paving Materials, Inc.	Liverpool, NY
Clean Topsoil	Site Restoration	200 Cubic Yards	Leitz Trucking Corporation	Frankfort, NY

FIGURES

LEGEND

FENCE/APPROXIMATE SITE BOUNDARY

WOODED AREA

N

APPROXIMATE SCALE IN FEET

0 100 200 400

Feet

NOTES:

1. SCREENING AND SAMPLE LOCATIONS RECORDED WITH HANDHELD GPS UNIT WITH SUB-METER ACCURACY ON AUGUST 18-20, 2020 BY TETRA TECH.
2. FENCE LINE, AND TREE LINE SURVEYED ON MARCH 31, 2016 BY THEW ASSOCIATES LAND SURVEYORS.
3. SOIL SCREENING AND SAMPLING CONDUCTED BY TETRA TECH ON AUGUST 18-20, 2020.

SOURCES:

1. AERIAL PHOTO "FRANKFORT, NY." MAP. NEARMAP. 06 APRIL 2020.
2. SERVICE LAYER CREDITS: Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User

FORMER UNION FORK AND HOE FACILITY

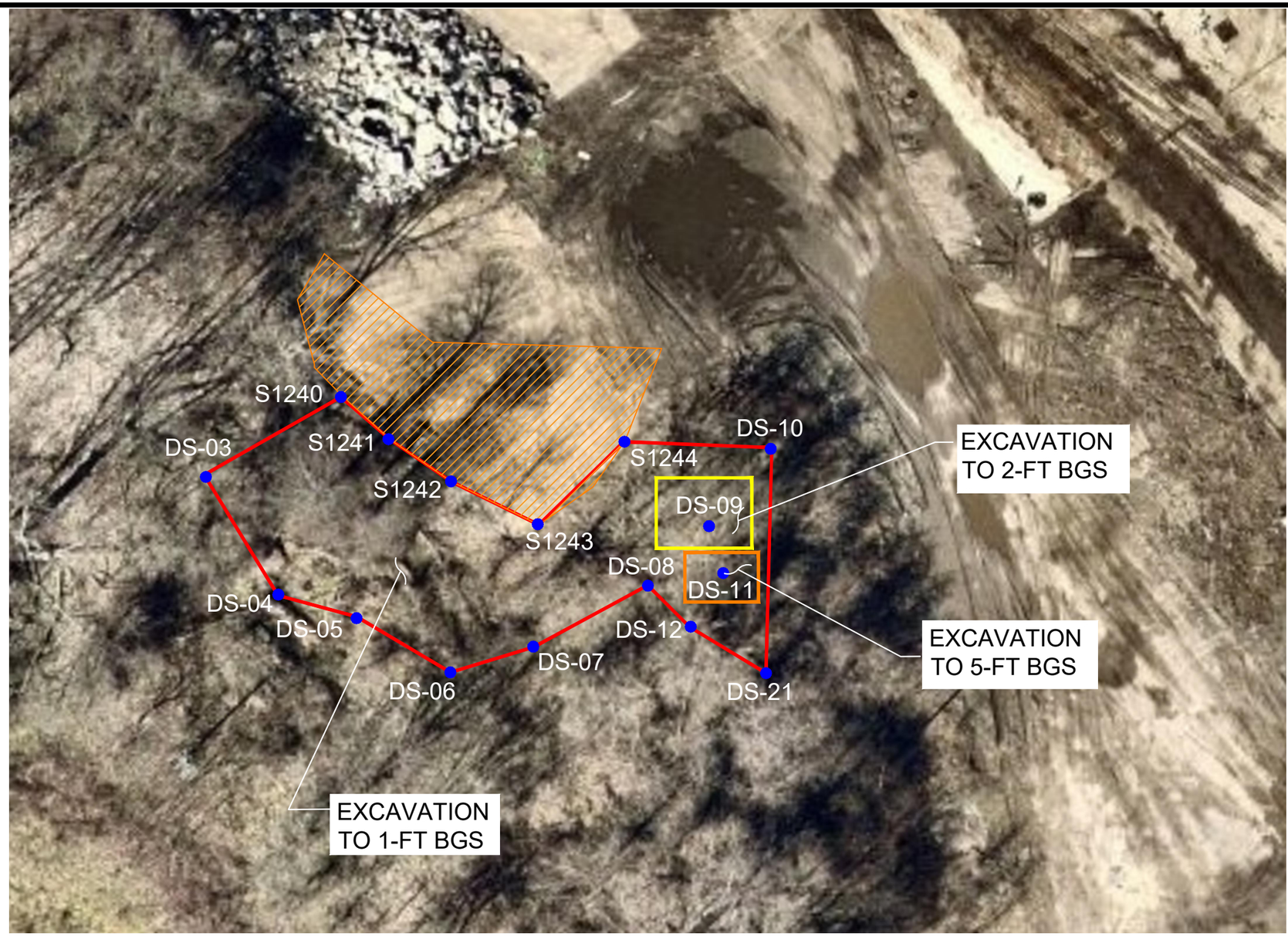
SITE LOCATION

253 EAST MAIN STEET — FRANKFORT, NEW YORK

PREPARED BY:

TETRA TECH

PROJECT NUMBER	APPROVED BY	DRAWN BY	DATE	FIGURE
194-1197		BKW	11/04/20	1



LEGEND

- EXCAVATION TO 1-FT BGS
- EXCAVATION TO 2-FT BGS
- EXCAVATION TO 5-FT BGS
- PREVIOUS SOIL SAMPLE
- PREVIOUSLY EXCAVATED AREA (0-1 FT BGS)

0 40 80 Feet

APPROXIMATE SCALE IN FEET

N

DATE	REVISION	APRD.

LOCATION: **FORMER UNION FORK AND HOE FACILITY FRANKFORT, NEW YORK**

TITLE: **WOODED AREA EXCAVATION AREA**

TETRA TECH

APPROVED		FIGURE
DRAFTED		2
PROJECT#	194-7317	
DATE	1 / 2021	

P:\Griffon - Frankfort NY\CAD - GIS\CAD\On-Site Sampling Wooded Area\dwg\ON-SITE SAMPLING.dwg Oct 07, 2020 - 3:25pm diane.lucas

APPENDIX A - CAMP DATA

Community Air Monitoring Program - DUST (PM-10)

Project: Former Union Fork and Hoe Site, NYSDEC Site No. 6-22-011
Location: 253 E. Main Street, Frankfort, NY
Date: 1/18/2021

Note - Upwind instrument zero calibrated with very small amount of dirt on filter; negative numbers indicate less than zero calibrated value.

Instrument: DustTrak II
Upwind Serial Number: 8530130210
Downwind Serial Number: 8530094504

Upwind Station		**Downwind Station**		**Comments**
Time	Concentration 15-min Avg. (mg/m^3)	Time	Concentration 15-min Avg. (mg/m^3)	
8:49:42 AM	0.007	8:55:22 AM	0.008	
9:04:42 AM	0.006	9:10:22 AM	0.004	
9:19:42 AM	0.006	9:25:22 AM	0.001	
9:34:42 AM	0.006	9:40:22 AM	-0.004	See note above.
9:49:42 AM	0.006	9:55:22 AM	0.003	
10:04:42 AM	0.006	10:10:22 AM	0.003	
10:19:42 AM	0.007	10:25:22 AM	0.003	
10:34:42 AM	0.007	10:40:22 AM	0.004	
10:49:42 AM	0.007	10:55:22 AM	0.004	
11:04:42 AM	0.007	11:10:22 AM	0.006	
11:19:42 AM	0.007	11:25:22 AM	0.006	
11:34:42 AM	0.008	11:40:22 AM	0.006	
11:49:42 AM	0.008	11:55:22 AM	0.006	
12:04:42 PM	0.009	12:10:22 PM	0.006	
12:19:42 PM	0.009	12:25:22 PM	0.002	
12:34:42 PM	0.009	12:40:22 PM	-0.003	See note above.
12:49:42 PM	0.009	12:55:22 PM	-0.007	See note above.
1:04:42 PM	0.009	1:10:22 PM	0.004	
1:19:42 PM	0.009	1:25:22 PM	0.007	
1:34:42 PM	0.009	1:40:22 PM	0.008	
1:49:42 PM	0.008	1:55:22 PM	0.003	
2:04:42 PM	0.003	2:10:22 PM	0.008	
2:19:42 PM	0.003	2:25:22 PM	0.008	
2:34:42 PM	0.002	2:40:22 PM	0.008	
2:49:42 PM	0.007	2:55:22 PM	0.010	
3:04:42 PM	0.007	3:10:22 PM	0.008	
3:19:42 PM	0.007	3:25:22 PM	0.009	
3:34:42 PM	0.007	3:40:22 PM	0.008	
3:49:42 PM	0.007	3:55:22 PM	0.014	
4:04:42 PM	0.007	4:10:22 PM	0.012	
4:19:42 PM	0.007	4:25:22 PM	0.008	
4:34:42 PM	0.007	4:40:22 PM	0.008	
4:49:42 PM	0.007	4:55:22 PM	0.011	

Community Air Monitoring Program - DUST (PM-10)

Project: Former Union Fork and Hoe Site, NYSDEC Site No. 6-22-011
Location: 253 E. Main Street, Frankfort, NY
Date: 1/19/2021

Instrument: DustTrak II
Upwind Serial Number: 8530130210
Downwind Serial Number: 8530094504

Upwind Station		**Downwind Station**		**Comments**
Time	Concentration 15-min Avg. (mg/m^3)	Time	Concentration 15-min Avg. (mg/m^3)	
8:46:03 AM	0.021	8:50:15 AM	0.022	
9:01:03 AM	0.018	9:05:15 AM	0.021	
9:16:03 AM	0.017	9:20:15 AM	0.022	
9:31:03 AM	0.017	9:35:15 AM	0.021	
9:46:03 AM	0.016	9:50:15 AM	0.021	
10:01:03 AM	0.018	10:05:15 AM	0.022	
10:16:03 AM	0.018	10:20:15 AM	0.021	
10:31:03 AM	0.016	10:35:15 AM	0.021	
10:46:03 AM	0.016	10:50:15 AM	0.022	
11:01:03 AM	0.016	11:05:15 AM	0.021	
11:16:03 AM	0.016	11:20:15 AM	0.021	
11:31:03 AM	0.016	11:35:15 AM	0.021	
11:46:03 AM	0.016	11:50:15 AM	0.021	
12:01:03 PM	0.016	12:05:15 PM	0.022	
12:16:03 PM	0.016	12:20:15 PM	0.021	
12:31:03 PM	0.016	12:35:15 PM	0.021	
12:46:03 PM	0.016	12:50:15 PM	0.027	
1:01:03 PM	0.016	1:05:15 PM	0.021	
1:16:03 PM	0.016	1:20:15 PM	0.021	
1:31:03 PM	0.016	1:35:15 PM	0.022	
1:46:03 PM	0.016	1:50:15 PM	0.021	
2:01:03 PM	0.015	2:05:15 PM	0.021	
2:16:03 PM	0.015	2:20:15 PM	0.022	
2:31:03 PM	0.015	2:35:15 PM	0.021	
2:46:03 PM	0.015	2:50:15 PM	0.021	
3:01:03 PM	0.015	3:05:15 PM	0.021	
3:16:03 PM	0.015	3:20:15 PM	0.020	
3:31:03 PM	0.015	3:35:15 PM	0.022	
3:46:03 PM	0.014	3:50:15 PM	0.021	
4:01:03 PM	0.015	4:05:15 PM	0.021	
4:16:03 PM	0.016	4:20:15 PM	0.019	
4:31:03 PM	0.015	4:35:15 PM	0.021	
4:46:03 PM	0.017	4:50:15 PM	0.020	

APPENDIX B - DAILY REPORTING

TETRA TECH, INC.

ON-SITE WOODED AREA EXCAVATION
FORMER UNION FORK AND HOE SITE, FRANKFORT, NEW YORK

DAILY CONSTRUCTION REPORT

DATE: 1/6/21 **ARRIVAL TIME:** 08:45 **DEPARTURE TIME:** 15:55

WEATHER CONDITIONS: 29F, overcast, winds 15-20 mph South

SUMMARY OF WORK / MAJOR ACTIVITIES

EWMI mobilized heavy equipment to the site including an excavator (CAT 316E) and wheel loader (Deere 544K). EWMI also mobilized a woodchipper and equipment trailer. EWMI began clearing of vegetation, working outward from the outer limits of the previous excavation area.

LIST OF PICTURES TAKEN TODAY (take pictures daily of work areas and work completed):

(1) – Clearing of vegetation (facing west)
(2) – Woodchipper (facing north)
(3) – Equipment used: Excavator and woodchipper (facing west)
(4) – End of the day progress of cleared vegetation (facing south)

PERSONNEL ON-SITE:

Name	Company	Name	Company
Greg Wissink	Tetra Tech	Thatcher David	EWMI
Glenn Netuschil	Tetra Tech	Eddie Izykowicz	EWMI
Josh Harner	EWMI	Ryan Bertholf	EWMI
Pete Hissim	EWMI		

HEALTH & SAFETY TOPICS OR ISSUES: Lead contamination, slips/trips/falls due to ice and vegetation, struck-by heavy equipment, COVID-19.

PROBLEMS ENCOUNTERED TODAY: None

QC PROCEDURES/INSPECTIONS/TESTING PERFORMED TODAY: None.

STATUS OUTSTANDING ISSUES AND ACTIONS/DEFICIENCIES CORRECTED TODAY: None.

PLANNED ACTIVITIES FOR NEXT WORKING DAY: Vegetation clearing will continue on 1/7/21.

Photo 1: Clearing of vegetation.

Photo 2: Wood chipper.

Photo 3: Excavator and wood chipper.

Photo 4: Clearing of vegetation.

TETRA TECH, INC.

ON-SITE WOODED AREA EXCAVATION
FORMER UNION FORK AND HOE SITE, FRANKFORT, NEW YORK

DAILY CONSTRUCTION REPORT

DATE: 1/7/21 **ARRIVAL TIME:** 06:55 **DEPARTURE TIME:** 17:00

WEATHER CONDITIONS: 29F, overcast, winds 15-20 mph South

SUMMARY OF WORK / MAJOR ACTIVITIES

EWMI continued the removal of vegetation in the area to be excavated using the excavator (CAT 316E), loader (Deere 544K), woodchipper, and chain saws. EWMI placed gravel on the vegetated path between the work site and gated entrance. The gravel will help stabilize the road surface and remove sediment from the tires of the vehicles used onsite, preventing offsite transportation of soil.

LIST OF PICTURES TAKEN TODAY (take pictures daily of work areas and work completed):

(1) – Clearing of vegetation using excavator (facing south)
(2) – Cleared vegetation of the excavation area (facing northeast)
(3) – Cleared vegetation of the excavation area (facing south)

PERSONNEL ON-SITE:

Name	Company	Name	Company
Greg Wissink	Tetra Tech	Thatcher David	EWMI
David Herman	NYDEC	Eddie Izykowicz	EWMI
Josh Harner	EWMI	Ryan Bertholf	EWMI
Pete Hissim	EWMI		

HEALTH & SAFETY TOPICS OR ISSUES: Continued use of face masks, dirt being tracked off-site, lead contamination, Timber falls.

PROBLEMS ENCOUNTERED TODAY: The woodchipper was not operable for approximately 45 minutes due to tangled vines in the chute. EWMI was able to cut the vines and resume work.

QC PROCEDURES/INSPECTIONS/TESTING PERFORMED TODAY: None.

STATUS OUTSTANDING ISSUES AND ACTIONS/DEFICIENCIES CORRECTED TODAY: The roadway, which had become rutted and muddy was repaired using gravel.

PLANNED ACTIVITIES FOR NEXT WORKING DAY: Vegetation clearing will continue on 1/8/21. Excavations may commence on 1/8/21.

TETRA TECH, INC.

ON-SITE WOODED AREA EXCAVATION
FORMER UNION FORK AND HOE SITE, FRANKFORT, NEW YORK

TETRA TECH, INC.

ON-SITE WOODED AREA EXCAVATION
FORMER UNION FORK AND HOE SITE, FRANKFORT, NEW YORK

TETRA TECH, INC.

ON-SITE WOODED AREA EXCAVATION
FORMER UNION FORK AND HOE SITE, FRANKFORT, NEW YORK

TETRA TECH, INC.

ON-SITE WOODED AREA EXCAVATION
FORMER UNION FORK AND HOE SITE, FRANKFORT, NEW YORK

DAILY CONSTRUCTION REPORT

DATE: 1/8/21 **ARRIVAL TIME:** 06:50 **DEPARTURE TIME:** 15:30

WEATHER CONDITIONS: 19F, overcast, winds 7-10 mph west

SUMMARY OF WORK / MAJOR ACTIVITIES

EWMI continued the removal of vegetation in the area to be excavated using
the excavator (CAT 316E), loader (Deere 544K), woodchipper, and chain saws.
EWMI placed additional gravel on the vegetated path between the work site
and gated entrance. EWMI set out erosion control compost filter socks on the
downgradient slope of the area to be excavated. EWMI required additional
compost filter socks to complete the erosion control of the soil staging area.

LIST OF PICTURES TAKEN TODAY (take pictures daily of work areas and work completed):

(1) – Timber staged on site (facing west)
(2) – Cleared vegetation and erosion control socks (facing south)
(3) – Cleared vegetation and erosion control socks (facing west)
(4) – Cleared vegetation and erosion control socks (facing north)
(5) – Gravel-repaired roadway (facing north)
(6) – Gravel-repaired roadway (facing south)
(7) – Staged woodchips (facing north)

PERSONNEL ON-SITE:

Name	Company	Name	Company
Greg Wissink	Tetra Tech	Thatcher David	EWMI
David Herman	NYDEC	Eddie Izykowicz	EWMI
Josh Harner	EWMI	Ryan Bertholf	EWMI
Pete Hissim	EWMI		

HEALTH & SAFETY TOPICS OR ISSUES: Tracking debris around the site and offsite, contaminated soil on boots and hands, woodchipper use.

PROBLEMS ENCOUNTERED TODAY: None.

QC PROCEDURES/INSPECTIONS/TESTING PERFORMED TODAY: None.

STATUS OUTSTANDING ISSUES AND ACTIONS/DEFICIENCIES CORRECTED TODAY: The roadway, which had become rutted and muddy was repaired using additional gravel.

PLANNED ACTIVITIES FOR NEXT WORKING DAY: Excavations will commence on 1/11/21.

Photo 1

Photo 2

TETRA TECH, INC.

ON-SITE WOODED AREA EXCAVATION
FORMER UNION FORK AND HOE SITE, FRANKFORT, NEW YORK

Photo 3

TETRA TECH, INC.

ON-SITE WOODED AREA EXCAVATION
FORMER UNION FORK AND HOE SITE, FRANKFORT, NEW YORK

DAILY CONSTRUCTION REPORT

DATE: 1/18/21 **ARRIVAL TIME:** 06:50 **DEPARTURE TIME:** 17:00

WEATHER CONDITIONS: 29F, overcast, winds 10-16 mph west

SUMMARY OF WORK / MAJOR ACTIVITIES

EWMI commenced excavation activities, starting at the center of the proposed area near former sample locations DS-07 and S1243 and working east towards former sample locations DS-03 and S1240. This area was excavated to a depth of 1 ft below ground surface. An orange demarcation fabric was place over the the excavated area to be covered with fill at a later date. Removed soil was staged on 6-mil polyurethane located on a concrete pad near the entrance. At the base of the excavation, a concrete surface (possible former roadway) was encountered approximately 1 ft below ground surface. Pieces were removed when necessary but majority was left in place as it did not impact the scope

LIST OF PICTURES TAKEN TODAY (take pictures daily of work areas and work completed):

(1) – Location of downgradient air monitor (facing southeast)
(2) – Location of upgradient air monitor (facing northwest)
(3) – Offloading of excavated material (facing west)
(4) – Uncovered concrete surface approx. 1 ft bgs (facing west)
(5) – Placement of demarcation fabric (facing southwest)

PERSONNEL ON-SITE:

Name	Company	Name	Company
Greg Wissink	Tetra Tech	Thatcher David	EWMI
Mike Eck	EWMI	Eddie Izykowicz	EWMI
Josh Harner	EWMI	Ryan Bertholf	EWMI
Pete Hissim	EWMI		

HEALTH & SAFETY TOPICS OR ISSUES: COVID-19 and steps moving forward; proper PPE when working in and around excavation, slips trips and falls from snow cover.

PROBLEMS ENCOUNTERED TODAY: None.

QC PROCEDURES/INSPECTIONS/TESTING PERFORMED TODAY: Community air monitoring stations were setup upwind and downwind of the excavation.

STATUS OUTSTANDING ISSUES AND ACTIONS/DEFICIENCIES CORRECTED TODAY: None.

PLANNED ACTIVITIES FOR NEXT WORKING DAY: Excavation activities will continue on 1/19/21.

TETRA TECH, INC.

ON-SITE WOODED AREA EXCAVATION
FORMER UNION FORK AND HOE SITE, FRANKFORT, NEW YORK

Photo 1

Photo 2

Photo 3

Photo 4

TETRA TECH, INC.

ON-SITE WOODED AREA EXCAVATION
FORMER UNION FORK AND HOE SITE, FRANKFORT, NEW YORK

Photo 5

TETRA TECH, INC.

ON-SITE WOODED AREA EXCAVATION
FORMER UNION FORK AND HOE SITE, FRANKFORT, NEW YORK

DAILY CONSTRUCTION REPORT

DATE: 1/19/21 **ARRIVAL TIME:** 06:50 **DEPARTURE TIME:** 17:30

WEATHER CONDITIONS: 34F, mostly cloudy with snow, winds 10-20 mph west

SUMMARY OF WORK / MAJOR ACTIVITIES

EWMI completed excavation activities, including the 2-foot and 5-foot depth Excavations. Within the 5-foot excavation, a concrete surface was identified at a depth of 5 feet ± 6 inches below ground surface, likely associated with a prior building. The concrete was not removed. Three waste characterization samples were collected from staged excavated material. Two samples were collected from combined excavated materials from the 1-foot and 5-foot excavation areas (Pile A – main pile) and one sample from combined excavated material from the 2-foot area and material removed around the prior sidewall sample S-1243 (Pile B – smaller pile).

LIST OF PICTURES TAKEN TODAY (take pictures daily of work areas and work completed):

(1) – Concrete structure identified in 5-foot excavation (facing west)
(2) – Excavated area – the raised area is the 2-foot excavation area prior to digging (facing southwest)
(3) – The excavated area including the 5-foot excavation (facing north)
(4) – The staged removed soil – Pile A is on the right; Pile B is on the left; (facing northwest)
(5) – The completed excavation area (facing north).

PERSONNEL ON-SITE:

Name	Company	Name	Company
Greg Wissink	Tetra Tech	Thatcher David	EWMI
Mike Eck	EWMI	Eddie Izykowicz	EWMI
Josh Harner	EWMI	Ryan Bertholf	EWMI
Pete Hissim	EWMI		

HEALTH & SAFETY TOPICS OR ISSUES: Level C PPE when laying fabric and working around staged debris piles, reduced visibility due to falling snow, COVID-19.

PROBLEMS ENCOUNTERED TODAY: None.

QC PROCEDURES/INSPECTIONS/TESTING PERFORMED TODAY: Community air monitoring stations were setup upwind and downwind of the excavation. The data from the air monitoring stations are included with this report. Three waste characterization samples were collected, two from debris Pile A and one

from debris Pile B. Sample WC-A-01-011921 was a composite sample collected from the north and west side walls of Pile A; sample WC-A-02-011921 was a composite sample collected from the south and east sidewalls of Pile A; sample WC-B-01-011921 was a composite sample collected from all side walls of Pile B.

STATUS OUTSTANDING ISSUES AND ACTIONS/DEFICIENCIES CORRECTED TODAY: None.

PLANNED ACTIVITIES FOR NEXT WORKING DAY: Backfilling of the excavated areas will commence on 1/20/21.

Photo 1

Photo 2

Photo 3

Photo 4

TETRA TECH, INC.

ON-SITE WOODED AREA EXCAVATION
FORMER UNION FORK AND HOE SITE, FRANKFORT, NEW YORK

Photo 5

TETRA TECH, INC.

ON-SITE WOODED AREA EXCAVATION
FORMER UNION FORK AND HOE SITE, FRANKFORT, NEW YORK

DAILY CONSTRUCTION REPORT

DATE: 1/20/21 **ARRIVAL TIME:** 06:45 **DEPARTURE TIME:** 16:00

WEATHER CONDITIONS: 28F, mostly cloudy with snow, heavy at times, winds 15-30 mph west

SUMMARY OF WORK / MAJOR ACTIVITIES

EWMI completed the placement of a demarcation fabric layer over the entirety
the excavation. The concrete surface identified approximately 1 foot below
ground surface was swept clean of debris before it was covered by the fabric.
Approximately 400 tons crushed stone was delivered to the Site and placed
over the demarcation fabric. Additional stone will be placed on 1/21/20

LIST OF PICTURES TAKEN TODAY (take pictures daily of work areas and work completed):

(1) – The placement of crushed stone over the demarcation fabric (facing west)
(2) – The concrete surface, swept of debris (facing south)
(3) – The excavated area covered by demarcation fabric (facing southwest)
(4) – The extent of work completed at the end of 1/20/20 (facing southeast)

PERSONNEL ON-SITE:

Name	Company	Name	Company
Greg Wissink	Tetra Tech	Thatcher David	EWMI
Josh Harner	EWMI	Eddie Izykowicz	EWMI
Pete Hissim	EWMI	Ryan Bertholf	EWMI

HEALTH & SAFETY TOPICS OR ISSUES: Vehicle traffic for gravel deliveries. Continued use of masks on site, slipping hazards from icy conditions.

PROBLEMS ENCOUNTERED TODAY: None.

QC PROCEDURES/INSPECTIONS/TESTING PERFORMED TODAY: None.

STATUS OUTSTANDING ISSUES AND ACTIONS/DEFICIENCIES CORRECTED TODAY: None.

PLANNED ACTIVITIES FOR NEXT WORKING DAY: Backfilling of the excavated areas will continue 1/21/21.

TETRA TECH, INC.

ON-SITE WOODED AREA EXCAVATION
FORMER UNION FORK AND HOE SITE, FRANKFORT, NEW YORK

Photo 1

Photo 2

Photo 3

TETRA TECH, INC.

ON-SITE WOODED AREA EXCAVATION
FORMER UNION FORK AND HOE SITE, FRANKFORT, NEW YORK

Photo 4

TETRA TECH, INC.

ON-SITE WOODED AREA EXCAVATION
FORMER UNION FORK AND HOE SITE, FRANKFORT, NEW YORK

DAILY CONSTRUCTION REPORT

DATE: 1/21/21 **ARRIVAL TIME:** 06:45 **DEPARTURE TIME:** 18:00

WEATHER CONDITIONS: 20F, mostly cloudy with snow, winds 5-12 mph southwest

SUMMARY OF WORK / MAJOR ACTIVITIES

EWMI completed the of crushed stone over the entirety of the excavation area.
Crushed stone was compacted by driving heavy equipment over the stone.
After the placement of crushed stone, topsoil, which was delivered to the site
today, was placed over the crushed stone at the excavation and compacted.
Erosion control matting was placed over the entirety of the excavation area
after the area was seeded with grass seed. The chipped wood was covered by a
demarcation fabric and soil which was compacted. Erosion fabric will be placed
over the covered wood chips on 1/22/20

LIST OF PICTURES TAKEN TODAY (take pictures daily of work areas and work completed):

(1) – The placement of crushed stone over the entirety of the excavation area (facing southeast)
(2) – Demarcation fabric and soil placed over the thinly spread wood chips (facing east)
(3) – Topsoil being compacted over excavation area (facing northwest)
(4) – Erosion control matting placed over excavation area (facing southwest)

PERSONNEL ON-SITE:

Name	Company	Name	Company
Greg Wissink	Tetra Tech	Thatcher David	EWMI
Josh Harner	EWMI	Eddie Izykowicz	EWMI
Pete Hissim	EWMI	Ryan Bertholf	EWMI
David Herman	NYDEC		

HEALTH & SAFETY TOPICS OR ISSUES: Cold weather, hypothermia; vehicle traffic for deliveries: using spotters; restricted occupation of trailer; continued use of masks on site, slipping hazards from icy conditions.

PROBLEMS ENCOUNTERED TODAY: None.

QC PROCEDURES/INSPECTIONS/TESTING PERFORMED TODAY: None.

STATUS OUTSTANDING ISSUES AND ACTIONS/DEFICIENCIES CORRECTED TODAY: None.

PLANNED ACTIVITIES FOR NEXT WORKING DAY: Complete seeding and placement of erosion controls and demobilization will continue on 1/22/21.

Photo 1

Photo 2

Photo 3

Photo 4

APPENDIX C - WASTE DISPOSAL DOCUMENTATION

Non Hazardous Manifest/Bill Of Lading

All Correspondence and Invoices to:
Environmental Waste Minimization, Inc.
& Rapid Response, Inc.
14 Brick Kiln Court
Northampton, PA 18067
Phone 484-275-6900
Fax 484-275-6970

Document # 118297

Job/Project # 116375

THIS SECTION TO BE COMPLETED BY GENERATOR:

COMPANY NAME/ADDRESS	IN CASE OF EMERGENCY OR SPILL CONTACT
Former Union Fork & Hoe Facility/The Ames Company Inc. 253 E. Main Street Frankfort, NY 13340	Rapid Response Inc 24 HOUR EMERGENCY PHONE # 877-460-1038

QUANTITY	SIZE/TYPE	DESCRIPTION	APPROVAL CODE	WEIGHT/VOLUME
001	DT	Non Hazardous Contaminated Soil DOT/RCRA Non Regulated	CS0221-03	EST 35 Tons
				35.17

I Hereby certify that the above named waste(s) are properly classified, described, packaged, marked, and labeled and are in proper condition for transportation according to the applicable regulations of the DOT and the EPA.

GENERATOR'S SIGNATURE

PRINT NAME

DATE 3/10/21

THIS SECTION TO BE COMPLETED BY HAULER / TRANSPORTER:

COMPANY NAME	ADDRESS	PHONE NO.
Leitz Trucking Corporation	102 McIntyre Road Suite C Frankfort, NY 13340	(315) 724 5527

VEHICLE I.D. NO.	STATE	BOX NUMBER-IN	BOX NUMBER-OUT	COMMENTS
152-311	NY			

I Hereby certify that the above described waste(s) were accepted for transportation at the producer's site for delivery to the waste facility. Both as listed hereupon.

DRIVER'S SIGNATURE

PRINT DRIVER'S NAME

DATE 3/10/21

THIS SECTION TO BE COMPLETED BY RECEIVER AT DISPOSAL FACILITY: (ONCE SIGNED, A COPY MUST BE FORWARDED TO EWMI AND GENERATOR)

FACILITY NAME	ADDRESS	PHONE NO.
Oneida Herkimer Regional Landfill	7044 State Route 294 Ava, NY 13309	315 733 1224

COMMENTS T# 100,105

I Hereby certify that the above described wastes were delivered to this Facility, that the Facility is authorized and permitted to receive such wastes.

AUTHORIZED SIGNATURE

PRINT NAME

DATE 3/10/21

Ticket # 3029155

Oneida-Herkimer Solid Waste
Management Authority
1600 Genesee Street
Utica New York, 13502

CUSTOMER # 1686
ENVIRONMENTAL WASTE MINIMIZATION INC
...RICK KILN COURT
NORTHAMPTON PA, 18067

TRUCK ID: **168.1**
TRAILER #
ORDER # :
DATE: 3/10/2021
TIME IN: 3:05 PM TIME OUT: 3:19 PM

CSRLF Contaminated Soil to RLF 35.17 tn

Gross: **103,180...** Tare : **32,840 Lbs** Net: **70,340 Lbs**
Scale: 5 Scale: 5 **35.17 tn**

Route: Truck:
Profile Number: **CS022103**
Date: Time
TICKET AMOUNT

CS/0221-03 132

WEIGHTMASTER: PATTY
Thanks

Non Hazardous Manifest/Bill Of Lading

All Correspondence and Invoices to:
Environmental Waste Minimization, Inc.
& Rapid Response, Inc.
14 Brick Kiln Court
Northampton, PA 18067
Phone 484-275-6900
Fax 484-275-6970

Document # 118296

Job/Project # 116375

THIS SECTION TO BE COMPLETED BY GENERATOR:

COMPANY NAME/ADDRESS

Former Union Fork & Hoe Facility/The Ames Company Inc
253 E Main Street
Frankfort, NY 13340

IN CASE OF EMERGENCY OR SPILL CONTACT

Rapid Response Inc

24 HOUR EMERGENCY PHONE #

877-769-1038

QUANTITY	SIZE/TYPE	DESCRIPTION	APPROVAL CODE	WEIGHT/VOLUME
001	DT	Non Hazardous Contaminated Soil DOT/RCRA Non Regulated	CS0221-03	EST 25 Tons
				QUO

I Hereby certify that the above named waste(s) are properly classified, described, packaged, marked, and labeled and are in proper condition for transportation according to the applicable regulations of the DOT and the EPA.

GENERATOR'S SIGNATURE

PRINT NAME

DATE 3/16/21

THIS SECTION TO BE COMPLETED BY HAULER / TRANSPORTER:

COMPANY NAME

Leitz Trucking Corporation

ADDRESS

162 McIntyre Road Suite C
Frankfort, NY 13340

PHONE NO.

(315) 724-5527

VEHICLE I.D. NO.	STATE	BOX NUMBER-IN	BOX NUMBER-OUT	COMMENTS
131	NY			

I Hereby certify that the above described waste(s) were accepted for transportation at the producer's site for delivery to the waste facility. Both as listed hereupon.

DRIVER'S SIGNATURE

PRINT DRIVER'S NAME

DATE 3/16/21

THIS SECTION TO BE COMPLETED BY RECEIVER AT DISPOSAL FACILITY: (ONCE SIGNED, A COPY MUST BE FORWARDED TO EWMI AND GENERATOR)

FACILITY NAME

Oneida Herkimer Regional Landfill

ADDRESS

7044 State Route 294
Ava, NY 13309

PHONE NO.

315 733 1224

COMMENTS

T# 3 29121

I Hereby certify that the above described wastes were delivered to this Facility, that the Facility is authorized and permitted to receive such wastes.

AUTHORIZED SIGNATURE

PRINT NAME

DATE

Ticket # 3029121

Oneida-Herkimer Solid Waste
Management Authority
1600 Genesee Street
Utica New York, 13502

CUSTOMER # 1686
ENVIRONMENTAL WASTE MINIMIZATION INC
14 BRICK KILN COURT
NORTHAMPTON PA, 18067

TRUCK ID: **168.5**
TRAILER #
ORDER # :
DATE: 3/10/2021
TIME IN: 2:30 PM TIME OUT: 2:39 PM
CSRLF Contaminated Soil to RLF 21.78 tn

Gross: **72,740 Lbs** Tare : **29,180 Lbs** Net: **43,560 Lbs**
Scale: 6 Scale: 5 **21.78 tn**

Route: Truck:
Profile Number: **CS022103**
Date: Time:
TICKET AMOUNT

CS/0221-03 131

WEIGHTMASTER: PATTY
Thanks

Non Hazardous Manifest/Bill Of Lading

All Correspondence and Invoices to:
Environmental Waste Minimization, Inc.
& Rapid Response, Inc.
14 Brick Kiln Court
Northampton, PA 18067
Phone 484-275-6900
Fax 484-275-6970

Document # 118295

Job/Project # 116375

THIS SECTION TO BE COMPLETED BY GENERATOR:

COMPANY NAME/ADDRESS

Former Union Fork & Hoe Facility/The Ames Company Inc
253 E. Main Street
Frankfort, NY 13340

IN CASE OF EMERGENCY OR SPILL CONTACT

Rapid Response Inc

24 HOUR EMERGENCY PHONE #

877-460-1038

QUANTITY	SIZE/TYPE	DESCRIPTION	APPROVAL CODE	WEIGHT/VOLUME
001	DT	Non Hazardous Contaminated Soil DOT RCRA Non Regulated	CS0221-03	EST 35 Tons

I Hereby certify that the above named waste(s) are properly classified, described, packaged, marked, and labeled and are in proper condition for transportation according to the applicable regulations of the DOT and the EPA.

GENERATOR'S SIGNATURE

PRINT NAME

DATE 3/10/21

THIS SECTION TO BE COMPLETED BY HAULER / TRANSPORTER:

COMPANY NAME

Letz Trucking Corporation

ADDRESS

162 McIntyre Road Suite C
Frankfort, NY 13340

PHONE NO.

(315) 724-8527

VEHICLE I.D. NO.	STATE	BOX NUMBER-IN	BOX NUMBER-OUT	COMMENTS
137132	NY			

I Hereby certify that the above described waste(s) were accepted for transportation at the producer's site for delivery to the waste facility. Both as listed hereupon.

DRIVER'S SIGNATURE

PRINT DRIVER'S NAME

DATE 3/10/21

THIS SECTION TO BE COMPLETED BY RECEIVER AT DISPOSAL FACILITY: (ONCE SIGNED, A COPY MUST BE FORWARDED TO EWMI AND GENERATOR)

FACILITY NAME

Oneida Herkimer Regional Landfill

ADDRESS

7044 State Route 294
Ava, NY 13309

PHONE NO.

(315) 733-1224

COMMENTS

TA 30 YARDS

I Hereby certify that the above described wastes were delivered to this Facility, that the Facility is authorized and permitted to receive such wastes.

AUTHORIZED SIGNATURE

PRINT NAME

DATE 3/10/21

Ticket # 3029078

Oneida-Herkimer Solid Waste
Management Authority
1600 Genesee Street
Utica New York, 13502

CUSTOMER # 1686
ENVIRONMENTAL WASTE MINIMIZATION INC
14 BRICK KILN COURT
NORTHAMPTON PA, 18067

TRUCK ID: **168.2**
TRAILER #
ORDER # :
DATE: 3/10/2021
TIME IN: 2:02 PM TIME OUT: 2:15 PM
CSRLF Contaminated Soil to RLF 33.09 tn

Gross: **99,520 Lbs** Tare : **33,340 Lbs** Net: **66,180 Lbs**
Scale: 5 Scale: 5 **33.09 tn**

Route: Truck:
Profile Number: **CS022103**
Date: Time:
TICKET AMOUNT

CS/0221-03 137

WEIGHMASTER PATTY

Non Hazardous Manifest/Bill Of Lading

All Correspondence and Invoices to:
Environmental Waste Minimization, Inc.
& Rapid Response, Inc.
14 Brick Kiln Court
Northampton, PA 18067
Phone 484-275-6900
Fax 484-275-6970

Document # 118294

Job/Project # 116375

THIS SECTION TO BE COMPLETED BY GENERATOR:

COMPANY NAME/ADDRESS

Former Union Fork & Hoe Facility/The Artis Company Inc
253 E Main Street
Frankfort, NY 13340

IN CASE OF EMERGENCY OR SPILL CONTACT
Rapid Response Inc

24 HOUR EMERGENCY PHONE #
877-460-1038

QUANTITY	SIZE/TYPE	DESCRIPTION	APPROVAL CODE	WEIGHT/VOLUME
001	DT	Non Hazardous Contaminated Soil DOT RCRA Non Regulated	C80121-03	EST 35 Tons
				23.24

I Hereby certify that the above named waste(s) are properly classified, described, packaged, marked, and labeled and are in proper condition for transportation according to the applicable regulations of the DOT and the EPA.

GENERATOR'S SIGNATURE

PRINT NAME

DATE 3/10/21

THIS SECTION TO BE COMPLETED BY HAULER / TRANSPORTER:

COMPANY NAME
Leitz Trucking Corporation

ADDRESS
162 McIntyre Road Suite C
Frankfort, NY 13340

PHONE NO.
(315) 724-5527

VEHICLE I.D. NO.	STATE	BOX NUMBER-IN	BOX NUMBER-OUT	COMMENTS
121	NY			

I Hereby certify that the above described waste(s) were accepted for transportation at the producer's site for delivery to the waste facility. Both as listed hereupon.

DRIVER'S SIGNATURE

PRINT DRIVER'S NAME

DATE 3 10 2021

THIS SECTION TO BE COMPLETED BY RECEIVER AT DISPOSAL FACILITY: (ONCE SIGNED, A COPY MUST BE FORWARDED TO EWMI AND GENERATOR)

FACILITY NAME
Onondaga Herkimer Regional Landfill

ADDRESS
7044 State Route 294
Ava, NY 13309

PHONE NO.
315 733 1224

COMMENTS
TT 382013

I Hereby certify that the above described wastes were delivered to this Facility, that the Facility is authorized and permitted to receive such wastes.

AUTHORIZED SIGNATURE

PRINT NAME

DATE 3/10/21

Ticket # 3029073

Oneida-Herkimer Solid Waste
Management Authority
1600 Genesee Street
Utica New York, 13502

CUSTOMER # 1886
ENVIRONMENTAL WASTE MINIMIZATION INC
14 BRICK KILN COURT
NORTHAMPTON PA, 18067

TRUCK ID: **168.1**
TRAILER #
ORDER # :
DATE: 3/10/2021
TIME IN: 1:51 PM TIME OUT: 2:10 PM
CSRLF Contaminated Soil to RLF 32.4 tn

Gross: **97,160 Lbs** Tare : **32,360 Lbs** Net: **64,800 Lbs**
Scale: 5 Scale: 5 **32.40 tn**

Route: Truck.
Profile Number: **CS022103**
Date: Time:
TICKET AMOUNT

CS/0221-03 129

WEIGHTMASTER: PATTY
Thanks

Non Hazardous Manifest/Bill Of Lading

All Correspondence and Invoices to:
Environmental Waste Minimization, Inc.
& Rapid Response, Inc.
14 Brick Kiln Court
Northampton, PA 18067
Phone 484-275-6900
Fax 484-275-6970

Document # 118293

Job/Project # 116375

THIS SECTION TO BE COMPLETED BY GENERATOR:

COMPANY NAME/ADDRESS

Former Union Fork & Hoe Facility The Ames Company Inc
253 E Main Street
Frankfort, NY 13340

IN CASE OF EMERGENCY OR SPILL CONTACT

Rapid Response Inc

24 HOUR EMERGENCY PHONE #

877-460-1038

QUANTITY	SIZE/TYPE	DESCRIPTION	APPROVAL CODE	WEIGHT/VOLUME
001	DT	Non Hazardous Contaminated Soil DOT/RCRA Non Regulated	C80231-03	EST 35 Tons

I Hereby certify that the above named waste(s) are properly classified, described, packaged, marked, and labeled and are in proper condition for transportation according to the applicable regulations of the DOT and the EPA.

GENERATOR'S SIGNATURE

PRINT NAME

DATE 3/10/21

THIS SECTION TO BE COMPLETED BY HAULER / TRANSPORTER:

COMPANY NAME: Letz Trucking Corporation

ADDRESS: 162 McIntyre Road Suite C
Frankfort, NY 13340

PHONE NO. (315) 724 5527

VEHICLE I.D. NO.	STATE	BOX NUMBER-IN	BOX NUMBER-OUT	COMMENTS
135314	NY			

I Hereby certify that the above described waste(s) were accepted for transportation at the producer's site for delivery to the waste facility. Both as listed hereupon.

DRIVER'S SIGNATURE

PRINT DRIVER'S NAME ROBERT STELLONE

DATE 3/10/21

THIS SECTION TO BE COMPLETED BY RECEIVER AT DISPOSAL FACILITY: (ONCE SIGNED, A COPY MUST BE FORWARDED TO EWMI AND GENERATOR)

FACILITY NAME: Oneida Herkimer Regional Landfill

ADDRESS: 7044 State Route 294
Ava, NY 13309

PHONE NO. 315 733 1224

COMMENTS TM 30 19.01

I Hereby certify that the above described wastes were delivered to this Facility, that the Facility is authorized and permitted to receive such wastes.

AUTHORIZED SIGNATURE

PRINT NAME

DATE 3-11-21

Ticket # 3029001

Oneida-Herkimer Solid Waste
Management Authority
1600 Genesee Street
Utica New York, 13502

CUSTOMER # 1686
ENVIRONMENTAL WASTE MINIMIZATION INC
14 BRICK KILN COURT
NORTHAMPTON PA, 18067

TRUCK ID: **168.5**

TRAILER #

ORDER # :

DATE: 3/10/2021

TIME IN: 12:53 PM TIME OUT: 1:12 PM

CSRLF Contaminated Soil to RLF 32.57 tn

Gross: **98,500 Lbs** Tare : **33,360 Lbs** Net: **65,140 Lbs**

Scale: 5 Scale: 5 **32.57 tn**

Route: Truck:

Profile Number: **CS022103**

Date: Time:

TICKET AMOUNT

CS/0221-03 135

WEIGHTMASTER: PATTY

Thanks

Non Hazardous Manifest/Bill Of Lading

All Correspondence and Invoices to:
Environmental Waste Minimization, Inc.
& Rapid Response, Inc.
14 Brick Kiln Court
Northampton, PA 18067
Phone 484-275-6900
Fax 484-275-6970

Document # 118292

Job/Project # 116373

THIS SECTION TO BE COMPLETED BY GENERATOR:

COMPANY NAME/ADDRESS

Premier Union Fork & Hoe Facility/The Ames Company Inc
253 E. Main Street
Frankfort, NY 13340

IN CASE OF EMERGENCY OR SPILL CONTACT

Rapid Response Inc

24 HOUR EMERGENCY PHONE #

877-460-1038

QUANTITY	SIZE/TYPE	DESCRIPTION	APPROVAL CODE	WEIGHT/VOLUME
001	DT	Non Hazardous Contaminated Soil DOT RCRA Non Regulated	CS0121-03	EST 35 Tons
				35.10

I Hereby certify that the above named waste(s) are properly classified, described, packaged, marked, and labeled and are in proper condition for transportation according to the applicable regulations of the DOT and the EPA.

GENERATOR'S SIGNATURE

PRINT NAME

DATE 3/10/21

THIS SECTION TO BE COMPLETED BY HAULER / TRANSPORTER:

COMPANY NAME: Latz Trucking Corporation

ADDRESS: 162 McIntyre Road Suite C, Frankfort, NY 13340

PHONE NO. (315) 724 [illegible]

VEHICLE I.D. NO.	STATE	BOX NUMBER-IN	BOX NUMBER-OUT	COMMENTS
132-211	NY			

I Hereby certify that the above described waste(s) were accepted for transportation at the producer's site for delivery to the waste facility. Both as listed hereupon.

DRIVER'S SIGNATURE

PRINT DRIVER'S NAME: NICK CONTI

DATE 3/10/21

THIS SECTION TO BE COMPLETED BY RECEIVER AT DISPOSAL FACILITY: (ONCE SIGNED, A COPY MUST BE FORWARDED TO EWMI AND GENERATOR)

FACILITY NAME: Oneida Herkimer Regional Landfill

ADDRESS: 7044 State Route 294, Ava, NY 13309

PHONE NO. 315 733 1224

COMMENTS: TA 3024 NC

I Hereby certify that the above described wastes were delivered to this Facility, that the Facility is authorized and permitted to receive such wastes.

AUTHORIZED SIGNATURE

PRINT NAME

DATE 3/10/21

Ticket # 3028969

Oneida-Herkimer Solid Waste
Management Authority
1600 Genesee Street
Utica New York, 13502

CUSTOMER # 1686
ENVIRONMENTAL WASTE MINIMIZATION INC
14 BRICK KILN COURT
NORTHAMPTON PA, 18067

TRUCK ID: **168.4**
TRAILER #
ORDER # :
DATE: 3/10/2021
TIME IN: 12:31 PM TIME OUT: 12:44 PM

CSRLF Contaminated Soil to RLF 30.77 tn

Gross: **94,480 Lbs** Tare : **32,940 Lbs** Net: **61,540 Lbs**
Scale: 5 Scale: 5 **30.77 tn**

Route: Truck:
Profile Number: **CS022103**
Date: Time.
TICKET AMOUNT

CS/0221-03 132

WEIGHTMASTER: PATTY
Thanks

Non Hazardous Manifest/Bill Of Lading

All Correspondence and Invoices to:
Environmental Waste Minimization, Inc.
& Rapid Response, Inc.
14 Brick Kiln Court
Northampton, PA 18067
Phone 484-275-6900
Fax 484-275-6970

Document # 118291

Job/Project # 116375

THIS SECTION TO BE COMPLETED BY GENERATOR:

COMPANY NAME/ADDRESS

Former Union Fork & Hoe Facility/The Ames Company Inc.
253 E. Main Street
Frankfort, NY 13340

IN CASE OF EMERGENCY OR SPILL CONTACT

Rapid Response Inc

24 HOUR EMERGENCY PHONE #

877-460-1038

QUANTITY	SIZE/TYPE	DESCRIPTION	APPROVAL CODE	WEIGHT/VOLUME
001	DT	Non Hazardous Contaminated Soil DOT/RCRA Non Regulated	CS0221-03	EST 35 Tons
				34.12

I Hereby certify that the above named waste(s) are properly classified, described, packaged, marked, and labeled and are in proper condition for transportation according to the applicable regulations of the DOT and the EPA.

GENERATOR'S SIGNATURE

PRINT NAME

DATE 3/10/21

THIS SECTION TO BE COMPLETED BY HAULER / TRANSPORTER:

COMPANY NAME

Letz Trucking Corporation

ADDRESS

162 McIntyre Road Suite C
Frankfort, NY 13340

PHONE NO.

(315) 724 5527

VEHICLE I.D. NO.	STATE	BOX NUMBER-IN	BOX NUMBER-OUT	COMMENTS
716	NY			

I Hereby certify that the above described waste(s) were accepted for transportation at the producer's site for delivery to the waste facility. Both as listed hereupon.

DRIVER'S SIGNATURE

PRINT DRIVER'S NAME

DATE

THIS SECTION TO BE COMPLETED BY RECEIVER AT DISPOSAL FACILITY: (ONCE SIGNED, A COPY MUST BE FORWARDED TO EWMI AND GENERATOR)

FACILITY NAME

Onoida Herkimer Regional Landfill

ADDRESS

7044 State Route 294
Ava, NY 13309

PHONE NO.

315 733 1224

COMMENTS

T# 3128408

I Hereby certify that the above described wastes were delivered to this Facility, that the Facility is authorized and permitted to receive such wastes.

AUTHORIZED SIGNATURE

PRINT NAME

DATE

Ticket # 3028958

Oneida-Herkimer Solid Waste
Management Authority
1600 Genesee Street
Utica New York, 13502

CUSTOMER # 1686
ENVIRONMENTAL WASTE MINIMIZATION INC
14 BRICK KILN COURT
NORTHAMPTON PA, 18067

TRUCK ID: **168.3**
TRAILER #
ORDER # :
DATE: 3/10/2021
TIME IN: 12:23 PM TIME OUT: 12:35 PM
CSRLF Contaminated Soil to RLF 34.92 tn

Gross: **104,940...** Tare : **35,100 Lbs** Net: **69,840 Lbs**
Scale: 5 Scale: 5 **34.92 tn**

Route: Truck:
Profile Number: **CS022103**
Date: Time:
TICKET AMOUNT

CS/0221-03 138

WEIGHTMASTER PATTY
Thanks

Non Hazardous Manifest/Bill Of Lading

All Correspondence and Invoices to:
Environmental Waste Minimization, Inc.
& Rapid Response, Inc.
14 Brick Kiln Court
Northampton, PA 18067
Phone 484-275-6900
Fax 484-275-6970

Document # 118290

Job/Project # 116375

THIS SECTION TO BE COMPLETED BY GENERATOR:

COMPANY NAME/ADDRESS

Former Unicat Fork & Hoe Facility/The Ames Company Inc
253 E. Main Street
Frankfort, NY 13340

IN CASE OF EMERGENCY OR SPILL CONTACT

Rapid Response Inc

24 HOUR EMERGENCY PHONE #

877-460-1038

QUANTITY	SIZE/TYPE	DESCRIPTION	APPROVAL CODE	WEIGHT/VOLUME
001	DT	Non Hazardous Contaminated Soil DOT/RCRA Non Regulated	CS0221-03	EST 25 Tons
				28.18

I Hereby certify that the above named waste(s) are properly classified, described, packaged, marked, and labeled and are in proper condition for transportation according to the applicable regulations of the DOT and the EPA.

GENERATOR'S SIGNATURE

PRINT NAME

DATE 3/10/21

THIS SECTION TO BE COMPLETED BY HAULER / TRANSPORTER:

COMPANY NAME

Letz Trucking Corporation

ADDRESS

162 McIntyre Road Suite C
Frankfort, NY 13340

PHONE NO.

(315) 724-8527

VEHICLE I.D. NO.	STATE	BOX NUMBER-IN	BOX NUMBER-OUT
131	NY		

COMMENTS

I Hereby certify that the above described waste(s) were accepted for transportation at the producer's site for delivery to the waste facility. Both as listed hereupon.

DRIVER'S SIGNATURE

PRINT DRIVER'S NAME

DATE 3/10/21

THIS SECTION TO BE COMPLETED BY RECEIVER AT DISPOSAL FACILITY: (ONCE SIGNED, A COPY MUST BE FORWARDED TO EWMI AND GENERATOR)

FACILITY NAME

Oneida Herkimer Regional Landfill

ADDRESS

7044 State Route 294
Ava, NY 13309

PHONE NO.

315 733 1224

COMMENTS

T# 30-28138

I Hereby certify that the above described wastes were delivered to this Facility, that the Facility is authorized and permitted to receive such wastes.

AUTHORIZED SIGNATURE

PRINT NAME

DATE 3/10/21

Ticket # 3028938

Oneida-Herkimer Solid Waste
Management Authority
1600 Genesee Street
Utica New York, 13502

CUSTOMER # 1686
ENVIRONMENTAL WASTE MINIMIZATION INC
14 BRICK KILN COURT
NORTHAMPTON PA, 18067

TRUCK ID: **168.1**
TRAILER #
ORDER # :
DATE: 3/10/2021
TIME IN: 12:05 PM TIME OUT: 12:14 PM
CSRLF Contaminated Soil to RLF 23.13 tn

Gross: **75,720 Lbs** Tare : **29,460 Lbs** Net: **46,260 Lbs**
Scale: 5 Scale: 5 **23.13 tn**

Route: Truck:
Profile Number: **CS022103**
Date: Time:
TICKET AMOUNT

CS/0221-03 131

WEIGHTMASTER: PATTY
Thanks

Non Hazardous Manifest/Bill Of Lading

All Correspondence and Invoices to:
Environmental Waste Minimization, Inc.
& Rapid Response, Inc.
14 Brick Kiln Court
Northampton, PA 18067
Phone 484-275-6900
Fax 484-275-6970

Document # 118289

Job/Project # 116375

THIS SECTION TO BE COMPLETED BY GENERATOR:

COMPANY NAME/ADDRESS

Fenner Union Fork & Hog Facility/The Agway Company Inc.
253 E Main Street
Frankfort, NY 13340

IN CASE OF EMERGENCY OR SPILL CONTACT

Rapid Response Inc

24 HOUR EMERGENCY PHONE #

877-460-1038

QUANTITY	SIZE/TYPE	DESCRIPTION	APPROVAL CODE	WEIGHT/VOLUME
001	DT	Non Hazardous Contaminated Soil DOT/RCRA Non Regulated	CS0221-03	EST 35 Tons
			3	34.11

I Hereby certify that the above named waste(s) are properly classified, described, packaged, marked, and labeled and are in proper condition for transportation according to the applicable regulations of the DOT and the EPA.

GENERATOR'S SIGNATURE

PRINT NAME

DATE 3/10/21

THIS SECTION TO BE COMPLETED BY HAULER / TRANSPORTER:

COMPANY NAME	ADDRESS	PHONE NO.
Leitz Trucking Corporation	162 McIntyre Road Suite C Frankfort, NY 13340	(315) 724-5527

VEHICLE I.D. NO.	STATE	BOX NUMBER-IN	BOX NUMBER-OUT	COMMENTS
137/312	NY			

I Hereby certify that the above described waste(s) were accepted for transportation at the producer's site for delivery to the waste facility. Both as listed hereupon.

DRIVER'S SIGNATURE

PRINT DRIVER'S NAME

DATE 3/11/21

THIS SECTION TO BE COMPLETED BY RECEIVER AT DISPOSAL FACILITY: (ONCE SIGNED, A COPY MUST BE FORWARDED TO EWMI AND GENERATOR)

FACILITY NAME	ADDRESS	PHONE NO.
Oneida Herkimer Regional Landfill	7044 State Route 28 Ava, NY 13309	315 733 1234

COMMENTS T# B028-101

I Hereby certify that the above described wastes were delivered to this Facility, that the Facility is authorized and permitted to receive such wastes.

AUTHORIZED SIGNATURE

PRINT NAME

DATE 3/11/21

Ticket # 3028901

Oneida-Herkimer Solid Waste
Management Authority
1600 Genesee Street
Utica New York, 13502

CUSTOMER # 1886
ENVIRONMENTAL WASTE MINIMIZATION INC
14 BRICK KILN COURT
NORTHAMPTON PA, 18067

TRUCK ID: **168.1**
TRAILER #
ORDER # :
DATE: 3/10/2021
TIME IN: 11:28 AM TIME OUT: 11:38 AM
CSRLF Contaminated Soil to RLF 34.11 tn

Gross: **101,780...** Tare : **33,560 Lbs** Net: **68,220 Lbs**
Scale: 5 Scale: 5 **34.11 tn**

Route: Truck:
Profile Number: **CS022103**
Date: Time:
TICKET AMOUNT

CS/0221-03 137

WEIGHTMASTER: PATTY
Thanks

Non Hazardous Manifest/Bill Of Lading

All Correspondence and Invoices to:
Environmental Waste Minimization, Inc.
& Rapid Response, Inc.
14 Brick Kiln Court
Northampton, PA 18067
Phone 484-275-6900
Fax 484-275-6970

Document # 118288

Job/Project # 116375

THIS SECTION TO BE COMPLETED BY GENERATOR:

COMPANY NAME/ADDRESS

Former Union Fork & Hoe Facility/The Ames Company Inc
253 E Main Street
Frankfort, NY 13340

IN CASE OF EMERGENCY OR SPILL CONTACT

Rapid Response Inc

24 HOUR EMERGENCY PHONE #

877-460-1038

QUANTITY	SIZE/TYPE	DESCRIPTION	APPROVAL CODE	WEIGHT/VOLUME
001	DT	Non Hazardous Contaminated Soil DOT RCRA Non Regulated	CS4221-03	EST 35 Tons
				30.3

I Hereby certify that the above named waste(s) are properly classified, described, packaged, marked, and labeled and are in proper condition for transportation according to the applicable regulations of the DOT and the EPA.

GENERATOR'S SIGNATURE

PRINT NAME

DATE 3/10/21

THIS SECTION TO BE COMPLETED BY HAULER / TRANSPORTER:

COMPANY NAME

Leatz Trucking Corporation

ADDRESS

162 McIntyre Road Suite C
Frankfort, NY 13340

PHONE NO.

(315) 724 5527

VEHICLE I.D. NO.	STATE	BOX NUMBER-IN	BOX NUMBER-OUT	COMMENTS
134	NY			

I Hereby certify that the above described waste(s) were accepted for transportation at the producer's site for delivery to the waste facility. Both as listed hereupon.

DRIVER'S SIGNATURE

PRINT DRIVER'S NAME

DATE 3-10-21

THIS SECTION TO BE COMPLETED BY RECEIVER AT DISPOSAL FACILITY: (ONCE SIGNED, A COPY MUST BE FORWARDED TO EWMI AND GENERATOR)

FACILITY NAME

Oneida Herkimer Regional Landfill

ADDRESS

7044 State Route 294
Ava, NY 13309

PHONE NO.

315 733 1224

COMMENTS

TH 30.4 TONS

I Hereby certify that the above described wastes were delivered to this Facility, that the Facility is authorized and permitted to receive such wastes.

AUTHORIZED SIGNATURE

PRINT NAME

DATE

Ticket # 3028818

Oneida-Herkimer Solid Waste
Management Authority
1600 Genesee Street
Utica New York, 13502

CUSTOMER # 1688
ENVIRONMENTAL WASTE MINIMIZATION INC
14 BRICK KILN COURT
NORTHAMPTON PA, 18067

TRUCK ID: **168.5**
TRAILER #
ORDER # :
DATE: 3/10/2021
TIME IN: 10:20 AM TIME OUT: 10:41 AM
CSRLF Contaminated Soil to RLF 32.35 tn

Gross: **98,100 Lbs** Tare : **33,400 Lbs** Net: **64,700 Lbs**
Scale: 5 Scale: 5 **32.35 tn**

Route: Truck:
Profile Number: **C$022103**
Date: Time:
TICKET AMOUNT

CS/0221-03 134

WEIGHTMASTER: PATTY
Thanks

Non Hazardous Manifest/Bill Of Lading

All Correspondence and Invoices to:
Environmental Waste Minimization, Inc.
& Rapid Response, Inc.
14 Brick Kiln Court
Northampton, PA 18067
Phone 484-275-6900
Fax 484-275-6970

Document # 118287

Job/Project # 116373

THIS SECTION TO BE COMPLETED BY GENERATOR:

COMPANY NAME/ADDRESS

Former Union Fork & Hoe Facility/The Ames Company Inc.
243 E. Main Street
Frankfort, NY 13340

IN CASE OF EMERGENCY OR SPILL CONTACT

Rapid Response Inc

24 HOUR EMERGENCY PHONE #

877-460-1038

QUANTITY	SIZE/TYPE	DESCRIPTION	APPROVAL CODE	WEIGHT/VOLUME
001	DT	Non Hazardous Contaminated Soil DOT RCRA Non Regulated	CP8221-03	EST 35 Tons
				34.50

I Hereby certify that the above named waste(s) are properly classified, described, packaged, marked, and labeled and are in proper condition for transportation according to the applicable regulations of the DOT and the EPA.

GENERATOR'S SIGNATURE

PRINT NAME

Greg Wood on behalf of The Ames Company Inc

DATE 3/10/21

THIS SECTION TO BE COMPLETED BY HAULER / TRANSPORTER:

COMPANY NAME

Leitz Trucking Corporation

ADDRESS

162 McIntyre Road Suite C
Frankfort, NY 13340

PHONE NO.

(315) 724-5927

VEHICLE I.D. NO.	STATE	BOX NUMBER-IN	BOX NUMBER-OUT	COMMENTS
132-311	NY			

I Hereby certify that the above described waste(s) were accepted for transportation at the producer's site for delivery to the waste facility. Both as listed hereupon.

DRIVER'S SIGNATURE

PRINT DRIVER'S NAME

Nick Conti

DATE 3/10/21

THIS SECTION TO BE COMPLETED BY RECEIVER AT DISPOSAL FACILITY: (ONCE SIGNED, A COPY MUST BE FORWARDED TO EWMI AND GENERATOR)

FACILITY NAME

Oneida Herkimer Regional Landfill

ADDRESS

7044 State Route 294
Ava, NY 13309

PHONE NO.

315 733 1224

COMMENTS

TP 3028097

I Hereby certify that the above described wastes were delivered to this Facility, that the Facility is authorized and permitted to receive such wastes.

AUTHORIZED SIGNATURE

PRINT NAME

DATE 3/11/21

Ticket # 3028797

Oneida-Herkimer Solid Waste
Management Authority
1600 Genesee Street
Utica New York, 13502

CUSTOMER # 1686
ENVIRONMENTAL WASTE MINIMIZATION INC
14 BRICK KILN COURT
NORTHAMPTON PA, 18067

TRUCK ID: **168.4**
TRAILER #
ORDER # .
DATE: 3/10/2021
TIME IN: 9:52 AM TIME OUT: 10:10 AM
CSRLF Contaminated Soil to RLF 34.87 tn

Gross: **103,160...** Tare : **33,420 Lbs** Net. **69,740 Lbs**
Scale: 5 Scale: 5 **34.87 tn**

Route: Truck:
Profile Number: **CS022103**
Date: Time
TICKET AMOUNT

CS/0221-03 132

WEIGHTMASTER: PATTY
Thanks

Non Hazardous Manifest/Bill Of Lading

All Correspondence and Invoices to:
Environmental Waste Minimization, Inc.
& Rapid Response, Inc.
14 Brick Kiln Court
Northampton, PA 18067
Phone 484-275-6900
Fax 484-275-6970

Document # 118286

Job/Project # 116375

THIS SECTION TO BE COMPLETED BY GENERATOR:

COMPANY NAME/ADDRESS

Former Union Fork & Hoe Facility/The Argus Company Inc.
253 E. Main Street
Frankfort, NY 13340

IN CASE OF EMERGENCY OR SPILL CONTACT

Rapid Response Inc

24 HOUR EMERGENCY PHONE #

877-460-1038

QUANTITY	SIZE/TYPE	DESCRIPTION	APPROVAL CODE	WEIGHT/VOLUME
001	DT	Non Hazardous Contaminated Soil DOT/RCRA Non Regulated	CSI221-03	EST 35 Tons
				34.90

I Hereby certify that the above named waste(s) are properly classified, described, packaged, marked, and labeled and are in proper condition for transportation according to the applicable regulations of the DOT and the EPA.

GENERATOR'S SIGNATURE

PRINT NAME

DATE 3/10/21

THIS SECTION TO BE COMPLETED BY HAULER / TRANSPORTER:

COMPANY NAME

Lutz Trucking Corporation 133

ADDRESS

162 McIntyre Road Suite C
Frankfort, NY 13340

PHONE NO.

(315) 724-5927

VEHICLE I.D. NO.	STATE	BOX NUMBER-IN	BOX NUMBER-OUT	COMMENTS
133/314	NY			

I Hereby certify that the above described waste(s) were accepted for transportation at the producer's site for delivery to the waste facility. Both as listed hereupon.

DRIVER'S SIGNATURE

PRINT DRIVER'S NAME ROBERT TERNOE

DATE 3/10/21

THIS SECTION TO BE COMPLETED BY RECEIVER AT DISPOSAL FACILITY: (ONCE SIGNED, A COPY MUST BE FORWARDED TO EWMI AND GENERATOR)

FACILITY NAME

Oneida Herkimer Regional Landfill

ADDRESS

7044 State Route 294
Ava, NY 13309

PHONE NO.

315 733-1224

COMMENTS

I Hereby certify that the above described wastes were delivered to this Facility, that the Facility is authorized and permitted to receive such wastes.

AUTHORIZED SIGNATURE

PRINT NAME

DATE 3/10/21

Ticket # 3028783

Oneida-Herkimer Solid Waste
Management Authority
1600 Genesee Street
Utica New York, 13502

CUSTOMER # 1886
ENVIRONMENTAL WASTE MINIMIZATION INC
14 BRICK KILN COURT
NORTHAMPTON PA, 18067

TRUCK ID: **168.3**
TRAILER #
ORDER #
DATE: 3/10/2021
TIME IN: 9:39 AM TIME OUT: 10:07 AM

CSRLF Contaminated Soil to RLF 34.86 tn

Gross: **102,700...** Tare : **33,000 Lbs** Net: **69,700 Lbs**
Scale: 5 Scale: 5 **34.85 tn**

Route: Truck:
Profile Number: **CS022103**
Date: Time:
TICKET AMOUNT

CS/0221-03 133

WEIGHTMASTER: PATTY
Thanks

Non Hazardous Manifest/Bill Of Lading

All Correspondence and Invoices to:
Environmental Waste Minimization, Inc.
& Rapid Response, Inc.
14 Brick Kiln Court
Northampton, PA 18067
Phone 484-275-6900
Fax 484-275-6970

Document # 118285

Job/Project # 116375

THIS SECTION TO BE COMPLETED BY GENERATOR:

COMPANY NAME/ADDRESS

Former Union Fork & Hoe Facility/The Atlas Company Inc
253 E. Main Street
Frankfort, NY 13340

IN CASE OF EMERGENCY OR SPILL CONTACT
Rapid Response Inc

24 HOUR EMERGENCY PHONE #
877-469-1038

QUANTITY	SIZE/TYPE	DESCRIPTION	APPROVAL CODE	WEIGHT/VOLUME
001	DT	Non Hazardous Contaminated Soil DOT/RCRA Non Regulated	CS0221-03	EST 35 Tons
				36.99

I Hereby certify that the above named waste(s) are properly classified, described, packaged, marked, and labeled and are in proper condition for transportation according to the applicable regulations of the DOT and the EPA.

GENERATOR'S SIGNATURE

PRINT NAME

DATE 3/10/21

THIS SECTION TO BE COMPLETED BY HAULER / TRANSPORTER:

COMPANY NAME
Leitz Trucking Corporation

ADDRESS
162 McIntyre Road Suite C
Frankfort, NY 13340

PHONE NO.
(315) 738 5527

VEHICLE I.D. NO.	STATE	BOX NUMBER-IN	BOX NUMBER-OUT	COMMENTS
138	NY			

I Hereby certify that the above described waste(s) were accepted for transportation at the producer's site for delivery to the waste facility. Both as listed hereupon.

DRIVER'S SIGNATURE

PRINT DRIVER'S NAME Gene Stocking

DATE 3-10-2021

THIS SECTION TO BE COMPLETED BY RECEIVER AT DISPOSAL FACILITY: (ONCE SIGNED, A COPY MUST BE FORWARDED TO EWMI AND GENERATOR)

FACILITY NAME
Oneida Herkimer Regional Landfill

ADDRESS
7044 State Route 294
Ava, NY 13309

PHONE NO.
315 733 1224

COMMENTS
T-13028 WC4

I Hereby certify that the above described wastes were delivered to this Facility, that the Facility is authorized and permitted to receive such wastes.

AUTHORIZED SIGNATURE

PRINT NAME

DATE 3-10-21

Ticket # 3028764

Oneida-Herkimer Solid Waste
Management Authority
1600 Genesee Street
Utica New York, 13502

CUSTOMER # 1686
ENVIRONMENTAL WASTE MINIMIZATION INC
14 BRICK KILN COURT
NORTHAMPTON PA, 18067

TRUCK ID: **168.2**
TRAILER #
ORDER # :
DATE: 3/10/2021
TIME IN: 9:21 AM TIME OUT: 9:42 AM
CSRLF Contaminated Soil to RLF 30.99 tn

Gross: **97,380 Lbs** Tare : **35,400 Lbs** Net: **61,980 Lbs**
Scale: 5 Scale. 6 **30.99 tn**

Route: Truck:
Profile Number: **CS022103**
Date: Time
TICKET AMOUNT

CS/0221-03 138

WEIGHTMASTER: PATTY
Thanks

Non Hazardous Manifest/Bill Of Lading

All Correspondence and Invoices to:
Environmental Waste Minimization, Inc.
& Rapid Response, Inc.
14 Brick Kiln Court
Northampton, PA 18067
Phone 484-275-6900
Fax 484-275-6970

Document # 118284

Job/Project # 116375

THIS SECTION TO BE COMPLETED BY GENERATOR:

COMPANY NAME/ADDRESS

Former Union Fork & Hoe Facility/The Ames Company Inc
253 E. Main Street
Frankfort, NY 13340

IN CASE OF EMERGENCY OR SPILL CONTACT

Rapid Response Inc

24 HOUR EMERGENCY PHONE #

877-460-1038

QUANTITY	SIZE/TYPE	DESCRIPTION	APPROVAL CODE	WEIGHT/VOLUME
001	DT	Non Hazardous Contaminated Soil DOT/RCRA Non Regulated	CS023J-03	EST 35 Tons 32.15

I Hereby certify that the above named waste(s) are properly classified, described, packaged, marked, and labeled and are in proper condition for transportation according to the applicable regulations of the DOT and the EPA.

GENERATOR'S SIGNATURE

PRINT NAME

DATE 3/10/21

THIS SECTION TO BE COMPLETED BY HAULER / TRANSPORTER:

COMPANY NAME

Leitz Trucking Corporation 145

ADDRESS

162 McIntyre Road Suite C
Frankfort, NY 13340

PHONE NO.

(315) 724 5527

VEHICLE I.D. NO.	STATE	BOX NUMBER-IN	BOX NUMBER-OUT	COMMENTS
	NY			

I Hereby certify that the above described waste(s) were accepted for transportation at the producer's site for delivery to the waste facility. Both as listed hereupon.

DRIVER'S SIGNATURE

PRINT DRIVER'S NAME

DATE 3/10/21

THIS SECTION TO BE COMPLETED BY RECEIVER AT DISPOSAL FACILITY: (ONCE SIGNED, A COPY MUST BE FORWARDED TO EWMI AND GENERATOR)

FACILITY NAME

Oneida Herkimer Regional Landfill

ADDRESS

7044 State Route 294
Ava, NY 13309

PHONE NO.

315 [illegible] 1224

COMMENTS

T# 3028145

I Hereby certify that the above described wastes were delivered to this Facility, that the Facility is authorized and permitted to receive such wastes.

AUTHORIZED SIGNATURE

PRINT NAME

DATE 3/10/21

Ticket # 3028745

Oneida-Herkimer Solid Waste
Management Authority
1600 Genesee Street
Utica New York, 13502

CUSTOMER # 1686
ENVIRONMENTAL WASTE MINIMIZATION INC
14 BRICK KILN COURT
NORTHAMPTON PA, 18067

TRUCK ID: **168.1**
TRAILER #
ORDER # :
DATE: 3/10/2021
TIME IN: 9:01 AM TIME OUT. 9:18 AM
CSRLF Contaminated Soil to RLF 26.15 tn

Gross: **85,600** Lbs Tare : **33,300** Lbs Net: **52,300** Lbs
Scale: 5 Scale: 5 **26.15 tn**

Route: Truck.
Profile Number. **CS022103**
Date: Time:
TICKET AMOUNT

CS/0221-03 . 145

WEIGHTMASTER: PATTY
Thanks

Non Hazardous Manifest/Bill Of Lading

All Correspondence and Invoices to:
Environmental Waste Minimization, Inc.
& Rapid Response, Inc.
14 Brick Kiln Court
Northampton, PA 18067
Phone 484-275-6900
Fax 484-275-6970

Document # 110276

Job/Project # 116375

THIS SECTION TO BE COMPLETED BY GENERATOR:

COMPANY NAME/ADDRESS

Former Union Fork & Hoe Facility/The Ames Company Inc.
253 E. Main Street
Frankfort, NY 13340

IN CASE OF EMERGENCY OR SPILL CONTACT

Rapid Response Inc

24 HOUR EMERGENCY PHONE #

877-360-1038

QUANTITY	SIZE/TYPE	DESCRIPTION	APPROVAL CODE	WEIGHT/VOLUME
001	DT	Non Hazardous Contaminated Soil DOT/RCRA Non Regulated	CS0221-03	EST 35 Tons

I Hereby certify that the above named waste(s) are properly classified, described, packaged, marked, and labeled and are in proper condition for transportation according to the applicable regulations of the DOT and the EPA.

GENERATOR'S SIGNATURE

PRINT NAME

DATE 3/10/21

THIS SECTION TO BE COMPLETED BY HAULER / TRANSPORTER:

COMPANY NAME

Leitz Trucking Corporation

ADDRESS

162 McIntyre Road Suite C
Frankfort, NY 13340

PHONE NO.

(315) 724 5527

VEHICLE I.D. NO.	STATE	BOX NUMBER-IN	BOX NUMBER-OUT
116	NY		

COMMENTS

I Hereby certify that the above described waste(s) were accepted for transportation at the producer's site for delivery to the waste facility. Both as listed hereupon.

DRIVER'S SIGNATURE

PRINT DRIVER'S NAME

DATE 3-10-21

THIS SECTION TO BE COMPLETED BY RECEIVER AT DISPOSAL FACILITY: (ONCE SIGNED, A COPY MUST BE FORWARDED TO EWMI AND GENERATOR)

FACILITY NAME

Oneida Herkimer Regional Landfill

ADDRESS

7044 State Route 294
Ava, NY 13303

PHONE NO.

315 733 1224

COMMENTS

TF 32-1630

I Hereby certify that the above described wastes were delivered to this Facility, that the Facility is authorized and permitted to receive such wastes.

AUTHORIZED SIGNATURE

PRINT NAME

DATE 3-10-21

Ticket # 3029630

Oneida-Herkimer Solid Waste
Management Authority
1600 Genesee Street
Utica New York, 13502

CUSTOMER # 1686
ENVIRONMENTAL WASTE MINIMIZATION INC
14 BRICK KILN COURT
NORTHAMPTON PA, 18067

TRUCK ID: **168.1**
TRAILER #
ORDER # :
DATE: 3/11/2021
TIME IN: 1:40 PM TIME OUT: 2:05 PM
CSRLF Contaminated Soil to RLF 43.96 tn

Gross: **123,520...** Tare : **35,600 Lbs** Net: **87,920 Lbs**
Scale: 5 Scale: 5 **43.96 tn**

Route: Truck:
Profile Number: **C8022103**
Date: Time:
TICKET AMOUNT

CS/0221-03 138

WEIGHTMASTER: PATTY
Thanks

Date	Load #	Manifest	Tonnage
3/10/2021	1	118297	35.17
3/10/2021	2	118296	21.78
3/10/2021	3	118295	33.09
3/10/2021	4	118294	32.4
3/10/2021	5	118293	32.57
3/10/2021	6	118292	30.77
3/10/2021	7	118291	34.92
3/10/2021	8	118290	23.13
3/10/2021	9	118289	34.11
3/10/2021	10	118288	32.35
3/10/2021	11	118287	34.87
3/10/2021	12	118286	34.85
3/10/2021	13	118285	30.99
3/10/2021	14	118284	26.15
3/10/2021	15	118276	43.96
			481.11

APPENDIX D - IMPORTED FILL DOCUMENTATION

TOPSOIL

RE: Former Union Fork and Hoe Site - Imported Topsoil Documentation

Bennett, William B (DEC) <william.bennett@dec.ny.gov>

Wed 1/20/2021 2:39 PM

To: Netuschil, Glenn <Glenn.Netuschil@tetratech.com>
Cc: dsweet <dsweet@ehs-strategy.com>; Ayyaswami, Arul <Arul.Ayyaswami@tetratech.com>; Carpenter, Kevin J (DEC) <kevin.carpenter@dec.ny.gov>

1 attachments (1 MB)

DER-10 Imported Fill Form - UFH Topsoil_1-20-2021 Re-Submit.pdf;

Dear Glenn,

The attached backfill documentation is acceptable to the Department:

Please note for PFAS, in addition to commercial guidance values the protection of groundwater guidance values apply in the evaluation of backfill. The analytical data provided meets both commercial and protection of groundwater guidance values.

A copy of this e-mail will be placed in the Department's site file.

William Bennett
Professional Engineer 1

New York State Department of Environmental Conservation
625 Broadway, Albany, NY 12233-7014
P: 518-402-9659 | F: 518-402-9679| william.bennett@dec.ny.gov

www.dec.ny.gov | |

From: Netuschil, Glenn <Glenn.Netuschil@tetratech.com>
Sent: Wednesday, January 20, 2021 11:59 AM
To: Bennett, William B (DEC) <william.bennett@dec.ny.gov>
Cc: dsweet <dsweet@ehs-strategy.com>; Ayyaswami, Arul <Arul.Ayyaswami@tetratech.com>
Subject: Former Union Fork and Hoe Site - Imported Topsoil Documentation

Hi Bill,

We received the laboratory results for PFAS and 1,4-dioxane for the topsoil. I have attached the topsoil backfill documentation that includes the PFAS and 1,4-dioxane results and it has been secured to prevent editing. We would like to place the topsoil by the end of this week before we demobilize and come back for the transportation and disposal of the soil.

In addition, as we discussed, we are going to backfill over the remnants of the concrete slab encountered during the excavation activities.

Please let me know if you have any questions.

Thanks.

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Request to Import/Reuse Fill or Soil

This form is based on the information required by DER-10, Section 5.4(e). Use of this form is not a substitute for reading the applicable Technical Guidance document.

SECTION 1 – SITE BACKGROUND

The allowable site use is: Commercial or Industrial Use

Have Ecological Resources been identified? no

Is this soil originating from the site? no

How many cubic yards of soil will be imported/reused? 100-200

If greater than 1000 cubic yards will be imported, enter volume to be imported:

SECTION 2 – MATERIAL OTHER THAN SOIL

Is the material to be imported gravel, rock or stone? no

Does it contain less than 10%, by weight, material that would pass a size 80 sieve? no

Is this virgin material from a permitted mine or quarry? yes

Is this material recycled concrete or brick from a DEC registered processing facility? no

SECTION 3 - SAMPLING

Provide a brief description of the number and type of samples collected in the space below:

2 discrete samples were collected and analyzed for VOCs. 1 composite sample was collected and analyzed for SVOCs, Metals, PCBs, and Pesticides. 1 composite sample was collected and analyzed for PFAS and 1,4-dioxane.

Example Text: 5 discrete samples were collected and analyzed for VOCs. 2 composite samples were collected and analyzed for SVOCs, Inorganics & PCBs/Pesticides.

If the material meets requirements of DER-10 section 5.5 (other material), no chemical testing needed.

SECTION 3 CONT'D - SAMPLING

Provide a brief written summary of the sampling results or attach evaluation tables (compare to DER-10, Appendix 5):

The sampling results for VOCs, PCBs, Pesticides, and 1,4-dioxane were non-detect.

PFOA was detected at 0.119J ppb; commercial use allowable level is 500 ppb.
PFOS was detected at 0.549 ppb; commercial use allowable level is 440 ppb.

The SVOC sample results were non-detect except for the following results compared to commercial use allowable levels:

Benzo(a)anthracene was detected at 0.076J ppm; allowable level is 1 ppm.
Benzo(a)pyrene was detected at 0.1J ppm; allowable level is 1 ppm.
Benzo(b)fluoranthene was detected at 0.130 ppm; allowable level is 1.7 ppm.
Benzo(g,h,i)perylene was detected at 0.066J ppm; allowable level is 500 ppm.
Benzo(k)fluoranthene was detected at 0.042J ppm; allowable level is 1.7 ppm.
Chyrsene was detected at 0.093J ppm; allowable level is 1 ppm.
Flouranthene was detected at 0.190 ppm; allowable level is 500 ppm.
Indeno(1,2,3-cd)pyrene was detected at 0.063J ppm; allowable level is 5.6 ppm.
Phenanthrene was detected at 0.097J ppm; allowable level is 500 ppm.
Pyrene was detected at 0.160 ppm; allowable level is 500 ppm.

The metal sample results were compared to commercial use allowable levels:
Arsenic was detected at 14.7 ppm; allowable level is 16 ppm.
Barium was detected at 64.7 ppm; allowable level is 400 ppm.
Beryllium was detected at 0.484 ppm; allowable level is 47 ppm.
Cadmium was detected at 0.833 ppm; allowable level is 4.3 ppm.
Chromium, Hexavalent was non-detect.
Chromium, Total was detected at 14.0, allowable level is 1500 ppm.
Copper was detected at 24 ppm; allowable level is 270 ppm.
Cyanide was non-detect.
Lead was detected at 19.4 ppm; allowable level is 450 ppm.
Manganese was at 949 ppm; allowable level is 2000 ppm.
Mercury was non-detect.
Nickel was detected at 15.6 ppm; allowable level is 130 ppm.
Selenium was detected at 1.11 ppm; allowable level is 4 ppm.
Silver was non-detect.
Zinc was detected at 82.0 ppm; allowable level is 2480 ppm.

Example Text: Arsenic was detected up to 17 ppm in 1 (of 5) samples; the allowable level is 16 ppm.

If Ecological Resources have been identified use the "If Ecological Resources are Present" column in Appendix 5.

SECTION 4 – SOURCE OF FILL

Name of person providing fill and relationship to the source:

Lietz Trucking Corp bringing fill from their site.

Location where fill was obtained:

Lietz Trucking Corp - 162 McIntyre Road, Suite C, Frankfort, NY 13340

Identification of any state or local approvals as a fill source:

DEC Mine # 60497

If no approvals are available, provide a brief history of the use of the property that is the fill source:

DEC permitted mine and materials are from a virgin source.

Provide a list of supporting documentation included with this request:

Attached analytical data and clean fill certification from Lietz.

The information provided on this form is accurate and complete.

Signature

1/20/2021

Date

Glenn Netuschil

Print Name

Tetra Tech

Firm

ANALYTICAL REPORT

Lab Number:	L2054247
Client:	Atlantic Testing Laboratories, Limited 301 St. Anthony Street Utica, NY 13501
ATTN:	Michael D. Stewart
Phone:	(315) 735-3309
Project Name:	FRANKFURT REMEDIATION
Project Number:	UT5520
Report Date:	12/15/20

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

VOLATILES

Project Name: FRANKFURT REMEDIATION **Lab Number:** L2054247

Project Number: UT5520 **Report Date:** 12/15/20

SAMPLE RESULTS

Lab ID: L2054247-02
Client ID: LIETZ PIT STOCKPILE-TOPSOIL
Sample Location: Not Specified

Date Collected: 12/03/20 14:00
Date Received: 12/04/20
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 12/10/20 19:10
Analyst: MV
Percent Solids: 80%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	6.2	2.8	1
1,1-Dichloroethane	ND		ug/kg	1.2	0.18	1
Chloroform	ND		ug/kg	1.8	0.17	1
Carbon tetrachloride	ND		ug/kg	1.2	0.28	1
1,2-Dichloropropane	ND		ug/kg	1.2	0.15	1
Dibromochloromethane	ND		ug/kg	1.2	0.17	1
1,1,2-Trichloroethane	ND		ug/kg	1.2	0.33	1
Tetrachloroethene	ND		ug/kg	0.62	0.24	1
Chlorobenzene	ND		ug/kg	0.62	0.16	1
Trichlorofluoromethane	ND		ug/kg	5.0	0.86	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.32	1
1,1,1-Trichloroethane	ND		ug/kg	0.62	0.21	1
Bromodichloromethane	ND		ug/kg	0.62	0.14	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.34	1
cis-1,3-Dichloropropene	ND		ug/kg	0.62	0.20	1
1,3-Dichloropropene, Total	ND		ug/kg	0.62	0.20	1
1,1-Dichloropropene	ND		ug/kg	0.62	0.20	1
Bromoform	ND		ug/kg	5.0	0.30	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.62	0.20	1
Benzene	ND		ug/kg	0.62	0.20	1
Toluene	ND		ug/kg	1.2	0.67	1
Ethylbenzene	ND		ug/kg	1.2	0.17	1
Chloromethane	ND		ug/kg	5.0	1.2	1
Bromomethane	ND		ug/kg	2.5	0.72	1
Vinyl chloride	ND		ug/kg	1.2	0.42	1
Chloroethane	ND		ug/kg	2.5	0.56	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.29	1
trans-1,2-Dichloroethene	ND		ug/kg	1.8	0.17	1

Project Name: FRANKFURT REMEDIATION **Lab Number:** L2054247

Project Number: UT5520 **Report Date:** 12/15/20

SAMPLE RESULTS

Lab ID: L2054247-02 Date Collected: 12/03/20 14:00

Client ID: LIETZ PIT STOCKPILE-TOPSOIL Date Received: 12/04/20

Sample Location: Not Specified Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/kg	0.62	0.17	1
1,2-Dichlorobenzene	ND		ug/kg	2.5	0.18	1
1,3-Dichlorobenzene	ND		ug/kg	2.5	0.18	1
1,4-Dichlorobenzene	ND		ug/kg	2.5	0.21	1
Methyl tert butyl ether	ND		ug/kg	2.5	0.25	1
p/m-Xylene	ND		ug/kg	2.5	0.69	1
o-Xylene	ND		ug/kg	1.2	0.36	1
Xylenes, Total	ND		ug/kg	1.2	0.36	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.22	1
1,2-Dichloroethene, Total	ND		ug/kg	1.2	0.17	1
Dibromomethane	ND		ug/kg	2.5	0.29	1
Styrene	ND		ug/kg	1.2	0.24	1
Dichlorodifluoromethane	ND		ug/kg	12	1.1	1
Acetone	ND		ug/kg	12	6.0	1
Carbon disulfide	ND		ug/kg	12	5.6	1
2-Butanone	ND		ug/kg	12	2.8	1
Vinyl acetate	ND		ug/kg	12	2.7	1
4-Methyl-2-pentanone	ND		ug/kg	12	1.6	1
1,2,3-Trichloropropane	ND		ug/kg	2.5	0.16	1
2-Hexanone	ND		ug/kg	12	1.5	1
Bromochloromethane	ND		ug/kg	2.5	0.25	1
2,2-Dichloropropane	ND		ug/kg	2.5	0.25	1
1,2-Dibromoethane	ND		ug/kg	1.2	0.34	1
1,3-Dichloropropane	ND		ug/kg	2.5	0.21	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.62	0.16	1
Bromobenzene	ND		ug/kg	2.5	0.18	1
n-Butylbenzene	ND		ug/kg	1.2	0.21	1
sec-Butylbenzene	ND		ug/kg	1.2	0.18	1
tert-Butylbenzene	ND		ug/kg	2.5	0.15	1
o-Chlorotoluene	ND		ug/kg	2.5	0.24	1
p-Chlorotoluene	ND		ug/kg	2.5	0.13	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.7	1.2	1
Hexachlorobutadiene	ND		ug/kg	5.0	0.21	1
Isopropylbenzene	ND		ug/kg	1.2	0.14	1
p-Isopropyltoluene	ND		ug/kg	1.2	0.14	1
Naphthalene	ND		ug/kg	5.0	0.80	1
Acrylonitrile	ND		ug/kg	5.0	1.4	1

Project Name: FRANKFURT REMEDIATION **Lab Number:** L2054247

Project Number: UT5520 **Report Date:** 12/15/20

SAMPLE RESULTS

Lab ID: L2054247-02 Date Collected: 12/03/20 14:00

Client ID: LIETZ PIT STOCKPILE-TOPSOIL Date Received: 12/04/20

Sample Location: Not Specified Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.2	0.21	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.5	0.40	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.5	0.34	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.5	0.24	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.5	0.41	1
1,4-Dioxane	ND		ug/kg	99	44.	1
p-Diethylbenzene	ND		ug/kg	2.5	0.22	1
p-Ethyltoluene	ND		ug/kg	2.5	0.48	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.5	0.24	1
Ethyl ether	ND		ug/kg	2.5	0.42	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.2	1.8	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	95		70-130
Toluene-d8	85		70-130
4-Bromofluorobenzene	93		70-130
Dibromofluoromethane	105		70-130

Project Name: FRANKFURT REMEDIATION **Lab Number:** L2054247

Project Number: UT5520 **Report Date:** 12/15/20

SAMPLE RESULTS

Lab ID: L2054247-03 Date Collected: 12/03/20 14:08

Client ID: LIETZ PIT STOCKPILE-TOPSOIL Date Received: 12/04/20

Sample Location: Not Specified Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Analytical Method: 1,8260C

Analytical Date: 12/10/20 19:35

Analyst: MV

Percent Solids: 85%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/kg	5.9	2.7	1
1,1-Dichloroethane	ND		ug/kg	1.2	0.17	1
Chloroform	ND		ug/kg	1.8	0.16	1
Carbon tetrachloride	ND		ug/kg	1.2	0.27	1
1,2-Dichloropropane	ND		ug/kg	1.2	0.15	1
Dibromochloromethane	ND		ug/kg	1.2	0.16	1
1,1,2-Trichloroethane	ND		ug/kg	1.2	0.31	1
Tetrachloroethene	ND		ug/kg	0.59	0.23	1
Chlorobenzene	ND		ug/kg	0.59	0.15	1
Trichlorofluoromethane	ND		ug/kg	4.7	0.82	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.30	1
1,1,1-Trichloroethane	ND		ug/kg	0.59	0.20	1
Bromodichloromethane	ND		ug/kg	0.59	0.13	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.32	1
cis-1,3-Dichloropropene	ND		ug/kg	0.59	0.18	1
1,3-Dichloropropene, Total	ND		ug/kg	0.59	0.18	1
1,1-Dichloropropene	ND		ug/kg	0.59	0.19	1
Bromoform	ND		ug/kg	4.7	0.29	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.59	0.19	1
Benzene	ND		ug/kg	0.59	0.19	1
Toluene	ND		ug/kg	1.2	0.64	1
Ethylbenzene	ND		ug/kg	1.2	0.16	1
Chloromethane	ND		ug/kg	4.7	1.1	1
Bromomethane	ND		ug/kg	2.3	0.68	1
Vinyl chloride	ND		ug/kg	1.2	0.39	1
Chloroethane	ND		ug/kg	2.3	0.53	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.28	1
trans-1,2-Dichloroethene	ND		ug/kg	1.8	0.16	1

Project Name: FRANKFURT REMEDIATION **Lab Number:** L2054247

Project Number: UT5520 **Report Date:** 12/15/20

SAMPLE RESULTS

Lab ID: L2054247-03 Date Collected: 12/03/20 14:08

Client ID: LIETZ PIT STOCKPILE-TOPSOIL Date Received: 12/04/20

Sample Location: Not Specified Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/kg	0.59	0.16	1
1,2-Dichlorobenzene	ND		ug/kg	2.3	0.17	1
1,3-Dichlorobenzene	ND		ug/kg	2.3	0.17	1
1,4-Dichlorobenzene	ND		ug/kg	2.3	0.20	1
Methyl tert butyl ether	ND		ug/kg	2.3	0.24	1
p/m-Xylene	ND		ug/kg	2.3	0.66	1
o-Xylene	ND		ug/kg	1.2	0.34	1
Xylenes, Total	ND		ug/kg	1.2	0.34	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.20	1
1,2-Dichloroethene, Total	ND		ug/kg	1.2	0.16	1
Dibromomethane	ND		ug/kg	2.3	0.28	1
Styrene	ND		ug/kg	1.2	0.23	1
Dichlorodifluoromethane	ND		ug/kg	12	1.1	1
Acetone	ND		ug/kg	12	5.6	1
Carbon disulfide	ND		ug/kg	12	5.3	1
2-Butanone	ND		ug/kg	12	2.6	1
Vinyl acetate	ND		ug/kg	12	2.5	1
4-Methyl-2-pentanone	ND		ug/kg	12	1.5	1
1,2,3-Trichloropropane	ND		ug/kg	2.3	0.15	1
2-Hexanone	ND		ug/kg	12	1.4	1
Bromochloromethane	ND		ug/kg	2.3	0.24	1
2,2-Dichloropropane	ND		ug/kg	2.3	0.24	1
1,2-Dibromoethane	ND		ug/kg	1.2	0.33	1
1,3-Dichloropropane	ND		ug/kg	2.3	0.20	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.59	0.15	1
Bromobenzene	ND		ug/kg	2.3	0.17	1
n-Butylbenzene	ND		ug/kg	1.2	0.20	1
sec-Butylbenzene	ND		ug/kg	1.2	0.17	1
tert-Butylbenzene	ND		ug/kg	2.3	0.14	1
o-Chlorotoluene	ND		ug/kg	2.3	0.22	1
p-Chlorotoluene	ND		ug/kg	2.3	0.13	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.5	1.2	1
Hexachlorobutadiene	ND		ug/kg	4.7	0.20	1
Isopropylbenzene	ND		ug/kg	1.2	0.13	1
p-Isopropyltoluene	ND		ug/kg	1.2	0.13	1
Naphthalene	ND		ug/kg	4.7	0.76	1
Acrylonitrile	ND		ug/kg	4.7	1.4	1

Project Name: FRANKFURT REMEDIATION **Lab Number:** L2054247

Project Number: UT5520 **Report Date:** 12/15/20

SAMPLE RESULTS

Lab ID: L2054247-03 Date Collected: 12/03/20 14:08

Client ID: LIETZ PIT STOCKPILE-TOPSOIL Date Received: 12/04/20

Sample Location: Not Specified Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.2	0.20	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.3	0.38	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.3	0.32	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.3	0.23	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.3	0.39	1
1,4-Dioxane	ND		ug/kg	94	41.	1
p-Diethylbenzene	ND		ug/kg	2.3	0.21	1
p-Ethyltoluene	ND		ug/kg	2.3	0.45	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.3	0.22	1
Ethyl ether	ND		ug/kg	2.3	0.40	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.9	1.7	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	86		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	105		70-130

Project Name: FRANKFURT REMEDIATION **Lab Number:** L2054247

Project Number: UT5520 **Report Date:** 12/15/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 12/10/20 16:40
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 02-03,05-06 Batch: WG1443793-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16
1,1-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	ND		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14

Project Name: FRANKFURT REMEDIATION **Lab Number:** L2054247

Project Number: UT5520 **Report Date:** 12/15/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 12/10/20 16:40
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 02-03,05-06 Batch: WG1443793-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	2.0	0.24
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
Vinyl acetate	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
2,2-Dichloropropane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,3-Dichloropropane	ND		ug/kg	2.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13
Bromobenzene	ND		ug/kg	2.0	0.14
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
o-Chlorotoluene	ND		ug/kg	2.0	0.19

Project Name: FRANKFURT REMEDIATION **Lab Number:** L2054247

Project Number: UT5520 **Report Date:** 12/15/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 12/10/20 16:40
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 02-03,05-06 Batch: WG1443793-5					
p-Chlorotoluene	ND		ug/kg	2.0	0.11
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Hexachlorobutadiene	ND		ug/kg	4.0	0.17
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
Acrylonitrile	ND		ug/kg	4.0	1.2
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
1,4-Dioxane	ND		ug/kg	80	35.
p-Diethylbenzene	ND		ug/kg	2.0	0.18
p-Ethyltoluene	ND		ug/kg	2.0	0.38
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19
Ethyl ether	ND		ug/kg	2.0	0.34
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	85		70-130
Toluene-d8	88		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	94		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: FRANKFURT REMEDIATION
Project Number: UT5520

Lab Number: L2054247
Report Date: 12/15/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02-03,05-06 Batch: WG1443793-3 WG1443793-4								
Methylene chloride	96		90		70-130	6		30
1,1-Dichloroethane	94		88		70-130	7		30
Chloroform	95		89		70-130	7		30
Carbon tetrachloride	103		93		70-130	10		30
1,2-Dichloropropane	94		88		70-130	7		30
Dibromochloromethane	84		79		70-130	6		30
1,1,2-Trichloroethane	80		77		70-130	4		30
Tetrachloroethene	107		97		70-130	10		30
Chlorobenzene	91		85		70-130	7		30
Trichlorofluoromethane	88		80		70-139	10		30
1,2-Dichloroethane	89		85		70-130	5		30
1,1,1-Trichloroethane	104		95		70-130	9		30
Bromodichloromethane	98		94		70-130	4		30
trans-1,3-Dichloropropene	84		80		70-130	5		30
cis-1,3-Dichloropropene	88		84		70-130	5		30
1,1-Dichloropropene	104		93		70-130	11		30
Bromoform	87		85		70-130	2		30
1,1,2,2-Tetrachloroethane	75		72		70-130	4		30
Benzene	99		92		70-130	7		30
Toluene	85		79		70-130	7		30
Ethylbenzene	87		80		70-130	8		30
Chloromethane	86		77		52-130	11		30
Bromomethane	58		**54**	Q	57-147	7		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: FRANKFURT REMEDIATION
Project Number: UT5520

Lab Number: L2054247
Report Date: 12/15/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02-03,05-06 Batch: WG1443793-3 WG1443793-4								
Vinyl chloride	**61**	Q	**54**	Q	67-130	12		30
Chloroethane	62		57		50-151	8		30
1,1-Dichloroethene	106		94		65-135	12		30
trans-1,2-Dichloroethene	104		96		70-130	8		30
Trichloroethene	108		98		70-130	10		30
1,2-Dichlorobenzene	86		81		70-130	6		30
1,3-Dichlorobenzene	88		82		70-130	7		30
1,4-Dichlorobenzene	86		81		70-130	6		30
Methyl tert butyl ether	99		96		66-130	3		30
p/m-Xylene	94		87		70-130	8		30
o-Xylene	94		88		70-130	7		30
cis-1,2-Dichloroethene	104		96		70-130	8		30
Dibromomethane	97		92		70-130	5		30
Styrene	84		78		70-130	7		30
Dichlorodifluoromethane	72		64		30-146	12		30
Acetone	90		81		54-140	11		30
Carbon disulfide	90		80		59-130	12		30
2-Butanone	92		87		70-130	6		30
Vinyl acetate	96		92		70-130	4		30
4-Methyl-2-pentanone	74		70		70-130	6		30
1,2,3-Trichloropropane	70		68		68-130	3		30
2-Hexanone	78		75		70-130	4		30
Bromochloromethane	108		103		70-130	5		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: FRANKFURT REMEDIATION
Project Number: UT5520
Lab Number: L2054247
Report Date: 12/15/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02-03,05-06 Batch: WG1443793-3 WG1443793-4								
2,2-Dichloropropane	103		94		70-130	9		30
1,2-Dibromoethane	90		85		70-130	6		30
1,3-Dichloropropane	79		76		69-130	4		30
1,1,1,2-Tetrachloroethane	87		81		70-130	7		30
Bromobenzene	89		85		70-130	5		30
n-Butylbenzene	81		73		70-130	10		30
sec-Butylbenzene	86		78		70-130	10		30
tert-Butylbenzene	91		83		70-130	9		30
o-Chlorotoluene	79		74		70-130	7		30
p-Chlorotoluene	81		76		70-130	6		30
1,2-Dibromo-3-chloropropane	84		79		68-130	6		30
Hexachlorobutadiene	101		93		67-130	8		30
Isopropylbenzene	86		79		70-130	8		30
p-Isopropyltoluene	93		85		70-130	9		30
Naphthalene	96		91		70-130	5		30
Acrylonitrile	106		100		70-130	6		30
n-Propylbenzene	80		73		70-130	9		30
1,2,3-Trichlorobenzene	99		93		70-130	6		30
1,2,4-Trichlorobenzene	97		92		70-130	5		30
1,3,5-Trimethylbenzene	87		80		70-130	8		30
1,2,4-Trimethylbenzene	88		82		70-130	7		30
1,4-Dioxane	136		118		65-136	14		30
p-Diethylbenzene	94		85		70-130	10		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: FRANKFURT REMEDIATION
Project Number: UT5520

Lab Number: L2054247
Report Date: 12/15/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02-03,05-06 Batch: WG1443793-3 WG1443793-4								
p-Ethyltoluene	87		80		70-130	8		30
1,2,4,5-Tetramethylbenzene	97		90		70-130	7		30
Ethyl ether	100		95		67-130	5		30
trans-1,4-Dichloro-2-butene	82		77		70-130	6		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	88		87		70-130
Toluene-d8	89		89		70-130
4-Bromofluorobenzene	94		95		70-130
Dibromofluoromethane	99		99		70-130

SEMIVOLATILES

Project Name: FRANKFURT REMEDIATION **Lab Number:** L2054247

Project Number: UT5520 **Report Date:** 12/15/20

SAMPLE RESULTS

Lab ID: L2054247-01
Client ID: LIETZ PIT STOCKPILE-TOPSOIL
Sample Location: Not Specified

Date Collected: 12/03/20 13:45
Date Received: 12/04/20
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 12/11/20 00:46
Analyst: IM
Percent Solids: 81%

Extraction Method: EPA 3546
Extraction Date: 12/10/20 14:02

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	160	21.	1
1,2,4-Trichlorobenzene	ND		ug/kg	200	23.	1
Hexachlorobenzene	ND		ug/kg	120	23.	1
Bis(2-chloroethyl)ether	ND		ug/kg	180	27.	1
2-Chloronaphthalene	ND		ug/kg	200	20.	1
1,2-Dichlorobenzene	ND		ug/kg	200	36.	1
1,3-Dichlorobenzene	ND		ug/kg	200	35.	1
1,4-Dichlorobenzene	ND		ug/kg	200	35.	1
3,3'-Dichlorobenzidine	ND		ug/kg	200	54.	1
2,4-Dinitrotoluene	ND		ug/kg	200	40.	1
2,6-Dinitrotoluene	ND		ug/kg	200	35.	1
Fluoranthene	190		ug/kg	120	23.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	200	22.	1
4-Bromophenyl phenyl ether	ND		ug/kg	200	31.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	240	34.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	220	20.	1
Hexachlorobutadiene	ND		ug/kg	200	30.	1
Hexachlorocyclopentadiene	ND		ug/kg	580	180	1
Hexachloroethane	ND		ug/kg	160	33.	1
Isophorone	ND		ug/kg	180	26.	1
Naphthalene	ND		ug/kg	200	25.	1
Nitrobenzene	ND		ug/kg	180	30.	1
NDPA/DPA	ND		ug/kg	160	23.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	200	31.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	200	70.	1
Butyl benzyl phthalate	ND		ug/kg	200	51.	1
Di-n-butylphthalate	ND		ug/kg	200	38.	1
Di-n-octylphthalate	ND		ug/kg	200	69.	1

Project Name: FRANKFURT REMEDIATION **Lab Number:** L2054247

Project Number: UT5520 **Report Date:** 12/15/20

SAMPLE RESULTS

Lab ID: L2054247-01 Date Collected: 12/03/20 13:45

Client ID: LIETZ PIT STOCKPILE-TOPSOIL Date Received: 12/04/20

Sample Location: Not Specified Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	200	19.	1
Dimethyl phthalate	ND		ug/kg	200	42.	1
Benzo(a)anthracene	76	J	ug/kg	120	23.	1
Benzo(a)pyrene	100	J	ug/kg	160	49.	1
Benzo(b)fluoranthene	130		ug/kg	120	34.	1
Benzo(k)fluoranthene	42	J	ug/kg	120	32.	1
Chrysene	93	J	ug/kg	120	21.	1
Acenaphthylene	ND		ug/kg	160	31.	1
Anthracene	ND		ug/kg	120	39.	1
Benzo(ghi)perylene	66	J	ug/kg	160	24.	1
Fluorene	ND		ug/kg	200	20.	1
Phenanthrene	97	J	ug/kg	120	25.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	23.	1
Indeno(1,2,3-cd)pyrene	63	J	ug/kg	160	28.	1
Pyrene	160		ug/kg	120	20.	1
Biphenyl	ND		ug/kg	460	47.	1
4-Chloroaniline	ND		ug/kg	200	37.	1
2-Nitroaniline	ND		ug/kg	200	39.	1
3-Nitroaniline	ND		ug/kg	200	38.	1
4-Nitroaniline	ND		ug/kg	200	84.	1
Dibenzofuran	ND		ug/kg	200	19.	1
2-Methylnaphthalene	ND		ug/kg	240	24.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	200	21.	1
Acetophenone	ND		ug/kg	200	25.	1
Benzyl Alcohol	ND		ug/kg	200	62.	1
Carbazole	ND		ug/kg	200	20.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	51		25-120
Phenol-d6	51		10-120
Nitrobenzene-d5	55		23-120
2-Fluorobiphenyl	57		30-120
2,4,6-Tribromophenol	79		10-136
4-Terphenyl-d14	57		18-120

Project Name: FRANKFURT REMEDIATION **Lab Number:** L2054247

Project Number: UT5520 **Report Date:** 12/15/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 12/10/20 16:12
Analyst: JG

Extraction Method: EPA 3540C
Extraction Date: 12/09/20 14:20

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 04 Batch: WG1442922-1					
Acenaphthene	ND		ug/kg	130	17.
1,2,4-Trichlorobenzene	ND		ug/kg	160	19.
Hexachlorobenzene	ND		ug/kg	98	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
1,2-Dichlorobenzene	ND		ug/kg	160	29.
1,3-Dichlorobenzene	ND		ug/kg	160	28.
1,4-Dichlorobenzene	ND		ug/kg	160	28.
3,3'-Dichlorobenzidine	ND		ug/kg	160	43.
2,4-Dinitrotoluene	ND		ug/kg	160	33.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Fluoranthene	ND		ug/kg	98	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	17.
4-Bromophenyl phenyl ether	ND		ug/kg	160	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	16.
Hexachlorobutadiene	ND		ug/kg	160	24.
Hexachlorocyclopentadiene	ND		ug/kg	470	150
Hexachloroethane	ND		ug/kg	130	26.
Isophorone	ND		ug/kg	150	21.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	150	24.
NDPA/DPA	ND		ug/kg	130	18.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	25.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	56.
Butyl benzyl phthalate	ND		ug/kg	160	41.
Di-n-butylphthalate	ND		ug/kg	160	31.
Di-n-octylphthalate	ND		ug/kg	160	55.
Diethyl phthalate	ND		ug/kg	160	15.

Project Name: FRANKFURT REMEDIATION **Lab Number:** L2054247

Project Number: UT5520 **Report Date:** 12/15/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 12/10/20 16:12
Analyst: JG

Extraction Method: EPA 3540C
Extraction Date: 12/09/20 14:20

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 04 Batch: WG1442922-1					
Dimethyl phthalate	ND		ug/kg	160	34.
Benzo(a)anthracene	ND		ug/kg	98	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	98	27.
Benzo(k)fluoranthene	ND		ug/kg	98	26.
Chrysene	ND		ug/kg	98	17.
Acenaphthylene	ND		ug/kg	130	25.
Anthracene	ND		ug/kg	98	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	98	20.
Dibenzo(a,h)anthracene	ND		ug/kg	98	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	98	16.
Biphenyl	ND		ug/kg	370	38.
4-Chloroaniline	ND		ug/kg	160	30.
2-Nitroaniline	ND		ug/kg	160	31.
3-Nitroaniline	ND		ug/kg	160	31.
4-Nitroaniline	ND		ug/kg	160	68.
Dibenzofuran	ND		ug/kg	160	15.
2-Methylnaphthalene	ND		ug/kg	200	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	17.
Acetophenone	ND		ug/kg	160	20.
Benzyl Alcohol	ND		ug/kg	160	50.
Carbazole	ND		ug/kg	160	16.

Project Name: FRANKFURT REMEDIATION
Project Number: UT5520
Lab Number: L2054247
Report Date: 12/15/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 12/10/20 16:12
Analyst: JG

Extraction Method: EPA 3540C
Extraction Date: 12/09/20 14:20

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 04 Batch: WG1442922-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	63		25-120
Phenol-d6	66		10-120
Nitrobenzene-d5	61		23-120
2-Fluorobiphenyl	69		30-120
2,4,6-Tribromophenol	55		10-136
4-Terphenyl-d14	70		18-120

Project Name: FRANKFURT REMEDIATION **Lab Number:** L2054247

Project Number: UT5520 **Report Date:** 12/15/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 12/10/20 22:53
Analyst: IM

Extraction Method: EPA 3546
Extraction Date: 12/10/20 14:02

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1443456-1					
Acenaphthene	ND		ug/kg	130	17.
1,2,4-Trichlorobenzene	ND		ug/kg	160	19.
Hexachlorobenzene	ND		ug/kg	99	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
1,2-Dichlorobenzene	ND		ug/kg	160	30.
1,3-Dichlorobenzene	ND		ug/kg	160	28.
1,4-Dichlorobenzene	ND		ug/kg	160	29.
3,3'-Dichlorobenzidine	ND		ug/kg	160	44.
2,4-Dinitrotoluene	ND		ug/kg	160	33.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Fluoranthene	ND		ug/kg	99	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	18.
4-Bromophenyl phenyl ether	ND		ug/kg	160	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	17.
Hexachlorobutadiene	ND		ug/kg	160	24.
Hexachlorocyclopentadiene	ND		ug/kg	470	150
Hexachloroethane	ND		ug/kg	130	27.
Isophorone	ND		ug/kg	150	22.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	150	24.
NDPA/DPA	ND		ug/kg	130	19.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	26.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	57.
Butyl benzyl phthalate	ND		ug/kg	160	42.
Di-n-butylphthalate	ND		ug/kg	160	31.
Di-n-octylphthalate	ND		ug/kg	160	56.
Diethyl phthalate	ND		ug/kg	160	15.

Project Name: FRANKFURT REMEDIATION **Lab Number:** L2054247

Project Number: UT5520 **Report Date:** 12/15/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 12/10/20 22:53
Analyst: IM

Extraction Method: EPA 3546
Extraction Date: 12/10/20 14:02

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1443456-1					
Dimethyl phthalate	ND		ug/kg	160	35.
Benzo(a)anthracene	ND		ug/kg	99	19.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	99	28.
Benzo(k)fluoranthene	ND		ug/kg	99	26.
Chrysene	ND		ug/kg	99	17.
Acenaphthylene	ND		ug/kg	130	26.
Anthracene	ND		ug/kg	99	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	99	20.
Dibenzo(a,h)anthracene	ND		ug/kg	99	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	99	16.
Biphenyl	ND		ug/kg	380	38.
4-Chloroaniline	ND		ug/kg	160	30.
2-Nitroaniline	ND		ug/kg	160	32.
3-Nitroaniline	ND		ug/kg	160	31.
4-Nitroaniline	ND		ug/kg	160	68.
Dibenzofuran	ND		ug/kg	160	16.
2-Methylnaphthalene	ND		ug/kg	200	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	17.
Acetophenone	ND		ug/kg	160	20.
Benzyl Alcohol	ND		ug/kg	160	51.
Carbazole	ND		ug/kg	160	16.

Project Name: FRANKFURT REMEDIATION
Project Number: UT5520
Lab Number: L2054247
Report Date: 12/15/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 12/10/20 22:53
Analyst: IM

Extraction Method: EPA 3546
Extraction Date: 12/10/20 14:02

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1443456-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	55		25-120
Phenol-d6	58		10-120
Nitrobenzene-d5	56		23-120
2-Fluorobiphenyl	62		30-120
2,4,6-Tribromophenol	73		10-136
4-Terphenyl-d14	70		18-120

Lab Control Sample Analysis
Batch Quality Control

Project Name: FRANKFURT REMEDIATION
Project Number: UT5520

Lab Number: L2054247
Report Date: 12/15/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 04 Batch: WG1442922-2 WG1442922-3								
Acenaphthene	62		64		31-137	3		50
1,2,4-Trichlorobenzene	66		67		38-107	2		50
Hexachlorobenzene	66		66		40-140	0		50
Bis(2-chloroethyl)ether	59		60		40-140	2		50
2-Chloronaphthalene	65		66		40-140	2		50
1,2-Dichlorobenzene	61		62		40-140	2		50
1,3-Dichlorobenzene	59		61		40-140	3		50
1,4-Dichlorobenzene	60		61		28-104	2		50
3,3'-Dichlorobenzidine	48		55		40-140	14		50
2,4-Dinitrotoluene	67		67		40-132	0		50
2,6-Dinitrotoluene	68		69		40-140	1		50
Fluoranthene	66		67		40-140	2		50
4-Chlorophenyl phenyl ether	66		66		40-140	0		50
4-Bromophenyl phenyl ether	66		66		40-140	0		50
Bis(2-chloroisopropyl)ether	55		56		40-140	2		50
Bis(2-chloroethoxy)methane	61		63		40-117	3		50
Hexachlorobutadiene	66		66		40-140	0		50
Hexachlorocyclopentadiene	67		68		40-140	1		50
Hexachloroethane	58		58		40-140	0		50
Isophorone	58		61		40-140	5		50
Naphthalene	64		65		40-140	2		50
Nitrobenzene	61		64		40-140	5		50
NDPA/DPA	66		64		36-157	3		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: FRANKFURT REMEDIATION
Project Number: UT5520

Lab Number: L2054247
Report Date: 12/15/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 04 Batch: WG1442922-2 WG1442922-3								
n-Nitrosodi-n-propylamine	59		61		32-121	3		50
Bis(2-ethylhexyl)phthalate	66		68		40-140	3		50
Butyl benzyl phthalate	68		68		40-140	0		50
Di-n-butylphthalate	64		64		40-140	0		50
Di-n-octylphthalate	68		69		40-140	1		50
Diethyl phthalate	63		63		40-140	0		50
Dimethyl phthalate	66		67		40-140	2		50
Benzo(a)anthracene	62		63		40-140	2		50
Benzo(a)pyrene	70		71		40-140	1		50
Benzo(b)fluoranthene	67		67		40-140	0		50
Benzo(k)fluoranthene	66		68		40-140	3		50
Chrysene	64		65		40-140	2		50
Acenaphthylene	64		66		40-140	3		50
Anthracene	64		66		40-140	3		50
Benzo(ghi)perylene	67		67		40-140	0		50
Fluorene	64		66		40-140	3		50
Phenanthrene	66		67		40-140	2		50
Dibenzo(a,h)anthracene	66		67		40-140	2		50
Indeno(1,2,3-cd)pyrene	66		66		40-140	0		50
Pyrene	66		66		35-142	0		50
Biphenyl	70		71		37-127	1		50
4-Chloroaniline	40		45		40-140	12		50
2-Nitroaniline	69		70		47-134	1		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: FRANKFURT REMEDIATION
Project Number: UT5520

Lab Number: L2054247
Report Date: 12/15/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 04 Batch: WG1442922-2 WG1442922-3								
3-Nitroaniline	54		56		26-129	4		50
4-Nitroaniline	65		64		41-125	2		50
Dibenzofuran	64		65		40-140	2		50
2-Methylnaphthalene	65		67		40-140	3		50
1,2,4,5-Tetrachlorobenzene	72		72		40-117	0		50
Acetophenone	67		69		14-144	3		50
Benzyl Alcohol	65		68		40-140	5		50
Carbazole	64		65		54-128	2		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	65		68		25-120
Phenol-d6	66		69		10-120
Nitrobenzene-d5	62		64		23-120
2-Fluorobiphenyl	68		69		30-120
2,4,6-Tribromophenol	68		68		10-136
4-Terphenyl-d14	68		69		18-120

Lab Control Sample Analysis
Batch Quality Control

Project Name: FRANKFURT REMEDIATION
Project Number: UT5520

Lab Number: L2054247
Report Date: 12/15/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1443456-2 WG1443456-3								
Acenaphthene	61		62		31-137	2		50
1,2,4-Trichlorobenzene	59		63		38-107	7		50
Hexachlorobenzene	75		80		40-140	6		50
Bis(2-chloroethyl)ether	53		57		40-140	7		50
2-Chloronaphthalene	61		64		40-140	5		50
1,2-Dichlorobenzene	57		62		40-140	8		50
1,3-Dichlorobenzene	55		60		40-140	9		50
1,4-Dichlorobenzene	56		61		28-104	9		50
3,3'-Dichlorobenzidine	48		47		40-140	2		50
2,4-Dinitrotoluene	81		82		40-132	1		50
2,6-Dinitrotoluene	76		79		40-140	4		50
Fluoranthene	66		68		40-140	3		50
4-Chlorophenyl phenyl ether	68		69		40-140	1		50
4-Bromophenyl phenyl ether	76		78		40-140	3		50
Bis(2-chloroisopropyl)ether	52		55		40-140	6		50
Bis(2-chloroethoxy)methane	57		59		40-117	3		50
Hexachlorobutadiene	64		69		40-140	8		50
Hexachlorocyclopentadiene	44		50		40-140	13		50
Hexachloroethane	54		59		40-140	9		50
Isophorone	53		57		40-140	7		50
Naphthalene	60		64		40-140	6		50
Nitrobenzene	56		59		40-140	5		50
NDPA/DPA	66		66		36-157	0		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: FRANKFURT REMEDIATION
Project Number: UT5520

Lab Number: L2054247
Report Date: 12/15/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1443456-2 WG1443456-3								
n-Nitrosodi-n-propylamine	53		55		32-121	4		50
Bis(2-ethylhexyl)phthalate	56		59		40-140	5		50
Butyl benzyl phthalate	64		66		40-140	3		50
Di-n-butylphthalate	63		63		40-140	0		50
Di-n-octylphthalate	53		56		40-140	6		50
Diethyl phthalate	64		65		40-140	2		50
Dimethyl phthalate	63		66		40-140	5		50
Benzo(a)anthracene	58		60		40-140	3		50
Benzo(a)pyrene	68		68		40-140	0		50
Benzo(b)fluoranthene	64		64		40-140	0		50
Benzo(k)fluoranthene	66		67		40-140	2		50
Chrysene	62		62		40-140	0		50
Acenaphthylene	62		64		40-140	3		50
Anthracene	62		64		40-140	3		50
Benzo(ghi)perylene	64		63		40-140	2		50
Fluorene	65		65		40-140	0		50
Phenanthrene	62		64		40-140	3		50
Dibenzo(a,h)anthracene	62		63		40-140	2		50
Indeno(1,2,3-cd)pyrene	60		60		40-140	0		50
Pyrene	66		67		35-142	2		50
Biphenyl	63		65		37-127	3		50
4-Chloroaniline	47		48		40-140	2		50
2-Nitroaniline	73		75		47-134	3		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: FRANKFURT REMEDIATION
Project Number: UT5520
Lab Number: L2054247
Report Date: 12/15/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1443456-2 WG1443456-3								
3-Nitroaniline	64		63		26-129	2		50
4-Nitroaniline	70		72		41-125	3		50
Dibenzofuran	63		64		40-140	2		50
2-Methylnaphthalene	61		64		40-140	5		50
1,2,4,5-Tetrachlorobenzene	68		72		40-117	6		50
Acetophenone	59		63		14-144	7		50
Benzyl Alcohol	56		58		40-140	4		50
Carbazole	61		63		54-128	3		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	56		60		25-120
Phenol-d6	61		62		10-120
Nitrobenzene-d5	58		61		23-120
2-Fluorobiphenyl	63		65		30-120
2,4,6-Tribromophenol	87		89		10-136
4-Terphenyl-d14	71		72		18-120

PCBS

Project Name: FRANKFURT REMEDIATION **Lab Number:** L2054247

Project Number: UT5520 **Report Date:** 12/15/20

SAMPLE RESULTS

Lab ID: L2054247-01
Client ID: LIETZ PIT STOCKPILE-TOPSOIL
Sample Location: Not Specified

Date Collected: 12/03/20 13:45
Date Received: 12/04/20
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 12/10/20 22:38
Analyst: JAW
Percent Solids: 81%

Extraction Method: EPA 3546
Extraction Date: 12/10/20 02:58
Cleanup Method: EPA 3665A
Cleanup Date: 12/10/20
Cleanup Method: EPA 3660B
Cleanup Date: 12/10/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	41.0	3.64	1	A
Aroclor 1221	ND		ug/kg	41.0	4.10	1	A
Aroclor 1232	ND		ug/kg	41.0	8.68	1	A
Aroclor 1242	ND		ug/kg	41.0	5.52	1	A
Aroclor 1248	ND		ug/kg	41.0	6.14	1	A
Aroclor 1254	ND		ug/kg	41.0	4.48	1	A
Aroclor 1260	ND		ug/kg	41.0	7.57	1	A
Aroclor 1262	ND		ug/kg	41.0	5.20	1	A
Aroclor 1268	ND		ug/kg	41.0	4.24	1	A
PCBs, Total	ND		ug/kg	41.0	3.64	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	45		30-150	A
Decachlorobiphenyl	41		30-150	A
2,4,5,6-Tetrachloro-m-xylene	43		30-150	B
Decachlorobiphenyl	41		30-150	B

Project Name: FRANKFURT REMEDIATION
Project Number: UT5520
Lab Number: L2054247
Report Date: 12/15/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 12/11/20 09:57
Analyst: CW

Extraction Method: EPA 3540C
Extraction Date: 12/09/20 11:05
Cleanup Method: EPA 3665A
Cleanup Date: 12/10/20
Cleanup Method: EPA 3660B
Cleanup Date: 12/11/20

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 04 Batch: WG1442779-1						
Aroclor 1016	ND		ug/kg	87.9	7.80	A
Aroclor 1221	ND		ug/kg	87.9	8.80	A
Aroclor 1232	ND		ug/kg	87.9	18.6	A
Aroclor 1242	ND		ug/kg	87.9	11.8	A
Aroclor 1248	ND		ug/kg	87.9	13.2	A
Aroclor 1254	ND		ug/kg	87.9	9.61	A
Aroclor 1260	ND		ug/kg	87.9	16.2	A
Aroclor 1262	ND		ug/kg	87.9	11.2	A
Aroclor 1268	ND		ug/kg	87.9	9.10	A
PCBs, Total	ND		ug/kg	87.9	7.80	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	67		30-150	A
Decachlorobiphenyl	61		30-150	A
2,4,5,6-Tetrachloro-m-xylene	71		30-150	B
Decachlorobiphenyl	72		30-150	B

Project Name: FRANKFURT REMEDIATION
Project Number: UT5520
Lab Number: L2054247
Report Date: 12/15/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 12/10/20 20:41
Analyst: JAW

Extraction Method: EPA 3546
Extraction Date: 12/10/20 02:58
Cleanup Method: EPA 3665A
Cleanup Date: 12/10/20
Cleanup Method: EPA 3660B
Cleanup Date: 12/10/20

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01 Batch: WG1443161-1						
Aroclor 1016	ND		ug/kg	32.3	2.87	A
Aroclor 1221	ND		ug/kg	32.3	3.24	A
Aroclor 1232	ND		ug/kg	32.3	6.85	A
Aroclor 1242	ND		ug/kg	32.3	4.35	A
Aroclor 1248	ND		ug/kg	32.3	4.84	A
Aroclor 1254	ND		ug/kg	32.3	3.53	A
Aroclor 1260	ND		ug/kg	32.3	5.97	A
Aroclor 1262	ND		ug/kg	32.3	4.10	A
Aroclor 1268	ND		ug/kg	32.3	3.35	A
PCBs, Total	ND		ug/kg	32.3	2.87	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	79		30-150	A
Decachlorobiphenyl	96		30-150	A
2,4,5,6-Tetrachloro-m-xylene	83		30-150	B
Decachlorobiphenyl	108		30-150	B

Lab Control Sample Analysis
Batch Quality Control

Project Name: FRANKFURT REMEDIATION
Project Number: UT5520

Lab Number: L2054247
Report Date: 12/15/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 04 Batch: WG1442779-2 WG1442779-3									
Aroclor 1016	72		64		40-140	12		50	A
Aroclor 1260	64		56		40-140	13		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	66		58		30-150	A
Decachlorobiphenyl	55		52		30-150	A
2,4,5,6-Tetrachloro-m-xylene	71		61		30-150	B
Decachlorobiphenyl	69		60		30-150	B

Lab Control Sample Analysis
Batch Quality Control

Project Name: FRANKFURT REMEDIATION
Project Number: UT5520

Lab Number: L2054247
Report Date: 12/15/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01 Batch: WG1443161-2 WG1443161-3									
Aroclor 1016	86		81		40-140	6		50	A
Aroclor 1260	87		85		40-140	2		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	79		77		30-150	A
Decachlorobiphenyl	94		93		30-150	A
2,4,5,6-Tetrachloro-m-xylene	81		78		30-150	B
Decachlorobiphenyl	101		98		30-150	B

PESTICIDES

Project Name: FRANKFURT REMEDIATION
Lab Number: L2054247
Project Number: UT5520
Report Date: 12/15/20

SAMPLE RESULTS

Lab ID: L2054247-01
Client ID: LIETZ PIT STOCKPILE-TOPSOIL
Sample Location: Not Specified

Date Collected: 12/03/20 13:45
Date Received: 12/04/20
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 12/11/20 11:25
Analyst: JJW
Percent Solids: 81%

Extraction Method: EPA 3546
Extraction Date: 12/10/20 01:51
Cleanup Method: EPA 3620B
Cleanup Date: 12/11/20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.87	0.366	1	A
Lindane	ND		ug/kg	0.780	0.349	1	A
Alpha-BHC	ND		ug/kg	0.780	0.221	1	A
Beta-BHC	ND		ug/kg	1.87	0.710	1	A
Heptachlor	ND		ug/kg	0.936	0.420	1	A
Aldrin	ND		ug/kg	1.87	0.659	1	A
Heptachlor epoxide	ND		ug/kg	3.51	1.05	1	A
Endrin	ND		ug/kg	0.780	0.320	1	A
Endrin aldehyde	ND		ug/kg	2.34	0.819	1	A
Endrin ketone	ND		ug/kg	1.87	0.482	1	A
Dieldrin	ND		ug/kg	1.17	0.585	1	A
4,4'-DDE	ND		ug/kg	1.87	0.433	1	A
4,4'-DDD	ND		ug/kg	1.87	0.668	1	A
4,4'-DDT	ND		ug/kg	3.51	1.50	1	A
Endosulfan I	ND		ug/kg	1.87	0.442	1	A
Endosulfan II	ND		ug/kg	1.87	0.625	1	A
Endosulfan sulfate	ND		ug/kg	0.780	0.371	1	A
Methoxychlor	ND		ug/kg	3.51	1.09	1	A
Toxaphene	ND		ug/kg	35.1	9.83	1	A
cis-Chlordane	ND		ug/kg	2.34	0.652	1	A
trans-Chlordane	ND		ug/kg	2.34	0.618	1	A
Chlordane	ND		ug/kg	15.6	6.20	1	A

Project Name: FRANKFURT REMEDIATION **Lab Number:** L2054247

Project Number: UT5520 **Report Date:** 12/15/20

SAMPLE RESULTS

Lab ID: L2054247-01 Date Collected: 12/03/20 13:45

Client ID: LIETZ PIT STOCKPILE-TOPSOIL Date Received: 12/04/20

Sample Location: Not Specified Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	66		30-150	A
Decachlorobiphenyl	77		30-150	A
2,4,5,6-Tetrachloro-m-xylene	69		30-150	B
Decachlorobiphenyl	111		30-150	B

Project Name: FRANKFURT REMEDIATION
Project Number: UT5520
Lab Number: L2054247
Report Date: 12/15/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 12/10/20 17:20
Analyst: JJW

Extraction Method: EPA 3540C
Extraction Date: 12/09/20 00:45
Cleanup Method: EPA 3620B
Cleanup Date: 12/10/20

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 04 Batch: WG1442892-1						
Delta-BHC	ND		ug/kg	4.07	0.798	A
Lindane	ND		ug/kg	1.70	0.759	A
Alpha-BHC	ND		ug/kg	1.70	0.482	A
Beta-BHC	ND		ug/kg	4.07	1.54	A
Heptachlor	ND		ug/kg	2.04	0.913	A
Aldrin	ND		ug/kg	4.07	1.43	A
Heptachlor epoxide	ND		ug/kg	7.64	2.29	A
Endrin	ND		ug/kg	1.70	0.696	A
Endrin aldehyde	ND		ug/kg	5.09	1.78	A
Endrin ketone	ND		ug/kg	4.07	1.05	A
Dieldrin	ND		ug/kg	2.55	1.27	A
4,4'-DDE	ND		ug/kg	4.07	0.942	A
4,4'-DDD	ND		ug/kg	4.07	1.45	A
4,4'-DDT	ND		ug/kg	7.64	3.28	A
Endosulfan I	ND		ug/kg	4.07	0.963	A
Endosulfan II	ND		ug/kg	4.07	1.36	A
Endosulfan sulfate	ND		ug/kg	1.70	0.808	A
Methoxychlor	ND		ug/kg	7.64	2.38	A
Toxaphene	ND		ug/kg	76.4	21.4	A
cis-Chlordane	ND		ug/kg	5.09	1.42	A
trans-Chlordane	ND		ug/kg	5.09	1.34	A
Chlordane	ND		ug/kg	34.0	13.5	A

Project Name: FRANKFURT REMEDIATION
Project Number: UT5520
Lab Number: L2054247
Report Date: 12/15/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 12/10/20 17:20
Analyst: JJW

Extraction Method: EPA 3540C
Extraction Date: 12/09/20 00:45
Cleanup Method: EPA 3620B
Cleanup Date: 12/10/20

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 04 Batch: WG1442892-1						

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	102		30-150	A
Decachlorobiphenyl	109		30-150	A
2,4,5,6-Tetrachloro-m-xylene	90		30-150	B
Decachlorobiphenyl	125		30-150	B

Project Name: FRANKFURT REMEDIATION
Project Number: UT5520
Lab Number: L2054247
Report Date: 12/15/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 12/11/20 10:48
Analyst: JJW

Extraction Method: EPA 3546
Extraction Date: 12/10/20 01:51
Cleanup Method: EPA 3620B
Cleanup Date: 12/11/20

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01 Batch: WG1443145-1						
Delta-BHC	ND		ug/kg	1.52	0.297	A
Lindane	ND		ug/kg	0.631	0.282	A
Alpha-BHC	ND		ug/kg	0.631	0.179	A
Beta-BHC	ND		ug/kg	1.52	0.574	A
Heptachlor	ND		ug/kg	0.758	0.340	A
Aldrin	ND		ug/kg	1.52	0.533	A
Heptachlor epoxide	ND		ug/kg	2.84	0.852	A
Endrin	ND		ug/kg	0.631	0.259	A
Endrin aldehyde	ND		ug/kg	1.89	0.663	A
Endrin ketone	ND		ug/kg	1.52	0.390	A
Dieldrin	ND		ug/kg	0.947	0.473	A
4,4'-DDE	ND		ug/kg	1.52	0.350	A
4,4'-DDD	ND		ug/kg	1.52	0.540	A
4,4'-DDT	ND		ug/kg	2.84	1.22	A
Endosulfan I	ND		ug/kg	1.52	0.358	A
Endosulfan II	ND		ug/kg	1.52	0.506	A
Endosulfan sulfate	ND		ug/kg	0.631	0.300	A
Methoxychlor	ND		ug/kg	2.84	0.884	A
Toxaphene	ND		ug/kg	28.4	7.95	A
cis-Chlordane	ND		ug/kg	1.89	0.528	A
trans-Chlordane	ND		ug/kg	1.89	0.500	A
Chlordane	ND		ug/kg	12.6	5.02	A

Project Name: FRANKFURT REMEDIATION
Project Number: UT5520
Lab Number: L2054247
Report Date: 12/15/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 12/11/20 10:48
Analyst: JJW

Extraction Method: EPA 3546
Extraction Date: 12/10/20 01:51
Cleanup Method: EPA 3620B
Cleanup Date: 12/11/20

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01 Batch: WG1443145-1						

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	77		30-150	A
Decachlorobiphenyl	75		30-150	A
2,4,5,6-Tetrachloro-m-xylene	78		30-150	B
Decachlorobiphenyl	100		30-150	B

Lab Control Sample Analysis
Batch Quality Control

Project Name: FRANKFURT REMEDIATION
Project Number: UT5520
Lab Number: L2054247
Report Date: 12/15/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 04 Batch: WG1442892-2 WG1442892-3									
Delta-BHC	102		108		30-150	6		30	A
Lindane	102		108		30-150	6		30	A
Alpha-BHC	111		120		30-150	8		30	A
Beta-BHC	113		104		30-150	8		30	A
Heptachlor	101		112		30-150	10		30	A
Aldrin	88		89		30-150	1		30	A
Heptachlor epoxide	92		109		30-150	17		30	A
Endrin	100		116		30-150	15		30	A
Endrin aldehyde	86		101		30-150	16		30	A
Endrin ketone	95		108		30-150	13		30	A
Dieldrin	103		110		30-150	7		30	A
4,4'-DDE	93		116		30-150	22		30	A
4,4'-DDD	110		118		30-150	7		30	A
4,4'-DDT	104		114		30-150	9		30	A
Endosulfan I	98		109		30-150	11		30	A
Endosulfan II	101		118		30-150	16		30	A
Endosulfan sulfate	102		116		30-150	13		30	A
Methoxychlor	103		110		30-150	7		30	A
cis-Chlordane	96		118		30-150	21		30	A
trans-Chlordane	94		114		30-150	19		30	A

Lab Control Sample Analysis
Batch Quality Control

Project Name: FRANKFURT REMEDIATION
Project Number: UT5520

Lab Number: L2054247
Report Date: 12/15/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 04 Batch: WG1442892-2 WG1442892-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	101		104		30-150	A
Decachlorobiphenyl	105		113		30-150	A
2,4,5,6-Tetrachloro-m-xylene	89		93		30-150	B
Decachlorobiphenyl	118		134		30-150	B

Lab Control Sample Analysis
Batch Quality Control

Project Name: FRANKFURT REMEDIATION
Project Number: UT5520

Lab Number: L2054247
Report Date: 12/15/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01 Batch: WG1443145-2 WG1443145-3									
Delta-BHC	64		71		30-150	10		30	A
Lindane	65		72		30-150	10		30	A
Alpha-BHC	71		78		30-150	9		30	A
Beta-BHC	74		80		30-150	8		30	A
Heptachlor	66		72		30-150	9		30	A
Aldrin	55		67		30-150	20		30	A
Heptachlor epoxide	58		67		30-150	14		30	A
Endrin	59		70		30-150	17		30	A
Endrin aldehyde	46		48		30-150	4		30	A
Endrin ketone	57		60		30-150	5		30	A
Dieldrin	62		72		30-150	15		30	A
4,4'-DDE	57		67		30-150	16		30	A
4,4'-DDD	64		77		30-150	18		30	A
4,4'-DDT	60		74		30-150	21		30	A
Endosulfan I	61		70		30-150	14		30	A
Endosulfan II	59		68		30-150	14		30	A
Endosulfan sulfate	58		59		30-150	2		30	A
Methoxychlor	62		71		30-150	14		30	A
cis-Chlordane	62		72		30-150	15		30	A
trans-Chlordane	59		68		30-150	14		30	A

Lab Control Sample Analysis
Batch Quality Control

Project Name: FRANKFURT REMEDIATION
Project Number: UT5520

Lab Number: L2054247
Report Date: 12/15/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01 Batch: WG1443145-2 WG1443145-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	73		77		30-150	A
Decachlorobiphenyl	72		87		30-150	A
2,4,5,6-Tetrachloro-m-xylene	71		76		30-150	B
Decachlorobiphenyl	97		115		30-150	B

METALS

Project Name: FRANKFURT REMEDIATION **Lab Number:** L2054247

Project Number: UT5520 **Report Date:** 12/15/20

SAMPLE RESULTS

Lab ID: L2054247-01 Date Collected: 12/03/20 13:45

Client ID: LIETZ PIT STOCKPILE-TOPSOIL Date Received: 12/04/20

Sample Location: Not Specified Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 81%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	10600		mg/kg	9.69	2.62	2	12/11/20 09:55	12/12/20 11:59	EPA 3050B	1,6010D	GD
Antimony, Total	0.669	J	mg/kg	4.84	0.368	2	12/11/20 09:55	12/12/20 11:59	EPA 3050B	1,6010D	GD
Arsenic, Total	14.7		mg/kg	0.969	0.202	2	12/11/20 09:55	12/12/20 11:59	EPA 3050B	1,6010D	GD
Barium, Total	64.7		mg/kg	0.969	0.169	2	12/11/20 09:55	12/12/20 11:59	EPA 3050B	1,6010D	GD
Beryllium, Total	0.484		mg/kg	0.484	0.032	2	12/11/20 09:55	12/12/20 11:59	EPA 3050B	1,6010D	GD
Cadmium, Total	0.833	J	mg/kg	0.969	0.095	2	12/11/20 09:55	12/12/20 11:59	EPA 3050B	1,6010D	GD
Calcium, Total	6270		mg/kg	9.69	3.39	2	12/11/20 09:55	12/12/20 11:59	EPA 3050B	1,6010D	GD
Chromium, Total	14.0		mg/kg	0.969	0.093	2	12/11/20 09:55	12/12/20 11:59	EPA 3050B	1,6010D	GD
Cobalt, Total	8.72		mg/kg	1.94	0.161	2	12/11/20 09:55	12/12/20 11:59	EPA 3050B	1,6010D	GD
Copper, Total	24.0		mg/kg	0.969	0.250	2	12/11/20 09:55	12/12/20 11:59	EPA 3050B	1,6010D	GD
Iron, Total	24100		mg/kg	4.84	0.875	2	12/11/20 09:55	12/12/20 11:59	EPA 3050B	1,6010D	GD
Lead, Total	19.4		mg/kg	4.84	0.260	2	12/11/20 09:55	12/12/20 11:59	EPA 3050B	1,6010D	GD
Magnesium, Total	3490		mg/kg	9.69	1.49	2	12/11/20 09:55	12/12/20 11:59	EPA 3050B	1,6010D	GD
Manganese, Total	949		mg/kg	0.969	0.154	2	12/11/20 09:55	12/12/20 11:59	EPA 3050B	1,6010D	GD
Mercury, Total	ND		mg/kg	0.078	0.051	1	12/11/20 11:20	12/11/20 15:33	EPA 7471B	1,7471B	VW
Nickel, Total	15.6		mg/kg	2.42	0.234	2	12/11/20 09:55	12/12/20 11:59	EPA 3050B	1,6010D	GD
Potassium, Total	446		mg/kg	242	14.0	2	12/11/20 09:55	12/12/20 11:59	EPA 3050B	1,6010D	GD
Selenium, Total	1.11	J	mg/kg	1.94	0.250	2	12/11/20 09:55	12/12/20 11:59	EPA 3050B	1,6010D	GD
Silver, Total	ND		mg/kg	0.969	0.274	2	12/11/20 09:55	12/12/20 11:59	EPA 3050B	1,6010D	GD
Sodium, Total	27.6	J	mg/kg	194	3.05	2	12/11/20 09:55	12/12/20 11:59	EPA 3050B	1,6010D	GD
Thallium, Total	0.795	J	mg/kg	1.94	0.305	2	12/11/20 09:55	12/12/20 11:59	EPA 3050B	1,6010D	GD
Vanadium, Total	19.6		mg/kg	0.969	0.197	2	12/11/20 09:55	12/12/20 11:59	EPA 3050B	1,6010D	GD
Zinc, Total	82.0		mg/kg	4.84	0.284	2	12/11/20 09:55	12/12/20 11:59	EPA 3050B	1,6010D	GD

Project Name: FRANKFURT REMEDIATION **Lab Number:** L2054247

Project Number: UT5520 **Report Date:** 12/15/20

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01,04 Batch: WG1443613-1										
Aluminum, Total	ND		mg/kg	4.00	1.08	1	12/11/20 09:55	12/12/20 10:38	1,6010D	GD
Antimony, Total	ND		mg/kg	2.00	0.152	1	12/11/20 09:55	12/12/20 10:38	1,6010D	GD
Arsenic, Total	ND		mg/kg	0.400	0.083	1	12/11/20 09:55	12/12/20 10:38	1,6010D	GD
Barium, Total	ND		mg/kg	0.400	0.070	1	12/11/20 09:55	12/12/20 10:38	1,6010D	GD
Beryllium, Total	ND		mg/kg	0.200	0.013	1	12/11/20 09:55	12/12/20 10:38	1,6010D	GD
Cadmium, Total	ND		mg/kg	0.400	0.039	1	12/11/20 09:55	12/12/20 10:38	1,6010D	GD
Calcium, Total	ND		mg/kg	4.00	1.40	1	12/11/20 09:55	12/12/20 10:38	1,6010D	GD
Chromium, Total	0.120	J	mg/kg	0.400	0.038	1	12/11/20 09:55	12/12/20 10:38	1,6010D	GD
Cobalt, Total	ND		mg/kg	0.800	0.066	1	12/11/20 09:55	12/12/20 10:38	1,6010D	GD
Copper, Total	ND		mg/kg	0.400	0.103	1	12/11/20 09:55	12/12/20 10:38	1,6010D	GD
Iron, Total	1.18	J	mg/kg	2.00	0.361	1	12/11/20 09:55	12/12/20 10:38	1,6010D	GD
Lead, Total	ND		mg/kg	2.00	0.107	1	12/11/20 09:55	12/12/20 10:38	1,6010D	GD
Magnesium, Total	ND		mg/kg	4.00	0.616	1	12/11/20 09:55	12/12/20 10:38	1,6010D	GD
Manganese, Total	ND		mg/kg	0.400	0.064	1	12/11/20 09:55	12/12/20 10:38	1,6010D	GD
Nickel, Total	ND		mg/kg	1.00	0.097	1	12/11/20 09:55	12/12/20 10:38	1,6010D	GD
Potassium, Total	ND		mg/kg	100	5.76	1	12/11/20 09:55	12/12/20 10:38	1,6010D	GD
Selenium, Total	ND		mg/kg	0.800	0.103	1	12/11/20 09:55	12/12/20 10:38	1,6010D	GD
Silver, Total	ND		mg/kg	0.400	0.113	1	12/11/20 09:55	12/12/20 10:38	1,6010D	GD
Sodium, Total	ND		mg/kg	80.0	1.26	1	12/11/20 09:55	12/12/20 10:38	1,6010D	GD
Thallium, Total	ND		mg/kg	0.800	0.126	1	12/11/20 09:55	12/12/20 10:38	1,6010D	GD
Vanadium, Total	ND		mg/kg	0.400	0.081	1	12/11/20 09:55	12/12/20 10:38	1,6010D	GD
Zinc, Total	ND		mg/kg	2.00	0.117	1	12/11/20 09:55	12/12/20 10:38	1,6010D	GD

Prep Information

Digestion Method: EPA 3050B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01,04 Batch: WG1443616-1										
Mercury, Total	ND		mg/kg	0.083	0.054	1	12/11/20 11:20	12/11/20 14:50	1,7471B	VW

Project Name: FRANKFURT REMEDIATION **Lab Number:** L2054247

Project Number: UT5520 **Report Date:** 12/15/20

Method Blank Analysis
Batch Quality Control

Prep Information

Digestion Method: EPA 7471B

Lab Control Sample Analysis
Batch Quality Control

Project Name: FRANKFURT REMEDIATION
Project Number: UT5520

Lab Number: L2054247
Report Date: 12/15/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01,04 Batch: WG1443613-2 SRM Lot Number: D109-540								
Aluminum, Total	67		-		50-150	-		
Antimony, Total	160		-		19-250	-		
Arsenic, Total	106		-		70-130	-		
Barium, Total	89		-		75-125	-		
Beryllium, Total	92		-		75-125	-		
Cadmium, Total	104		-		75-125	-		
Calcium, Total	89		-		73-128	-		
Chromium, Total	95		-		70-130	-		
Cobalt, Total	105		-		75-125	-		
Copper, Total	99		-		75-125	-		
Iron, Total	91		-		35-165	-		
Lead, Total	101		-		72-128	-		
Magnesium, Total	85		-		62-138	-		
Manganese, Total	94		-		74-126	-		
Nickel, Total	103		-		70-130	-		
Potassium, Total	83		-		59-141	-		
Selenium, Total	104		-		68-132	-		
Silver, Total	100		-		68-131	-		
Sodium, Total	100		-		35-165	-		
Thallium, Total	105		-		68-131	-		
Vanadium, Total	95		-		59-141	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: FRANKFURT REMEDIATION

Project Number: UT5520

Lab Number: L2054247

Report Date: 12/15/20

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01,04 Batch: WG1443613-2 SRM Lot Number: D109-540					
Zinc, Total	102	-	70-130	-	
Total Metals - Mansfield Lab Associated sample(s): 01,04 Batch: WG1443616-2 SRM Lot Number: D109-540					
Mercury, Total	111	-	60-140	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: FRANKFURT REMEDIATION
Project Number: UT5520

Lab Number: L2054247
Report Date: 12/15/20

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01,04	QC Batch ID: WG1443613-3		QC Sample: L2054053-01		Client ID: MS Sample							
Aluminum, Total	10200	182	10700	**275**	Q	-	-		75-125	-		20
Antimony, Total	0.328J	45.5	28.9	**64**	Q	-	-		75-125	-		20
Arsenic, Total	5.96	10.9	13.7	**71**	Q	-	-		75-125	-		20
Barium, Total	101	182	234	**73**	Q	-	-		75-125	-		20
Beryllium, Total	0.840	4.55	4.13	**72**	Q	-	-		75-125	-		20
Cadmium, Total	0.566	4.64	3.68	**67**	Q	-	-		75-125	-		20
Calcium, Total	1180	910	2020	92		-	-		75-125	-		20
Chromium, Total	20.4	18.2	31.8	**63**	Q	-	-		75-125	-		20
Cobalt, Total	11.6	45.5	40.0	**62**	Q	-	-		75-125	-		20
Copper, Total	53.7	22.7	69.5	**69**	Q	-	-		75-125	-		20
Iron, Total	19400	91	19100	**0**	Q	-	-		75-125	-		20
Lead, Total	11.1	46.4	40.5	**63**	Q	-	-		75-125	-		20
Magnesium, Total	3990	910	4340	**38**	Q	-	-		75-125	-		20
Manganese, Total	557	45.5	524	**0**	Q	-	-		75-125	-		20
Nickel, Total	19.2	45.5	45.8	**58**	Q	-	-		75-125	-		20
Potassium, Total	581	910	1380	88		-	-		75-125	-		20
Selenium, Total	0.373J	10.9	7.42	**68**	Q	-	-		75-125	-		20
Silver, Total	ND	27.3	19.9	**73**	Q	-	-		75-125	-		20
Sodium, Total	96.5	910	777	75		-	-		75-125	-		20
Thallium, Total	ND	10.9	6.60	**60**	Q	-	-		75-125	-		20
Vanadium, Total	24.1	45.5	53.2	**64**	Q	-	-		75-125	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: FRANKFURT REMEDIATION
Project Number: UT5520

Lab Number: L2054247
Report Date: 12/15/20

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01,04 QC Batch ID: WG1443613-3 QC Sample: L2054053-01 Client ID: MS Sample										
Zinc, Total	41.1	45.5	70.1	**64**	Q	-	-	75-125	-	20
Total Metals - Mansfield Lab Associated sample(s): 01,04 QC Batch ID: WG1443616-3 QC Sample: L2054311-01 Client ID: MS Sample										
Mercury, Total	0.062J	0.185	0.254	**137**	Q	-	-	80-120	-	20

Lab Duplicate Analysis

Batch Quality Control

Project Name: FRANKFURT REMEDIATION
Project Number: UT5520

Lab Number: L2054247
Report Date: 12/15/20

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01,04 QC Batch ID: WG1443613-4 QC Sample: L2054053-01 Client ID: DUP Sample						
Arsenic, Total	5.96	5.41	mg/kg	10		20
Total Metals - Mansfield Lab Associated sample(s): 01,04 QC Batch ID: WG1443616-4 QC Sample: L2054311-01 Client ID: DUP Sample						
Mercury, Total	0.062J	0.064J	mg/kg	NC		20

INORGANICS
&
MISCELLANEOUS

Project Name: FRANKFURT REMEDIATION
Project Number: UT5520
Lab Number: L2054247
Report Date: 12/15/20

SAMPLE RESULTS

Lab ID: L2054247-01
Client ID: LIETZ PIT STOCKPILE-TOPSOIL
Sample Location: Not Specified
Sample Depth:
Matrix: Soil
Date Collected: 12/03/20 13:45
Date Received: 12/04/20
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	81.0		%	0.100	NA	1	-	12/08/20 14:17	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.2	0.25	1	12/15/20 12:50	12/15/20 15:58	1,9010C/9012B	CR
Chromium, Hexavalent	ND		mg/kg	0.988	0.198	1	12/12/20 15:15	12/13/20 21:30	1,7196A	JT

Project Name: FRANKFURT REMEDIATION
Project Number: UT5520
Lab Number: L2054247
Report Date: 12/15/20

SAMPLE RESULTS

Lab ID: L2054247-02
Client ID: LIETZ PIT STOCKPILE-TOPSOIL
Sample Location: Not Specified
Sample Depth:
Matrix: Soil
Date Collected: 12/03/20 14:00
Date Received: 12/04/20
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	80.2		%	0.100	NA	1	-	12/09/20 13:48	121,2540G	RI

Project Name: FRANKFURT REMEDIATION
Project Number: UT5520
Lab Number: L2054247
Report Date: 12/15/20

SAMPLE RESULTS

Lab ID: L2054247-03
Client ID: LIETZ PIT STOCKPILE-TOPSOIL
Sample Location: Not Specified
Sample Depth:
Matrix: Soil
Date Collected: 12/03/20 14:08
Date Received: 12/04/20
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	85.0		%	0.100	NA	1	-	12/09/20 13:48	121,2540G	RI

Project Name: FRANKFURT REMEDIATION
Project Number: UT5520
Lab Number: L2054247
Report Date: 12/15/20

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG1444052-1										
Cyanide, Total	ND		mg/kg	0.92	0.19	1	12/15/20 12:50	12/15/20 15:50	1,9010C/9012B	CR
General Chemistry - Westborough Lab for sample(s): 01,04 Batch: WG1444282-1										
Chromium, Hexavalent	ND		mg/kg	0.800	0.160	1	12/12/20 15:15	12/13/20 21:30	1,7196A	JT

Lab Control Sample Analysis
Batch Quality Control

Project Name: FRANKFURT REMEDIATION
Project Number: UT5520

Lab Number: L2054247
Report Date: 12/15/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1444052-2 WG1444052-3								
Cyanide, Total	**75**	Q	82		80-120	10		35
General Chemistry - Westborough Lab Associated sample(s): 01,04 Batch: WG1444282-2								
Chromium, Hexavalent	93		-		80-120	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: FRANKFURT REMEDIATION
Project Number: UT5520

Lab Number: L2054247
Report Date: 12/15/20

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1444052-4 WG1444052-5 QC Sample: L2054605-01 Client ID: MS Sample												
Cyanide, Total	ND	11	11	100		10	98		75-125	10		35
General Chemistry - Westborough Lab Associated sample(s): 01,04 QC Batch ID: WG1444282-4 QC Sample: L2054247-01 Client ID: LIETZ PIT STOCKPILE-TOPSOIL												
Chromium, Hexavalent	ND	1700	2010	118		-	-		75-125	-		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: FRANKFURT REMEDIATION
Project Number: UT5520

Lab Number: L2054247
Report Date: 12/15/20

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1442227-1 QC Sample: L2054045-01 Client ID: DUP Sample						
Solids, Total	85.8	85.8	%	0		20
General Chemistry - Westborough Lab Associated sample(s): 04 QC Batch ID: WG1442785-1 QC Sample: L2054637-01 Client ID: DUP Sample						
Solids, Total	91.3	91.7	%	0		20
General Chemistry - Westborough Lab Associated sample(s): 02-03,05-06 QC Batch ID: WG1442914-1 QC Sample: L2054703-01 Client ID: DUP Sample						
Solids, Total	79.0	79.0	%	0		20
General Chemistry - Westborough Lab Associated sample(s): 01,04 QC Batch ID: WG1444282-6 QC Sample: L2054247-01 Client ID: LIETZ PIT STOCKPILE-TOPSOIL						
Chromium, Hexavalent	ND	ND	mg/kg	NC		20

Project Name: FRANKFURT REMEDIATION
Project Number: UT5520

Lab Number: L2054247
Report Date: 12/15/20

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2054247-01A	Plastic 2oz unpreserved for TS	A	NA		3.6	Y	Absent		TS(7)
L2054247-01B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.6	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),PB-TI(180),ZN-TI(180),CU-TI(180),SB-TI(180),SE-TI(180),CO-TI(180),V-TI(180),HG-T(28),FE-TI(180),MG-TI(180),MN-TI(180),NA-TI(180),CA-TI(180),CD-TI(180),K-TI(180)
L2054247-01C	Glass 120ml/4oz unpreserved	A	NA		3.6	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L2054247-01D	Glass 120ml/4oz unpreserved	A	NA		3.6	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L2054247-01E	Glass 250ml/8oz unpreserved	A	NA		3.6	Y	Absent		NYTCL-8270(14),TCN-9010(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L2054247-02A	Vial Large Septa unpreserved (4oz)	A	NA		3.6	Y	Absent		TS(7),NYTCL-8260(14)
L2054247-02X	Vial MeOH preserved split	A	NA		3.6	Y	Absent		NYTCL-8260(14)
L2054247-02Y	Vial Water preserved split	A	NA		3.6	Y	Absent	**09-DEC-20 11:35**	NYTCL-8260(14)
L2054247-02Z	Vial Water preserved split	A	NA		3.6	Y	Absent	**09-DEC-20 11:35**	NYTCL-8260(14)
L2054247-03A	Vial Large Septa unpreserved (4oz)	A	NA		3.6	Y	Absent		TS(7),NYTCL-8260(14)
L2054247-03X	Vial MeOH preserved split	A	NA		3.6	Y	Absent		NYTCL-8260(14)
L2054247-03Y	Vial Water preserved split	A	NA		3.6	Y	Absent	**09-DEC-20 11:35**	NYTCL-8260(14)
L2054247-03Z	Vial Water preserved split	A	NA		3.6	Y	Absent	**09-DEC-20 11:35**	NYTCL-8260(14)
L2054247-04A	Plastic 2oz unpreserved for TS	A	NA		3.6	Y	Absent		TS(7)
L2054247-04B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.6	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),TL-TI(180),CR-TI(180),NI-TI(180),AL-TI(180),CU-TI(180),SE-TI(180),ZN-TI(180),PB-TI(180),SB-TI(180),V-TI(180),CO-TI(180),HG-T(28),FE-TI(180),MN-TI(180),MG-TI(180),NA-TI(180),CA-TI(180),K-TI(180),CD-TI(180)
L2054247-04C	Glass 120ml/4oz unpreserved	A	NA		3.6	Y	Absent		NYTCL-8270(14),NYTCL-8081(14),HEXCR-7196(30)

*Values in parentheses indicate holding time in days

Project Name: FRANKFURT REMEDIATION
Project Number: UT5520

Lab Number: L2054247
Report Date: 12/15/20

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2054247-04D	Glass 120ml/4oz unpreserved	A	NA		3.6	Y	Absent		NYTCL-8270(14),NYTCL-8081(14),HEXCR-7196(30)
L2054247-04E	Glass 250ml/8oz unpreserved	A	NA		3.6	Y	Absent		NYTCL-8270(14),NYTCL-8081(14),HEXCR-7196(30)
L2054247-05A	Vial Large Septa unpreserved (4oz)	A	NA		3.6	Y	Absent		TS(7),NYTCL-8260(14)
L2054247-05X	Vial MeOH preserved split	A	NA		3.6	Y	Absent		NYTCL-8260(14)
L2054247-05Y	Vial Water preserved split	A	NA		3.6	Y	Absent	**09-DEC-20 11:35**	NYTCL-8260(14)
L2054247-05Z	Vial Water preserved split	A	NA		3.6	Y	Absent	**09-DEC-20 11:35**	NYTCL-8260(14)
L2054247-06A	Vial Large Septa unpreserved (4oz)	A	NA		3.6	Y	Absent		TS(7),NYTCL-8260(14)
L2054247-06X	Vial MeOH preserved split	A	NA		3.6	Y	Absent		NYTCL-8260(14)
L2054247-06Y	Vial Water preserved split	A	NA		3.6	Y	Absent	**09-DEC-20 11:35**	NYTCL-8260(14)
L2054247-06Z	Vial Water preserved split	A	NA		3.6	Y	Absent	**09-DEC-20 11:35**	NYTCL-8260(14)

*Values in parentheses indicate holding time in days

Project Name:	FRANKFURT REMEDIATION	**Lab Number:**	L2054247
Project Number:	UT5520	**Report Date:**	12/15/20

GLOSSARY

Acronyms

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

NR - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers

Project Name:	FRANKFURT REMEDIATION	**Lab Number:**	L2054247
Project Number:	UT5520	**Report Date:**	12/15/20

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. (Note: 'PFAS, Total (6)' is applicable to MassDEP DW compliance analysis only.). If a 'Total' result is requested, the results of its individual components will also be reported.

The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers

Project Name:	FRANKFURT REMEDIATION	**Lab Number:**	L2054247
Project Number:	UT5520	**Report Date:**	12/15/20

Data Qualifiers

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

Report Format: DU Report with 'J' Qualifiers

Project Name:	FRANKFURT REMEDIATION	**Lab Number:**	L2054247
Project Number:	UT5520	**Report Date:**	12/15/20

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624/624.1: m/p-xylene, o-xylene, Naphthalene
EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
EPA TO-12 Non-methane organics
EPA 3C Fixed gases
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb**,** As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

ANALYTICAL REPORT

Lab Number:	L2100592
Client:	Environmental Waste Minimization, Inc. 14 Brick Kiln Ct. Northampton, PA 18067
ATTN:	Joel Baier
Phone:	(484) 275-6909
Project Name:	TETRA TECH
Project Number:	116375
Report Date:	01/19/21

Certifications & Approvals: MA (M-MA030), NH NELAP (2062), CT (PH-0141), DoD (L2474), FL (E87814), IL (200081), LA (85084), ME (MA00030), MD (350), NJ (MA015), NY (11627), NC (685), OH (CL106), PA (68-02089), RI (LAO00299), TX (T104704419), VT (VT-0015), VA (460194), WA (C954), US Army Corps of Engineers, USDA (Permit #P330-17-00150), USFWS (Permit #206964).

320 Forbes Boulevard, Mansfield, MA 02048-1806
508-822-9300 (Fax) 508-822-3288 800-624-9220 - www.alphalab.com

Project Name: TETRA TECH
Project Number: 116375

Lab Number: L2100592
Report Date: 01/19/21

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2100592-01	1 COMP	SOIL	253 EAST MAIN STREET FRANKFURT, NY 13340	01/06/21 11:30	01/06/21

Project Name:	TETRA TECH	**Lab Number:**	L2100592
Project Number:	116375	**Report Date:**	01/19/21

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name:	TETRA TECH	**Lab Number:**	L2100592
Project Number:	116375	**Report Date:**	01/19/21

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Susan E O'Neil Susan O' Neil

Title: Technical Director/Representative Date: 01/19/21

ORGANICS

SEMIVOLATILES

Project Name: TETRA TECH
Project Number: 116375
Lab Number: L2100592
Report Date: 01/19/21

SAMPLE RESULTS

Lab ID: L2100592-01
Client ID: 1 COMP
Sample Location: 253 EAST MAIN STREET FRANKFURT, NY 13340

Date Collected: 01/06/21 11:30
Date Received: 01/06/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D-SIM
Analytical Date: 01/16/21 04:22
Analyst: PS
Percent Solids: 82%

Extraction Method: EPA 3570
Extraction Date: 01/13/21 11:33

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270D-SIM - Mansfield Lab						
1,4-Dioxane	ND		ug/kg	8.64	2.20	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,4-Dioxane-d8	89		15-110

Project Name: TETRA TECH
Project Number: 116375
Lab Number: L2100592
Report Date: 01/19/21

SAMPLE RESULTS

Lab ID: L2100592-01
Client ID: 1 COMP
Sample Location: 253 EAST MAIN STREET FRANKFURT, NY 13340
Date Collected: 01/06/21 11:30
Date Received: 01/06/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 01/11/21 07:26
Analyst: HT
Percent Solids: 82%

Extraction Method: ALPHA 23528
Extraction Date: 01/10/21 11:10

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	0.044	J	ng/g	0.558	0.025	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.558	0.051	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.279	0.044	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.558	0.059	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.279	0.050	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.279	0.068	1
Perfluorooctanoic Acid (PFOA)	0.119	J	ng/g	0.279	0.047	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.558	0.200	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.558	0.152	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.279	0.084	1
Perfluorooctanesulfonic Acid (PFOS)	0.549		ng/g	0.279	0.145	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.279	0.075	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.558	0.320	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.558	0.225	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.558	0.052	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.558	0.171	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.558	0.109	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.558	0.094	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.558	0.078	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.558	0.228	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.558	0.060	1
PFOA/PFOS, Total	0.668	J	ng/g	0.279	0.047	1

Project Name: TETRA TECH **Lab Number:** L2100592

Project Number: 116375 **Report Date:** 01/19/21

SAMPLE RESULTS

Lab ID: L2100592-01 Date Collected: 01/06/21 11:30

Client ID: 1 COMP Date Received: 01/06/21

Sample Location: 253 EAST MAIN STREET FRANKFURT, NY 13340 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	97		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	119		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	117		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	111		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	102		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	100		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	95		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	88		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	102		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	100		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	96		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	99		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	61		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	98		61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	10		10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	48		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	82		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	49		24-159

Project Name: TETRA TECH
Project Number: 116375

Lab Number: L2100592
Report Date: 01/19/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 01/11/21 05:30
Analyst: HT

Extraction Method: ALPHA 23528
Extraction Date: 01/10/21 11:10

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 01 Batch: WG1453444-1					
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.500	0.023
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.500	0.046
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.250	0.039
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.500	0.053
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.250	0.045
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.250	0.061
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.250	0.042
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.500	0.180
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.500	0.136
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.250	0.075
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.250	0.130
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.250	0.067
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.500	0.287
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.500	0.202
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.500	0.047
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.500	0.153
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.500	0.098
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.500	0.085
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.500	0.070
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.500	0.204
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.500	0.054
PFOA/PFOS, Total	ND		ng/g	0.250	0.042

Project Name: TETRA TECH
Project Number: 116375

Lab Number: L2100592
Report Date: 01/19/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 01/11/21 05:30
Analyst: HT

Extraction Method: ALPHA 23528
Extraction Date: 01/10/21 11:10

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 01 Batch: WG1453444-1					

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	111		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	141		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	132		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	123		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	116		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	122		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	113		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	86		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	121		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	119		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	111		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	107		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	88		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	115		61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	37		10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	80		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	88		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	102		24-159

Project Name: TETRA TECH
Project Number: 116375

Lab Number: L2100592
Report Date: 01/19/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 01/11/21 17:23
Analyst: RS

Extraction Method: ALPHA 23528
Extraction Date: 01/10/21 11:10

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 01 Batch: WG1453444-1					
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.500	0.098

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	75		10-117

Project Name: TETRA TECH
Project Number: 116375

Lab Number: L2100592
Report Date: 01/19/21

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 01/15/21 15:54
Analyst: PS

Extraction Method: EPA 3570
Extraction Date: 01/13/21 11:33

Parameter	Result	Qualifier	Units	RL	MDL
1,4 Dioxane by 8270D-SIM - Mansfield Lab for sample(s): 01 Batch: WG1454537-1					
1,4-Dioxane	ND		ug/kg	8.00	2.04

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,4-Dioxane-d8	96		15-110

Lab Control Sample Analysis
Batch Quality Control

Project Name: TETRA TECH
Project Number: 116375

Lab Number: L2100592
Report Date: 01/19/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01 Batch: WG1453444-2								
Perfluorobutanoic Acid (PFBA)	94		-		71-135	-		30
Perfluoropentanoic Acid (PFPeA)	88		-		69-132	-		30
Perfluorobutanesulfonic Acid (PFBS)	91		-		72-128	-		30
Perfluorohexanoic Acid (PFHxA)	93		-		70-132	-		30
Perfluoroheptanoic Acid (PFHpA)	91		-		71-131	-		30
Perfluorohexanesulfonic Acid (PFHxS)	101		-		67-130	-		30
Perfluorooctanoic Acid (PFOA)	92		-		69-133	-		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	95		-		64-140	-		30
Perfluoroheptanesulfonic Acid (PFHpS)	93		-		70-132	-		30
Perfluorononanoic Acid (PFNA)	91		-		72-129	-		30
Perfluorooctanesulfonic Acid (PFOS)	94		-		68-136	-		30
Perfluorodecanoic Acid (PFDA)	94		-		69-133	-		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	119		-		65-137	-		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	88		-		63-144	-		30
Perfluoroundecanoic Acid (PFUnA)	87		-		64-136	-		30
Perfluorodecanesulfonic Acid (PFDS)	93		-		59-134	-		30
Perfluorooctanesulfonamide (FOSA)	90		-		67-137	-		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	103		-		61-139	-		30
Perfluorododecanoic Acid (PFDoA)	102		-		69-135	-		30
Perfluorotridecanoic Acid (PFTrDA)	110		-		66-139	-		30
Perfluorotetradecanoic Acid (PFTA)	97		-		69-133	-		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: TETRA TECH
Project Number: 116375
Lab Number: L2100592
Report Date: 01/19/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01 Batch: WG1453444-2								

Surrogate (Extracted Internal Standard)	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	109				61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	141				58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	122				74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	120				66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	116				71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	105				78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	111				75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	90				20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	120				72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	112				79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	110				75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	93				19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	96				31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	119				61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	36				10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	78				34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	96				54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	97				24-159

Lab Control Sample Analysis
Batch Quality Control

Project Name: TETRA TECH
Project Number: 116375

Lab Number: L2100592
Report Date: 01/19/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01 Batch: WG1453444-2								
Perfluorooctanesulfonamide (FOSA)	103		-		67-137	-		30

Surrogate (Extracted Internal Standard)	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	76				10-117

Lab Control Sample Analysis

Batch Quality Control

Project Name: TETRA TECH
Project Number: 116375

Lab Number: L2100592
Report Date: 01/19/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
1,4 Dioxane by 8270D-SIM - Mansfield Lab Associated sample(s): 01 Batch: WG1454537-2 WG1454537-3								
1,4-Dioxane	114		113		40-140	1		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,4-Dioxane-d8	90		88		15-110

INORGANICS
&
MISCELLANEOUS

Project Name: TETRA TECH
Project Number: 116375

Lab Number: L2100592
Report Date: 01/19/21

SAMPLE RESULTS

Lab ID: L2100592-01
Client ID: 1 COMP
Sample Location: 253 EAST MAIN STREET FRANKFURT, NY 13340

Date Collected: 01/06/21 11:30
Date Received: 01/06/21
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Mansfield Lab										
Solids, Total	81.8		%	0.100	0.100	1	-	01/13/21 10:47	121,2540G	AL

Lab Duplicate Analysis

Batch Quality Control

Project Name: TETRA TECH
Project Number: 116375

Lab Number: L2100592
Report Date: 01/19/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1454526-1 QC Sample: L2100592-01 Client ID: 1 COMP						
Solids, Total	81.8	82.3	%	1		10

Project Name: TETRA TECH
Project Number: 116375

Lab Number: L2100592
Report Date: 01/19/21

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2100592-01A	Glass 250ml/8oz unpreserved	A	NA		4.6	Y	Absent		A2-1,4-DIOXANE-SIM(14)
L2100592-01A1	Glass 250ml/8oz unpreserved	A	NA		4.6	Y	Absent		A2-1,4-DIOXANE-SIM(14)
L2100592-01B	Plastic 8oz unpreserved	A	NA		4.6	Y	Absent		A2-NY-537-ISOTOPE(14)
L2100592-01B1	Plastic 8oz unpreserved	A	NA		4.6	Y	Absent		A2-NY-537-ISOTOPE(14)
L2100592-01C	Plastic 2oz unpreserved for TS	A	NA		4.6	Y	Absent		A2-TS(7)
L2100592-01C1	Plastic 2oz unpreserved for TS	A	NA		4.6	Y	Absent		A2-TS(7)

*Values in parentheses indicate holding time in days

Project Name: TETRA TECH
Project Number: 116375

Lab Number: L2100592
Report Date: 01/19/21

PFAS PARAMETER SUMMARY

Parameter	Acronym	CAS Number
PERFLUOROALKYL CARBOXYLIC ACIDS (PFCAs)		
Perfluorooctadecanoic Acid	PFODA	16517-11-6
Perfluorohexadecanoic Acid	PFHxDA	67905-19-5
Perfluorotetradecanoic Acid	PFTA	376-06-7
Perfluorotridecanoic Acid	PFTrDA	72629-94-8
Perfluorododecanoic Acid	PFDoA	307-55-1
Perfluoroundecanoic Acid	PFUnA	2058-94-8
Perfluorodecanoic Acid	PFDA	335-76-2
Perfluorononanoic Acid	PFNA	375-95-1
Perfluorooctanoic Acid	PFOA	335-67-1
Perfluoroheptanoic Acid	PFHpA	375-85-9
Perfluorohexanoic Acid	PFHxA	307-24-4
Perfluoropentanoic Acid	PFPeA	2706-90-3
Perfluorobutanoic Acid	PFBA	375-22-4
PERFLUOROALKYL SULFONIC ACIDS (PFSAs)		
Perfluorododecanesulfonic Acid	PFDoDS	79780-39-5
Perfluorodecanesulfonic Acid	PFDS	335-77-3
Perfluorononanesulfonic Acid	PFNS	68259-12-1
Perfluorooctanesulfonic Acid	PFOS	1763-23-1
Perfluoroheptanesulfonic Acid	PFHpS	375-92-8
Perfluorohexanesulfonic Acid	PFHxS	355-46-4
Perfluoropentanesulfonic Acid	PFPeS	2706-91-4
Perfluorobutanesulfonic Acid	PFBS	375-73-5
FLUOROTELOMERS		
1H,1H,2H,2H-Perfluorododecanesulfonic Acid	10:2FTS	120226-60-0
1H,1H,2H,2H-Perfluorodecanesulfonic Acid	8:2FTS	39108-34-4
1H,1H,2H,2H-Perfluorooctanesulfonic Acid	6:2FTS	27619-97-2
1H,1H,2H,2H-Perfluorohexanesulfonic Acid	4:2FTS	757124-72-4
PERFLUOROALKANE SULFONAMIDES (FASAs)		
Perfluorooctanesulfonamide	FOSA	754-91-6
N-Ethyl Perfluorooctane Sulfonamide	NEtFOSA	4151-50-2
N-Methyl Perfluorooctane Sulfonamide	NMeFOSA	31506-32-8
PERFLUOROALKANE SULFONYL SUBSTANCES		
N-Ethyl Perfluorooctanesulfonamido Ethanol	NEtFOSE	1691-99-2
N-Methyl Perfluorooctanesulfonamido Ethanol	NMeFOSE	24448-09-7
N-Ethyl Perfluorooctanesulfonamidoacetic Acid	NEtFOSAA	2991-50-6
N-Methyl Perfluorooctanesulfonamidoacetic Acid	NMeFOSAA	2355-31-9
PER- and POLYFLUOROALKYL ETHER CARBOXYLIC ACIDS		
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Propanoic Acid	HFPO-DA	13252-13-6
4,8-Dioxa-3h-Perfluorononanoic Acid	ADONA	919005-14-4
CHLORO-PERFLUOROALKYL SULFONIC ACIDS		
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid	11Cl-PF3OUdS	763051-92-9
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid	9Cl-PF3ONS	756426-58-1
PERFLUOROETHER SULFONIC ACIDS (PFESAs)		
Perfluoro(2-Ethoxyethane)Sulfonic Acid	PFEESA	113507-82-7
PERFLUOROETHER/POLYETHER CARBOXYLIC ACIDS (PFPCAs)		
Perfluoro-3-Methoxypropanoic Acid	PFMPA	377-73-1
Perfluoro-4-Methoxybutanoic Acid	PFMBA	863090-89-5
Nonafluoro-3,6-Dioxaheptanoic Acid	NFDHA	151772-58-6

Project Name:	TETRA TECH	**Lab Number:**	L2100592
Project Number:	116375	**Report Date:**	01/19/21

GLOSSARY

Acronyms

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

NR - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers

Project Name:	TETRA TECH	**Lab Number:**	L2100592
Project Number:	116375	**Report Date:**	01/19/21

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. (Note: 'PFAS, Total (6)' is applicable to MassDEP DW compliance analysis only.). If a 'Total' result is requested, the results of its individual components will also be reported.

The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers

Project Name:	TETRA TECH	**Lab Number:**	L2100592
Project Number:	116375	**Report Date:**	01/19/21

Data Qualifiers

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

Report Format: DU Report with 'J' Qualifiers

Project Name: TETRA TECH
Project Number: 116375
Lab Number: L2100592
Report Date: 01/19/21

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

134 Determination of Selected Perfluorinated Alkyl Acids in Drinking Water by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS) using Isotope Dilution. Alpha SOP 23528.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624/624.1: m/p-xylene, o-xylene, Naphthalene
EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
EPA TO-12 Non-methane organics
EPA 3C Fixed gases
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

ALPHA

NEW YORK CHAIN OF CUSTODY

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page of

Date Rec'd in Lab: 1/7/21

ALPHA Job #: L2100592

Client Information

Client: EnviI
Address: 14 Brick Kiln court
Northampton, PA
Phone: 484-275-6900
Fax:
Email: JHorner@EnviI.com

Project Information

Project Name: Tetra tech
Project Location: 253 East main street Frankfort, NY 13340
Project #: 116375
(Use Project name as Project #)
Project Manager: Josh Horner
ALPHAQuote #:

Turn-Around Time

Standard: X
Rush (only if pre approved):
Due Date:
# of Days:

Deliverables

ASP-A
ASP-B
EQuIS (1 File)
EQuIS (4 File)
Other

Billing Information

Same as Client Info
PO #

Regulatory Requirement

NY TOGS
NY Part 375
AWQ Standards
NY CP-51
NY Restricted Use
Other
NY Unrestricted Use
NYC Sewer Discharge

Disposal Site Information

Please identify below location of applicable disposal facilities.
Disposal Facility:
NJ
NY
Other:

These samples have been previously analyzed by Alpha

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS

Sample Filtration
Done
Lab to do
Preservation
Lab to do
(Please Specify below)

Total Bottle

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Sample Specific Comments
592 -01	1 Comp	1/6	11:30		SH	

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

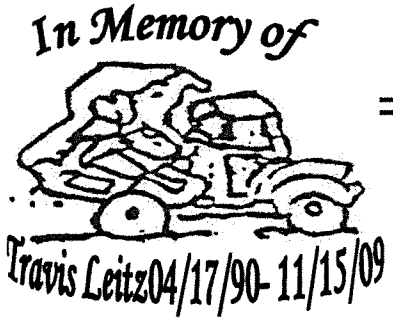
Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Container Type
Preservative

Relinquished By:	Date/Time	Received By:	Date/Time
	1/6/21 2:40	AAL M. Radziewski	1/6/21 14:40
Mike Rodgers	1/6/21 14:40		1/7/21 00:15
Wendy Downing	1/7/21 4:00		1/7/21 0430
AAL DHC	1/7/21 0530	DHC AAL	1/7/21 0530

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)



LEITZ TRUCKING CORP

162 McIntyre Road Suite C ~ Frankfort, N.Y. 13340
Phone #: (315) 724-5527

Licensed Producer of CU Structural Soil

NYS CERTIFIED WBE & DBE

Date Dec 1st 2020
Job : NYPO Frankfort NY
Attn : Doug
Comments: Virgin Source

From: John

Dec Permit # 60497

The proposed materials for the above named project are made from a DEC Permitted mine and are produced from a Virgin Source free from outside contaminates or hazardous waste.

General Manager
John Leitz Jr

Sincerely Sandy L Leitz
Owner Sandy L Leitz

Sincerely
Sales Manager

Number of pages (Including Cover 1

162 McIntyre Road Suite C ~ Frankfort, NY 13340 Phone(315)724-5527 Fax(315)735-1437
Sales Manager - sales@leitzgravel.com Owner - suleitz@leitzgravel.com

" We Move, Sell & Deliver the Earth "

CRUSHER RUN

RE: Former Union Fork and Hoe Site - Imported Stone Documentation

Bennett, William B (DEC) <william.bennett@dec.ny.gov>

Tue 1/5/2021 5:05 PM

To: Netuschil, Glenn <Glenn.Netuschil@tetratech.com>
Cc: dsweet <dsweet@ehs-strategy.com>; Ayyaswami, Arul <Arul.Ayyaswami@tetratech.com>; Herman, David A (DEC) <david.herman@dec.ny.gov>; Carpenter, Kevin J (DEC) <kevin.carpenter@dec.ny.gov>; Rys, Gregory A (HEALTH) <gregory.rys@health.ny.gov>

1 attachments (252 KB)

DER10 Imported Fill Form - UFH Crusher Stone_12-31-2020.pdf;

Dear Glenn,

The documentation for the crushed stone is acceptable.

The Department's construction inspector, Dave Herman, plans on visiting the site on Friday, January 8, 2020. Please confirm work will be performed on this date and provide a contact for Dave to meet at the site. Thanks.

Bill

William Bennett
Professional Engineer 1

New York State Department of Environmental Conservation
625 Broadway, Albany, NY 12233-7014
P: 518-402-9659 | F: 518-402-9679| william.bennett@dec.ny.gov

www.dec.ny.gov | |

From: Netuschil, Glenn <Glenn.Netuschil@tetratech.com>
Sent: Tuesday, January 5, 2021 4:33 PM
To: Bennett, William B (DEC) <william.bennett@dec.ny.gov>
Cc: dsweet <dsweet@ehs-strategy.com>; Ayyaswami, Arul <Arul.Ayyaswami@tetratech.com>
Subject: Re: Former Union Fork and Hoe Site - Imported Stone Documentation

Hi Bill,

Thank you for your timely review and response to the backfill documentation. We will collect one sample from the topsoil source for PFAS and 1,4-dioxane tomorrow (1-6-2021). For clarification, please confirm that the crusher stone backfill submission is deemed acceptable. I have attached the crusher

stone backfill documentation that has been secured to prevent editing as per your comment. We will place the demarcation layer and backfill with the crusher stone when the excavation is complete.

We are looking to mobilize to the Site tomorrow (1-6-2021) and perform the excavation work by the end of this week or on Monday, 1-11-2021. We anticipate that the PFAS and 1,4-dioxane results will be available in about 10 days. This schedule should coincide with the loading of the excavated soil for transportation and disposal as time is needed for waste characterization sampling and analysis, profiles and generation of manifests, etc. once we generate and sample the soil stockpiles. We will then place the topsoil at that time when we remobilize for the transportation and disposal of the soil.

Please let me know if you have any questions.

Thanks.

From: Bennett, William B (DEC) <william.bennett@dec.ny.gov>
Sent: Tuesday, January 5, 2021 9:57 AM
To: Netuschil, Glenn <Glenn.Netuschil@tetratech.com>
Cc: Carpenter, Kevin J (DEC) <kevin.carpenter@dec.ny.gov>; Rys, Gregory A (HEALTH) <gregory.rys@health.ny.gov>; dsweet <dsweet@ehs-strategy.com>
Subject: RE: Former Union Fork and Hoe Site - Imported Stone Documentation

Dear Glenn,

The Department has the following comments on the attached submittals:

- The topsoil source must be sampled for PFAS and 1,4-Dioxane. Guidance on backfill soil sampling for emerging contaminants is provided in the attached guidance document.
- The forms should be revised or amended so all information presented is visible in entry fields and formatted so they are no longer editable.

Please provide revised submittals which address the above comments. Thanks.

William Bennett
Professional Engineer 1

New York State Department of Environmental Conservation
625 Broadway, Albany, NY 12233-7014
P: 518-402-9659 | F: 518-402-9679| william.bennett@dec.ny.gov

www.dec.ny.gov | |

From: Netuschil, Glenn <Glenn.Netuschil@tetratech.com>
Sent: Thursday, December 31, 2020 3:43 PM
To: Bennett, William B (DEC) <william.bennett@dec.ny.gov>
Subject: Re: Former Union Fork and Hoe Site - Imported Stone Documentation

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Request to Import/Reuse Fill or Soil

This form is based on the information required by DER-10, Section 5.4(e). Use of this form is not a substitute for reading the applicable Technical Guidance document.

SECTION 1 – SITE BACKGROUND

The allowable site use is: Commercial or Industrial Use

Have Ecological Resources been identified? no

Is this soil originating from the site? no

How many cubic yards of soil will be imported/reused? 300-400

If greater than 1000 cubic yards will be imported, enter volume to be imported:

SECTION 2 – MATERIAL OTHER THAN SOIL

Is the material to be imported gravel, rock or stone? yes

Does it contain less than 10%, by weight, material that would pass a size 80 sieve? yes

Is this virgin material from a permitted mine or quarry? yes

Is this material recycled concrete or brick from a DEC registered processing facility? no

SECTION 3 - SAMPLING

Provide a brief description of the number and type of samples collected in the space below:

The material meets the requirements of DER-10, Section 5.4. No chemical testing is needed. A sieve analysis shows that the gradation of the material has less than 10% by weight passing an size 80 sieve.

Example Text: 5 discrete samples were collected and analyzed for VOCs. 2 composite samples were collected and analyzed for SVOCs, Inorganics & PCBs/Pesticides.

If the material meets requirements of DER-10 section 5.5 (other material), no chemical testing needed.

SECTION 3 CONT'D - SAMPLING

Provide a brief written summary of the sampling results or attach evaluation tables (compare to DER-10, Appendix 5):

N/A

Example Text: Arsenic was detected up to 17 ppm in 1 (of 5) samples; the allowable level is 16 ppm.

If Ecological Resources have been identified use the "If Ecological Resources are Present" column in Appendix 5.

SECTION 4 – SOURCE OF FILL

Name of person providing fill and relationship to the source:

Leitz Trucking Corp will provide fill from Barret Paving Materials.

Location where fill was obtained:

Litchfield, NY

Identification of any state or local approvals as a fill source:

If no approvals are available, provide a brief history of the use of the property that is the fill source:

Virgin site. Material is used for NYSDOT Type 2 Road Base.

Provide a list of supporting documentation included with this request:

Attached Particle Size Distribution Report of the material.

The information provided on this form is accurate and complete.

Signature

12-31-2020

Date

Glenn Netuschil

Print Name

Tetra Tech

Firm

ATLANTIC TESTING LABORATORIES

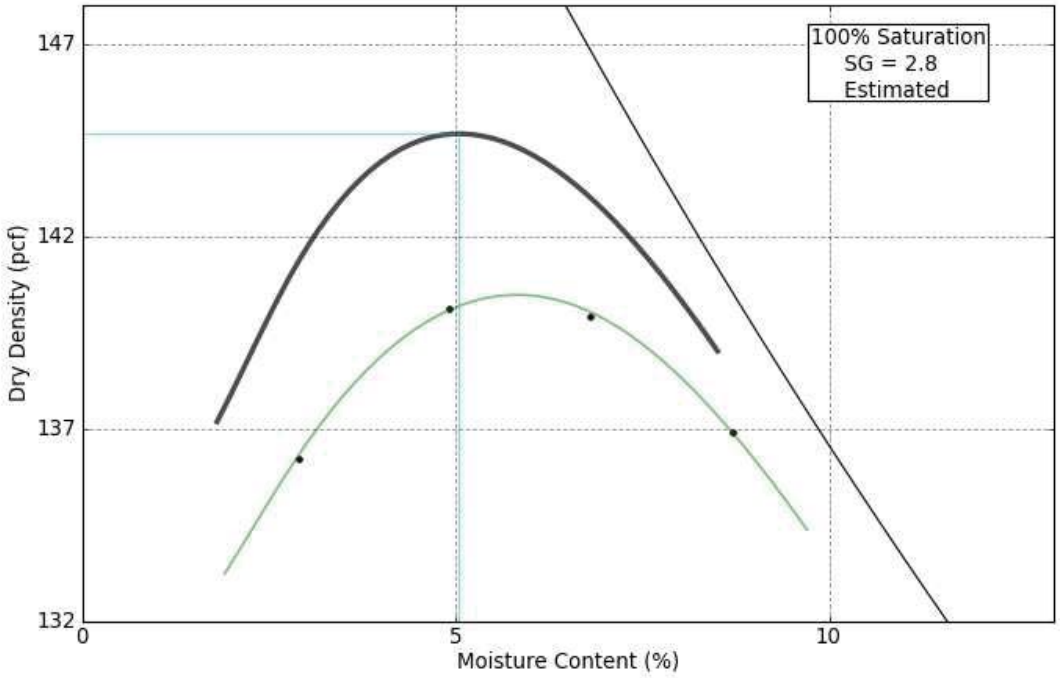
LABORATORY COMPACTION TEST REPORT No.: UT1877SL-044-04-19

WBE certified company

Client: Barrett Paving Materials, Inc.
Project: Laboratory Soil Analysis
Utica, New York

Location: Stockpile from the pit

Sample Date: April 30, 2019
Sampled By: CLIENT
Service Order No.: 16894
Sample No.: UT1877S-42



— Corrected ● - Uncorrected

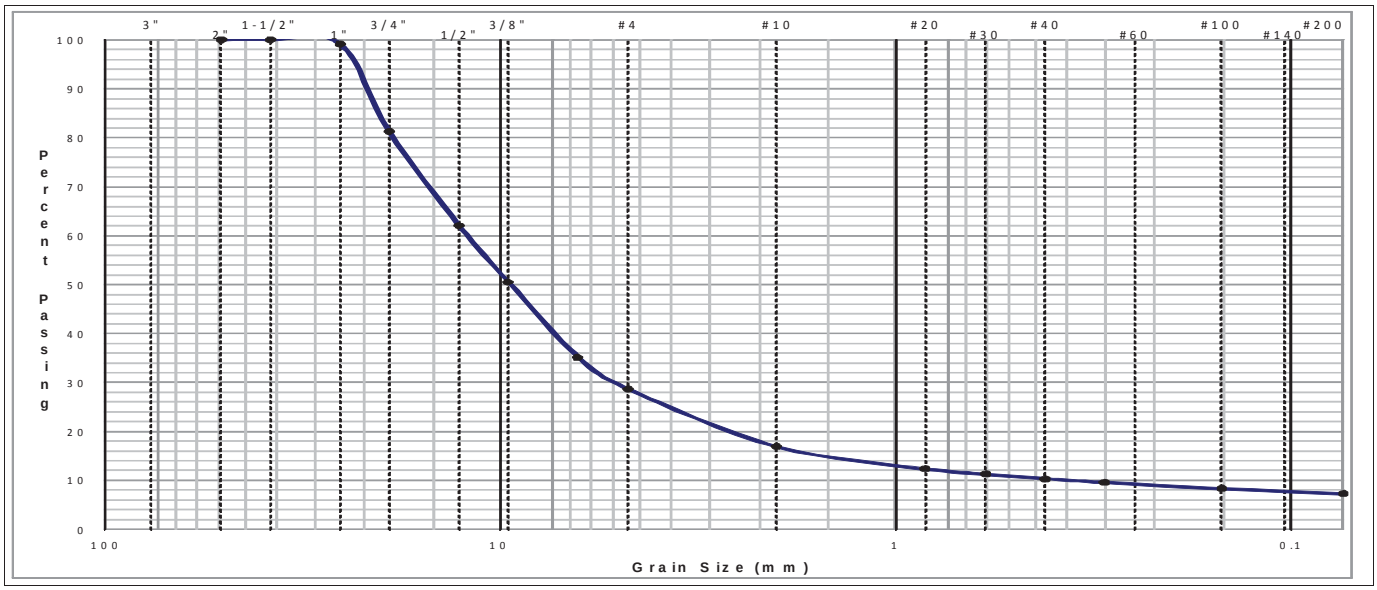
Elev/ Depth	Classification		Received Moist.	Bulk Sp.G.	Oversize Sp.G.	Atterberg Limits			% > 3/4 in.
	USCS	AASHTO				LL	PL	PI	
--	--	--	--	2.67	2.67	--	--	--	19

CORRECTED TEST RESULTS	MATERIAL DESCRIPTION
Maximum dry density (pcf) = 144.7 Optimum moisture (%) = 5.0	Crusher Run proposed for use as NYSDOT 304-2/733-04 Type 2 (subbase)
Source of Sample: Barrett Paving Materials-Litchfield Quarry (2-12) **Sp.G.:** Estimated **Prep Method:** Moist **Rammer:** Mechanical	

Remarks: Delivered by client on April 30, 2019
Test Specification: ASTM D-1557 (12) Method-C, ASTM D-4718

PARTICLE SIZE ANALYSIS REPORT

Client:	Barrett Paving Materials, Inc.	Sample Date:	April 30, 2019
Project:	Laboratory Soil Analysis Utica, New York	Sampled By:	CLIENT
		Service Order No.:	16894
		Sample No.:	UT1877S-42
Location:	Stockpile from the pit		



	% Gravel			% Sand		
% +3"	Coarse	Medium	Fine	Coarse	Medium	Fine
--	1	37	33	12	7	3

% Fines: 7

SIEVE SIZE	PERCENT FINER	SPEC. LOW	SPEC. HIGH	OUT OF SPEC. (X)
2 in	100	100	100	
1 1/2 in	100			
1.00 in	99			
3/4 in	81			
1/2 in	62			
3/8 in	51			
1/4 in	35	25	60	
No. 4	29			
No. 10	17			
No. 20	12			
No. 30	11			
No. 40	10	5	40	
No. 50	10			
No. 100	8			
No. 200	7.3	0	10	

NYSDOT 304-2/733-04 Type 2 (Table 304-1)

Soil Description

Crusher Run proposed for use as NYSDOT 304-2/733-04 Type 2 (subbase)

Atterberg Limits

PL= --- **LL=** --- **PI=** ---

Coefficients

D_{85} = 20.2385 D_{60} = 12.0645 D_{50} = 9.3852
D_{30} = 5.0283 D_{15} = 1.3839 D_{10} = 0.3489
C_u = 34.5693 C_c = 6.0051

Classification

USCS= **AASHTO=**

Remarks

Delivered by client on April 30, 2019
ASTM D-422 without Hydrometer

Reviewed by: _____ Date: May 02, 2019

Senior Technician
ggrippe@atlantictesting.com

BARRETT PAVING MATERIALS INC.
4530 Wetzel Road, Liverpool, New York 13090 - Phone: 315-652-4585

John Leitz,

I have attached our mining permit and a letter from the New York State Department of Transportation, in order to meet these two documents we have to be a clean site. Meaning that we are not a dump site for any hazardous materials, we have a quarry of hard durable virgin Limestone that we crush on site and sell to the construction industry.

CC: **T. Kotary**
File

Michael J. LaBuz
Sales Representative
Barrett Paving Materials Inc.

NEW YORK STATE OF OPPORTUNITY. | **Department of Transportation**

ANDREW M. CUOMO
Governor

JOAN McDONALD
Commissioner

April 27, 2015

Mr. Scot A. Owens
Barrett Paving Materials, Inc.
4530 Wetzel Road
Liverpool, NY 13090

Aggregate Source Status
Name: **Barrett Paving Materials, Inc.**
Source No. **2- 12R**
Location: **Litchfield, NY**
Coarse Aggregate Approved for Item 703-02
Note: Aggregate from this source is approved only for 703-02 NYSDOT items

Dear Mr. Owens:

Aggregate from the operating location noted above is approved for item 703-02, Coarse Aggregate. The requirements of Materials Method 29, Aggregate Acceptance Procedures, have been met.

Aggregate sources which satisfy all applicable requirements of Materials Method 29, issued July 2007, appear on the approved List of Sources of Fine and Coarse aggregates. The Approved List is available on the Internet @

www.dot.ny.gov and clicking on A-Z Site Index, Aggregates.

Approval status is reaffirmed by testing every 2 years. In addition, all sources must maintain a current accepted source report. However, approval status may be modified if it is determined that conditions have changed. The Regional Materials Engineer may be consulted for current data concerning this or any source.

Any questions regarding these matters, may be directed to Ms. Marilyn Bradley or members of the staff in the Materials Bureau, Engineering Geology Section at (518) 457-1038.

Very truly yours,

Marilyn Bradley

Marilyn Bradley
Engineering Geology

MJB/RLW
File: 2- 12R
Cc: Tim Roemer, Region 2 Materials Engineer

GRAVEL

RE: Former Union Fork and Hoe Site - Imported Stone Documentation

Bennett, William B (DEC) <william.bennett@dec.ny.gov>

Thu 12/10/2020 4:43 PM

To: Netuschil, Glenn <Glenn.Netuschil@tetratech.com>

1 attachments (1 MB)

NYSDEC Fill Import Request - Crushed Stone.pdf;

Hi Glenn,

Could you confirm what the use of this material will be at the site? Based on the properties of the material, it appears to be for staging and/or a tracking pad. Otherwise the documentation looks fine.

Also, can you confirm field work will begin next week? Our field inspector is scheduled to visit the site on Tuesday, December 15th.

Thanks.

Bill

William Bennett
Professional Engineer 1

New York State Department of Environmental Conservation
625 Broadway, Albany, NY 12233-7014
P: 518-402-9659 | F: 518-402-9679| william.bennett@dec.ny.gov

www.dec.ny.gov | | |

From: Netuschil, Glenn <Glenn.Netuschil@tetratech.com>
Sent: Wednesday, December 9, 2020 4:32 PM
To: Bennett, William B (DEC) <william.bennett@dec.ny.gov>
Subject: Former Union Fork and Hoe Site - Imported Stone Documentation

Hi Bill,

Please find attached fill import request, for your approval, of stone for the former Union Fork and Hoe Site as part of the on-site soil removal activities, Frankfort, New York (NYSDEC Site No. 6-22-011). I will provide additional backfill documentation by the end of the week.

Please let me know if you have any questions.

Thanks.

Glenn Netuschil, P.E. | Senior Engineer
Cell **+1 (631) 987-3206** | glenn.netuschil@tetratech.com

Tetra Tech | Complex World, Clear Solutions™
One Oxford Valley Road, Langhorne, PA 19047| tetratech.com


Please consider the environment before printing.

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Request to Import/Reuse Fill or Soil

This form is based on the information required by DER-10, Section 5.4(e). Use of this form is not a substitute for reading the applicable Technical Guidance document.

SECTION 1 – SITE BACKGROUND

The allowable site use is: Commercial or Industrial Use

Have Ecological Resources been identified? no

Is this soil originating from the site? no

How many cubic yards of soil will be imported/reused? 0-50

If greater than 1000 cubic yards will be imported, enter volume to be imported:

SECTION 2 – MATERIAL OTHER THAN SOIL

Is the material to be imported gravel, rock or stone? yes

Does it contain less than 10%, by weight, material that would pass a size 80 sieve? yes

Is this virgin material from a permitted mine or quarry? yes

Is this material recycled concrete or brick from a DEC registered processing facility? no

SECTION 3 - SAMPLING

Provide a brief description of the number and type of samples collected in the space below:

The material meets the requirement of DER-10, Section 5.4. No chemical testing is needed. A sieve analysis shows that the gradation of the material has less than 10% by weight passing a #80 sieve.

Example Text: 5 discrete samples were collected and analyzed for VOCs. 2 composite samples were collected and analyzed for SVOCs, Inorganics & PCBs/Pesticides.

If the material meets requirements of DER-10 section 5.5 (other material), no chemical testing needed.

SECTION 3 CONT'D - SAMPLING

Provide a brief written summary of the sampling results or attach evaluation tables (compare to DER-10, Appendix 5):

N/A

Example Text: Arsenic was detected up to 17 ppm in 1 (of 5) samples; the allowable level is 16 ppm.

If Ecological Resources have been identified use the "If Ecological Resources are Present" column in Appendix 5.

SECTION 4 – SOURCE OF FILL

Name of person providing fill and relationship to the source:

Barrett Paving Materials, Inc. (Quarry Source)

Location where fill was obtained:

Litchfield, NY

Identification of any state or local approvals as a fill source:

DEC Mining Permit #60497

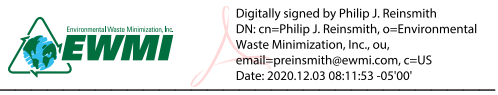
If no approvals are available, provide a brief history of the use of the property that is the fill source:

Virgin site. The material is used as coarse aggregate for the NYSDOT.

Provide a list of supporting documentation included with this request:

Attached particle size distribution report of the material.

The information provided on this form is accurate and complete.



Signature

12-3-2020

Date

Philip Reinsmith

Print Name

Environmental Waste Minimization, Inc.

Firm

BARRETT PAVING MATERIALS INC.

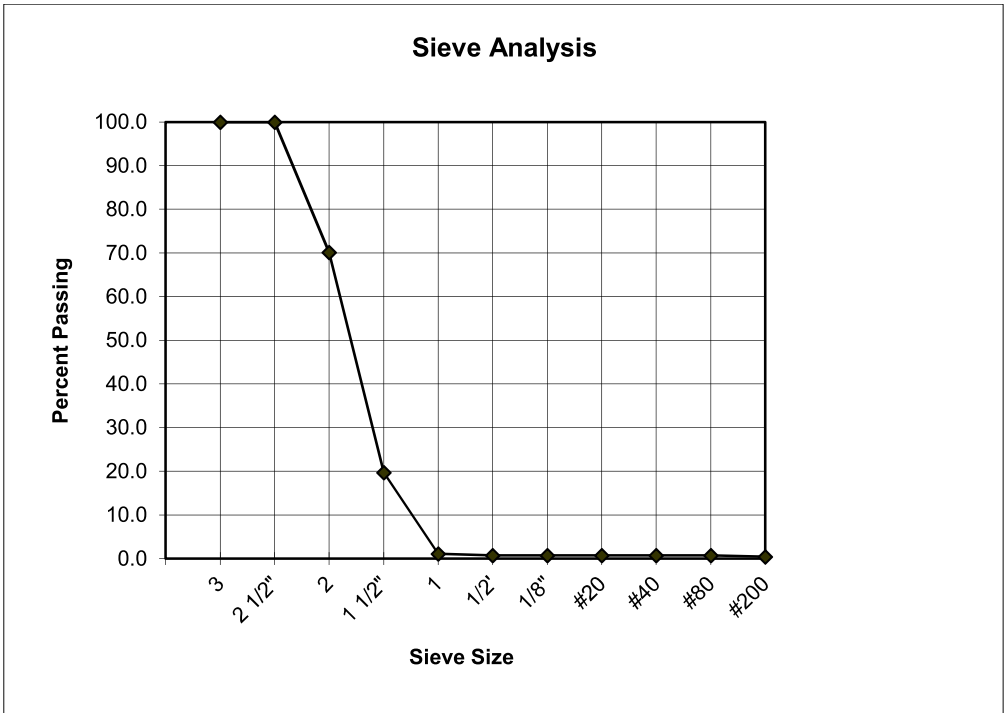
Sieve Analysis

LOCATION: Litchfield
DATE: 5/6/2020

PRODUCT: #4A Stone
TESTED BY: Jason Carnell
NYSMA QC/QA#: _____

COMMENTS

SIEVE SIZE	WEIGHT RETAINED	PERCENT RETAINED	PERCENT PASSING	
3	0.0	0.0	100.0	100
2 1/2"	0.0	0.0	100.0	90-100
2	8.2	29.9	70.1	
1 1/2"	13.8	50.4	19.7	0-20
1	5.1	18.6	1.1	
1/2'	0.1	0.4	0.7	
1/8"	0.0	0.0	0.7	
#20	0.0	0.0	0.7	
#40	0.0	0.0	0.7	
#80	0.0	0.0	0.7	
#200	0.1	0.4	0.4	0-2
BIG PAN	0.2	0.7		
SMALL PAN	0.1	0.4		
BIG TOTAL (lb):	27.4	99.9		
SMALLTOTAL (g):	0.2			



BARRETT PAVING MATERIALS INC.
4530 Wetzel Road, Liverpool, New York 13090 - Phone: 315-652-4585

John Leitz,

I have attached our mining permit and a letter from the New York State Department of Transportation, in order to meet these two documents we have to be a clean site. Meaning that we are not a dump site for any hazardous materials, we have a quarry of hard durable virgin Limestone that we crush on site and sell to the construction industry.

Michael J. LaBuz
Sales Representative
Barrett Paving Materials Inc.

CC: T. Kotary
File

NEW YORK STATE OF OPPORTUNITY. | **Department of Transportation**

ANDREW M. CUOMO
Governor

JOAN McDONALD
Commissioner

April 27, 2015

Mr. Scot A. Owens
Barrett Paving Materials, Inc.
4530 Wetzel Road
Liverpool, NY 13090

Aggregate Source Status
Name: **Barrett Paving Materials, Inc.**
Source No. **2- 12R**
Location: **Litchfield, NY**
Coarse Aggregate Approved for Item 703-02
Note: Aggregate from this source is approved only for 703-02 NYSDOT items

Dear Mr. Owens:

Aggregate from the operating location noted above is approved for item 703-02, Coarse Aggregate. The requirements of Materials Method 29, Aggregate Acceptance Procedures, have been met.

Aggregate sources which satisfy all applicable requirements of Materials Method 29, issued July 2007, appear on the approved List of Sources of Fine and Coarse aggregates. The Approved List is available on the Internet @

www.dot.ny.gov and clicking on A-Z Site Index, Aggregates.

Approval status is reaffirmed by testing every 2 years. In addition, all sources must maintain a current accepted source report. However, approval status may be modified if it is determined that conditions have changed. The Regional Materials Engineer may be consulted for current data concerning this or any source.

Any questions regarding these matters, may be directed to Ms. Marilyn Bradley or members of the staff in the Materials Bureau, Engineering Geology Section at (518) 457-1038.

Very truly yours,

Marilyn Bradley

Marilyn Bradley
Engineering Geology

MJB/RLW
File: 2- 12R
Cc: Tim Roemer, Region 2 Materials Engineer

The New York State
Department of Environmental Conservation
has issued a

MINING PERMIT

pursuant to the Environmental Conservation Law for the mining operation being conducted on this site. For more information regarding the nature and extent of work approved, contact the Mined Land Reclamation Specialist shown below. Please refer to the mine file number shown when contacting the DEC.

Mine File Number 60497 Permit Expiration Date 1/29/2025

DEC Contact Andrew Abbott

Phone Number 793-2555

NOTE: THIS IS NOT A PERMIT

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