



**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 4**

**Laboratory Services & Applied Science Division
Field Service Branch
980 College Station Road
Athens, Georgia 30605-2720**

May 27, 2021

MEMORANDUM

SUBJECT: Sampling Investigation Report
Techtrix, Inc.
Gadsden, Alabama
LSASD Project ID – 21-0164

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THRU: Liza Montalvo, Chief *LSM*
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TO: Alan R. Newman, Environmental Engineer
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Attached is the Sampling Investigation Report for the sampling that was conducted at the Techtrix, Inc. site in Gadsden, Alabama on March 23, 2021. If you have any questions concerning the sampling investigation, please call me at (706) 818-5926.

Attachment

Project ID: 21-0164

Sampling Investigation Report

Techtrix, Inc.

**525 Plainview Street
Gadsden, Alabama**

Project Date: March 22-23, 2021

Report Date: May 27, 2021



Project Leader: Paula Whiting

Hazardous Waste Section

Field Services Branch

Laboratory Services and Applied Science Division

US Environmental Protection Agency – Region 4

980 College Station Road

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The ANSI National Accreditation Board attests that U.S. EPA Region 4 Laboratory Services and Applied Science Division fulfills the requirements of ISO/IEC 17025:2017 ANAB Forensic Testing & Calibration AR 3125:2019 in the field of Forensic Testing. The activities contained in this report fall within the scope of accreditation, Certificate Number: FT-0330. Expires 31 July 2022.

LSASD
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Sampling Investigation Report

Techtrix, Inc.

1.0 Introduction

The United States Environmental Protection Agency (US EPA) Region 4 Laboratory Services and Applied Science Division (LSASD) personnel conducted sampling at the Techtrix, Inc. in Gadsden, Alabama on March 23, 2021. Alan Newman, Environmental Engineer, Region 4 Enforcement and Compliance Assurance Division (ECAD) requested the sampling and pH and TCLP Metals analyses of the non-hazardous waste totes and unidentified tanks at the site.

Representatives of the LSASD conducted the requested waste and soil sampling investigation. The following personnel were present for all or a portion of the investigation:

NAME	ORGANIZATION	DUTIES
Paula Whiting	LSASD	Project Leader, Sampler
Art Masters	LSASD	Safety Officer, Sampler
Mike Neill	LSASD	Sampler
Kevin Simmons	LSASD	Scribe, Sampler
Alan Newman	ECAD	Project Manager, Inspector
Kayla Acosta	ECAD	Inspector
Corey Holmes	Alabama Dept. of Env. Mgmt.	Inspector

This sampling event was conducted in accordance with the Sampling and Analysis Plan (SAP) for the Techtrix, Inc. facility dated March 15, 2021. Any deviations from the SAP are documented in the field logbooks as needed and discussed in the appropriate sections of this report. In addition, the SAP is designed to be used in conjunction with the Applied Science Branch (ASB) Quality Assurance Project Plan December 2019.

2.0 Summary

During the Techtrix, Inc. sampling investigation, LSASD personnel collected a total of sixteen samples. Seven samples were collected from 275- or 325-gallon totes, six samples were from various sized tanks, one soil sample from the drainage ditch, one sample from outdoor containers and one sample from a cadmium plating line dip tank. LSASD's Laboratory Services Branch chemists analyzed the samples for pH, total metals and TCLP metals.

Laboratory analyses showed that fifteen of the sixteen samples collected from the totes, tanks, drainage ditch and plating line exhibited the toxicity characteristic (TC) for cadmium (D006), chromium (D007), lead (D008) and/or silver (D011). Cadmium toxicity characteristic leaching procedure (TCLP) results ranged from 18 mg/l to 4,300 mg/l for the seven samples which exceeded the cadmium TC regulatory level of 1.0 mg/l. For the twelve samples which exceeded the chromium TC regulatory level of 5.0 mg/l, chromium TCLP results ranged from 6.8 mg/l to 2,200 mg/l. Both lead and silver have a TC regulatory level of 5.0 mg/l and both had four samples

exceed it. Lead TCLP results ranged from 7.4 mg/l to 13 mg/l while silver TCLP results ranged from 5.4 mg/l to 74 mg/l.

Laboratory testing showed that three samples demonstrated the RCRA characteristic of corrosivity (D002) by having pH values of less than 2.0 Standard Units (SUs) or greater than 12.5 SUs. Sample T07 had a laboratory pH value of less than 1.0 SUs while samples T16 and TK02 had pH values of 12.71 and 12.95 SUs, respectively. (**Table 3**).

3.0 Site Background

Techtrix, Inc. located in Gadsden, Alabama, is an electroplating and metal finishing facility that has been in operation since 1987. The facility occupies 80,000 square feet and employs approximately six people. The facility operates seven plating lines and a wastewater treatment system. The wastewater treatment system is not hard piped to the plating tanks. When plating baths are determined to be spent, they are pumped into 250-gallon totes and moved to the wastewater treatment system. Techtrix, Inc. provides zinc, brite dip, chromate, Alodine, silver, and cadmium electroplating.

The Alabama Department of Environmental Management (ADEM) inspected the facility on February 21, 2021; January 14, 2019; September 21, 2015; and, December 7, 2011. As noted in the inspection reports, the ADEM inspector found areas that required waste determinations, and had container management issues and storage deficiencies which resulted in Notices of Violation and consequently enforcement actions incurring penalties. After the 2021 inspection, ADEM referred the facility to the US EPA for further investigation and sampling.

4.0 Field Investigation and Methodology

On March 22, 2021, the US EPA and ADEM conducted a compliance evaluation inspection (CEI) at Techtrix, Inc. and found multiple deficiencies including waste determinations, and hazardous waste container management and storage. At the time of the March 22, 2021 CEI, the US EPA and ADEM inspectors observed three hazardous waste accumulation storage areas with 275-gallon and 325-gallon waste totes stored over 90-days, two non-hazardous waste storage areas with totes filled with unidentified waste, an inactive wastewater treatment plant with eight unlabeled tanks containing abandoned waste material, three inactive cadmium plating line tanks with abandoned waste allowed to solidify and stored over 90-days, an inactive Alodine plating line leaking unidentified liquid on the concrete floor, multiple supersacks of hazardous waste floor sweeping removed from underneath the plating lines, five 2 X 2 containers removed from the process and stored outside with green dust residue releasing to the environment, a drainage ditch below the 2 X 2 container exterior storage, three rusted 55-gallon drums of unknown contents and discarded floor sweeping in a solid waste dumpster.

ECAD requested that LSASD sample the drainage ditch beside the exterior building wall, the 2 X 2 containers in the outside loading area, the three rusted drums of unidentified material, the accessible totes in the non-hazardous storage areas, the unlabeled tanks in the wastewater

treatment plant, the cadmium plating line tanks, and the unidentified liquid leaking on the floor behind the Alodine plating line.

LSASD personnel sampled the soil in the drainage ditch behind the main building, discarded containers behind the main building, seven totes, six standalone tanks and one plating tank during the investigation. Samples were collected from the drainage ditch beside the exterior building wall (S01), the discarded 2 X 2 containers stacked on a pallet next to the exterior building wall (WA01), seven 275- or 325-gallon totes (T06, T07, T13, T16, T17, T20 and T21), six standalone tanks (ET01, TK02, TK08, TK09, BBT, and GT), and a cadmium plating line dip tank (CP).

Field activities were conducted in accordance with LSASD's Field Branch's Management and Quality System Procedures and the following LSASD field sampling operating procedures:

LSASDPROC-300-R4 - Soil Sampling
LSASDPROC-302-R4 - Waste Sampling

Prior to sample collection, pH was screened using pH paper secured to a three-foot wooden dowel and dipped inside the tote and the reading recorded. As seen in the photos (Appendix A), the totes in the non-hazardous waste storage areas were stacked two-high. Twenty-four second-tier totes were screened for pH. A Mini-Rae 3000 photoionization detector (PID) was used to monitor any volatile organic compounds (VOCs) that may have been emitted from the contents of the totes. Seven of the twenty-four totes were selected to be sampled based on the pH and PID screening.

The wastewater treatment system (WWTS) tanks were already opened to the atmosphere. Four of the tanks contained liquid and two tanks contained sludge (multiphase semi-solid) material. The viscosity of the material did not allow for proper detection using pH paper.

All field measurement and sampling procedures were performed and/or overseen by LSASD Applied Science Branch (now named the Field Services Branch) personnel proficient in the pertinent procedures. Any person that was not proficient in any measurement or sampling procedure was teamed with someone who was proficient.

Chain of custody documents were prepared by Mr. Simmons using the US EPA's Scribe program. Samples were submitted to the LSASD laboratory for analyses. Split samples were collected by LSASD and received by the facility on March 24, 2021.

The three rusted drums of unidentified material were determined to contain only solidified asphalt in Drum 83, and 1/3 solidified asphalt and 2/3 liquid in Drum 84. The pH in both drums were neutral, thus no sample was taken, and no PID reading was observed. Drum 85 could not be opened, nor the contents examined due to the condition of the drum.

The Alodine plating line was not in service at the time of the inspection and investigation. The facility personnel stated that the line had been closed for an extended period due to leaking. At the time of the investigation, the sample team observed unknown liquid puddles on the floor behind the Alodine plating line. The sample team took three random pH screenings resulting in pH of 9-10. No samples were taken due to low volume of liquid on the floor and the near neutral pH.

Sample data collected during the investigation are presented in Tables 1 and 2. Photographs are in Appendix A.

5.0 Results and Discussion

Soil (S01) and waste samples (BBT, CP, ET01, GT, T06, T07, T13, T16, T17, T20, T21, TK02, TK08, TK09 and WA01) were analyzed for total metals using USEPA methods 6010C and USEPA 200.8. When total metal scan results showed that one of the TC constituents in a sample could possibly exceed its TC regulatory levels, the TCLP was performed for that sample. The TCLP was performed on all the samples except T13. Waste samples (BBT, ET01, T06, T07, T13, T16, T17, T20, T21, TK02, TK08, and TK09) were analyzed for pH using USEPA 9040.

Table 3 summarizes the RCRA TCLP Metals and pH Data Summary and **Table 4** contains the TCLP Metals Analyses Data for the waste samples while **Table 5** summarizes the Total Metals Analysis Data for the waste samples and **Table 6** summarizes the metal analyses for the soil sample. LSASD's complete analytical reports are included as **Appendix D**.

Laboratory analyses showed that fourteen of the sixteen samples collected from the totes, tanks, and plating line dip tank exhibited the toxicity characteristic for cadmium (D006), chromium (D007), lead (D008 and/or silver (D011). Additionally, soil sample (S01) exceeded TC regulatory limits for cadmium (D006) and lead (D008).

TCLP results for cadmium exceeded the TC regulatory level of 1.0 mg/l for seven samples. The cadmium TCLP results were: 4300 mg/l for sample BBT; 120 mg/l for sample CP; 110 mg/l for sample GT; 26 mg/l for sample S01; 75 mg/l for sample T07; 18 mg/l for sample TK08; and 510 mg/l for sample TK09. TCLP results for chromium exceeded the TC regulatory level of 5.0 mg/l for 12 samples. The chromium TCLP results were: 79 mg/l for sample BBT; 54 mg/l for sample ET01; 13 mg/l for sample GT; 39mg/l for sample T06; 2200 mg/l for sample T07; 11 mg/l for sample T16; 26 mg/l for sample T17; 33 mg/l for sample T20; 19 mg/l for sample T21; 6.8 mg/l for sample TK02; 24 mg/l for sample TK08 and 49 mg/l for sample WA01. TCLP results for lead and silver exceeded the TC regulatory level of 5.0 mg/l for four samples each. Samples S01, T06, T07 and T16 had lead TCLP results of 10 mg/l, 13 mg/l, 7.5 mg/l and 7.4 mg/l, respectively. Samples BBT, T06, T20 and T21 had silver TCLP results of 69 mg/l, 74 mg/l, 64 mg/l and 5.4 mg/l, respectively (**Table 3**).

As expected, metal analyses of the soil and waste samples collected from the drainage ditch, totes and tanks detected high concentrations of metals including zinc and nickel (**Table 4**). Laboratory analyses determined that three samples exhibited the RCRA characteristic of corrosivity (D002) by having pH values of less than 2.0 Standard Units (SUs) or greater than 12.5 SUs. Laboratory pH analysis of sample T07 measured an acidic pH of less than 1.0 SUs, while samples T16 and TK02 had basic pH of 12.7 SUs and 12.95 SUs, respectively (**Table 4**).

Spilt samples were provided to Mrs. Pamela Beavers, Techtrix, Inc. on March 24, 2021, at 7:45 AM.

Quality Control Sample Results

Blanks (Field and Equipment)

No field or equipment blanks were collected during this investigation.

Split Samples

Split samples were collected at each sample station and provided to the facility for shipment to and analysis at their contract laboratory. The copy of the signed Receipt for Samples is in **Appendix C**.

Laboratory Quality Control Samples

For the metal analyses, samples GT and T21 were designated as the LSASD's laboratory matrix spike/matrix spike duplicate (MS/MSD), and for the TCLP analyses, samples GT and TK08 were used as quality control samples. Samples T20, T21 and TK02 were used as duplicate samples for the pH testing quality control. Results of quality control analyses are contained in the LSASD's Laboratory Analytical Data Reports in **Appendix D** and are acceptable for the purposes of this investigation. Full definitions for the data qualifiers are provided in their respective reports. The reported results are accurate within the limits of the methods.

6.0 Conclusions

The analytical data from this investigation is associated with spent or discarded metal plating materials that have been stored beyond the large quantity generator requirements of less than 90 days. Both cadmium and chromium are major constituents in this facility's metal plating operations. All but one sample, T13, contained either cadmium, chromium, lead and/or silver at TCLP concentrations that are indicative of RCRA characteristic hazardous wastes. Three samples were shown to exhibit the corrosive characteristic for RCRA hazardous waste.

7.0 References

US EPA LSASD. “Quality System and Technical Procedures for SESD Field Branches.”
<https://www.epa.gov/quality/quality-system-and-technical-procedures-lsasd-field-branches>,
Most recent versions as of study date.

US EPA LSASD. “Sampling and Analysis Plan for Techtrix, Inc., Waste and Soil Sampling Investigation.” March 15, 2021.

US EPA LSASD. “Laboratory Services Branch Laboratory Operations and Quality Assurance Manual.” April 24, 2020.

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Techtrix, Inc., Gadsden, Alabama

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Table 1
Waste Sample Data

Sample I.D.	Sample Media	Sample Description	Location	Sample Type	Sample Container	Analyses	Latitude / Longitude
S01	Soil	Dark gritty soil with brick and shingle pieces	Drainage Ditch	Composite	8-ounce	Metals TCLP	34.02626N, 086.01942W
WA01	Waste	Fine green dust with white specks	2X2 Containers beside Drainage Ditch	Composite	8-ounce	Metals TCLP	NA
T06	Waste	Greenish blue liquid	Non-Hazardous Waste Storage Area Second Tier	Composite	8-ounce	Metals TCLP/pH	N/A
T07	Waste	Dark green blue liquid	Non-Hazardous Waste Storage Area Second Tier	Composite	8-ounce	Metals TCLP/pH	N/A
T13	Waste	Clear yellowish liquid	Non-Hazardous Waste Storage Area Second Tier	Composite	8-ounce	Metals TCLP/pH	N/A
T16	Waste	Light green clear liquid	Non-Hazardous Waste Storage Area Second Tier	Composite	8-ounce	Metals TCLP/pH	N/A
T17	Waste	Clear green liquid	Non-Hazardous Waste Storage Area Second Tier	Composite	8-ounce	Metals TCLP/pH	N/A
T20	Waste	Clear green liquid	Non-Hazardous Waste Storage Area Second Tier	Composite	8-ounce	Metals TCLP/pH	N/A
T21	Waste	Clear yellowish green liquid	Non-Hazardous Waste Storage Area Second Tier	Composite	8-ounce	Metals TCLP/pH	N/A
ET01	Waste	Clear dark green liquid	Wastewater Treatment System (WWTS) Tanks	Composite	1-Liter	Metals TCLP/pH	N/A
TK09	Waste	Clear yellow liquid with heavy ammonia smell	WWTS Tanks	Grab	1-Liter	Metals TCLP/pH	N/A
TK08	Waste	Murky brown liquid	WWTS Tanks	Composite	8-ounce	Metals TCLP/pH	N/A
BBT	Waste	Clear dark amber liquid with oily sheen	WWTS Tanks	Composite	8-ounce	Metals TCLP/pH	N/A
GT	Waste	Sandy beige brown silty sludge	WWTS Tanks	Grab	8-ounce	Metals TCLP	N/A
TK02	Waste	Gray sludge – runny, very gooey multiphase	WWTS Tanks	Grab	1-Liter	Metals TCLP/pH	N/A
CP	Waste	Yellow soft solid	Cadmium Plating Line Dip Tank	Grab	8-ounce	Metals TCLP	N/A

Table 2
Container and Tank Screening Results

Sample ID	Sample Type	Container Type	Container Size	Sample Phase	pH	PID
T06	Waste	Tote	275	Liquid	13-14	2.3
T07	Waste	Tote	275	Liquid	0-1	0.3
T13	Waste	Tote	275	Liquid	13	12.1
T16	Waste	Tote	275	Liquid	13-14	2.5
T17	Waste	Tote	275	Liquid	13	3.6
T20	Waste	Tote	275	Liquid	13	5.0
T21	Waste	Tote	275	Liquid	13	7.4
ET01	Waste	Tank	Unknown	Liquid	12	NR
TK09	Waste	Tank	500	Liquid	7-8	5.6
TK08	Waste	Tank	Unknown	Liquid	NR	NR
BBT	Waste	Tank	Unknown	Liquid	NR	NR
GT	Waste	Tank	Unknown	Solid	NR	NR
TK02	Waste	Tank	500	Multiphase	NR	NR

NR – No reading was obtained

TABLE 3
RCRA TCLP Metals and pH Data Summary
Techtrix, Inc.
March 23, 2021

Analyte	Sample ID / Units	BBT	CP	ET01	GT	S01	T06	T07	T16	T17	T20	T21	TK02	TK08	TK09	WA01
Cadmium	mg/L	4300	120	< 0.50 U	110	26	< 0.50 U	75	< 0.20 U	< 0.50 U	< 0.14 U	< 0.10 U	0.57	18 J,O	510 J,O	0.74 J,O
Chromium	mg/L	79	4.5	54	13	0.45	39	2200	11	26	33	19	6.8	24	< 0.60 U	49
Lead	mg/L	0.33	< 0.20 U	0.41	< 0.20 U	10	13	7.5	7.4	< 0.20 U	3.4	0.59	< 0.20 U	2.0	< 0.20 U	< 0.20 U,J,QI-1
Nickel	mg/L	48	21	< 1.0 U	5.8	0.66	1.3	14	< 0.40 U	< 1.0 U	2.3	< 0.20 U	< 0.20 U	1.8	22	< 1.0 U
Silver	mg/L	69	3.1	< 0.50 U	0.73	< 0.10 U	74	< 2.0 U	< 0.20 U	< 0.50 U	64	5.4	< 0.10 U	< 0.50 U	1.4	< 0.50 U
Zinc	mg/L	350 J,O	490 J,O	1.1 J,O	240 J,O	98 J,O	1.6 J,O	2500 J,O	4.3 J,O	3.6 J,O	1.5 J,O	0.52 J,O	14 J,O	690 J,O	13 J,O	850 J,O
pH	pH Units	9.90 O	-	11.40 O	-	-	12.12 O	1.00 O	12.71 O	11.99 O	12.36 O	12.00 O	12.95 O	10.87 O	8.36 O	-

TABLE 4
TCLP Metals Analyses Data
Techtrix, Inc.
March 23, 2021

Analyte	Sample ID / Units	BBT	CP	ET01	GT	S01	T06	T07	T13
Antimony	mg/L	27	0.47	0.91	< 0.20 U	< 0.20 U	< 0.20 U	2.2	-
Arsenic	mg/L	0.26	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	0.24	-
Barium	mg/L	< 3.0 U	< 0.50 U	< 0.50 U	< 0.30 U	0.76	< 0.50 U	< 2.0 U	-
Cadmium	mg/L	4300	120	< 0.50 U	110	26	< 0.50 U	75	-
Chromium	mg/L	79	4.5	54	13	0.45	39	2200	-
Lead	mg/L	0.33	< 0.20 U	0.41	< 0.20 U	10	13	7.5	-
Nickel	mg/L	48	21	< 1.0 U	5.8	0.66	1.3	14	-
Silver	mg/L	69	3.1	< 0.50 U	0.73	< 0.10 U	74	< 2.0 U	-
Vanadium	mg/L	< 3.0 U	< 0.50 U	< 0.50 U	< 0.30 U	< 0.10 U	< 0.50 U	< 2.0 U	-
Zinc	mg/L	350 J,O	490 J,O	1.1 J,O	240 J,O	98 J,O	1.6 J,O	2500 J,O	-

- U The analyte was not detected at or above the reporting limit.
J The identification of the analyte is acceptable; the reported value is an estimate.
O Other qualifiers have been assigned providing additional information. These explanatory qualifiers are included in the laboratory data reports.

TABLE 4 cont.
TCLP Metals Analyses Data
Techtrix, Inc.
March 23, 2021

Analyte	Sample ID / Units	T16	T17	T20	T21	TK02	TK08	TK09	WA01
Antimony	mg/L	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U,J,QI-1
Arsenic	mg/L	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U,J,QI-1
Barium	mg/L	< 0.20 U	< 0.50 U	< 0.14 U	0.24	< 0.10 U	< 0.50 U	< 0.60 U	< 0.50 U
Cadmium	mg/L	< 0.20 U	< 0.50 U	< 0.14 U	< 0.10 U	0.57	18 J,O	510 J,O	0.74 J,O
Chromium	mg/L	11	26	33	19	6.8	24	< 0.60 U	49
Lead	mg/L	7.4	< 0.20 U	3.4	0.59	< 0.20 U	2.0	< 0.20 U	< 0.20 U,J,QI-1
Nickel	mg/L	< 0.40 U	< 1.0 U	2.3	< 0.20 U	< 0.20 U	1.8	22	< 1.0 U
Silver	mg/L	< 0.20 U	< 0.50 U	64	5.4	< 0.10 U	< 0.50 U	1.4	< 0.50 U
Vanadium	mg/L	< 0.20 U	2.1	< 0.14 U	< 0.10 U	< 0.10 U	< 0.50 U	< 0.60 U	< 0.50 U
Zinc	mg/L	4.3 J,O	3.6 J,O	1.5 J,O	0.52 J,O	14 J,O	690 J,O	13 J,O	850 J,O

U The analyte was not detected at or above the reporting limit.

J The identification of the analyte is acceptable; the reported value is an estimate.

O Other qualifiers have been assigned providing additional information. These explanatory qualifiers are included in the laboratory data report.

TABLE 5
Total Metals Analysis Data Summary
Techtrix, Inc.
March 23, 2021

Analyte	Sample ID / Units	BBT	CP	ET01	GT	T06	T07	T13
Aluminum	mg/kg	< 31 U	< 64 U	< 16 U	710 J,O	< 8.3 U	< 38 U	< 5.3 U
Antimony	mg/kg	30	10	0.96	31 J,O	< 0.056 U	2.0	< 0.053 U
Arsenic	mg/kg	< 1.6 U	< 1.6 U	< 0.066 U	1.0 J,O	< 0.056 U	0.21 J,O	< 0.053 U
Barium	mg/kg	< 1.6 U	< 3.2 U	< 0.82 U	29 J,O	< 0.42 U	< 1.9 U	< 0.27 U
Cadmium	mg/kg	4700	9900	< 0.13 U,B-2	6300 J,O	< 0.028 U	78	< 0.027 U
Calcium	mg/kg	< 78 U	< 160 U	< 41 U	78000	430	280	1300
Chromium	mg/kg	83	110	53	13000	39	2400	< 0.46 U,B-2
Cobalt	mg/kg	< 1.6 U	< 3.2 U	23	190	3.1	10	1.5
Copper	mg/kg	130	440	110	11000	380	2300	8.4
Iron	mg/kg	180	110	< 16 U	8500	< 8.3 U	1500	< 5.3 U
Lead	mg/kg	< 1.6 U	< 1.6 U	0.90	970 J,O	12	6.0	0.13
Magnesium	mg/kg	< 78 U	< 160 U	< 41 U	1900	< 21 U	< 94 U	< 13 U
Manganese	mg/kg	14	40	< 0.82 U	96	< 0.42 U	50	< 0.27 U
Molybdenum	mg/kg	< 3.1 U	< 6.4 U	2.0	< 17 U,J,QM-1	< 0.83 U	< 3.8 U	< 0.53 U
Nickel	mg/kg	100	450	< 1.6 U	650	1.3	15	< 0.53 U
Potassium	mg/kg	2200	1400	6700	2800 J,O	1400	580	1500
Silver	mg/kg	24	34	< 0.82 U	27 J,O	19	< 1.9 U	< 0.27 U
Sodium	mg/kg	44000 J,O	200000 J,O	36000 J,O	28000	10000 J,O	5100	5400
Strontium	mg/kg	< 1.6 U	< 3.2 U	< 0.82 U	36 J,O	0.75	< 1.9 U	2.0
Tin	mg/kg	< 4.7 U,J,QL-1	< 9.6 U,J,QL-1	< 2.5 U,J,QL-1	1800 J,O	< 1.2 U,J,QL-1	8.3 J,O	< 0.80 U,J,QL-1
Titanium	mg/kg	< 1.6 U	< 3.2 U	< 0.82 U	16 J,O	< 0.42 U	< 1.9 U	< 0.27 U
Vanadium	mg/kg	< 1.6 U	< 3.2 U	< 0.82 U	< 8.5 U	< 0.42 U	< 1.9 U	< 0.27 U
Zinc	mg/kg	440	13000	9.0	22000	4.2 J,O	2800	3.1 J,O

TABLE 5 cont.
Total Metals Analysis Data Summary
Techtrix, Inc.
March 23, 2021

Analyte	Sample ID / Units	T16	T17	T20	T21	TK02	TK08	TK09	WA01
Aluminum	mg/kg	< 15 U	22	< 6.2 U	< 5.7 U	< 110 U	60	< 30 U	7900
Antimony	mg/kg	< 0.061 U	0.18	< 0.062 U	< 0.057 U	4.0	0.92	< 0.30 U	2.0
Arsenic	mg/kg	< 0.061 U	< 0.060 U	< 0.062 U	< 0.057 U	< 0.27 U	< 0.31 U	< 0.30 U	1.0
Barium	mg/kg	< 0.76 U	< 0.75 U	< 0.31 U	< 0.28 U	< 5.4 U	2.3	< 1.5 U	36
Cadmium	mg/kg	< 0.033 U,B-2	< 0.030 U	< 0.040 U,B-2	< 0.028 U	130	47	510	300
Calcium	mg/kg	420	47	800	1200	30000	4600	< 74 U	3600
Chromium	mg/kg	12	26	37	21	4700	840	2.0	50000
Cobalt	mg/kg	4.1	6.3	15	7.7	14	33	12	12000
Copper	mg/kg	46	43	130	12	6600	950	13	180
Iron	mg/kg	< 15 U	< 15 U	< 6.2 U	< 5.7 U	530	640	< 30 U	17000
Lead	mg/kg	7.8	0.15	4.5	1.5	24	60	< 0.30 U	740
Magnesium	mg/kg	< 38 U	< 38 U	< 16 U	< 14 U	940	120	250	< 850 U
Manganese	mg/kg	< 0.76 U	< 0.75 U	< 0.31 U	< 0.28 U	9.7	8.7	< 1.5 U	150
Molybdenum	mg/kg	< 1.5 U	4.7	< 0.62 U	< 0.57 U	< 11 U	< 1.5 U	3.0	130
Nickel	mg/kg	< 1.5 U	< 1.5 U	3.5	< 0.57 U	14	7.8	21	440
Potassium	mg/kg	1200	1300	3400	870	2800	1900	2700	< 3400 U
Silver	mg/kg	< 0.76 U	< 0.75 U	22	4.8	< 5.4 U	5.6	< 1.5 U	< 17 U
Sodium	mg/kg	10000	20000	6200	3000	70000	5600	38000	23000
Strontium	mg/kg	0.78	< 0.75 U	2.4	1.8	20	3.7	< 1.5 U	< 17 U
Tin	mg/kg	< 2.3 U,J,QL-1	< 2.3 U,J,QL-1	< 0.93 U,J,QL-1	1.3 J,O	< 16 U,J,QL-1	11 J,O	< 4.5 U,J,QL-1	< 51 U,J,QL-1
Titanium	mg/kg	< 0.76 U	< 0.75 U	< 0.31 U	< 0.28 U	< 5.4 U	0.99	< 1.5 U	< 17 U
Vanadium	mg/kg	< 0.76 U	2.1	< 0.31 U	< 0.28 U	< 5.4 U	< 0.77 U	< 1.5 U	110
Zinc	mg/kg	6.5	5.7	4.1 J,O	< 2.9 U,B-2,QR-2	4100	2200	21	220000

TABLE 6
Soil Results Data Summary
Techtrix, Inc.
March 23, 2021

Analyte	Sample ID / Units	S01
% Solids	%	74
Aluminum	mg/kg dry	2800 J,O
Antimony	mg/kg dry	16 J,O
Arsenic	mg/kg dry	2.6 J,O
Barium	mg/kg dry	120
Cadmium	mg/kg dry	2300
Calcium	mg/kg dry	30000
Chromium	mg/kg dry	1500
Cobalt	mg/kg dry	100
Copper	mg/kg dry	2100
Iron	mg/kg dry	110000
Lead	mg/kg dry	1700 J,O
Magnesium	mg/kg dry	2600 J,O
Manganese	mg/kg dry	610 J,O
Nickel	mg/kg dry	180 J,O
Silver	mg/kg dry	54 J,O
Strontium	mg/kg dry	42 J,O
Tin	mg/kg dry	75 J,O
Titanium	mg/kg dry	44 J,O
Vanadium	mg/kg dry	11
Zinc	mg/kg dry	10000

Appendix A – Photographs

Photos taken by Paula A. Whiting

Camera Type: Olympus Tough

Serial Number: SC7374



Photo taken by P. Whiting

03/23/2021

Outside Laydown Yard – drainage ditch beside the building and near the overturned 2X2 containers



Photo taken by P. Whiting

03/23/2021

Outside Laydown Yard –overturned 2X2 containers with unknown green dust



Photo taken by P. Whiting

03/23/2021

Outside Laydown Yard – drainage ditch beside the building and near the overturned 2X2 containers



Photo taken by P. Whiting

03/23/2021

Outside Laydown Yard – Rusted asphalt drum 83



Photo taken by P. Whiting

03/23/2021

Outside Laydown Yard – Rusted asphalt drum 83



Photo taken by P. Whiting

03/23/2021

Outside Laydown Yard – Rusted asphalt drums
83 and 84



Photo taken by P. Whiting

03/23/2021

Non-hazardous waste storage area – totes T13
and T16



Photo taken by P. Whiting

03/23/2021

Non-hazardous waste storage area – totes T06
and T07



Photo taken by P. Whiting

03/23/2021

Non-hazardous waste storage area – totes T06
and T07



Photo taken by P. Whiting

03/23/2021

Non-hazardous waste storage area – totes T20 and T21



Photo taken by P. Whiting

03/23/2021

Non-hazardous waste storage area – totes T17, T20 and T21



Photo taken by P. Whiting

03/23/2021

Non-hazardous waste storage area – totes T13 and T16



Photo taken by P. Whiting

03/23/2021

WWTP Tank Farm – Evaporation Tank (ET01)



Photo taken by P. Whiting

03/23/2021

WWTP Tank Farm – Tank 9 (TK09) in the foreground and Tank 2 (TK02) in the background (right)



Photo taken by P. Whiting

03/23/2021

WWTP Tank Farm – Green Tank (GT)



Photo taken by P. Whiting

03/23/2021

WWTP Tank Farm – Big Brown Tank (BBT) and
Tank 8 (TK08)



Photo taken by P. Whiting

03/23/2021

Cadmium Plating Line dip tank



Photo taken by P. Whiting

03/23/2021

Cadmium Plating Line dip tank

Appendix B – Field Logbooks

United States Environmental Protection Agency
Region 4

Laboratory Services and Applied Science Division
980 College Station Road
Athens, Georgia 30605-2720



Techtrix, Inc.
Gadsden, Alabama

LSASD PROJECT ID NO: 21-0164

Paula Whiting, Project Leader

FIELD SCREENING and SAMPLING LOGBOOK

Book 1 of 1.

Dates: 03/23 - 23/2021.

List of personnel in logbook:

Name	Initials	Organization/Duties
<u>Paula Whiting</u>	<u>PAW</u>	<u>LSASD / Project Leader</u>
<u>Art Masters</u>	<u>AM</u>	<u>LSASD / Safety Officer</u>
<u>Mike Neill</u>	<u>MN</u>	<u>LSASD / Support</u>
<u>Kevin Simmons</u>	<u>KS</u>	<u>LSASD / Support</u>

United States Environmental Protection Agency
Region 4

Laboratory Services and Applied Science Division
980 College Station Road
Athens, Georgia 30605-2720



Techtrix, Inc.
Gadsden, Alabama

LSASD PROJECT ID NO: 21-0164

Paula Whiting, Project Leader

FIELD SCREENING and SAMPLING LOGBOOK

Book 1 of 1.

Dates: 03/23 - 23/2021.

List of personnel in logbook:

Name	Initials	Organization/Duties
<u>Paula Whiting</u>	<u>PAW</u>	<u>LSASD / Project Leader</u>
<u>Art Masters</u>	<u>AM</u>	<u>LSASD / Safety Officer</u>
<u>Mike Neill</u>	<u>MN</u>	<u>LSASD / Support</u>
<u>Kevin Simmons</u>	<u>KS</u>	<u>LSASD / Support</u>

General Notes

Date: 3/23/21

Drums 83 and 84 - rusted drums filled w/ solidified asphalt: Drum 83 contained only asphalt, Drum 84 contained asphalt and liquid ($\frac{1}{3}$). pH was neutral - no sample taken. No PID readings. Did not open Drum 85 - unable.

Totes - ~~left~~ ^{pmw} 3/23/21 Non Hw totes w/ high pH of 12 or more will only have pH analysis, not metal analysis. Narrowed down assessed totes to totes w pH 3 and 14 and pH 0-1, total totes = 7.

Alcine Line backside - line closed due to leaking took 3 pH readings that resulted in pH 9-10. No samples will be taken due to low volume and near neutral pH.

Tank 2 has solid gray goop that is $\frac{1}{2}$ tank below top. No pH or PID readings obtained.
Total Tanks Sampled

If applicable, samples preserved with ice:

Ice checked or purchased	By	Date	Time

General Notes

Date: _____

PAW 3/23/21

General Notes

Date: _____

PRW 3/23/21

General Notes

Date: _____

PTW 3/23/21

Instrument Calibration Log

Instrument: TVA 2020 / Mini-Rae 3000

LSASD ID. _____

Instrument: QRAE

LSASD ID. _____

Date: _____ Time: _____

Calibrated by: _____

Notes by: _____

Zero gas Manufacturer:

Pine Environmental

Lot#: JVI-1-14

Expiration: 09/17/2022

Toluene Std. Manufacturer:

Pine Environmental

Lot#: EBH-242A-100-1

Expiration 04/28/2021

Methane Std. Manufacturer:

Pine Environmental

Lots#: 304-401751661-1

Expiration: 03/02/2024

"Precision Gas Mixture" (CO, H₂S, CH₄, 20.9% O₂) Manufacturer: Pine Environmental

Lot#: KBJ-XOS5NI79CP5811P7-3 Expiration: 01/28/2022

TVA 2020 calibration accepted: Y / N

QRae multi-gas monitor calibration accepted: Y / N

Calibration/verification readings

Toluene Standard Value = **100 ppm** Instrument Response Toluene = _____

Methane Standard Value = **500 ppm** Instrument Response Methane = _____

End Check Readings: Date _____ Time _____

Toluene Instrument Response = _____ or **Methane** Instrument Response = _____

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Instrument Calibration Log

Instrument: TVA 2020 Mini-Rae 3000

LSASD ID. SN 592-907683 S1

Instrument: QRAE

LSASD ID. _____

Date: 3/23/21 Time: 0735

Calibrated by: M. Neill

Notes by: PWhiting

Zero gas Manufacturer:

Pine Environmental

Lot#: JVI-1-14

Expiration: 09/17/2022

Toluene Std. Manufacturer:

Pine Environmental

Lot#: EBH-242A-100-1

Expiration 04/28/2021

Methane Std. Manufacturer:

Pine Environmental

Lots#: 304-401751661-1

Expiration: 03/02/2024

"Precision Gas Mixture" (CO, H₂S, CH₄, 20.9% O₂) Manufacturer: Pine Environmental

Lot#: KBJ-XOS5NI79CP5811F7-3 Expiration: 01/28/2022

Mini-Rae 3000 Pw 3/23/21
~~TVA 2020~~ calibration accepted (Y) N

QRAE multi-gas monitor calibration accepted: Y / N

Calibration/verification readings

Toluene Standard Value = **100 ppm** Instrument Response Toluene = 100.1

Methane Standard Value = **500 ppm** Instrument Response Methane = _____

End Check Readings: Date 3/23/21 Time 1650 Pw 3/23/21

Toluene Instrument Response = 97.5 or **Methane Instrument Response** = _____

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XRF Screening

Instrument: Niton XL3T

Serial Number: _____

NIST Standard Reference Materials

Performance check by:

Date:

[illegible]

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DATE: 03/23/21

LSASD Container Screening Table

LSASD No.	Markings	Size	Type	Condition	Open Team	Volume	Contents Description Phase / Color	Air Monitoring FID-PID / CGI / pH	Sample Collected	Sampler / Time
Drum 83	drum rusted	275 / 55 gal	(S) / P / I	G / (F) / P		(F) / 1/2 / E	L / (S)	no reading	NO 15.7% Solid	Neill/Masters
Drum 84	rusted drum	275 / 55 gal	(S) / P / I	G / (F) / P		(F) / 1/2 / E	(L) / S	no reading	NO 13% Solid	Neill/Masters
		275 /	S / P / I	G / F / P		F / 1/2 / E	L / S			
Nonitw Tote Area	Tote T1	(275)	S / (P) / I	(G) / F / P	Am	3/4 F / 1/2 / E	(L) / S	pH 12-13 5 ppm - PID		Masters
"	Tote T2	(275)	S / (P) / I	(G) / F / P	Am	(F) / 1/2 / E	(L) / S	pH 8-9 dark lg		
"	Tote T3	(275)	S / (P) / I	(G) / F / P	Am	(F) very 1/2 / E	(L) / S	pH 9-10 no pid read		
"	Tote T4	(275)	S / (P) / I	(G) / F / P	Am	(F) 1/2 / E	(L) / S	pH 12-13 Diel 8.1 ppm		
"	Tote T5	(275)	S / (P) / I	(G) / F / P	Am	greenish (F) 1/2 / E	(L) / S	pH 8 pid 1.3		
"	Tote T6	(275)	S / (P) / I	(G) / F / P	RM	(F) 1/2 / E	(L) / S	pH 13-14 pid 2.3		
pending analysis " "	Tote T7	(275)	S / (P) / I	(G) / F / P	Am	(F) 1/2 / E	(L) / S	pH 0-1 pid 0.3		
"	Tote T8	(275)	S / (P) / I	(G) / F / P	Am	(F) 1/2 / E	(L) / S	pH 9 pid 1.52		
"	Tote T9	(275)	S / (P) / I	(G) / F / P	Am	(F) 1/2 / E	(L) / S	pH 10 pid 1.8		
"	Tote T10	(275)	S / (P) / I	(G) / F / P	Am	(F) 1/2 / E	(L) / S	pH 11-12 pid 5.4		
"	Tote T11	275 /	S / P / I	G / F / P	Am	F / 1/2 / E	L / S	empty		
"	Tote T12	(275)	S / (P) / I	(G) / F / P	Am	(F) 1/2 / E	(L) / S	pH 12 pid 2.3		

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LSASD Container Screening Table

DATE: 3/23/21

	LSASD No.	Markings	Size	Type	Condition	Open Team	Volume	Contents Description Phase / Color	Air Monitoring FID-PID / CGI / pH	Sample Collected	Sampler / Time
+	NON HW Storage Area	Tote T13	(275)	S (P)	(G) F / P	AM	(F) ½ / E	(L) S	pH 13 pid 12.1		Masters
-	11	Tote T14	(275) 325	S (P)	(G) F / P	AM	(F) ½ / E	(L) S	pH 12 pid 5.1		
	11	Tote T15	(275)	S (P)	(G) F / P	AM	(F) ½ / E	(L) S	pH 5 pid 0.1 background		
+	11	Tote T16	(275)	S (P)	(G) F / P	AM	(F) ½ / E	(L) S	pH 13-14 pid 2.5		
+	11	Tote T17	(275)	S (P)	(G) F / P	AM	(F) ½ / E	(L) S	pH 13 pid 3.6		
	11	Tote T18	(275)	S (P)	(G) F / P	AM	(F) ½ / E	(L) S	pH 9-10 pid 0.1 background		
	11	Tote T19	(275)	S (P)	(G) F / P	AM	(F) ½ / E	(L) S	pH 11 pid 0.5		
+	11	Tote T20	(275)	S (P)	(G) F / P	AM	(F) ½ / E	(L) S	pH 13 pid 5.0		
+	11	Tote T21	(275)	S (P)	(G) F / P	AM	(F) ½ / E	(L) S	pH 13 pid 7.4		
	11	Tote T22	(275)	S (P)	(G) F / P	AM	(F) ½ / E	(L) S	pH 10 pid 1.5		
	11	Tote T23	(275)	S (P)	(G) F / P	AM	(F) ½ / E	(L) S	pH 7 pid 1.5		
	11	Tote T24	(275) 325	S (P)	(G) F / P	AM	(F) ½ / E	(L) S	pH 10-11 pid 10.2		
-	11	Tote T25	(275)	S (P)	(G) F / P	AM	(F) ½ / E	(L) S	pH 12-13 pid 12.6		
			275 /	S / P /	G / F / P		F / ½ / E	L / S			
			275 /	S / P /	G / F / P		F / ½ / E	L / S			

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DATE: 3/23/21 ^{AM 3/23/21}

LSASD Container Screening Table

LSASD No.	Markings	Size	Type	Condition	Open Team	Volume	Contents Description Phase / Color	Air Monitoring FID-PID / CGI / pH	Sample Collected	Sampler / Time
usty evap Tank	Tk-2	275 / 500	S (P)	G (F) / P	AM	F (1/2) / E	L (S)	no reading mtr interference		
	Tk 4 (Hw)	275 / 500	Thin glass S / P	G (F) / P	MN	F (1/2) / E	(L) S	pH 0-1		
20% full	Green tank TK-11	275 /	Thin glass S / P	G (F) / P	AM	F / 1/2 / E	L / S			
Evap Tank	Blue box tank TK-	275 /	(S) / P	(G) F / P	AM	F 1/2 / E	(L) S	pH 12		
	TK 9	275 / 500	S (P)	(G) / F / P	AM	F 1/2 / E	(L) S	pH 5.6 pH 7-8		
		275 /	S / P	G / F / P		F / 1/2 / E	L / S			
		275 /	S / P	G / F / P		F / 1/2 / E	L / S			
		275 /	S / P	G / F / P		F / 1/2 / E	L / S			
		275 /	S / P	G / F / P		F / 1/2 / E	L / S			
		275 /	S / P	G / F / P		F / 1/2 / E	L / S			
		275 /	S / P	G / F / P		F / 1/2 / E	L / S			
		275 /	S / P	G / F / P		F / 1/2 / E	L / S			
		275 /	S / P	G / F / P		F / 1/2 / E	L / S			
		275 /	S / P	G / F / P		F / 1/2 / E	L / S			
		275 /	S / P	G / F / P		F / 1/2 / E	L / S			

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LSASD Container Screening Table

DATE:

LSASD No.	Markings	Size	Type	Condition	Open Team	Volume	Contents Description Phase / Color	Air Monitoring FID-PID / CGI / pH	Sample Collected	Sampler / Time
		275 /	S / P /	G / F / P		F / ½ / E	L / S			
		275 /	S / P /	G / F / P		F / ½ / E	L / S			
		275 /	S / P /	G / F / P		F / ½ / E	L / S			
		275 /	S / P /	G / F / P		F / ½ / E	L / S			
		275 /	S / P /	G / F / P		F / ½ / E	L / S			
		275 /	S / P /	G / F / P		F / ½ / E	L / S			
		275 /	S / P /	G / F / P		F / ½ / E	L / S			
		275 /	S / P /	G / F / P		F / ½ / E	L / S			
		275 /	S / P /	G / F / P		F / ½ / E	L / S			
		275 /	S / P /	G / F / P		F / ½ / E	L / S			
		275 /	S / P /	G / F / P		F / ½ / E	L / S			
		275 /	S / P /	G / F / P		F / ½ / E	L / S			
		275 /	S / P /	G / F / P		F / ½ / E	L / S			
		275 /	S / P /	G / F / P		F / ½ / E	L / S			
		275 /	S / P /	G / F / P		F / ½ / E	L / S			
		275 /	S / P /	G / F / P		F / ½ / E	L / S			

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~~DATE:~~

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Sampling Investigation

Date: 3/23/21 Station ID: S01 Sample ID: S01

Sample Team: [✓] Paula Whiting
(Check, as appropriate) [✓] Art Masters
[✓] Mike Neill
[✓] Kevin Simmons

Duties
Logbook
Sampler
GPS
Sampler

Description of sample location:
Drainage Ditch behind main building - Laydown area

LSASD Operating Procedures: LSASDPROC-302-R4 Waste Sampling []
LSASDPROC-300-R4 Soil Sampling [✓]
Other: _____

Specific Sampling Procedure/Method Used (including equipment ID, as appropriate):
dark gritty soil w/ brick and shingle pieces
glass pan w/ SS Spoon, 0-2"

Description of Media/Sample: 3 pt 5 ft linear composite
1

Other pertinent information (weather conditions, photos, etc.):
GPS:
overcast N 34.02623, W 086.0942 - M. Neill
cool
PIC 1 - Drainage ditch

Sample Collected: (Yes) or No Sample Time 8:40 A CDT

Laboratory Analyses and containers:

Analyses	Container	# of Containers	Preservation	Notes
Metals / TCLP	8 oz	1	none	
pH	8 oz	1	AW 3/23/21	

Split sample? (Y) or N

Sampling Investigation

Date: 3/23/21 Station ID: WA01 Sample ID: WA01

Sample Team: [☒ Paula Whiting
(Check, as appropriate) [☐ Art Masters
[☒ Mike Neill
[☒ Kevin Simmons

Duties

Sampler / Logbook
Sampler
Sample labeling

Description of sample location:

2x2 containers in front of drainage ditch
behind back of main building - lay down
yard

LSASD Operating Procedures: LSASDPROC-302-R4 Waste Sampling [☒]

LSASDPROC-300-R4 Soil Sampling [☐]

Other: _____

Specific Sampling Procedure/Method Used (including equipment ID, as appropriate):

glass pan w/ ss spoon composite

Description of Media Sample:

fine green dust w/ white specs

Other pertinent information (weather conditions, photos, etc.):

PIC 2-3 Green dust on 2x2 conts near
drainage ditch
See GPS from S01

Sample Collected: Yes or No Sample Time 0900

Laboratory Analyses and containers:

Analyses	Container	# of Containers	Preservation	Notes
Metals / TCLP	8 oz	1	none	
pH	8 oz	1	PAW	03/23/21

Split sample? Y or N

3/23/21
Sampling Investigation

Date: 3/23/21 Station ID: ~~WTF~~ T06 Sample ID: T06

Sample Team: [✓] Paula Whiting
(Check, as appropriate) [✓] Art Masters
[✓] Mike Neill
[✓] Kevin Simmons

Duties

Logbook
Sampler
Sampler/Equipment
Sample Custody

Description of sample location:

Non HW Storage Area totes stacked 2 high

LSASD Operating Procedures: LSASDPROC-302-R4 Waste Sampling [✓]

LSASDPROC-300-R4 Soil Sampling []

Other: _____

Specific Sampling Procedure/Method Used (including equipment ID, as appropriate):

glass coliwassanto 8 oz glass jar

Description of Media/Sample:

greenish blue liquid

Other pertinent information (weather conditions, photos, etc.):

indoors, manufacturing floor, stacked 2 high
smoking allowed

Sample Collected: (Yes) or No Sample Time 1325

Laboratory Analyses and containers:

Analyses	Container	# of Containers	Preservation	Notes
			none	
Metals / TCLP	8 oz	1	I	
pH	8 oz	1	I	

Split sample? (Y) or N

Sampling Investigation

Date: 2/23/21 Station ID: T07 Sample ID: T07

Sample Team: [] Paula Whiting
(Check, as appropriate) [☒] Art Masters
[☒] Mike Neill
[] Kevin Simmons

Duties

Logbook
Sampler
Sampler
Sample chain custody

Description of sample location:

non-HW Storage Area (2nd)

LSASD Operating Procedures: LSASDPROC-302-R4 Waste Sampling [☒]
LSASDPROC-300-R4 Soil Sampling []
Other: _____

Specific Sampling Procedure/Method Used (including equipment ID, as appropriate):

glass coliwasa to 8 oz glass jars

Description of Media/Sample:

dark green/blue liquid

Other pertinent information (weather conditions, photos, etc.):

indoors, low light storage area
totes stacked 2-high
manufacturing floor - smoking allowed

Sample Collected: ☒ Yes or No Sample Time 1337

Laboratory Analyses and containers:

Analyses	Container	# of Containers	Preservation	Notes
Metals / TCLP	8 oz	1	<u>none</u>	
pH	8 oz	1	<u>none</u>	

Split sample? ☒ Y or N

Sampling Investigation

Date: 3/23/21 Station ID: T13 Sample ID: T13

Sample Team: [✓] Paula Whiting
(Check, as appropriate) [✓] Art Masters
[✓] Mike Neill
[✓] Kevin Simmons

Duties

Sampler
Sampler
Sampler
Logbook

Description of sample location:

non HW Storage Area (2nd)

LSASD Operating Procedures: LSASDPROC-302-R4 Waste Sampling [✓]
LSASDPROC-300-R4 Soil Sampling []
Other: _____

Specific Sampling Procedure/Method Used (including equipment ID, as appropriate):

glass colwasa to 8oz glass jars

Description of Media/Sample:

clear, yellowish liquid

Other pertinent information (weather conditions, photos, etc.):

indoors, low light storage area
bates stacked 2 high

Sample Collected: Yes or No Sample Time 1344

Laboratory Analyses and containers:

Analyses	Container	# of Containers	Preservation	Notes
Metals / TCLP	8 oz	1	<u>non2</u>	
pH	8 oz	1	<u>non2</u>	

Split sample? Y or N

Sampling Investigation

Date: 3/23/12 Station ID: T16 Sample ID: T16

Sample Team: [☒ Paula Whiting
(Check, as appropriate) [☒ Art Masters
[☒ Mike Neill
[☒ Kevin Simmons

Duties

Logbook
Sampler
Sampler/Equipment
Sample Chain of Custody

Description of sample location:

Non HW Storage Area (2nd)

LSASD Operating Procedures: LSASDPROC-302-R4 Waste Sampling [☒
LSASDPROC-300-R4 Soil Sampling []
Other: _____

Specific Sampling Procedure/Method Used (including equipment ID, as appropriate):

glass containers into 8 oz jars

Description of Media/Sample:

light green clear liquid

Other pertinent information (weather conditions, photos, etc.):

indoors, manufacturing floor - smoking allowed
totes stacked 2 high
low light storage area

Sample Collected: Yes or No Sample Time 1352

Laboratory Analyses and containers:

Analyses	Container	# of Containers	Preservation	Notes
Metals / TCLP	8 oz	1	none	
pH	8 oz	1	none	

Split sample? Y or N

Sampling Investigation

Date: 3/23/21 Station ID: T17 Sample ID: T17

Sample Team: [☒ Paula Whiting
(Check, as appropriate) [☒ Art Masters
[☒ Mike Neill
[☒ Kevin Simmons

Duties: Logbook
sampler
sampler/equipment
sample custody

Description of sample location: new HW Storage Area (1st)
near exit door

LSASD Operating Procedures: LSASDPROC-302-R4 Waste Sampling [☒]
LSASDPROC-300-R4 Soil Sampling [☐]
Other: _____

Specific Sampling Procedure/Method Used (including equipment ID, as appropriate):
glass containers into 8oz jars

Description of Media/Sample: clear green liquid

Other pertinent information (weather conditions, photos, etc.):
indoors, many floors - smoking allowed
toiles stacked 2-high
low light storage area

Sample Collected: Yes or No Sample Time 1358

Laboratory Analyses and containers:

Analyses	Container	# of Containers	Preservation	Notes
Metals / TCLP	8 oz	1	none	
pH	8 oz	1	none	

Split sample? Y or N

Sampling Investigation

Date: 3/23/21 Station ID: T20 Sample ID: T20

Sample Team: [☒ Paula Whiting
(Check, as appropriate) [☒ Art Masters
[☒ Mike Neill
[☒ Kevin Simmons

Duties

logbook
sampler
sampler/equipment
sample custody

Description of sample location:

non-HW Storage Area (1st)
near ext door

LSASD Operating Procedures: LSASDPROC-302-R4 Waste Sampling ☒
LSASDPROC-300-R4 Soil Sampling ☐
Other: _____

Specific Sampling Procedure/Method Used (including equipment ID, as appropriate):

glass container into 8oz glass jars

Description of Media/Sample:

clear green liquid

Other pertinent information (weather conditions, photos, etc.):

Indoors, manuf. floor - smoking allowed
totes stacked 2 high
low light storage area

Sample Collected: ☒ Yes or No Sample Time 1401

Laboratory Analyses and containers:

Analyses	Container	# of Containers	Preservation	Notes
Metals / TCLP	8 oz	1	none	
pH	8 oz	1	none	

Split sample? ☒ Y or N

Sampling Investigation

Date: 3/23/21 Station ID: Ta1 Sample ID: Ta1

Sample Team: [☒ Paula Whiting
(Check, as appropriate) [☒ Art Masters
[☒ Mike Neill
[☒ Kevin Simmons

Duties

logbook
sampler
sampler/equip
sample custody

Description of sample location:

Northw storage area (1st)
near exit door

LSASD Operating Procedures: LSASDPROC-302-R4 Waste Sampling [☒]

LSASDPROC-300-R4 Soil Sampling []

Other: _____

Specific Sampling Procedure/Method Used (including equipment ID, as appropriate):

glass container in 8oz glass jars

Description of Media/Sample:

yellowish green (pink) liquid

Other pertinent information (weather conditions, photos, etc.):

indoors, manuf area - smoking allowed
totes stacked 2-high
low light storage area

Sample Collected: (Yes) or No Sample Time 1404

Laboratory Analyses and containers:

Analyses	Container	# of Containers	Preservation	Notes
Metals / TCLP	8 oz	1	none	
pH	8 oz	1	none	

Split sample? (Y) or N

Sampling Investigation

Date: 3/23/21 Station ID: ET01 Sample ID: ET01

Sample Team: [☒ Paula Whiting
(Check, as appropriate) [☒ Art Masters
[☐ Mike Neill
[☒ Kevin Simmons

Duties

Logbook
Sampler
Samples / equipment
Sample custody

Description of sample location:
Evaporation Tank in WWTP Tank Farm

LSASD Operating Procedures: LSASDPROC-302-R4 Waste Sampling [☒
LSASDPROC-300-R4 Soil Sampling [☐
Other: _____

Specific Sampling Procedure/Method Used (including equipment ID, as appropriate):
plastic tank cal was a into 1L jar

Description of Media/Sample:
dark liquid (Steam off liquid)
dark green clear

Other pertinent information (weather conditions, photos, etc.):
Indoors, manuf floor - smoking allowed
Tank farm
low light area near rolling door

Sample Collected: (Yes) or No Sample Time 1416

Laboratory Analyses and containers:

Analyses	Container	# of Containers	Preservation	Notes
Metals / TCLP	8 oz <u>1L</u>	1	<u>none</u>	
pH	8 oz	1	<u>none</u>	

Split sample? (Y) or N

Sampling Investigation

Date: 3/23/21 Station ID: TK09 Sample ID: TK09

Sample Team: [☒ Paula Whiting
(Check, as appropriate) [☒ Art Masters
[☒ Mike Neill
[☒ Kevin Simmons

Duties

logbook
sampler
sampler/equipment
sample custody

Description of sample location:

WWTP Tank Farm - dome shaped
fiberglass brown tank

LSASD Operating Procedures: LSASDPROC-302-R4 Waste Sampling

[☒]

LSASDPROC-300-R4 Soil Sampling

[☐]

Other: _____

Specific Sampling Procedure/Method/Used (including equipment ID, as appropriate):

grab sample w/ dipper into 8 oz jar

Description of Media/Sample:

clear yellow liquid w/ heavy ammonia
smell

Other pertinent information (weather conditions, photos, etc.):

Indoors manuf floor - smoking allowed
WWTP Tank Farm
low light area near rolling door

Sample Collected: (Yes) or No Sample Time 1425

Laboratory Analyses and containers:

Analyses	Container	# of Containers	Preservation	Notes
Metals / TCLP	8 oz	1	none	
pH	8 oz	1	none	

Split sample? (Y) or N

Sampling Investigation

Date: 3/23/21 Station ID: TK08 Sample ID: TK08

Sample Team: ☒ Paula Whiting
(Check, as appropriate) ☒ Art Masters
☒ Mike Neill
☒ Kevin Simmons

Duties

log book
Sampler
Sampler/Equip
Sample Custody

Description of sample location:

WWTP Tank Farm - small green tank

LSASD Operating Procedures: LSASDPROC-302-R4 Waste Sampling ☒
LSASDPROC-300-R4 Soil Sampling ☐
Other: _____

Specific Sampling Procedure/Method Used (including equipment ID, as appropriate):

plastic tank colwasa into 1 L jar glass

Description of Media/Sample:

murky brown liquid

Other pertinent information (weather conditions, photos, etc.):

indoor main floor - smoking allowed
WWTP Tank Farm
low light area near rolling door

Sample Collected: ☒ Yes or No Sample Time 1430

Laboratory Analyses and containers:

Analyses	Container	# of Containers	Preservation	Notes
Metals / TCLP	8 oz <u>1L</u>	1	<u>none</u>	
pH	8 oz <u>1L</u>	1	<u>none</u>	

Split sample? ☒ Y or N

Sampling Investigation

Date: 3/23/21 Station ID: BBT Sample ID: BBT

Sample Team: [☒] Paula Whiting
(Check, as appropriate) [☒] Art Masters
[☒] Mike Neill
[☒] Kevin Simmons

Duties

log book
sampler
sampler, equipment
sample custody

Description of sample location:

WWTP Tank Farm - Big Brown Tank

LSASD Operating Procedures: LSASDPROC-302-R4 Waste Sampling

[☒]

LSASDPROC-300-R4 Soil Sampling

[☐]

Other: _____

Specific Sampling Procedure/Method Used (including equipment ID, as appropriate):

plastic tank cohase into 8oz glass jars

Description of Media/Sample:

dark amber liquid possibly only
clear

Other pertinent information (weather conditions, photos, etc.):

indoor manuf floor - smoking allowed
WWTP Tank Farm
low light area near rolling door

Sample Collected:

☒ Yes

or No

Sample Time

1444

Laboratory Analyses and containers:

Analyses	Container	# of Containers	Preservation	Notes
Metals / TCLP	8 oz	1	none	
pH	8 oz	1	none	

Split sample? ☒ Y or N

OR
ppw
3/23/21
using 8oz glass jars

Sampling Investigation

Date: 3/23/21 Station ID: GT Sample ID: GT

Sample Team: [☒ Paula Whiting
(Check, as appropriate) [☒ Art Masters
[☐ Mike Neill
[☒ Kevin Simmons

Duties

logbook
sampler
sampler/equip
sample custody

Description of sample location:

WWTP Tank farm - Green Tank (GT)
(unlabeled)

LSASD Operating Procedures: LSASDPROC-302-R4 Waste Sampling

[☒]

LSASDPROC-300-R4 Soil Sampling

[☐]

Other: _____

Specific Sampling Procedure/Method Used (including equipment ID, as appropriate):

auger bucket w/ extension for tank
ss spoon into glass pan for composite
- 8oz jars

Description of Media/Sample:

beige
sandy brown silty sludge

Other pertinent information (weather conditions, photos, etc.):

indoor manuf floor - smoking allowed
WWTP Tank Farm
low light area near rolling door

Sample Collected: Yes or No

Sample Time

1458

Laboratory Analyses and containers:

Analyses	Container	# of Containers	Preservation	Notes
Metals / TCLP	8 oz	1	none	
pH	8 oz	1	<u>pan 3/23/21</u>	

Split sample? Y or N

Sampling Investigation

Date: 3/23/21 Station ID: TK 02 Sample ID: TK 02

Sample Team: ☒ Paula Whiting
(Check, as appropriate) ☒ Art Masters
☒ Mike Neill
☒ Kevin Simmons

Duties

Logbook
Sampler
Sampler equipment
Sample custody

Description of sample location:

WWTP Tank Farm - Tank 02

LSASD Operating Procedures: LSASDPROC-302-R4 Waste Sampling

LSASDPROC-300-R4 Soil Sampling

Other:

☒
☐

Specific Sampling Procedure/Method Used (including equipment ID, as appropriate):

dipper w/ 6 foot handle into glass pan
33 spoon into 1L jars

Description of Media/Sample:

gray sludge - runny, very gooey

Other pertinent information (weather conditions, photos, etc.):

indoor manuf floor - smoking allowed
WWTP Farm Tank
low light area, near rolling door

Sample Collected: ☒ Yes or No Sample Time 1507

Laboratory Analyses and containers:

Analyses	Container	# of Containers	Preservation	Notes
Metals / TCLP	8 oz	1	none	
pH	8 oz	1	none	

Split sample? ☒ Y or N

Sampling Investigation

Date: 3/23/21 Station ID: CP Sample ID: CP

Sample Team: [☒ Paula Whiting
(Check, as appropriate) [☒ Art Masters
[☒ Mike Neill
[☒ Kevin Simmons

Duties

logbook
sampler
sampler
sample custody
plating tank

Description of sample location:

main floor - Cadmium Line

LSASD Operating Procedures: LSASDPROC-302-R4 Waste Sampling [☒]
LSASDPROC-300-R4 Soil Sampling [☐]
Other: _____

Specific Sampling Procedure/Method Used (including equipment ID, as appropriate):

dipper w/ 3 foot extension to glass pan
w/ SS spoon to 8oz glass jar

Description of Media/Sample:

yellow crumbs - carbonates

Other pertinent information (weather conditions, photos, etc.):

indoor, main floor
Cadmium Plating Tank - Cadmium Line
low light area - tanks out of service
for 72 to 413

Sample Collected: (Yes) or No Sample Time 1530

Laboratory Analyses and containers:

Analyses	Container	# of Containers	Preservation	Notes
Metals / TCLP	8 oz	1		
pH	8 oz	1		
				<u>pen 3/23/21</u>

Split sample? (Y) or N

Sampling Investigation

Date: _____ Station ID: _____ Sample ID: _____

Duties

Sample Team: [] Paula Whiting
(Check, as appropriate) [] Art Masters
[] Mike Neill
[] Kevin Simmons

Description of sample location:

LSASD Operating Procedures: LSASDPROC-302-R4 Waste Sampling []
LSASDPROC-300-R4 Soil Sampling []
Other: _____

Specific Sampling Procedure/Method Used (including equipment ID, as appropriate):

Description of Media/Sample:

Other pertinent information (Weather conditions, photos, etc.):

Sample Collected: Yes or No Sample Time _____

Laboratory Analyses and containers:

Analyses	Container	# of Containers	Preservation	Notes
Metals / TCLP	8 oz	1		
pH	8 oz	1		

Split sample? Y or N

Sampling Investigation

Date: _____ Station ID: _____ Sample ID: _____

Duties

Sample Team: [] Paula Whiting
(Check, as appropriate) [] Art Masters
[] Mike Neill
[] Kevin Simmons

Description of sample location:

LSASD Operating Procedures: LSASDPROC-302-R4 Waste Sampling []
LSASDPROC-300-R4 Soil Sampling []
Other: _____

Specific Sampling Procedure/Method Used (including equipment ID, as appropriate):

Description of Media/Sample:

Other pertinent information (weather conditions, photos, etc.):

Sample Collected: Yes or No Sample Time _____

Laboratory Analyses and containers:

Analyses	Container	# of Containers	Preservation	Notes
Metals / TCLP	8 oz	1		
pH	8 oz	1		

Split sample? Y or N

Sampling Investigation

Date: _____ Station ID: _____ Sample ID: _____

Duties

Sample Team: [] Paula Whiting
(Check, as appropriate) [] Art Masters
[] Mike Neill
[] Kevin Simmons

Description of sample location:

LSASD Operating Procedures: LSASDPROC-302-R4 Waste Sampling []
LSASDPROC-300-R4 Soil Sampling []
Other: _____

Specific Sampling Procedure/Method Used (including equipment ID, as appropriate):

Description of Media/Sample:

Other pertinent information (weather conditions, photos, etc.):

Sample Collected: Yes or No Sample Time _____

Laboratory Analyses and Containers:

Analyses	Container	# of Containers	Preservation	Notes
Metals / TCLP	8 oz	1		
pH	8 oz	1		

Split sample? Y or N

Sampling Investigation

Date: _____ Station ID: _____ Sample ID: _____

Sample Team: [] Paula Whiting
(Check, as appropriate) [] Art Masters
[] Mike Neill
[] Kevin Simmons

Duties

Description of sample location:

LSASD Operating Procedures: LSASDPROC-302-R4 Waste Sampling []
LSASDPROC-300-R4 Soil Sampling []
Other: _____

Specific Sampling Procedure/Method Used (including equipment ID, as appropriate):

Description of Media/Sample:

Other pertinent information (weather conditions, photos, etc.):

Sample Collected: Yes or No Sample Time _____

Laboratory Analyses and containers:

Analyses	Container	# of Containers	Preservation	Notes
Metals / TCLP	8 oz	1		
pH	8 oz	1		

Split sample? Y or N

Sampling Investigation

Date: _____ Station ID: _____ Sample ID: _____

Duties

Sample Team: [] Paula Whiting
(Check, as appropriate) [] Art Masters
[] Mike Neill
[] Kevin Simmons

Description of sample location:

LSASD Operating Procedures: LSASDPROC-302-R4 Waste Sampling []

LSASDPROC-300-R4 Soil Sampling []

Other: _____

Specific Sampling Procedure/Method Used (including equipment ID, as appropriate):

Description of Media/Sample:

Other pertinent information (weather conditions, photos, etc.):

Sample Collected: Yes or No Sample Time _____

Laboratory Analyses and containers:

Analyses	Container	# of Containers	Preservation	Notes
Metals / TCLP	8 oz	1		
pH	8 oz	1		

(Split sample? Y or N

Sampling Investigation

Date: _____ Station ID: _____ Sample ID: _____

Duties

Sample Team: [] Paula Whiting
(Check, as appropriate) [] Art Masters
[] Mike Neill
[] Kevin Simmons

Description of sample location:

LSASD Operating Procedures: LSASDPROC-302-R4 Waste Sampling []

LSASDPROC-300-R4 Soil Sampling []

Other: _____

Specific Sampling Procedure/Method Used (including equipment ID, as appropriate):

Description of Media/Sample:

Other pertinent information (weather conditions, photos, etc.):

Sample Collected: Yes or No Sample Time _____

Laboratory Analyses and containers:

Analyses	Container	# of Containers	Preservation	Notes
Metals / TCLP	8 oz	1		
pH	8 oz	1		

Split sample? Y or N

Final Notes

Date: _____

PAW 3/23/24

Final Notes

Date: _____

HW 3/23/21

Appendix C – Receipt for Samples

USEPA Region 4 COC (REGION COPY)

DateShipped: 3/24/2021

CarrierName: GOV Carrier

AirbillNo: n/a

Receipt for Samples

~~CHAIN OF CUSTODY RECORD~~

Techtrix, Inc/AL

Project Number: 21-0164

Cooler #:

No: 03/23/21-0001

Lab: Region 4 Lab

Lab Contact: Mike Beall

Lab Phone: 706-355-8856

Sample Identifier	CLP Sample No.	Media/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	Sample Type
T20		Waste/ Masters, Art	Grab	TCLPM-TMTL(35), pH(35)	A (None), B (None) (2)	T20	03/23/2021 14:01	Field Sample
T21		Waste/ Masters, Art	Grab	TCLPM-TMTL(35), pH(35)	A (None), B (None) (2)	T21	03/23/2021 14:04	Field Sample
TK02		Waste/ Masters, Art	Grab	TCLPM-TMTL(35), pH(35)	A (None), B (None) (2)	TK02	03/23/2021 15:07	Field Sample
TK08		Waste/ Masters, Art	Grab	TCLPM-TMTL(35), pH(35)	A (None), B (None) (4) (2) Paul 3/23/21	TK08	03/23/2021 14:30	Field Sample
TK09		Waste/ Masters, Art	Grab	TCLPM-TMTL(35), pH(35)	A (None), B (None) (2)	TK09	03/23/2021 14:25	Field Sample
WA01		Waste/ Whiting, Paula	Grab	TCLPM-TMTL(35)	A (None) (1)	WA01	03/23/2021 09:00	Field Sample

Special Instructions:	Shipment for Case Complete? Y
	Samples Transferred From Chain of Custody #
Analysis Key: TCLPM-TMTL=(TCLPM-TMTL) TCLP + TMTL (No Hg), pH=(CNA) pH	

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
Samples	Paula Whiting, EPA	3/24/21 7:44A	Paula Ben Techtrix	3/24/21 7:45AM	Good

USEPA Region 4 COC (REGION COPY)

Date Shipped: 3/24/2021

Carrier Name: GOV Carrier

Airbill No: n/a

Receipt for Samples

CHAIN OF CUSTODY RECORD

Techtrix, Inc/AL

Project Number: 21-0164

Cooler #:

No: 03/23/21-0001

Lab: Region 4 Lab

Lab Contact: Mike Beall

Lab Phone: 706-355-8856

Sample Identifier	CLP Sample No.	Media/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	Sample Type
BBT		Waste/ Masters, Art	Grab	TCLPM-TMTL(35), pH(35)	A (None), B (None) (2)	BBT	03/23/2021 14:44	Field Sample
CP		Waste/ Masters, Art	Grab	TCLPM-TMTL(35)	A (None) (1)	CP	03/23/2021 15:30	Field Sample
ET01		Waste/ Masters, Art	Grab	TCLPM-TMTL(35), pH(35)	A (None), B (None) (2)	ET01	03/23/2021 14:16	Field Sample
GT		Waste/ Masters, Art	Grab	TCLPM-TMTL(35)	A (None) (1)	GT	03/23/2021 14:58	Field Sample
S01		Sediment/ Masters, Art	Comp.	TCLPM-TMTL(35)	A (None) (1)	S01	03/23/2021 08:40	Field Sample
T06		Waste/ Masters, Art	Grab	TCLPM-TMTL(35), pH(35)	A (None), B (None) (2)	T06	03/23/2021 13:25	Field Sample
T07		Waste/ Masters, Art	Grab	TCLPM-TMTL(35), pH(35)	A (None), B (None) (2)	T07	03/23/2021 13:37	Field Sample
T13		Waste/ Whiting, Paula	Grab	TCLPM-TMTL(35), pH(35)	A (None), B (None) (2)	T13	03/23/2021 13:44	Field Sample
T16		Waste/ Masters, Art	Grab	TCLPM-TMTL(35), pH(35)	A (None), B (None) (2)	T16	03/23/2021 13:52	Field Sample
T17		Waste/ Masters, Art	Grab	TCLPM-TMTL(35), pH(35)	A (None), B (None) (2)	T17	03/23/2021 13:58	Field Sample

Special Instructions:	Shipment for Case Complete? Y
	Samples Transferred From Chain of Custody #
Analysis Key: TCLPM-TMTL=(TCLPM-TMTL) TCLP + TMTL (No Hg), pH=(CNA) pH	

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
Samples	Paula Beall EPA	3/24/21 7:44 AM	Paula Beall Techtrix Inc.	3/24/21 7:45 AM	Good

Appendix D – Laboratory Analytical Data Reports



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Laboratory Services and Applied Science Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 21-0164

Project: 21-0164, Techtrix, Inc. - Reported by Floyd Wellborn

April 13, 2021

MEMORANDUM

SUBJECT: FINAL Analytical Report
Project: 21-0164, Techtrix, Inc.

FROM: Floyd Wellborn
LSB Inorganic Chemistry Section Chief

THRU: Sandra Aker, Chief
Laboratory Services Branch

TO: Paula Whiting

Attached are the final results for the analytical groups listed below. This report shall not be reproduced except in full without approval of the Region 4 laboratory. These analyses were performed in accordance with the Laboratory Services Branch's Laboratory Operations and Quality Assurance Manual (LSB LOQAM) found at www.epa.gov/region4/sesd/asbsop. Any unique project data quality objectives specified in writing by the data requestor have also been incorporated into the data unless otherwise noted in the Report Narrative. Chemistry data have been verified based on the LSB LOQAM specifications and have been qualified by this laboratory if the applicable quality control criteria were not met. Verification is defined in Chapter 5 of the LSB LOQAM. For a listing of specific data qualifiers and explanations, please refer to the Data Qualifier Definitions included in this report. The reported results are accurate within the limits of the method(s) and are representative only of the samples as received by the laboratory.

Analyses Included in this report:

Method Used:

Accreditations:

Physical Properties (PHYSP)

Physical Properties

EPA 200.2 (Soil)

ISO



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Laboratory Services and Applied Science Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 21-0164

Project: 21-0164, Techtrix, Inc. - Reported by Floyd Wellborn

Sample Disposal Policy

Due to limited space for long term sample storage, LSB's policy is to dispose of samples on a periodic schedule. Air samples collected in summa canisters will be disposed of 30 days following the issuance of this report. All other sample media including original samples, sample extracts and or digestates will be disposed of, in accordance with applicable regulations, 60 days from the date of this report.

This sample disposal policy does not apply to criminal samples which are held until the laboratory is notified by the criminal investigators that case development and litigation are complete.

These samples may be held in the laboratory's custody for a longer period of time. If samples require storage beyond the 60-day period, please contact the Sample Control Coordinator by e-mail at R4SampleCustody@epa.gov.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Laboratory Services and Applied Science Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 21-0164

Project: 21-0164, Techtrix, Inc. - Reported by Floyd Wellborn

SAMPLES INCLUDED IN THIS REPORT

Project: 21-0164, Techtrix, Inc.

Sample ID	Laboratory ID	Matrix	Date Collected	Date Received
S01	E211303-05	Sediment	3/23/21 08:40	3/24/21 11:50



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Laboratory Services and Applied Science Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 21-0164

Project: 21-0164, Techtrix, Inc. - Reported by Floyd Wellborn

DATA QUALIFIER DEFINITIONS

ACRONYMS AND ABBREVIATIONS

CAS Chemical Abstracts Service

Note: Analytes with no known CAS identifiers have been assigned codes beginning with "E", the EPA ID as assigned by the EPA Substance Registry System (www.epa.gov/srs), or beginning with "R4-", a unique identifier assigned by the EPA Region 4 laboratory.

MDL Method Detection Limit - The minimum concentration of a substance (an analyte) that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero.

MRL Minimum Reporting Limit - Analyte concentration that corresponds to the lowest demonstrated level of acceptable quantitation. The MRL is sample-specific and accounts for preparation weights and volumes, dilutions, and moisture content of soil/sediments.

TIC Tentatively Identified Compound - An analyte identified based on a match with the instrument software's mass spectral library. A calibration standard has not been analyzed to confirm the compound's identification or the estimated concentration reported.

ACCREDITATIONS:

ISO Accredited to ISO/IEC 17025:2017 and accreditation requirements for Forensic Science Testing Laboratories.

Refer to the certificate and scope of accreditation FT-0330 at:
<http://www.epa.gov/aboutepa/about-region-4s-science-and-ecosystem-support-division-sesd>

NR Not accredited for this test.

DW Accredited for conformance with ISO/IEC 17025:2017 and testing elements in the Fifth Edition of the Manual for the Certification of Laboratories Analyzing Drinking Water, EPA 815-R-05-004, 2005.

Refer to the certificate and scope of accreditation AT-2628 at:
<http://www.epa.gov/aboutepa/about-region-4s-science-and-ecosystem-support-division-sesd>

ISO/DW Accredited to ISO/IEC 17025:2017 and accreditation requirements for Forensic Science Testing Labs, and conformance with ISO/IEC 17025:2017 and testing elements in the Manual for the Certification of Laboratories Analyzing Drinking Water.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Laboratory Services and Applied Science Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 21-0164

Project: 21-0164, Techtrix, Inc. - Reported by Floyd Wellborn

Physical Properties

Project: 21-0164, Techtrix, Inc.

Sample ID: S01

Lab ID: E211303-05

Station ID: S01

Matrix: Sediment

Date Collected: 3/23/21 8:40

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
E1642941	% Solids	74		%	0.0	3/31/21 10:52	4/05/21 10:37	EPA 200.2



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 21-0164
Project: 21-0164, Techtrix, Inc. - Reported by Floyd Wellborn

Physical Properties (PHYSP) - Quality Control
US-EPA, Region 4, LSASD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch 2103081 - M % Solids

Duplicate (2103081-DUP1)

Source: E211303-05

Prepared: 03/31/21 Analyzed: 04/05/21

EPA 200.2

% Solids	73.736	0.0	%		73.899			0.221	10	
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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Laboratory Services and Applied Science Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 21-0164

Project: 21-0164, Techtrix, Inc. - Reported by Floyd Wellborn

Notes and Definitions for QC Samples



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D.A.R.T. Id: 21-0164

Project: 21-0164, Techtrix, Inc. - Reported by Floyd Wellborn

May 7, 2021

MEMORANDUM

SUBJECT: FINAL Analytical Report
Project: 21-0164, Techtrix, Inc.

FROM: Floyd Wellborn
LSB Inorganic Chemistry Section Chief

THRU: Sandra Aker, Chief
Laboratory Services Branch

TO: Paula Whiting

Attached are the final results for the analytical groups listed below. This report shall not be reproduced except in full without approval of the Region 4 laboratory. These analyses were performed in accordance with the Laboratory Services Branch's Laboratory Operations and Quality Assurance Manual (LSB LOQAM) found at www.epa.gov/region4/sesd/asbsop. Any unique project data quality objectives specified in writing by the data requestor have also been incorporated into the data unless otherwise noted in the Report Narrative. Chemistry data have been verified based on the LSB LOQAM specifications and have been qualified by this laboratory if the applicable quality control criteria were not met. Verification is defined in Chapter 5 of the LSB LOQAM. For a listing of specific data qualifiers and explanations, please refer to the Data Qualifier Definitions included in this report. The reported results are accurate within the limits of the method(s) and are representative only of the samples as received by the laboratory.

Analyses Included in this report:	Method Used:	Accreditations:
TCLP Metals (TCLPM)		
TCLP Metals	EPA 200.8 (Waste)	ISO
TCLP Metals	EPA 6010 (Waste)	ISO
Total Metals (TMTL)		
Total Metals	EPA 200.8 (Soil)	ISO
Total Metals	EPA 200.8 (Waste)	ISO
Total Metals	EPA 6010 (Soil)	ISO
Total Metals	EPA 6010 (Waste)	ISO



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Sample Disposal Policy

Due to limited space for long term sample storage, LSB's policy is to dispose of samples on a periodic schedule. Air samples collected in summa canisters will be disposed of 30 days following the issuance of this report. All other sample media including original samples, sample extracts and or digestates will be disposed of, in accordance with applicable regulations, 60 days from the date of this report.

This sample disposal policy does not apply to criminal samples which are held until the laboratory is notified by the criminal investigators that case development and litigation are complete.

These samples may be held in the laboratory's custody for a longer period of time. If samples require storage beyond the 60-day period, please contact the Sample Control Coordinator by e-mail at R4SampleCustody@epa.gov.



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SAMPLES INCLUDED IN THIS REPORT

Project: 21-0164, Techtrix, Inc.

Sample ID	Laboratory ID	Matrix	Date Collected	Date Received
BBT	E211303-01	Waste	3/23/21 14:44	3/24/21 11:50
CP	E211303-02	Waste	3/23/21 15:30	3/24/21 11:50
ET01	E211303-03	Waste	3/23/21 14:16	3/24/21 11:50
GT	E211303-04	Waste	3/23/21 14:58	3/24/21 11:50
S01	E211303-05	Sediment	3/23/21 08:40	3/24/21 11:50
T06	E211303-06	Waste	3/23/21 13:25	3/24/21 11:50
T07	E211303-07	Waste	3/23/21 13:37	3/24/21 11:50
T13	E211303-08	Waste	3/23/21 13:44	3/24/21 11:50
T16	E211303-09	Waste	3/23/21 13:52	3/24/21 11:50
T17	E211303-10	Waste	3/23/21 13:58	3/24/21 11:50
T20	E211303-11	Waste	3/23/21 14:01	3/24/21 11:50
T21	E211303-12	Waste	3/23/21 14:04	3/24/21 11:50
TK02	E211303-13	Waste	3/23/21 15:07	3/24/21 11:50
TK08	E211303-14	Waste	3/23/21 14:30	3/24/21 11:50
TK09	E211303-15	Waste	3/23/21 14:25	3/24/21 11:50
WA01	E211303-16	Waste	3/23/21 09:00	3/24/21 11:50



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Project: 21-0164, Techtrix, Inc. - Reported by Floyd Wellborn

DATA QUALIFIER DEFINITIONS

U	The analyte was not detected at or above the reporting limit.
B-2	Reporting level elevated due to trace amounts of analyte present in the method blank.
J	The identification of the analyte is acceptable; the reported value is an estimate.
QC-4	Result greater than the highest point on the calibration curve
QI-1	Internal standard was outside of method control limits.
QL-1	Laboratory Control Spike Recovery less than method control limits
QL-2	Laboratory Control Spike Recovery greater than method control limits
QM-1	Matrix Spike Recovery less than method control limits
QM-2	Matrix Spike Recovery greater than method control limits
QM-3	Matrix Spike Precision outside method control limits
QR-2	MRL verification recovery greater than upper control limits.



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ACRONYMS AND ABBREVIATIONS

CAS Chemical Abstracts Service

Note: Analytes with no known CAS identifiers have been assigned codes beginning with "E", the EPA ID as assigned by the EPA Substance Registry System (www.epa.gov/srs), or beginning with "R4-", a unique identifier assigned by the EPA Region 4 laboratory.

MDL Method Detection Limit - The minimum concentration of a substance (an analyte) that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero.

MRL Minimum Reporting Limit - Analyte concentration that corresponds to the lowest demonstrated level of acceptable quantitation. The MRL is sample-specific and accounts for preparation weights and volumes, dilutions, and moisture content of soil/sediments.

TIC Tentatively Identified Compound - An analyte identified based on a match with the instrument software's mass spectral library. A calibration standard has not been analyzed to confirm the compound's identification or the estimated concentration reported.

ACCREDITATIONS:

ISO Accredited to ISO/IEC 17025:2017 and accreditation requirements for Forensic Science Testing Laboratories.

Refer to the certificate and scope of accreditation FT-0330 at:
<http://www.epa.gov/aboutepa/about-region-4s-science-and-ecosystem-support-division-sesd>

NR Not accredited for this test.

DW Accredited for conformance with ISO/IEC 17025:2017 and testing elements in the Fifth Edition of the Manual for the Certification of Laboratories Analyzing Drinking Water, EPA 815-R-05-004, 2005.

Refer to the certificate and scope of accreditation AT-2628 at:
<http://www.epa.gov/aboutepa/about-region-4s-science-and-ecosystem-support-division-sesd>

ISO/DW Accredited to ISO/IEC 17025:2017 and accreditation requirements for Forensic Science Testing Labs, and conformance with ISO/IEC 17025:2017 and testing elements in the Manual for the Certification of Laboratories Analyzing Drinking Water.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Laboratory Services and Applied Science Division

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D.A.R.T. Id: 21-0164

Project: 21-0164, Techtrix, Inc. - Reported by Floyd Wellborn

Total Metals

Project: 21-0164, Techtrix, Inc.

Sample ID: BBT

Lab ID: E211303-01

Station ID: BBT

Matrix: Waste

Date Collected: 3/23/21 14:44

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7429-90-5	Aluminum	31	U	mg/kg	31	4/06/21 12:03	4/14/21 13:18	EPA 6010
7440-36-0	Antimony	30		mg/kg	1.6	4/06/21 12:10	4/20/21 16:40	EPA 200.8
7440-38-2	Arsenic	1.6	U	mg/kg	1.6	4/06/21 12:10	4/20/21 16:40	EPA 200.8
7440-39-3	Barium	1.6	U	mg/kg	1.6	4/06/21 12:03	4/14/21 13:18	EPA 6010
7440-41-7	Beryllium	0.93	U	mg/kg	0.93	4/06/21 12:03	4/14/21 13:18	EPA 6010
7440-43-9	Cadmium	4700		mg/kg	39	4/06/21 12:10	4/20/21 16:47	EPA 200.8
7440-70-2	Calcium	78	U	mg/kg	78	4/06/21 12:03	4/14/21 13:18	EPA 6010
7440-47-3	Chromium	83		mg/kg	1.6	4/06/21 12:03	4/14/21 13:18	EPA 6010
7440-48-4	Cobalt	1.6	U	mg/kg	1.6	4/06/21 12:03	4/14/21 13:18	EPA 6010
7440-50-8	Copper	130		mg/kg	3.1	4/06/21 12:03	4/14/21 13:18	EPA 6010
7439-89-6	Iron	180		mg/kg	31	4/06/21 12:03	4/14/21 13:18	EPA 6010
7439-92-1	Lead	1.6	U	mg/kg	1.6	4/06/21 12:10	4/20/21 16:40	EPA 200.8
7439-95-4	Magnesium	78	U	mg/kg	78	4/06/21 12:03	4/14/21 13:18	EPA 6010
7439-96-5	Manganese	14		mg/kg	1.6	4/06/21 12:03	4/14/21 13:18	EPA 6010
7439-98-7	Molybdenum	3.1	U	mg/kg	3.1	4/06/21 12:03	4/14/21 13:18	EPA 6010
7440-02-0	Nickel	100		mg/kg	3.1	4/06/21 12:03	4/14/21 13:18	EPA 6010
7440-09-7	Potassium	2200		mg/kg	310	4/06/21 12:03	4/14/21 13:18	EPA 6010
7782-49-2	Selenium	3.1	U	mg/kg	3.1	4/06/21 12:10	4/20/21 16:40	EPA 200.8
7440-22-4	Silver	24		mg/kg	1.6	4/06/21 12:03	4/14/21 13:18	EPA 6010
7440-23-5	Sodium	44000	J, QL-2	mg/kg	620	4/06/21 12:03	4/15/21 13:18	EPA 6010
7440-24-6	Strontium	1.6	U	mg/kg	1.6	4/06/21 12:03	4/14/21 13:18	EPA 6010
7440-28-0	Thallium	1.6	U	mg/kg	1.6	4/06/21 12:10	4/20/21 16:40	EPA 200.8
7440-31-5	Tin	4.7	U, J, QL-1	mg/kg	4.7	4/06/21 12:03	4/14/21 13:18	EPA 6010
7440-32-6	Titanium	1.6	U	mg/kg	1.6	4/06/21 12:03	4/14/21 13:18	EPA 6010
7440-62-2	Vanadium	1.6	U	mg/kg	1.6	4/06/21 12:03	4/14/21 13:18	EPA 6010
7440-65-5	Yttrium	0.93	U	mg/kg	0.93	4/06/21 12:03	4/14/21 13:18	EPA 6010
7440-66-6	Zinc	440		mg/kg	3.1	4/06/21 12:03	4/14/21 13:18	EPA 6010



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D.A.R.T. Id: 21-0164

Project: 21-0164, Techtrix, Inc. - Reported by Floyd Wellborn

TCLP Metals

Project: 21-0164, Techtrix, Inc.

Sample ID: BBT

Lab ID: E211303-01

Station ID: BBT

Matrix: Waste

Date Collected: 3/23/21 14:44

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
7440-36-0	Antimony	27		mg/L	0.50	5/03/21 14:21	5/06/21 14:40	EPA 200.8
7440-38-2	Arsenic	0.26		mg/L	0.20	5/03/21 14:21	5/06/21 14:33	EPA 200.8
7440-39-3	Barium	3.0	U	mg/L	3.0	5/03/21 14:08	5/05/21 13:21	EPA 6010
7440-41-7	Beryllium	1.8	U	mg/L	1.8	5/03/21 14:08	5/05/21 13:21	EPA 6010
7440-43-9	Cadmium	4300		mg/L	3.0	5/03/21 14:08	5/05/21 13:21	EPA 6010
7440-47-3	Chromium	79		mg/L	3.0	5/03/21 14:08	5/05/21 13:21	EPA 6010
7439-92-1	Lead	0.33		mg/L	0.20	5/03/21 14:21	5/06/21 14:33	EPA 200.8
7440-02-0	Nickel	48		mg/L	6.0	5/03/21 14:08	5/05/21 13:21	EPA 6010
7782-49-2	Selenium	0.40	U	mg/L	0.40	5/03/21 14:21	5/06/21 14:33	EPA 200.8
7440-22-4	Silver	69		mg/L	10	5/03/21 14:08	5/06/21 10:42	EPA 6010
7440-28-0	Thallium	0.20	U	mg/L	0.20	5/03/21 14:21	5/06/21 14:33	EPA 200.8
7440-62-2	Vanadium	3.0	U	mg/L	3.0	5/03/21 14:08	5/05/21 13:21	EPA 6010
7440-66-6	Zinc	350	J, QL-2	mg/L	6.0	5/03/21 14:08	5/05/21 13:21	EPA 6010



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D.A.R.T. Id: 21-0164

Project: 21-0164, Techtrix, Inc. - Reported by Floyd Wellborn

Total Metals

Project: 21-0164, Techtrix, Inc.

Sample ID: CP

Lab ID: E211303-02

Station ID: CP

Matrix: Waste

Date Collected: 3/23/21 15:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7429-90-5	Aluminum	64	U	mg/kg	64	4/06/21 12:03	4/14/21 13:21	EPA 6010
7440-36-0	Antimony	10		mg/kg	1.6	4/06/21 12:10	4/20/21 17:00	EPA 200.8
7440-38-2	Arsenic	1.6	U	mg/kg	1.6	4/06/21 12:10	4/20/21 17:00	EPA 200.8
7440-39-3	Barium	3.2	U	mg/kg	3.2	4/06/21 12:03	4/14/21 13:21	EPA 6010
7440-41-7	Beryllium	1.9	U	mg/kg	1.9	4/06/21 12:03	4/14/21 13:21	EPA 6010
7440-43-9	Cadmium	9900		mg/kg	80	4/06/21 12:10	4/20/21 17:13	EPA 200.8
7440-70-2	Calcium	160	U	mg/kg	160	4/06/21 12:03	4/14/21 13:21	EPA 6010
7440-47-3	Chromium	110		mg/kg	3.2	4/06/21 12:03	4/14/21 13:21	EPA 6010
7440-48-4	Cobalt	3.2	U	mg/kg	3.2	4/06/21 12:03	4/14/21 13:21	EPA 6010
7440-50-8	Copper	440		mg/kg	6.4	4/06/21 12:03	4/14/21 13:21	EPA 6010
7439-89-6	Iron	110		mg/kg	64	4/06/21 12:03	4/14/21 13:21	EPA 6010
7439-92-1	Lead	1.6	U	mg/kg	1.6	4/06/21 12:10	4/20/21 17:00	EPA 200.8
7439-95-4	Magnesium	160	U	mg/kg	160	4/06/21 12:03	4/14/21 13:21	EPA 6010
7439-96-5	Manganese	40		mg/kg	3.2	4/06/21 12:03	4/14/21 13:21	EPA 6010
7439-98-7	Molybdenum	6.4	U	mg/kg	6.4	4/06/21 12:03	4/14/21 13:21	EPA 6010
7440-02-0	Nickel	450		mg/kg	6.4	4/06/21 12:03	4/14/21 13:21	EPA 6010
7440-09-7	Potassium	1400		mg/kg	640	4/06/21 12:03	4/14/21 13:21	EPA 6010
7782-49-2	Selenium	3.2	U	mg/kg	3.2	4/06/21 12:10	4/20/21 17:00	EPA 200.8
7440-22-4	Silver	34		mg/kg	3.2	4/06/21 12:03	4/14/21 13:21	EPA 6010
7440-23-5	Sodium	200000	J, QL-2	mg/kg	1600	4/06/21 12:03	4/15/21 13:21	EPA 6010
7440-24-6	Strontium	3.2	U	mg/kg	3.2	4/06/21 12:03	4/14/21 13:21	EPA 6010
7440-28-0	Thallium	1.6	U	mg/kg	1.6	4/06/21 12:10	4/20/21 17:00	EPA 200.8
7440-31-5	Tin	9.6	U, J, QL-1	mg/kg	9.6	4/06/21 12:03	4/14/21 13:21	EPA 6010
7440-32-6	Titanium	3.2	U	mg/kg	3.2	4/06/21 12:03	4/14/21 13:21	EPA 6010
7440-62-2	Vanadium	3.2	U	mg/kg	3.2	4/06/21 12:03	4/14/21 13:21	EPA 6010
7440-65-5	Yttrium	1.9	U	mg/kg	1.9	4/06/21 12:03	4/14/21 13:21	EPA 6010
7440-66-6	Zinc	13000		mg/kg	16	4/06/21 12:03	4/15/21 13:21	EPA 6010



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D.A.R.T. Id: 21-0164

Project: 21-0164, Techtrix, Inc. - Reported by Floyd Wellborn

TCLP Metals

Project: 21-0164, Techtrix, Inc.

Sample ID: CP

Lab ID: E211303-02

Station ID: CP

Matrix: Waste

Date Collected: 3/23/21 15:30

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
7440-36-0	Antimony	0.47		mg/L	0.20	5/03/21 14:21	5/06/21 14:49	EPA 200.8
7440-38-2	Arsenic	0.20	U	mg/L	0.20	5/03/21 14:21	5/06/21 14:49	EPA 200.8
7440-39-3	Barium	0.50	U	mg/L	0.50	5/03/21 14:08	5/05/21 13:24	EPA 6010
7440-41-7	Beryllium	0.30	U	mg/L	0.30	5/03/21 14:08	5/05/21 13:24	EPA 6010
7440-43-9	Cadmium	120		mg/L	0.50	5/03/21 14:08	5/05/21 13:24	EPA 6010
7440-47-3	Chromium	4.5		mg/L	0.50	5/03/21 14:08	5/05/21 13:24	EPA 6010
7439-92-1	Lead	0.20	U	mg/L	0.20	5/03/21 14:21	5/06/21 14:49	EPA 200.8
7440-02-0	Nickel	21		mg/L	1.0	5/03/21 14:08	5/05/21 13:24	EPA 6010
7782-49-2	Selenium	0.40	U	mg/L	0.40	5/03/21 14:21	5/06/21 14:49	EPA 200.8
7440-22-4	Silver	3.1		mg/L	0.50	5/03/21 14:08	5/05/21 13:24	EPA 6010
7440-28-0	Thallium	0.20	U	mg/L	0.20	5/03/21 14:21	5/06/21 14:49	EPA 200.8
7440-62-2	Vanadium	0.50	U	mg/L	0.50	5/03/21 14:08	5/05/21 13:24	EPA 6010
7440-66-6	Zinc	490	J, QL-2	mg/L	1.0	5/03/21 14:08	5/05/21 13:24	EPA 6010



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Laboratory Services and Applied Science Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 21-0164

Project: 21-0164, Techtrix, Inc. - Reported by Floyd Wellborn

Total Metals

Project: 21-0164, Techtrix, Inc.

Sample ID: ET01

Lab ID: E211303-03

Station ID: ET01

Matrix: Waste

Date Collected: 3/23/21 14:16

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7429-90-5	Aluminum	16	U	mg/kg	16	4/06/21 12:03	4/14/21 13:23	EPA 6010
7440-36-0	Antimony	0.96		mg/kg	0.066	4/06/21 12:10	4/20/21 17:38	EPA 200.8
7440-38-2	Arsenic	0.066	U	mg/kg	0.066	4/06/21 12:10	4/20/21 17:38	EPA 200.8
7440-39-3	Barium	0.82	U	mg/kg	0.82	4/06/21 12:03	4/14/21 13:23	EPA 6010
7440-41-7	Beryllium	0.49	U	mg/kg	0.49	4/06/21 12:03	4/14/21 13:23	EPA 6010
7440-43-9	Cadmium	0.13	U, B-2	mg/kg	0.13	4/06/21 12:10	4/20/21 17:38	EPA 200.8
7440-70-2	Calcium	41	U	mg/kg	41	4/06/21 12:03	4/14/21 13:23	EPA 6010
7440-47-3	Chromium	53		mg/kg	0.82	4/06/21 12:03	4/14/21 13:23	EPA 6010
7440-48-4	Cobalt	23		mg/kg	0.82	4/06/21 12:03	4/14/21 13:23	EPA 6010
7440-50-8	Copper	110		mg/kg	1.6	4/06/21 12:03	4/14/21 13:23	EPA 6010
7439-89-6	Iron	16	U	mg/kg	16	4/06/21 12:03	4/14/21 13:23	EPA 6010
7439-92-1	Lead	0.90		mg/kg	0.066	4/06/21 12:10	4/20/21 17:38	EPA 200.8
7439-95-4	Magnesium	41	U	mg/kg	41	4/06/21 12:03	4/14/21 13:23	EPA 6010
7439-96-5	Manganese	0.82	U	mg/kg	0.82	4/06/21 12:03	4/14/21 13:23	EPA 6010
7439-98-7	Molybdenum	2.0		mg/kg	1.6	4/06/21 12:03	4/14/21 13:23	EPA 6010
7440-02-0	Nickel	1.6	U	mg/kg	1.6	4/06/21 12:03	4/14/21 13:23	EPA 6010
7440-09-7	Potassium	6700		mg/kg	160	4/06/21 12:03	4/14/21 13:23	EPA 6010
7782-49-2	Selenium	0.13	U	mg/kg	0.13	4/06/21 12:10	4/20/21 17:38	EPA 200.8
7440-22-4	Silver	0.82	U	mg/kg	0.82	4/06/21 12:03	4/14/21 13:23	EPA 6010
7440-23-5	Sodium	36000	J, QL-2	mg/kg	330	4/06/21 12:03	4/15/21 13:24	EPA 6010
7440-24-6	Strontium	0.82	U	mg/kg	0.82	4/06/21 12:03	4/14/21 13:23	EPA 6010
7440-28-0	Thallium	0.066	U	mg/kg	0.066	4/06/21 12:10	4/20/21 17:38	EPA 200.8
7440-31-5	Tin	2.5	U, J, QL-1	mg/kg	2.5	4/06/21 12:03	4/14/21 13:23	EPA 6010
7440-32-6	Titanium	0.82	U	mg/kg	0.82	4/06/21 12:03	4/14/21 13:23	EPA 6010
7440-62-2	Vanadium	0.82	U	mg/kg	0.82	4/06/21 12:03	4/14/21 13:23	EPA 6010
7440-65-5	Yttrium	0.49	U	mg/kg	0.49	4/06/21 12:03	4/14/21 13:23	EPA 6010
7440-66-6	Zinc	9.0		mg/kg	1.6	4/06/21 12:03	4/14/21 13:23	EPA 6010



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Laboratory Services and Applied Science Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 21-0164

Project: 21-0164, Techtrix, Inc. - Reported by Floyd Wellborn

TCLP Metals

Project: 21-0164, Techtrix, Inc.

Sample ID: ET01

Lab ID: E211303-03

Station ID: ET01

Matrix: Waste

Date Collected: 3/23/21 14:16

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
7440-36-0	Antimony	0.91		mg/L	0.20	5/03/21 14:21	5/06/21 14:58	EPA 200.8
7440-38-2	Arsenic	0.20	U	mg/L	0.20	5/03/21 14:21	5/06/21 14:58	EPA 200.8
7440-39-3	Barium	0.50	U	mg/L	0.50	5/03/21 14:08	5/05/21 13:26	EPA 6010
7440-41-7	Beryllium	0.30	U	mg/L	0.30	5/03/21 14:08	5/05/21 13:26	EPA 6010
7440-43-9	Cadmium	0.50	U	mg/L	0.50	5/03/21 14:08	5/05/21 13:26	EPA 6010
7440-47-3	Chromium	54		mg/L	0.50	5/03/21 14:08	5/05/21 13:26	EPA 6010
7439-92-1	Lead	0.41		mg/L	0.20	5/03/21 14:21	5/06/21 14:58	EPA 200.8
7440-02-0	Nickel	1.0	U	mg/L	1.0	5/03/21 14:08	5/05/21 13:26	EPA 6010
7782-49-2	Selenium	0.40	U	mg/L	0.40	5/03/21 14:21	5/06/21 14:58	EPA 200.8
7440-22-4	Silver	0.50	U	mg/L	0.50	5/03/21 14:08	5/05/21 13:26	EPA 6010
7440-28-0	Thallium	0.20	U	mg/L	0.20	5/03/21 14:21	5/06/21 14:58	EPA 200.8
7440-62-2	Vanadium	0.50	U	mg/L	0.50	5/03/21 14:08	5/05/21 13:26	EPA 6010
7440-66-6	Zinc	1.1	J, QL-2	mg/L	1.0	5/03/21 14:08	5/05/21 13:26	EPA 6010



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Laboratory Services and Applied Science Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 21-0164

Project: 21-0164, Techtrix, Inc. - Reported by Floyd Wellborn

Total Metals

Project: 21-0164, Techtrix, Inc.

Sample ID: GT

Lab ID: E211303-04

Station ID: GT

Matrix: Waste

Date Collected: 3/23/21 14:58

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7429-90-5	Aluminum	710	J, QM-2	mg/kg	170	4/06/21 12:03	4/14/21 13:26	EPA 6010
7440-36-0	Antimony	31	J, QM-1	mg/kg	0.34	4/06/21 12:10	4/20/21 17:45	EPA 200.8
7440-38-2	Arsenic	1.0	J, QM-1, QR-2	mg/kg	0.34	4/06/21 12:10	4/20/21 17:45	EPA 200.8
7440-39-3	Barium	29	J, QM-1	mg/kg	8.5	4/06/21 12:03	4/14/21 13:26	EPA 6010
7440-41-7	Beryllium	5.1	U	mg/kg	5.1	4/06/21 12:03	4/14/21 13:26	EPA 6010
7440-43-9	Cadmium	6300	J, QM-3	mg/kg	43	4/06/21 12:10	4/20/21 17:57	EPA 200.8
7440-70-2	Calcium	78000		mg/kg	430	4/06/21 12:03	4/14/21 13:26	EPA 6010
7440-47-3	Chromium	13000		mg/kg	8.5	4/06/21 12:03	4/14/21 13:26	EPA 6010
7440-48-4	Cobalt	190		mg/kg	8.5	4/06/21 12:03	4/14/21 13:26	EPA 6010
7440-50-8	Copper	11000		mg/kg	17	4/06/21 12:03	4/14/21 13:26	EPA 6010
7439-89-6	Iron	8500		mg/kg	170	4/06/21 12:03	4/14/21 13:26	EPA 6010
7439-92-1	Lead	970	J, QM-3	mg/kg	3.4	4/06/21 12:10	4/20/21 17:51	EPA 200.8
7439-95-4	Magnesium	1900		mg/kg	430	4/06/21 12:03	4/14/21 13:26	EPA 6010
7439-96-5	Manganese	96		mg/kg	8.5	4/06/21 12:03	4/14/21 13:26	EPA 6010
7439-98-7	Molybdenum	17	U, J, QM-1	mg/kg	17	4/06/21 12:03	4/14/21 13:26	EPA 6010
7440-02-0	Nickel	650		mg/kg	17	4/06/21 12:03	4/14/21 13:26	EPA 6010
7440-09-7	Potassium	2800	J, QM-1	mg/kg	1700	4/06/21 12:03	4/14/21 13:26	EPA 6010
7782-49-2	Selenium	0.68	U, J, QM-1	mg/kg	0.68	4/06/21 12:10	4/20/21 17:45	EPA 200.8
7440-22-4	Silver	27	J, QM-1	mg/kg	8.5	4/06/21 12:03	4/14/21 13:26	EPA 6010
7440-23-5	Sodium	28000		mg/kg	1700	4/06/21 12:03	4/14/21 13:26	EPA 6010
7440-24-6	Strontium	36	J, QM-1	mg/kg	8.5	4/06/21 12:03	4/14/21 13:26	EPA 6010
7440-28-0	Thallium	0.34	U	mg/kg	0.34	4/06/21 12:10	4/20/21 17:45	EPA 200.8
7440-31-5	Tin	1800	J, QL-1	mg/kg	26	4/06/21 12:03	4/14/21 13:26	EPA 6010
7440-32-6	Titanium	16	J, QM-1	mg/kg	8.5	4/06/21 12:03	4/14/21 13:26	EPA 6010
7440-62-2	Vanadium	8.5	U	mg/kg	8.5	4/06/21 12:03	4/14/21 13:26	EPA 6010
7440-65-5	Yttrium	5.1	U	mg/kg	5.1	4/06/21 12:03	4/14/21 13:26	EPA 6010
7440-66-6	Zinc	22000		mg/kg	34	4/06/21 12:03	4/15/21 13:27	EPA 6010



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Laboratory Services and Applied Science Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 21-0164

Project: 21-0164, Techtrix, Inc. - Reported by Floyd Wellborn

TCLP Metals

Project: 21-0164, Techtrix, Inc.

Sample ID: GT

Lab ID: E211303-04

Station ID: GT

Matrix: Waste

Date Collected: 3/23/21 14:58

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
7440-36-0	Antimony	0.20	U	mg/L	0.20	5/03/21 14:21	5/06/21 15:28	EPA 200.8
7440-38-2	Arsenic	0.20	U	mg/L	0.20	5/03/21 14:21	5/06/21 15:28	EPA 200.8
7440-39-3	Barium	0.30	U	mg/L	0.30	5/03/21 14:08	5/05/21 13:29	EPA 6010
7440-41-7	Beryllium	0.18	U	mg/L	0.18	5/03/21 14:08	5/05/21 13:29	EPA 6010
7440-43-9	Cadmium	110		mg/L	0.30	5/03/21 14:08	5/05/21 13:29	EPA 6010
7440-47-3	Chromium	13		mg/L	0.30	5/03/21 14:08	5/05/21 13:29	EPA 6010
7439-92-1	Lead	0.20	U	mg/L	0.20	5/03/21 14:21	5/06/21 15:28	EPA 200.8
7440-02-0	Nickel	5.8		mg/L	0.60	5/03/21 14:08	5/05/21 13:29	EPA 6010
7782-49-2	Selenium	0.40	U	mg/L	0.40	5/03/21 14:21	5/06/21 15:28	EPA 200.8
7440-22-4	Silver	0.73		mg/L	0.30	5/03/21 14:08	5/05/21 13:29	EPA 6010
7440-28-0	Thallium	0.20	U	mg/L	0.20	5/03/21 14:21	5/06/21 15:28	EPA 200.8
7440-62-2	Vanadium	0.30	U	mg/L	0.30	5/03/21 14:08	5/05/21 13:29	EPA 6010
7440-66-6	Zinc	240	J, QL-2	mg/L	0.60	5/03/21 14:08	5/05/21 13:29	EPA 6010



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Laboratory Services and Applied Science Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 21-0164

Project: 21-0164, Techtrix, Inc. - Reported by Floyd Wellborn

Total Metals

Project: 21-0164, Techtrix, Inc.

Sample ID: S01

Lab ID: E211303-05

Station ID: S01

Matrix: Sediment

Date Collected: 3/23/21 8:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7429-90-5	Aluminum	2800	J, QM-2	mg/kg dry	200	4/06/21 11:01	4/13/21 16:02	EPA 6010
7440-36-0	Antimony	16	J, QL-1, QM-1	mg/kg dry	1.0	4/06/21 11:04	4/15/21 18:57	EPA 200.8
7440-38-2	Arsenic	2.6	J, QM-1	mg/kg dry	1.0	4/06/21 11:04	4/15/21 18:57	EPA 200.8
7440-39-3	Barium	120		mg/kg dry	10	4/06/21 11:01	4/13/21 16:02	EPA 6010
7440-41-7	Beryllium	6.0	U	mg/kg dry	6.0	4/06/21 11:01	4/13/21 16:02	EPA 6010
7440-43-9	Cadmium	2300		mg/kg dry	12	4/06/21 11:04	4/15/21 19:03	EPA 200.8
7440-70-2	Calcium	30000		mg/kg dry	500	4/06/21 11:01	4/13/21 16:02	EPA 6010
7440-47-3	Chromium	1500		mg/kg dry	10	4/06/21 11:01	4/13/21 16:02	EPA 6010
7440-48-4	Cobalt	100		mg/kg dry	10	4/06/21 11:01	4/13/21 16:02	EPA 6010
7440-50-8	Copper	2100		mg/kg dry	20	4/06/21 11:01	4/13/21 16:02	EPA 6010
7439-89-6	Iron	110000		mg/kg dry	200	4/06/21 11:01	4/13/21 16:02	EPA 6010
7439-92-1	Lead	1700	J, QM-3	mg/kg dry	25	4/06/21 11:04	4/15/21 19:03	EPA 200.8
7439-95-4	Magnesium	2600	J, QM-1, QM-2, QM-3	mg/kg dry	500	4/06/21 11:01	4/13/21 16:02	EPA 6010
7439-96-5	Manganese	610	J, QM-1	mg/kg dry	10	4/06/21 11:01	4/13/21 16:02	EPA 6010
7439-98-7	Molybdenum	20	U, J, QL-1, QM-1, QM-3	mg/kg dry	20	4/06/21 11:01	4/13/21 16:02	EPA 6010
7440-02-0	Nickel	180	J, QM-2	mg/kg dry	20	4/06/21 11:01	4/13/21 16:02	EPA 6010
7440-09-7	Potassium	2000	U	mg/kg dry	2000	4/06/21 11:01	4/13/21 16:02	EPA 6010
7782-49-2	Selenium	2.0	U, J, QM-1	mg/kg dry	2.0	4/06/21 11:04	4/15/21 18:57	EPA 200.8
7440-22-4	Silver	54	J, QM-1	mg/kg dry	10	4/06/21 11:01	4/13/21 16:02	EPA 6010
7440-23-5	Sodium	2000	U	mg/kg dry	2000	4/06/21 11:01	4/13/21 16:02	EPA 6010
7440-24-6	Strontium	42	J, QM-1	mg/kg dry	10	4/06/21 11:01	4/13/21 16:02	EPA 6010
7440-28-0	Thallium	1.0	U	mg/kg dry	1.0	4/06/21 11:04	4/15/21 18:57	EPA 200.8
7440-31-5	Tin	75	J, QL-1, QM-1, QM-3	mg/kg dry	30	4/06/21 11:01	4/13/21 16:02	EPA 6010
7440-32-6	Titanium	44	J, QM-1	mg/kg dry	10	4/06/21 11:01	4/13/21 16:02	EPA 6010
7440-62-2	Vanadium	11		mg/kg dry	10	4/06/21 11:01	4/13/21 16:02	EPA 6010
7440-65-5	Yttrium	6.0	U	mg/kg dry	6.0	4/06/21 11:01	4/13/21 16:02	EPA 6010



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Laboratory Services and Applied Science Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 21-0164

Project: 21-0164, Techtrix, Inc. - Reported by Floyd Wellborn

Total Metals

Project: 21-0164, Techtrix, Inc.

Sample ID: S01

Lab ID: E211303-05

Station ID: S01

Matrix: Sediment

Date Collected: 3/23/21 8:40

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
7440-66-6	Zinc	10000		mg/kg dry	20	4/06/21 11:01	4/14/21 13:39	EPA 6010



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Laboratory Services and Applied Science Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 21-0164

Project: 21-0164, Techtrix, Inc. - Reported by Floyd Wellborn

TCLP Metals

Project: 21-0164, Techtrix, Inc.

Sample ID: S01

Lab ID: E211303-05

Station ID: S01

Matrix: Sediment

Date Collected: 3/23/21 8:40

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
7440-36-0	Antimony	0.20	U	mg/L	0.20	5/03/21 14:21	5/06/21 15:54	EPA 200.8
7440-38-2	Arsenic	0.20	U	mg/L	0.20	5/03/21 14:21	5/06/21 15:54	EPA 200.8
7440-39-3	Barium	0.76		mg/L	0.10	5/03/21 14:08	5/05/21 13:55	EPA 6010
7440-41-7	Beryllium	0.060	U	mg/L	0.060	5/03/21 14:08	5/05/21 13:55	EPA 6010
7440-43-9	Cadmium	26		mg/L	0.10	5/03/21 14:08	5/05/21 13:55	EPA 6010
7440-47-3	Chromium	0.45		mg/L	0.10	5/03/21 14:08	5/05/21 13:55	EPA 6010
7439-92-1	Lead	10		mg/L	0.20	5/03/21 14:21	5/06/21 15:54	EPA 200.8
7440-02-0	Nickel	0.66		mg/L	0.20	5/03/21 14:08	5/05/21 13:55	EPA 6010
7782-49-2	Selenium	0.40	U	mg/L	0.40	5/03/21 14:21	5/06/21 15:54	EPA 200.8
7440-22-4	Silver	0.10	U	mg/L	0.10	5/03/21 14:08	5/05/21 13:55	EPA 6010
7440-28-0	Thallium	0.20	U	mg/L	0.20	5/03/21 14:21	5/06/21 15:54	EPA 200.8
7440-62-2	Vanadium	0.10	U	mg/L	0.10	5/03/21 14:08	5/05/21 13:55	EPA 6010
7440-66-6	Zinc	98	J, QL-2	mg/L	0.20	5/03/21 14:08	5/05/21 13:55	EPA 6010



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Laboratory Services and Applied Science Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 21-0164

Project: 21-0164, Techtrix, Inc. - Reported by Floyd Wellborn

Total Metals

Project: 21-0164, Techtrix, Inc.

Sample ID: T06

Lab ID: E211303-06

Station ID: T06

Matrix: Waste

Date Collected: 3/23/21 13:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7429-90-5	Aluminum	8.3	U	mg/kg	8.3	4/06/21 12:03	4/14/21 13:35	EPA 6010
7440-36-0	Antimony	0.056	U	mg/kg	0.056	4/06/21 12:10	4/20/21 19:02	EPA 200.8
7440-38-2	Arsenic	0.056	U	mg/kg	0.056	4/06/21 12:10	4/20/21 19:02	EPA 200.8
7440-39-3	Barium	0.42	U	mg/kg	0.42	4/06/21 12:03	4/14/21 13:35	EPA 6010
7440-41-7	Beryllium	0.25	U	mg/kg	0.25	4/06/21 12:03	4/14/21 13:35	EPA 6010
7440-43-9	Cadmium	0.028	U	mg/kg	0.028	4/06/21 12:10	4/20/21 19:02	EPA 200.8
7440-70-2	Calcium	430		mg/kg	21	4/06/21 12:03	4/14/21 13:35	EPA 6010
7440-47-3	Chromium	39		mg/kg	0.42	4/06/21 12:03	4/14/21 13:35	EPA 6010
7440-48-4	Cobalt	3.1		mg/kg	0.42	4/06/21 12:03	4/14/21 13:35	EPA 6010
7440-50-8	Copper	380		mg/kg	0.83	4/06/21 12:03	4/14/21 13:35	EPA 6010
7439-89-6	Iron	8.3	U	mg/kg	8.3	4/06/21 12:03	4/14/21 13:35	EPA 6010
7439-92-1	Lead	12		mg/kg	0.056	4/06/21 12:10	4/20/21 19:02	EPA 200.8
7439-95-4	Magnesium	21	U	mg/kg	21	4/06/21 12:03	4/14/21 13:35	EPA 6010
7439-96-5	Manganese	0.42	U	mg/kg	0.42	4/06/21 12:03	4/14/21 13:35	EPA 6010
7439-98-7	Molybdenum	0.83	U	mg/kg	0.83	4/06/21 12:03	4/14/21 13:35	EPA 6010
7440-02-0	Nickel	1.3		mg/kg	0.83	4/06/21 12:03	4/14/21 13:35	EPA 6010
7440-09-7	Potassium	1400		mg/kg	83	4/06/21 12:03	4/14/21 13:35	EPA 6010
7782-49-2	Selenium	0.11	U	mg/kg	0.11	4/06/21 12:10	4/20/21 19:02	EPA 200.8
7440-22-4	Silver	19		mg/kg	0.42	4/06/21 12:03	4/14/21 13:35	EPA 6010
7440-23-5	Sodium	10000	J, QL-2	mg/kg	83	4/06/21 12:03	4/15/21 13:35	EPA 6010
7440-24-6	Strontium	0.75		mg/kg	0.42	4/06/21 12:03	4/14/21 13:35	EPA 6010
7440-28-0	Thallium	0.056	U	mg/kg	0.056	4/06/21 12:10	4/20/21 19:02	EPA 200.8
7440-31-5	Tin	1.2	U, J, QL-1	mg/kg	1.2	4/06/21 12:03	4/14/21 13:35	EPA 6010
7440-32-6	Titanium	0.42	U	mg/kg	0.42	4/06/21 12:03	4/14/21 13:35	EPA 6010
7440-62-2	Vanadium	0.42	U	mg/kg	0.42	4/06/21 12:03	4/14/21 13:35	EPA 6010
7440-65-5	Yttrium	0.25	U	mg/kg	0.25	4/06/21 12:03	4/14/21 13:35	EPA 6010
7440-66-6	Zinc	4.2	J, QR-2	mg/kg	0.83	4/06/21 12:03	4/14/21 13:35	EPA 6010



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Laboratory Services and Applied Science Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 21-0164

Project: 21-0164, Techtrix, Inc. - Reported by Floyd Wellborn

TCLP Metals

Project: 21-0164, Techtrix, Inc.

Sample ID: T06

Lab ID: E211303-06

Station ID: T06

Matrix: Waste

Date Collected: 3/23/21 13:25

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
7440-36-0	Antimony	0.20	U	mg/L	0.20	5/03/21 14:21	5/06/21 17:31	EPA 200.8
7440-38-2	Arsenic	0.20	U	mg/L	0.20	5/03/21 14:21	5/06/21 17:31	EPA 200.8
7440-39-3	Barium	0.50	U	mg/L	0.50	5/03/21 14:08	5/05/21 13:57	EPA 6010
7440-41-7	Beryllium	0.30	U	mg/L	0.30	5/03/21 14:08	5/05/21 13:57	EPA 6010
7440-43-9	Cadmium	0.50	U	mg/L	0.50	5/03/21 14:08	5/05/21 13:57	EPA 6010
7440-47-3	Chromium	39		mg/L	0.50	5/03/21 14:08	5/05/21 13:57	EPA 6010
7439-92-1	Lead	13		mg/L	0.20	5/03/21 14:21	5/06/21 17:31	EPA 200.8
7440-02-0	Nickel	1.3		mg/L	1.0	5/03/21 14:08	5/05/21 13:57	EPA 6010
7782-49-2	Selenium	0.40	U	mg/L	0.40	5/03/21 14:21	5/06/21 17:31	EPA 200.8
7440-22-4	Silver	74		mg/L	5.0	5/03/21 14:08	5/06/21 10:44	EPA 6010
7440-28-0	Thallium	0.20	U	mg/L	0.20	5/03/21 14:21	5/06/21 17:31	EPA 200.8
7440-62-2	Vanadium	0.50	U	mg/L	0.50	5/03/21 14:08	5/05/21 13:57	EPA 6010
7440-66-6	Zinc	1.6	J, QL-2	mg/L	1.0	5/03/21 14:08	5/05/21 13:57	EPA 6010



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Laboratory Services and Applied Science Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 21-0164

Project: 21-0164, Techtrix, Inc. - Reported by Floyd Wellborn

Total Metals

Project: 21-0164, Techtrix, Inc.

Sample ID: T07

Lab ID: E211303-07

Station ID: T07

Matrix: Waste

Date Collected: 3/23/21 13:37

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7429-90-5	Aluminum	38	U	mg/kg	38	4/06/21 12:03	4/14/21 13:38	EPA 6010
7440-36-0	Antimony	2.0		mg/kg	0.050	4/06/21 12:10	4/20/21 19:14	EPA 200.8
7440-38-2	Arsenic	0.21	J, QR-2	mg/kg	0.050	4/06/21 12:10	4/20/21 19:14	EPA 200.8
7440-39-3	Barium	1.9	U	mg/kg	1.9	4/06/21 12:03	4/14/21 13:38	EPA 6010
7440-41-7	Beryllium	1.1	U	mg/kg	1.1	4/06/21 12:03	4/14/21 13:38	EPA 6010
7440-43-9	Cadmium	78		mg/kg	0.63	4/06/21 12:10	4/20/21 19:21	EPA 200.8
7440-70-2	Calcium	280		mg/kg	94	4/06/21 12:03	4/14/21 13:38	EPA 6010
7440-47-3	Chromium	2400		mg/kg	1.9	4/06/21 12:03	4/14/21 13:38	EPA 6010
7440-48-4	Cobalt	10		mg/kg	1.9	4/06/21 12:03	4/14/21 13:38	EPA 6010
7440-50-8	Copper	2300		mg/kg	3.8	4/06/21 12:03	4/14/21 13:38	EPA 6010
7439-89-6	Iron	1500		mg/kg	38	4/06/21 12:03	4/14/21 13:38	EPA 6010
7439-92-1	Lead	6.0		mg/kg	0.050	4/06/21 12:10	4/20/21 19:14	EPA 200.8
7439-95-4	Magnesium	94	U	mg/kg	94	4/06/21 12:03	4/14/21 13:38	EPA 6010
7439-96-5	Manganese	50		mg/kg	1.9	4/06/21 12:03	4/14/21 13:38	EPA 6010
7439-98-7	Molybdenum	3.8	U	mg/kg	3.8	4/06/21 12:03	4/14/21 13:38	EPA 6010
7440-02-0	Nickel	15		mg/kg	3.8	4/06/21 12:03	4/14/21 13:38	EPA 6010
7440-09-7	Potassium	580		mg/kg	380	4/06/21 12:03	4/14/21 13:38	EPA 6010
7782-49-2	Selenium	0.10	U	mg/kg	0.10	4/06/21 12:10	4/20/21 19:14	EPA 200.8
7440-22-4	Silver	1.9	U	mg/kg	1.9	4/06/21 12:03	4/14/21 13:38	EPA 6010
7440-23-5	Sodium	5100		mg/kg	380	4/06/21 12:03	4/14/21 13:38	EPA 6010
7440-24-6	Strontium	1.9	U	mg/kg	1.9	4/06/21 12:03	4/14/21 13:38	EPA 6010
7440-28-0	Thallium	0.050	U	mg/kg	0.050	4/06/21 12:10	4/20/21 19:14	EPA 200.8
7440-31-5	Tin	8.3	J, QL-1	mg/kg	5.6	4/06/21 12:03	4/14/21 13:38	EPA 6010
7440-32-6	Titanium	1.9	U	mg/kg	1.9	4/06/21 12:03	4/14/21 13:38	EPA 6010
7440-62-2	Vanadium	1.9	U	mg/kg	1.9	4/06/21 12:03	4/14/21 13:38	EPA 6010
7440-65-5	Yttrium	1.1	U	mg/kg	1.1	4/06/21 12:03	4/14/21 13:38	EPA 6010
7440-66-6	Zinc	2800		mg/kg	3.8	4/06/21 12:03	4/15/21 13:38	EPA 6010



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Laboratory Services and Applied Science Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 21-0164

Project: 21-0164, Techtrix, Inc. - Reported by Floyd Wellborn

TCLP Metals

Project: 21-0164, Techtrix, Inc.

Sample ID: T07

Lab ID: E211303-07

Station ID: T07

Matrix: Waste

Date Collected: 3/23/21 13:37

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
7440-36-0	Antimony	2.2		mg/L	0.20	5/03/21 14:21	5/06/21 17:38	EPA 200.8
7440-38-2	Arsenic	0.24		mg/L	0.20	5/03/21 14:21	5/06/21 17:38	EPA 200.8
7440-39-3	Barium	2.0	U	mg/L	2.0	5/03/21 14:08	5/05/21 14:00	EPA 6010
7440-41-7	Beryllium	1.2	U	mg/L	1.2	5/03/21 14:08	5/05/21 14:00	EPA 6010
7440-43-9	Cadmium	75		mg/L	2.0	5/03/21 14:08	5/05/21 14:00	EPA 6010
7440-47-3	Chromium	2200		mg/L	2.0	5/03/21 14:08	5/05/21 14:00	EPA 6010
7439-92-1	Lead	7.5		mg/L	0.20	5/03/21 14:21	5/06/21 17:38	EPA 200.8
7440-02-0	Nickel	14		mg/L	4.0	5/03/21 14:08	5/05/21 14:00	EPA 6010
7782-49-2	Selenium	0.40	U	mg/L	0.40	5/03/21 14:21	5/06/21 17:38	EPA 200.8
7440-22-4	Silver	2.0	U	mg/L	2.0	5/03/21 14:08	5/05/21 14:00	EPA 6010
7440-28-0	Thallium	0.20	U	mg/L	0.20	5/03/21 14:21	5/06/21 17:38	EPA 200.8
7440-62-2	Vanadium	2.0	U	mg/L	2.0	5/03/21 14:08	5/05/21 14:00	EPA 6010
7440-66-6	Zinc	2500	J, QL-2	mg/L	4.0	5/03/21 14:08	5/05/21 14:00	EPA 6010



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Laboratory Services and Applied Science Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 21-0164

Project: 21-0164, Techtrix, Inc. - Reported by Floyd Wellborn

Total Metals

Project: 21-0164, Techtrix, Inc.

Sample ID: T13

Lab ID: E211303-08

Station ID: T13

Matrix: Waste

Date Collected: 3/23/21 13:44

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7429-90-5	Aluminum	5.3	U	mg/kg	5.3	4/06/21 12:03	4/14/21 13:40	EPA 6010
7440-36-0	Antimony	0.053	U	mg/kg	0.053	4/06/21 12:10	4/20/21 19:34	EPA 200.8
7440-38-2	Arsenic	0.053	U	mg/kg	0.053	4/06/21 12:10	4/20/21 19:34	EPA 200.8
7440-39-3	Barium	0.27	U	mg/kg	0.27	4/06/21 12:03	4/14/21 13:40	EPA 6010
7440-41-7	Beryllium	0.16	U	mg/kg	0.16	4/06/21 12:03	4/14/21 13:40	EPA 6010
7440-43-9	Cadmium	0.027	U	mg/kg	0.027	4/06/21 12:10	4/20/21 19:34	EPA 200.8
7440-70-2	Calcium	1300		mg/kg	13	4/06/21 12:03	4/14/21 13:40	EPA 6010
7440-47-3	Chromium	0.46	U, B-2	mg/kg	0.46	4/06/21 12:03	4/14/21 13:40	EPA 6010
7440-48-4	Cobalt	1.5		mg/kg	0.27	4/06/21 12:03	4/14/21 13:40	EPA 6010
7440-50-8	Copper	8.4		mg/kg	0.53	4/06/21 12:03	4/14/21 13:40	EPA 6010
7439-89-6	Iron	5.3	U	mg/kg	5.3	4/06/21 12:03	4/14/21 13:40	EPA 6010
7439-92-1	Lead	0.13		mg/kg	0.053	4/06/21 12:10	4/20/21 19:34	EPA 200.8
7439-95-4	Magnesium	13	U	mg/kg	13	4/06/21 12:03	4/14/21 13:40	EPA 6010
7439-96-5	Manganese	0.27	U	mg/kg	0.27	4/06/21 12:03	4/14/21 13:40	EPA 6010
7439-98-7	Molybdenum	0.53	U	mg/kg	0.53	4/06/21 12:03	4/14/21 13:40	EPA 6010
7440-02-0	Nickel	0.53	U	mg/kg	0.53	4/06/21 12:03	4/14/21 13:40	EPA 6010
7440-09-7	Potassium	1500		mg/kg	53	4/06/21 12:03	4/14/21 13:40	EPA 6010
7782-49-2	Selenium	0.11	U	mg/kg	0.11	4/06/21 12:10	4/20/21 19:34	EPA 200.8
7440-22-4	Silver	0.27	U	mg/kg	0.27	4/06/21 12:03	4/14/21 13:40	EPA 6010
7440-23-5	Sodium	5400		mg/kg	53	4/06/21 12:03	4/14/21 13:40	EPA 6010
7440-24-6	Strontium	2.0		mg/kg	0.27	4/06/21 12:03	4/14/21 13:40	EPA 6010
7440-28-0	Thallium	0.053	U	mg/kg	0.053	4/06/21 12:10	4/20/21 19:34	EPA 200.8
7440-31-5	Tin	0.80	U, J, QL-1	mg/kg	0.80	4/06/21 12:03	4/14/21 13:40	EPA 6010
7440-32-6	Titanium	0.27	U	mg/kg	0.27	4/06/21 12:03	4/14/21 13:40	EPA 6010
7440-62-2	Vanadium	0.27	U	mg/kg	0.27	4/06/21 12:03	4/14/21 13:40	EPA 6010
7440-65-5	Yttrium	0.16	U	mg/kg	0.16	4/06/21 12:03	4/14/21 13:40	EPA 6010
7440-66-6	Zinc	3.1	J, QR-2	mg/kg	0.53	4/06/21 12:03	4/14/21 13:40	EPA 6010



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Laboratory Services and Applied Science Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 21-0164

Project: 21-0164, Techtrix, Inc. - Reported by Floyd Wellborn

Total Metals

Project: 21-0164, Techtrix, Inc.

Sample ID: T16

Lab ID: E211303-09

Station ID: T16

Matrix: Waste

Date Collected: 3/23/21 13:52

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7429-90-5	Aluminum	15	U	mg/kg	15	4/06/21 12:03	4/14/21 13:57	EPA 6010
7440-36-0	Antimony	0.061	U	mg/kg	0.061	4/06/21 12:10	4/20/21 19:40	EPA 200.8
7440-38-2	Arsenic	0.061	U	mg/kg	0.061	4/06/21 12:10	4/20/21 19:40	EPA 200.8
7440-39-3	Barium	0.76	U	mg/kg	0.76	4/06/21 12:03	4/14/21 13:57	EPA 6010
7440-41-7	Beryllium	0.46	U	mg/kg	0.46	4/06/21 12:03	4/14/21 13:57	EPA 6010
7440-43-9	Cadmium	0.033	U, B-2	mg/kg	0.033	4/06/21 12:10	4/20/21 19:40	EPA 200.8
7440-70-2	Calcium	420		mg/kg	38	4/06/21 12:03	4/14/21 13:57	EPA 6010
7440-47-3	Chromium	12		mg/kg	0.76	4/06/21 12:03	4/14/21 13:57	EPA 6010
7440-48-4	Cobalt	4.1		mg/kg	0.76	4/06/21 12:03	4/14/21 13:57	EPA 6010
7440-50-8	Copper	46		mg/kg	1.5	4/06/21 12:03	4/14/21 13:57	EPA 6010
7439-89-6	Iron	15	U	mg/kg	15	4/06/21 12:03	4/14/21 13:57	EPA 6010
7439-92-1	Lead	7.8		mg/kg	0.061	4/06/21 12:10	4/20/21 19:40	EPA 200.8
7439-95-4	Magnesium	38	U	mg/kg	38	4/06/21 12:03	4/14/21 13:57	EPA 6010
7439-96-5	Manganese	0.76	U	mg/kg	0.76	4/06/21 12:03	4/14/21 13:57	EPA 6010
7439-98-7	Molybdenum	1.5	U	mg/kg	1.5	4/06/21 12:03	4/14/21 13:57	EPA 6010
7440-02-0	Nickel	1.5	U	mg/kg	1.5	4/06/21 12:03	4/14/21 13:57	EPA 6010
7440-09-7	Potassium	1200		mg/kg	150	4/06/21 12:03	4/14/21 13:57	EPA 6010
7782-49-2	Selenium	0.12	U	mg/kg	0.12	4/06/21 12:10	4/20/21 19:40	EPA 200.8
7440-22-4	Silver	0.76	U	mg/kg	0.76	4/06/21 12:03	4/14/21 13:57	EPA 6010
7440-23-5	Sodium	10000		mg/kg	150	4/06/21 12:03	4/14/21 13:57	EPA 6010
7440-24-6	Strontium	0.78		mg/kg	0.76	4/06/21 12:03	4/14/21 13:57	EPA 6010
7440-28-0	Thallium	0.061	U	mg/kg	0.061	4/06/21 12:10	4/20/21 19:40	EPA 200.8
7440-31-5	Tin	2.3	U, J, QL-1	mg/kg	2.3	4/06/21 12:03	4/14/21 13:57	EPA 6010
7440-32-6	Titanium	0.76	U	mg/kg	0.76	4/06/21 12:03	4/14/21 13:57	EPA 6010
7440-62-2	Vanadium	0.76	U	mg/kg	0.76	4/06/21 12:03	4/14/21 13:57	EPA 6010
7440-65-5	Yttrium	0.46	U	mg/kg	0.46	4/06/21 12:03	4/14/21 13:57	EPA 6010
7440-66-6	Zinc	6.5		mg/kg	1.5	4/06/21 12:03	4/14/21 13:57	EPA 6010



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Laboratory Services and Applied Science Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 21-0164

Project: 21-0164, Techtrix, Inc. - Reported by Floyd Wellborn

TCLP Metals

Project: 21-0164, Techtrix, Inc.

Sample ID: T16

Lab ID: E211303-09

Station ID: T16

Matrix: Waste

Date Collected: 3/23/21 13:52

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
7440-36-0	Antimony	0.20	U	mg/L	0.20	5/03/21 14:21	5/06/21 17:46	EPA 200.8
7440-38-2	Arsenic	0.20	U	mg/L	0.20	5/03/21 14:21	5/06/21 17:46	EPA 200.8
7440-39-3	Barium	0.20	U	mg/L	0.20	5/03/21 14:08	5/05/21 14:03	EPA 6010
7440-41-7	Beryllium	0.12	U	mg/L	0.12	5/03/21 14:08	5/05/21 14:03	EPA 6010
7440-43-9	Cadmium	0.20	U	mg/L	0.20	5/03/21 14:08	5/05/21 14:03	EPA 6010
7440-47-3	Chromium	11		mg/L	0.20	5/03/21 14:08	5/05/21 14:03	EPA 6010
7439-92-1	Lead	7.4		mg/L	0.20	5/03/21 14:21	5/06/21 17:46	EPA 200.8
7440-02-0	Nickel	0.40	U	mg/L	0.40	5/03/21 14:08	5/05/21 14:03	EPA 6010
7782-49-2	Selenium	0.40	U	mg/L	0.40	5/03/21 14:21	5/06/21 17:46	EPA 200.8
7440-22-4	Silver	0.20	U	mg/L	0.20	5/03/21 14:08	5/05/21 14:03	EPA 6010
7440-28-0	Thallium	0.20	U	mg/L	0.20	5/03/21 14:21	5/06/21 17:46	EPA 200.8
7440-62-2	Vanadium	0.20	U	mg/L	0.20	5/03/21 14:08	5/05/21 14:03	EPA 6010
7440-66-6	Zinc	4.3	J, QL-2	mg/L	0.40	5/03/21 14:08	5/05/21 14:03	EPA 6010



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Laboratory Services and Applied Science Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 21-0164

Project: 21-0164, Techtrix, Inc. - Reported by Floyd Wellborn

Total Metals

Project: 21-0164, Techtrix, Inc.

Sample ID: T17

Lab ID: E211303-10

Station ID: T17

Matrix: Waste

Date Collected: 3/23/21 13:58

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7429-90-5	Aluminum	22		mg/kg	15	4/06/21 12:03	4/14/21 14:03	EPA 6010
7440-36-0	Antimony	0.18		mg/kg	0.060	4/06/21 12:10	4/20/21 19:46	EPA 200.8
7440-38-2	Arsenic	0.060	U	mg/kg	0.060	4/06/21 12:10	4/20/21 19:46	EPA 200.8
7440-39-3	Barium	0.75	U	mg/kg	0.75	4/06/21 12:03	4/14/21 14:03	EPA 6010
7440-41-7	Beryllium	0.45	U	mg/kg	0.45	4/06/21 12:03	4/14/21 14:03	EPA 6010
7440-43-9	Cadmium	0.030	U	mg/kg	0.030	4/06/21 12:10	4/20/21 19:46	EPA 200.8
7440-70-2	Calcium	47		mg/kg	38	4/06/21 12:03	4/14/21 14:03	EPA 6010
7440-47-3	Chromium	26		mg/kg	0.75	4/06/21 12:03	4/14/21 14:03	EPA 6010
7440-48-4	Cobalt	6.3		mg/kg	0.75	4/06/21 12:03	4/14/21 14:03	EPA 6010
7440-50-8	Copper	43		mg/kg	1.5	4/06/21 12:03	4/14/21 14:03	EPA 6010
7439-89-6	Iron	15	U	mg/kg	15	4/06/21 12:03	4/14/21 14:03	EPA 6010
7439-92-1	Lead	0.15		mg/kg	0.060	4/06/21 12:10	4/20/21 19:46	EPA 200.8
7439-95-4	Magnesium	38	U	mg/kg	38	4/06/21 12:03	4/14/21 14:03	EPA 6010
7439-96-5	Manganese	0.75	U	mg/kg	0.75	4/06/21 12:03	4/14/21 14:03	EPA 6010
7439-98-7	Molybdenum	4.7		mg/kg	1.5	4/06/21 12:03	4/14/21 14:03	EPA 6010
7440-02-0	Nickel	1.5	U	mg/kg	1.5	4/06/21 12:03	4/14/21 14:03	EPA 6010
7440-09-7	Potassium	1300		mg/kg	150	4/06/21 12:03	4/14/21 14:03	EPA 6010
7782-49-2	Selenium	0.12	U	mg/kg	0.12	4/06/21 12:10	4/20/21 19:46	EPA 200.8
7440-22-4	Silver	0.75	U	mg/kg	0.75	4/06/21 12:03	4/14/21 14:03	EPA 6010
7440-23-5	Sodium	20000		mg/kg	300	4/06/21 12:03	4/18/21 16:55	EPA 6010
7440-24-6	Strontium	0.75	U	mg/kg	0.75	4/06/21 12:03	4/14/21 14:03	EPA 6010
7440-28-0	Thallium	0.060	U	mg/kg	0.060	4/06/21 12:10	4/20/21 19:46	EPA 200.8
7440-31-5	Tin	2.3	U, J, QL-1	mg/kg	2.3	4/06/21 12:03	4/14/21 14:03	EPA 6010
7440-32-6	Titanium	0.75	U	mg/kg	0.75	4/06/21 12:03	4/14/21 14:03	EPA 6010
7440-62-2	Vanadium	2.1		mg/kg	0.75	4/06/21 12:03	4/14/21 14:03	EPA 6010
7440-65-5	Yttrium	0.45	U	mg/kg	0.45	4/06/21 12:03	4/14/21 14:03	EPA 6010
7440-66-6	Zinc	5.7		mg/kg	1.5	4/06/21 12:03	4/14/21 14:03	EPA 6010



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Laboratory Services and Applied Science Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 21-0164

Project: 21-0164, Techtrix, Inc. - Reported by Floyd Wellborn

TCLP Metals

Project: 21-0164, Techtrix, Inc.

Sample ID: T17

Lab ID: E211303-10

Station ID: T17

Matrix: Waste

Date Collected: 3/23/21 13:58

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
7440-36-0	Antimony	0.20	U	mg/L	0.20	5/03/21 14:21	5/06/21 17:55	EPA 200.8
7440-38-2	Arsenic	0.20	U	mg/L	0.20	5/03/21 14:21	5/06/21 17:55	EPA 200.8
7440-39-3	Barium	0.50	U	mg/L	0.50	5/03/21 14:08	5/05/21 14:06	EPA 6010
7440-41-7	Beryllium	0.30	U	mg/L	0.30	5/03/21 14:08	5/05/21 14:06	EPA 6010
7440-43-9	Cadmium	0.50	U	mg/L	0.50	5/03/21 14:08	5/05/21 14:06	EPA 6010
7440-47-3	Chromium	26		mg/L	0.50	5/03/21 14:08	5/05/21 14:06	EPA 6010
7439-92-1	Lead	0.20	U	mg/L	0.20	5/03/21 14:21	5/06/21 17:55	EPA 200.8
7440-02-0	Nickel	1.0	U	mg/L	1.0	5/03/21 14:08	5/05/21 14:06	EPA 6010
7782-49-2	Selenium	0.40	U	mg/L	0.40	5/03/21 14:21	5/06/21 17:55	EPA 200.8
7440-22-4	Silver	0.50	U	mg/L	0.50	5/03/21 14:08	5/05/21 14:06	EPA 6010
7440-28-0	Thallium	0.20	U	mg/L	0.20	5/03/21 14:21	5/06/21 17:55	EPA 200.8
7440-62-2	Vanadium	2.1		mg/L	0.50	5/03/21 14:08	5/05/21 14:06	EPA 6010
7440-66-6	Zinc	3.6	J, QL-2	mg/L	1.0	5/03/21 14:08	5/05/21 14:06	EPA 6010



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Laboratory Services and Applied Science Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 21-0164

Project: 21-0164, Techtrix, Inc. - Reported by Floyd Wellborn

Total Metals

Project: 21-0164, Techtrix, Inc.

Sample ID: T20

Lab ID: E211303-11

Station ID: T20

Matrix: Waste

Date Collected: 3/23/21 14:01

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7429-90-5	Aluminum	6.2	U	mg/kg	6.2	4/06/21 12:03	4/14/21 14:06	EPA 6010
7440-36-0	Antimony	0.062	U	mg/kg	0.062	4/06/21 12:10	4/20/21 19:53	EPA 200.8
7440-38-2	Arsenic	0.062	U	mg/kg	0.062	4/06/21 12:10	4/20/21 19:53	EPA 200.8
7440-39-3	Barium	0.31	U	mg/kg	0.31	4/06/21 12:03	4/14/21 14:06	EPA 6010
7440-41-7	Beryllium	0.19	U	mg/kg	0.19	4/06/21 12:03	4/14/21 14:06	EPA 6010
7440-43-9	Cadmium	0.040	U, B-2	mg/kg	0.040	4/06/21 12:10	4/20/21 19:53	EPA 200.8
7440-70-2	Calcium	800		mg/kg	16	4/06/21 12:03	4/14/21 14:06	EPA 6010
7440-47-3	Chromium	37		mg/kg	0.31	4/06/21 12:03	4/14/21 14:06	EPA 6010
7440-48-4	Cobalt	15		mg/kg	0.31	4/06/21 12:03	4/14/21 14:06	EPA 6010
7440-50-8	Copper	130		mg/kg	0.62	4/06/21 12:03	4/14/21 14:06	EPA 6010
7439-89-6	Iron	6.2	U	mg/kg	6.2	4/06/21 12:03	4/14/21 14:06	EPA 6010
7439-92-1	Lead	4.5		mg/kg	0.062	4/06/21 12:10	4/20/21 19:53	EPA 200.8
7439-95-4	Magnesium	16	U	mg/kg	16	4/06/21 12:03	4/14/21 14:06	EPA 6010
7439-96-5	Manganese	0.31	U	mg/kg	0.31	4/06/21 12:03	4/14/21 14:06	EPA 6010
7439-98-7	Molybdenum	0.62	U	mg/kg	0.62	4/06/21 12:03	4/14/21 14:06	EPA 6010
7440-02-0	Nickel	3.5		mg/kg	0.62	4/06/21 12:03	4/14/21 14:06	EPA 6010
7440-09-7	Potassium	3400		mg/kg	62	4/06/21 12:03	4/14/21 14:06	EPA 6010
7782-49-2	Selenium	0.12	U	mg/kg	0.12	4/06/21 12:10	4/20/21 19:53	EPA 200.8
7440-22-4	Silver	22		mg/kg	0.31	4/06/21 12:03	4/14/21 14:06	EPA 6010
7440-23-5	Sodium	6200		mg/kg	62	4/06/21 12:03	4/14/21 14:06	EPA 6010
7440-24-6	Strontium	2.4		mg/kg	0.31	4/06/21 12:03	4/14/21 14:06	EPA 6010
7440-28-0	Thallium	0.062	U	mg/kg	0.062	4/06/21 12:10	4/20/21 19:53	EPA 200.8
7440-31-5	Tin	0.93	U, J, QL-1	mg/kg	0.93	4/06/21 12:03	4/14/21 14:06	EPA 6010
7440-32-6	Titanium	0.31	U	mg/kg	0.31	4/06/21 12:03	4/14/21 14:06	EPA 6010
7440-62-2	Vanadium	0.31	U	mg/kg	0.31	4/06/21 12:03	4/14/21 14:06	EPA 6010
7440-65-5	Yttrium	0.19	U	mg/kg	0.19	4/06/21 12:03	4/14/21 14:06	EPA 6010
7440-66-6	Zinc	4.1	J, QR-2	mg/kg	0.62	4/06/21 12:03	4/14/21 14:06	EPA 6010



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Laboratory Services and Applied Science Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 21-0164

Project: 21-0164, Techtrix, Inc. - Reported by Floyd Wellborn

TCLP Metals

Project: 21-0164, Techtrix, Inc.

Sample ID: T20

Lab ID: E211303-11

Station ID: T20

Matrix: Waste

Date Collected: 3/23/21 14:01

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
7440-36-0	Antimony	0.20	U	mg/L	0.20	5/03/21 14:21	5/06/21 18:15	EPA 200.8
7440-38-2	Arsenic	0.20	U	mg/L	0.20	5/03/21 14:21	5/06/21 18:15	EPA 200.8
7440-39-3	Barium	0.14	U	mg/L	0.14	5/03/21 14:08	5/05/21 14:09	EPA 6010
7440-41-7	Beryllium	0.084	U	mg/L	0.084	5/03/21 14:08	5/05/21 14:09	EPA 6010
7440-43-9	Cadmium	0.14	U	mg/L	0.14	5/03/21 14:08	5/05/21 14:09	EPA 6010
7440-47-3	Chromium	33		mg/L	0.14	5/03/21 14:08	5/05/21 14:09	EPA 6010
7439-92-1	Lead	3.4		mg/L	0.20	5/03/21 14:21	5/06/21 18:15	EPA 200.8
7440-02-0	Nickel	2.3		mg/L	0.28	5/03/21 14:08	5/05/21 14:09	EPA 6010
7782-49-2	Selenium	0.40	U	mg/L	0.40	5/03/21 14:21	5/06/21 18:15	EPA 200.8
7440-22-4	Silver	64		mg/L	2.0	5/03/21 14:08	5/06/21 10:47	EPA 6010
7440-28-0	Thallium	0.20	U	mg/L	0.20	5/03/21 14:21	5/06/21 18:15	EPA 200.8
7440-62-2	Vanadium	0.14	U	mg/L	0.14	5/03/21 14:08	5/05/21 14:09	EPA 6010
7440-66-6	Zinc	1.5	J, QL-2	mg/L	0.28	5/03/21 14:08	5/05/21 14:09	EPA 6010



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Laboratory Services and Applied Science Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 21-0164

Project: 21-0164, Techtrix, Inc. - Reported by Floyd Wellborn

Total Metals

Project: 21-0164, Techtrix, Inc.

Sample ID: T21

Lab ID: E211303-12

Station ID: T21

Matrix: Waste

Date Collected: 3/23/21 14:04

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7429-90-5	Aluminum	5.7	U	mg/kg	5.7	4/06/21 12:03	4/14/21 14:08	EPA 6010
7440-36-0	Antimony	0.057	U	mg/kg	0.057	4/06/21 12:10	4/21/21 18:27	EPA 200.8
7440-38-2	Arsenic	0.057	U	mg/kg	0.057	4/06/21 12:10	4/21/21 18:27	EPA 200.8
7440-39-3	Barium	0.28	U	mg/kg	0.28	4/06/21 12:03	4/14/21 14:08	EPA 6010
7440-41-7	Beryllium	0.17	U	mg/kg	0.17	4/06/21 12:03	4/14/21 14:08	EPA 6010
7440-43-9	Cadmium	0.028	U	mg/kg	0.028	4/06/21 12:10	4/21/21 18:27	EPA 200.8
7440-70-2	Calcium	1200		mg/kg	14	4/06/21 12:03	4/14/21 14:08	EPA 6010
7440-47-3	Chromium	21		mg/kg	0.28	4/06/21 12:03	4/14/21 14:08	EPA 6010
7440-48-4	Cobalt	7.7		mg/kg	0.28	4/06/21 12:03	4/14/21 14:08	EPA 6010
7440-50-8	Copper	12		mg/kg	0.57	4/06/21 12:03	4/14/21 14:08	EPA 6010
7439-89-6	Iron	5.7	U	mg/kg	5.7	4/06/21 12:03	4/14/21 14:08	EPA 6010
7439-92-1	Lead	1.5		mg/kg	0.057	4/06/21 12:10	4/21/21 18:27	EPA 200.8
7439-95-4	Magnesium	14	U	mg/kg	14	4/06/21 12:03	4/14/21 14:08	EPA 6010
7439-96-5	Manganese	0.28	U	mg/kg	0.28	4/06/21 12:03	4/14/21 14:08	EPA 6010
7439-98-7	Molybdenum	0.57	U	mg/kg	0.57	4/06/21 12:03	4/14/21 14:08	EPA 6010
7440-02-0	Nickel	0.57	U	mg/kg	0.57	4/06/21 12:03	4/14/21 14:08	EPA 6010
7440-09-7	Potassium	870		mg/kg	57	4/06/21 12:03	4/14/21 14:08	EPA 6010
7782-49-2	Selenium	0.11	U	mg/kg	0.11	4/06/21 12:10	4/21/21 18:27	EPA 200.8
7440-22-4	Silver	4.8		mg/kg	0.28	4/06/21 12:03	4/14/21 14:08	EPA 6010
7440-23-5	Sodium	3000		mg/kg	57	4/06/21 12:03	4/14/21 14:08	EPA 6010
7440-24-6	Strontium	1.8		mg/kg	0.28	4/06/21 12:03	4/14/21 14:08	EPA 6010
7440-28-0	Thallium	0.057	U	mg/kg	0.057	4/06/21 12:10	4/21/21 18:27	EPA 200.8
7440-31-5	Tin	1.3	J, QL-1	mg/kg	0.85	4/06/21 12:03	4/14/21 14:08	EPA 6010
7440-32-6	Titanium	0.28	U	mg/kg	0.28	4/06/21 12:03	4/14/21 14:08	EPA 6010
7440-62-2	Vanadium	0.28	U	mg/kg	0.28	4/06/21 12:03	4/14/21 14:08	EPA 6010
7440-65-5	Yttrium	0.17	U	mg/kg	0.17	4/06/21 12:03	4/14/21 14:08	EPA 6010
7440-66-6	Zinc	2.9	U, B-2, QR-2	mg/kg	2.9	4/06/21 12:03	4/14/21 14:08	EPA 6010



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Laboratory Services and Applied Science Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 21-0164

Project: 21-0164, Techtrix, Inc. - Reported by Floyd Wellborn

TCLP Metals

Project: 21-0164, Techtrix, Inc.

Sample ID: T21

Lab ID: E211303-12

Station ID: T21

Matrix: Waste

Date Collected: 3/23/21 14:04

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
7440-36-0	Antimony	0.20	U	mg/L	0.20	5/03/21 14:21	5/06/21 18:23	EPA 200.8
7440-38-2	Arsenic	0.20	U	mg/L	0.20	5/03/21 14:21	5/06/21 18:23	EPA 200.8
7440-39-3	Barium	0.24		mg/L	0.10	5/03/21 14:08	5/05/21 14:12	EPA 6010
7440-41-7	Beryllium	0.060	U	mg/L	0.060	5/03/21 14:08	5/05/21 14:12	EPA 6010
7440-43-9	Cadmium	0.10	U	mg/L	0.10	5/03/21 14:08	5/05/21 14:12	EPA 6010
7440-47-3	Chromium	19		mg/L	0.10	5/03/21 14:08	5/05/21 14:12	EPA 6010
7439-92-1	Lead	0.59		mg/L	0.20	5/03/21 14:21	5/06/21 18:23	EPA 200.8
7440-02-0	Nickel	0.20	U	mg/L	0.20	5/03/21 14:08	5/05/21 14:12	EPA 6010
7782-49-2	Selenium	0.40	U	mg/L	0.40	5/03/21 14:21	5/06/21 18:23	EPA 200.8
7440-22-4	Silver	5.4		mg/L	1.0	5/03/21 14:08	5/06/21 10:50	EPA 6010
7440-28-0	Thallium	0.20	U	mg/L	0.20	5/03/21 14:21	5/06/21 18:23	EPA 200.8
7440-62-2	Vanadium	0.10	U	mg/L	0.10	5/03/21 14:08	5/05/21 14:12	EPA 6010
7440-66-6	Zinc	0.52	J, QL-2	mg/L	0.20	5/03/21 14:08	5/05/21 14:12	EPA 6010



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Laboratory Services and Applied Science Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 21-0164

Project: 21-0164, Techtrix, Inc. - Reported by Floyd Wellborn

Total Metals

Project: 21-0164, Techtrix, Inc.

Sample ID: TK02

Lab ID: E211303-13

Station ID: TK02

Matrix: Waste

Date Collected: 3/23/21 15:07

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7429-90-5	Aluminum	110	U	mg/kg	110	4/06/21 12:03	4/14/21 14:17	EPA 6010
7440-36-0	Antimony	4.0		mg/kg	0.27	4/06/21 12:10	4/21/21 19:05	EPA 200.8
7440-38-2	Arsenic	0.27	U	mg/kg	0.27	4/06/21 12:10	4/21/21 19:05	EPA 200.8
7440-39-3	Barium	5.4	U	mg/kg	5.4	4/06/21 12:03	4/14/21 14:17	EPA 6010
7440-41-7	Beryllium	3.3	U	mg/kg	3.3	4/06/21 12:03	4/14/21 14:17	EPA 6010
7440-43-9	Cadmium	130		mg/kg	1.4	4/06/21 12:10	4/21/21 19:12	EPA 200.8
7440-70-2	Calcium	30000		mg/kg	270	4/06/21 12:03	4/14/21 14:17	EPA 6010
7440-47-3	Chromium	4700		mg/kg	5.4	4/06/21 12:03	4/14/21 14:17	EPA 6010
7440-48-4	Cobalt	14		mg/kg	5.4	4/06/21 12:03	4/14/21 14:17	EPA 6010
7440-50-8	Copper	6600		mg/kg	11	4/06/21 12:03	4/14/21 14:17	EPA 6010
7439-89-6	Iron	530		mg/kg	110	4/06/21 12:03	4/14/21 14:17	EPA 6010
7439-92-1	Lead	24		mg/kg	0.27	4/06/21 12:10	4/21/21 19:05	EPA 200.8
7439-95-4	Magnesium	940		mg/kg	270	4/06/21 12:03	4/14/21 14:17	EPA 6010
7439-96-5	Manganese	9.7		mg/kg	5.4	4/06/21 12:03	4/14/21 14:17	EPA 6010
7439-98-7	Molybdenum	11	U	mg/kg	11	4/06/21 12:03	4/14/21 14:17	EPA 6010
7440-02-0	Nickel	14		mg/kg	11	4/06/21 12:03	4/14/21 14:17	EPA 6010
7440-09-7	Potassium	2800		mg/kg	1100	4/06/21 12:03	4/14/21 14:17	EPA 6010
7782-49-2	Selenium	0.54	U	mg/kg	0.54	4/06/21 12:10	4/21/21 19:05	EPA 200.8
7440-22-4	Silver	5.4	U	mg/kg	5.4	4/06/21 12:03	4/14/21 14:17	EPA 6010
7440-23-5	Sodium	70000		mg/kg	1100	4/06/21 12:03	4/14/21 14:17	EPA 6010
7440-24-6	Strontium	20		mg/kg	5.4	4/06/21 12:03	4/14/21 14:17	EPA 6010
7440-28-0	Thallium	0.27	U	mg/kg	0.27	4/06/21 12:10	4/21/21 19:05	EPA 200.8
7440-31-5	Tin	16	U, J, QL-1	mg/kg	16	4/06/21 12:03	4/14/21 14:17	EPA 6010
7440-32-6	Titanium	5.4	U	mg/kg	5.4	4/06/21 12:03	4/14/21 14:17	EPA 6010
7440-62-2	Vanadium	5.4	U	mg/kg	5.4	4/06/21 12:03	4/14/21 14:17	EPA 6010
7440-65-5	Yttrium	3.3	U	mg/kg	3.3	4/06/21 12:03	4/14/21 14:17	EPA 6010
7440-66-6	Zinc	4100		mg/kg	27	4/06/21 12:03	4/18/21 16:58	EPA 6010



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Laboratory Services and Applied Science Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 21-0164

Project: 21-0164, Techtrix, Inc. - Reported by Floyd Wellborn

TCLP Metals

Project: 21-0164, Techtrix, Inc.

Sample ID: TK02

Lab ID: E211303-13

Station ID: TK02

Matrix: Waste

Date Collected: 3/23/21 15:07

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
7440-36-0	Antimony	0.20	U	mg/L	0.20	5/03/21 14:21	5/06/21 18:31	EPA 200.8
7440-38-2	Arsenic	0.20	U	mg/L	0.20	5/03/21 14:21	5/06/21 18:31	EPA 200.8
7440-39-3	Barium	0.10	U	mg/L	0.10	5/03/21 14:08	5/05/21 14:14	EPA 6010
7440-41-7	Beryllium	0.060	U	mg/L	0.060	5/03/21 14:08	5/05/21 14:14	EPA 6010
7440-43-9	Cadmium	0.57		mg/L	0.10	5/03/21 14:08	5/05/21 14:14	EPA 6010
7440-47-3	Chromium	6.8		mg/L	0.10	5/03/21 14:08	5/05/21 14:14	EPA 6010
7439-92-1	Lead	0.20	U	mg/L	0.20	5/03/21 14:21	5/06/21 18:31	EPA 200.8
7440-02-0	Nickel	0.20	U	mg/L	0.20	5/03/21 14:08	5/05/21 14:14	EPA 6010
7782-49-2	Selenium	0.41	U, B-2	mg/L	0.41	5/03/21 14:21	5/06/21 18:31	EPA 200.8
7440-22-4	Silver	0.10	U	mg/L	0.10	5/03/21 14:08	5/05/21 14:14	EPA 6010
7440-28-0	Thallium	0.20	U	mg/L	0.20	5/03/21 14:21	5/06/21 18:31	EPA 200.8
7440-62-2	Vanadium	0.10	U	mg/L	0.10	5/03/21 14:08	5/05/21 14:14	EPA 6010
7440-66-6	Zinc	14	J, QL-2	mg/L	0.20	5/03/21 14:08	5/05/21 14:14	EPA 6010



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Laboratory Services and Applied Science Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 21-0164

Project: 21-0164, Techtrix, Inc. - Reported by Floyd Wellborn

Total Metals

Project: 21-0164, Techtrix, Inc.

Sample ID: TK08

Lab ID: E211303-14

Station ID: TK08

Matrix: Waste

Date Collected: 3/23/21 14:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7429-90-5	Aluminum	60		mg/kg	15	4/06/21 12:03	4/14/21 14:20	EPA 6010
7440-36-0	Antimony	0.92		mg/kg	0.31	4/06/21 12:10	4/21/21 19:18	EPA 200.8
7440-38-2	Arsenic	0.31	U	mg/kg	0.31	4/06/21 12:10	4/21/21 19:18	EPA 200.8
7440-39-3	Barium	2.3		mg/kg	0.77	4/06/21 12:03	4/14/21 14:20	EPA 6010
7440-41-7	Beryllium	0.46	U	mg/kg	0.46	4/06/21 12:03	4/14/21 14:20	EPA 6010
7440-43-9	Cadmium	47		mg/kg	0.15	4/06/21 12:10	4/21/21 19:18	EPA 200.8
7440-70-2	Calcium	4600		mg/kg	39	4/06/21 12:03	4/14/21 14:20	EPA 6010
7440-47-3	Chromium	840		mg/kg	0.77	4/06/21 12:03	4/14/21 14:20	EPA 6010
7440-48-4	Cobalt	33		mg/kg	0.77	4/06/21 12:03	4/14/21 14:20	EPA 6010
7440-50-8	Copper	950		mg/kg	1.5	4/06/21 12:03	4/14/21 14:20	EPA 6010
7439-89-6	Iron	640		mg/kg	15	4/06/21 12:03	4/14/21 14:20	EPA 6010
7439-92-1	Lead	60		mg/kg	0.31	4/06/21 12:10	4/21/21 19:18	EPA 200.8
7439-95-4	Magnesium	120		mg/kg	39	4/06/21 12:03	4/14/21 14:20	EPA 6010
7439-96-5	Manganese	8.7		mg/kg	0.77	4/06/21 12:03	4/14/21 14:20	EPA 6010
7439-98-7	Molybdenum	1.5	U	mg/kg	1.5	4/06/21 12:03	4/14/21 14:20	EPA 6010
7440-02-0	Nickel	7.8		mg/kg	1.5	4/06/21 12:03	4/14/21 14:20	EPA 6010
7440-09-7	Potassium	1900		mg/kg	150	4/06/21 12:03	4/14/21 14:20	EPA 6010
7782-49-2	Selenium	0.62	U	mg/kg	0.62	4/06/21 12:10	4/21/21 19:18	EPA 200.8
7440-22-4	Silver	5.6		mg/kg	0.77	4/06/21 12:03	4/14/21 14:20	EPA 6010
7440-23-5	Sodium	5600		mg/kg	150	4/06/21 12:03	4/14/21 14:20	EPA 6010
7440-24-6	Strontium	3.7		mg/kg	0.77	4/06/21 12:03	4/14/21 14:20	EPA 6010
7440-28-0	Thallium	0.31	U	mg/kg	0.31	4/06/21 12:10	4/21/21 19:18	EPA 200.8
7440-31-5	Tin	11	J, QL-1	mg/kg	2.3	4/06/21 12:03	4/14/21 14:20	EPA 6010
7440-32-6	Titanium	0.99		mg/kg	0.77	4/06/21 12:03	4/14/21 14:20	EPA 6010
7440-62-2	Vanadium	0.77	U	mg/kg	0.77	4/06/21 12:03	4/14/21 14:20	EPA 6010
7440-65-5	Yttrium	0.46	U	mg/kg	0.46	4/06/21 12:03	4/14/21 14:20	EPA 6010
7440-66-6	Zinc	2200		mg/kg	15	4/06/21 12:03	4/18/21 17:02	EPA 6010



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Laboratory Services and Applied Science Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 21-0164

Project: 21-0164, Techtrix, Inc. - Reported by Floyd Wellborn

TCLP Metals

Project: 21-0164, Techtrix, Inc.

Sample ID: TK08

Lab ID: E211303-14

Station ID: TK08

Matrix: Waste

Date Collected: 3/23/21 14:30

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
7440-36-0	Antimony	0.20	U	mg/L	0.20	5/03/21 14:21	5/06/21 18:53	EPA 200.8
7440-38-2	Arsenic	0.20	U	mg/L	0.20	5/03/21 14:21	5/06/21 18:53	EPA 200.8
7440-39-3	Barium	0.50	U	mg/L	0.50	5/03/21 14:08	5/05/21 14:17	EPA 6010
7440-41-7	Beryllium	0.30	U	mg/L	0.30	5/03/21 14:08	5/05/21 14:17	EPA 6010
7440-43-9	Cadmium	18	J, QM-2	mg/L	0.50	5/03/21 14:08	5/05/21 14:17	EPA 6010
7440-47-3	Chromium	24		mg/L	0.50	5/03/21 14:08	5/05/21 14:17	EPA 6010
7439-92-1	Lead	2.0		mg/L	0.20	5/03/21 14:21	5/06/21 18:53	EPA 200.8
7440-02-0	Nickel	1.8		mg/L	1.0	5/03/21 14:08	5/05/21 14:17	EPA 6010
7782-49-2	Selenium	0.49	U, B-2	mg/L	0.49	5/03/21 14:21	5/06/21 18:53	EPA 200.8
7440-22-4	Silver	0.50	U	mg/L	0.50	5/03/21 14:08	5/05/21 14:17	EPA 6010
7440-28-0	Thallium	0.20	U	mg/L	0.20	5/03/21 14:21	5/06/21 18:53	EPA 200.8
7440-62-2	Vanadium	0.50	U	mg/L	0.50	5/03/21 14:08	5/05/21 14:17	EPA 6010
7440-66-6	Zinc	690	J, QL-2	mg/L	1.0	5/03/21 14:08	5/05/21 14:17	EPA 6010



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Laboratory Services and Applied Science Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 21-0164

Project: 21-0164, Techtrix, Inc. - Reported by Floyd Wellborn

Total Metals

Project: 21-0164, Techtrix, Inc.

Sample ID: TK09

Lab ID: E211303-15

Station ID: TK09

Matrix: Waste

Date Collected: 3/23/21 14:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7429-90-5	Aluminum	30	U	mg/kg	30	4/06/21 12:03	4/14/21 14:23	EPA 6010
7440-36-0	Antimony	0.30	U	mg/kg	0.30	4/06/21 12:10	4/21/21 19:38	EPA 200.8
7440-38-2	Arsenic	0.30	U	mg/kg	0.30	4/06/21 12:10	4/21/21 19:38	EPA 200.8
7440-39-3	Barium	1.5	U	mg/kg	1.5	4/06/21 12:03	4/14/21 14:23	EPA 6010
7440-41-7	Beryllium	0.89	U	mg/kg	0.89	4/06/21 12:03	4/14/21 14:23	EPA 6010
7440-43-9	Cadmium	510		mg/kg	3.7	4/06/21 12:10	4/21/21 19:44	EPA 200.8
7440-70-2	Calcium	74	U	mg/kg	74	4/06/21 12:03	4/14/21 14:23	EPA 6010
7440-47-3	Chromium	2.0		mg/kg	1.5	4/06/21 12:03	4/14/21 14:23	EPA 6010
7440-48-4	Cobalt	12		mg/kg	1.5	4/06/21 12:03	4/14/21 14:23	EPA 6010
7440-50-8	Copper	13		mg/kg	3.0	4/06/21 12:03	4/14/21 14:23	EPA 6010
7439-89-6	Iron	30	U	mg/kg	30	4/06/21 12:03	4/14/21 14:23	EPA 6010
7439-92-1	Lead	0.30	U	mg/kg	0.30	4/06/21 12:10	4/21/21 19:38	EPA 200.8
7439-95-4	Magnesium	250		mg/kg	74	4/06/21 12:03	4/14/21 14:23	EPA 6010
7439-96-5	Manganese	1.5	U	mg/kg	1.5	4/06/21 12:03	4/14/21 14:23	EPA 6010
7439-98-7	Molybdenum	3.0		mg/kg	3.0	4/06/21 12:03	4/14/21 14:23	EPA 6010
7440-02-0	Nickel	21		mg/kg	3.0	4/06/21 12:03	4/14/21 14:23	EPA 6010
7440-09-7	Potassium	2700		mg/kg	300	4/06/21 12:03	4/14/21 14:23	EPA 6010
7782-49-2	Selenium	0.59	U	mg/kg	0.59	4/06/21 12:10	4/21/21 19:38	EPA 200.8
7440-22-4	Silver	1.5	U	mg/kg	1.5	4/06/21 12:03	4/14/21 14:23	EPA 6010
7440-23-5	Sodium	38000		mg/kg	590	4/06/21 12:03	4/18/21 17:05	EPA 6010
7440-24-6	Strontium	1.5	U	mg/kg	1.5	4/06/21 12:03	4/14/21 14:23	EPA 6010
7440-28-0	Thallium	0.30	U	mg/kg	0.30	4/06/21 12:10	4/21/21 19:38	EPA 200.8
7440-31-5	Tin	4.5	U, J, QL-1	mg/kg	4.5	4/06/21 12:03	4/14/21 14:23	EPA 6010
7440-32-6	Titanium	1.5	U	mg/kg	1.5	4/06/21 12:03	4/14/21 14:23	EPA 6010
7440-62-2	Vanadium	1.5	U	mg/kg	1.5	4/06/21 12:03	4/14/21 14:23	EPA 6010
7440-65-5	Yttrium	0.89	U	mg/kg	0.89	4/06/21 12:03	4/14/21 14:23	EPA 6010
7440-66-6	Zinc	21		mg/kg	3.0	4/06/21 12:03	4/14/21 14:23	EPA 6010



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Laboratory Services and Applied Science Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 21-0164

Project: 21-0164, Techtrix, Inc. - Reported by Floyd Wellborn

TCLP Metals

Project: 21-0164, Techtrix, Inc.

Sample ID: TK09

Lab ID: E211303-15

Station ID: TK09

Matrix: Waste

Date Collected: 3/23/21 14:25

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
7440-36-0	Antimony	0.20	U	mg/L	0.20	5/03/21 14:21	5/06/21 19:14	EPA 200.8
7440-38-2	Arsenic	0.20	U	mg/L	0.20	5/03/21 14:21	5/06/21 19:14	EPA 200.8
7440-39-3	Barium	0.60	U	mg/L	0.60	5/03/21 14:08	5/06/21 10:33	EPA 6010
7440-41-7	Beryllium	0.36	U	mg/L	0.36	5/03/21 14:08	5/06/21 10:33	EPA 6010
7440-43-9	Cadmium	510	J, QC-4	mg/L	0.60	5/03/21 14:08	5/06/21 10:33	EPA 6010
7440-47-3	Chromium	0.60	U	mg/L	0.60	5/03/21 14:08	5/06/21 10:33	EPA 6010
7439-92-1	Lead	0.20	U	mg/L	0.20	5/03/21 14:21	5/06/21 19:14	EPA 200.8
7440-02-0	Nickel	22		mg/L	1.2	5/03/21 14:08	5/06/21 10:33	EPA 6010
7782-49-2	Selenium	0.40	U	mg/L	0.40	5/03/21 14:21	5/06/21 19:14	EPA 200.8
7440-22-4	Silver	1.4		mg/L	0.60	5/03/21 14:08	5/06/21 10:33	EPA 6010
7440-28-0	Thallium	0.20	U	mg/L	0.20	5/03/21 14:21	5/06/21 19:14	EPA 200.8
7440-62-2	Vanadium	0.60	U	mg/L	0.60	5/03/21 14:08	5/06/21 10:33	EPA 6010
7440-66-6	Zinc	13	J, QL-2	mg/L	1.2	5/03/21 14:08	5/06/21 10:33	EPA 6010



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Laboratory Services and Applied Science Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 21-0164

Project: 21-0164, Techtrix, Inc. - Reported by Floyd Wellborn

Total Metals

Project: 21-0164, Techtrix, Inc.

Sample ID: WA01

Lab ID: E211303-16

Station ID: WA01

Matrix: Waste

Date Collected: 3/23/21 9:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7429-90-5	Aluminum	7900		mg/kg	340	4/06/21 12:03	4/14/21 14:25	EPA 6010
7440-36-0	Antimony	2.0		mg/kg	0.34	4/06/21 12:10	4/21/21 19:57	EPA 200.8
7440-38-2	Arsenic	1.0		mg/kg	0.34	4/06/21 12:10	4/21/21 19:57	EPA 200.8
7440-39-3	Barium	36		mg/kg	17	4/06/21 12:03	4/14/21 14:25	EPA 6010
7440-41-7	Beryllium	10	U	mg/kg	10	4/06/21 12:03	4/14/21 14:25	EPA 6010
7440-43-9	Cadmium	300		mg/kg	4.2	4/06/21 12:10	4/21/21 20:03	EPA 200.8
7440-70-2	Calcium	3600		mg/kg	850	4/06/21 12:03	4/14/21 14:25	EPA 6010
7440-47-3	Chromium	50000		mg/kg	170	4/06/21 12:03	4/15/21 14:06	EPA 6010
7440-48-4	Cobalt	12000		mg/kg	17	4/06/21 12:03	4/14/21 14:25	EPA 6010
7440-50-8	Copper	180		mg/kg	34	4/06/21 12:03	4/14/21 14:25	EPA 6010
7439-89-6	Iron	17000		mg/kg	340	4/06/21 12:03	4/14/21 14:25	EPA 6010
7439-92-1	Lead	740		mg/kg	8.5	4/06/21 12:10	4/21/21 20:03	EPA 200.8
7439-95-4	Magnesium	850	U	mg/kg	850	4/06/21 12:03	4/14/21 14:25	EPA 6010
7439-96-5	Manganese	150		mg/kg	17	4/06/21 12:03	4/14/21 14:25	EPA 6010
7439-98-7	Molybdenum	130		mg/kg	34	4/06/21 12:03	4/14/21 14:25	EPA 6010
7440-02-0	Nickel	440		mg/kg	34	4/06/21 12:03	4/14/21 14:25	EPA 6010
7440-09-7	Potassium	3400	U	mg/kg	3400	4/06/21 12:03	4/14/21 14:25	EPA 6010
7782-49-2	Selenium	0.68	U	mg/kg	0.68	4/06/21 12:10	4/21/21 19:57	EPA 200.8
7440-22-4	Silver	17	U	mg/kg	17	4/06/21 12:03	4/14/21 14:25	EPA 6010
7440-23-5	Sodium	23000		mg/kg	3400	4/06/21 12:03	4/14/21 14:25	EPA 6010
7440-24-6	Strontium	17	U	mg/kg	17	4/06/21 12:03	4/14/21 14:25	EPA 6010
7440-28-0	Thallium	0.34	U	mg/kg	0.34	4/06/21 12:10	4/21/21 19:57	EPA 200.8
7440-31-5	Tin	51	U, J, QL-1	mg/kg	51	4/06/21 12:03	4/14/21 14:25	EPA 6010
7440-32-6	Titanium	17	U	mg/kg	17	4/06/21 12:03	4/14/21 14:25	EPA 6010
7440-62-2	Vanadium	110		mg/kg	17	4/06/21 12:03	4/14/21 14:25	EPA 6010
7440-65-5	Yttrium	10	U	mg/kg	10	4/06/21 12:03	4/14/21 14:25	EPA 6010
7440-66-6	Zinc	220000		mg/kg	3400	4/06/21 12:03	4/18/21 17:12	EPA 6010



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Laboratory Services and Applied Science Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 21-0164

Project: 21-0164, Techtrix, Inc. - Reported by Floyd Wellborn

TCLP Metals

Project: 21-0164, Techtrix, Inc.

Sample ID: WA01

Lab ID: E211303-16

Station ID: WA01

Matrix: Waste

Date Collected: 3/23/21 9:00

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
7440-36-0	Antimony	0.20	U, J, QI-1	mg/L	0.20	5/03/21 14:21	5/06/21 19:25	EPA 200.8
7440-38-2	Arsenic	0.20	U, J, QI-1	mg/L	0.20	5/03/21 14:21	5/06/21 19:25	EPA 200.8
7440-39-3	Barium	0.50	U	mg/L	0.50	5/03/21 14:08	5/06/21 10:36	EPA 6010
7440-41-7	Beryllium	0.30	U	mg/L	0.30	5/03/21 14:08	5/06/21 10:36	EPA 6010
7440-43-9	Cadmium	0.74	J, QR-2	mg/L	0.50	5/03/21 14:08	5/06/21 10:36	EPA 6010
7440-47-3	Chromium	49		mg/L	0.50	5/03/21 14:08	5/06/21 10:36	EPA 6010
7439-92-1	Lead	0.20	U, J, QI-1	mg/L	0.20	5/03/21 14:21	5/06/21 19:25	EPA 200.8
7440-02-0	Nickel	1.0	U	mg/L	1.0	5/03/21 14:08	5/06/21 10:36	EPA 6010
7782-49-2	Selenium	0.44	U, B-2	mg/L	0.44	5/03/21 14:21	5/06/21 19:25	EPA 200.8
7440-22-4	Silver	0.50	U	mg/L	0.50	5/03/21 14:08	5/06/21 10:36	EPA 6010
7440-28-0	Thallium	0.20	U, J, QI-1	mg/L	0.20	5/03/21 14:21	5/06/21 19:25	EPA 200.8
7440-62-2	Vanadium	0.50	U	mg/L	0.50	5/03/21 14:08	5/06/21 10:36	EPA 6010
7440-66-6	Zinc	850	J, QL-2	mg/L	1.0	5/03/21 14:08	5/06/21 10:36	EPA 6010



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Laboratory Services and Applied Science Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 21-0164

Project: 21-0164, Techtrix, Inc. - Reported by Floyd Wellborn

Total Metals (TMTL) - Quality Control

US-EPA, Region 4, LSASD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2103082 - M 200.2 Metals Soil

Blank (2103082-BLK1)

Prepared: 04/06/21 Analyzed: 04/13/21

EPA 6010

Aluminum	U	10	mg/kg dry							U
Barium	U	0.50	"							U
Beryllium	U	0.30	"							U
Calcium	U	25	"							U
Chromium	U	0.50	"							U
Cobalt	U	0.50	"							U
Copper	U	1.0	"							U
Iron	U	10	"							U
Magnesium	U	25	"							U
Manganese	U	0.50	"							U
Molybdenum	U	1.0	"							U
Nickel	U	1.0	"							U
Potassium	U	100	"							U
Silver	U	0.50	"							U
Sodium	U	100	"							U
Strontium	U	0.50	"							U
Tin	U	1.5	"							U
Titanium	U	0.50	"							U
Vanadium	U	0.50	"							U
Yttrium	U	0.30	"							U
Zinc	U	1.0	"							U

Blank (2103082-BLK2)

Prepared: 04/06/21 Analyzed: 04/13/21

EPA 6010

Aluminum	U	10	mg/kg dry							U
Barium	U	0.50	"							U
Beryllium	U	0.30	"							U
Calcium	U	25	"							U
Chromium	U	0.50	"							U
Cobalt	U	0.50	"							U
Copper	U	1.0	"							U
Iron	U	10	"							U
Magnesium	U	25	"							U
Manganese	U	0.50	"							U
Molybdenum	U	1.0	"							U
Nickel	U	1.0	"							U
Potassium	U	100	"							U
Silver	U	0.50	"							U
Sodium	U	100	"							U



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Laboratory Services and Applied Science Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 21-0164

Project: 21-0164, Techtrix, Inc. - Reported by Floyd Wellborn

Total Metals (TMTL) - Quality Control

US-EPA, Region 4, LSASD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2103082 - M 200.2 Metals Soil

Blank (2103082-BLK2)

Prepared: 04/06/21 Analyzed: 04/13/21

Strontium	U	0.50	mg/kg dry							U
Tin	U	1.5	"							U
Titanium	U	0.50	"							U
Vanadium	U	0.50	"							U
Yttrium	U	0.30	"							U
Zinc	U	1.0	"							U

Blank (2103082-BLK3)

Prepared: 04/06/21 Analyzed: 04/14/21

EPA 6010

Molybdenum	U	1.0	mg/kg dry							U
Tin	U	1.5	"							U
Zinc	U	1.0	"							U

Blank (2103082-BLK4)

Prepared: 04/06/21 Analyzed: 04/14/21

EPA 6010

Molybdenum	U	1.0	mg/kg dry							U
Tin	U	1.5	"							U
Zinc	U	1.0	"							U

LCS (2103082-BS1)

Prepared: 04/06/21 Analyzed: 04/13/21

EPA 6010

Aluminum	483.06	10	mg/kg dry	500.00		96.6	85-115			
Barium	47.824	0.50	"	50.000		95.6	85-115			
Beryllium	19.340	0.30	"	20.000		96.7	85-115			
Calcium	493.96	25	"	500.00		98.8	85-115			
Chromium	47.210	0.50	"	50.000		94.4	85-115			
Cobalt	47.195	0.50	"	50.000		94.4	85-115			
Copper	28.438	1.0	"	30.000		94.8	85-115			
Iron	507.63	10	"	500.00		102	85-115			
Magnesium	496.17	25	"	500.00		99.2	85-115			
Manganese	481.12	0.50	"	500.00		96.2	85-115			
Molybdenum	24.914	1.0	"	30.000		83.0	85-115			QL-1
Nickel	74.441	1.0	"	80.000		93.1	85-115			
Potassium	958.07	100	"	1000.0		95.8	85-115			
Silver	9.5579	0.50	"	10.000		95.6	85-115			
Sodium	955.51	100	"	1000.0		95.6	85-115			
Strontium	38.639	0.50	"	40.000		96.6	85-115			
Tin	80.386	1.5	"	100.00		80.4	85-115			QL-1
Titanium	48.227	0.50	"	50.000		96.5	85-115			



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Laboratory Services and Applied Science Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 21-0164

Project: 21-0164, Techtrix, Inc. - Reported by Floyd Wellborn

Total Metals (TMTL) - Quality Control

US-EPA, Region 4, LSASD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2103082 - M 200.2 Metals Soil

LCS (2103082-BS1)

Prepared: 04/06/21 Analyzed: 04/13/21

Vanadium	38.106	0.50	mg/kg dry	40.000		95.3	85-115			
Yttrium	28.770	0.30	"	30.000		95.9	85-115			
Zinc	95.996	1.0	"	100.00		96.0	85-115			

LCS (2103082-BS2)

Prepared: 04/06/21 Analyzed: 04/14/21

EPA 6010

Molybdenum	24.688	1.0	mg/kg dry	30.000		82.3	85-115			QL-1
Tin	79.927	1.5	"	100.00		79.9	85-115			QL-1
Zinc	97.617	1.0	"	100.00		97.6	85-115			

Matrix Spike (2103082-MS1)

Source: E211303-05

Prepared: 04/06/21 Analyzed: 04/13/21

EPA 6010

Aluminum	3594.9	200	mg/kg dry	493.88	2764.1	168	75-125			QM-2
Barium	173.84	9.9	"	49.388	117.27	115	75-125			
Beryllium	17.458	5.9	"	19.755	U	88.4	75-125			
Calcium	28150	490	"	493.88	29788	-332	75-125			XM-1
Chromium	1844.0	9.9	"	49.388	1502.5	692	75-125			XM-1
Cobalt	149.24	9.9	"	49.388	99.691	100	75-125			
Copper	1849.5	20	"	29.633	2057.9	-703	75-125			XM-1
Iron	92672	200	"	493.88	112900	-4090	75-125			XM-1
Magnesium	3869.7	490	"	493.88	2628.6	251	75-125			QM-2, QM-3
Manganese	900.27	9.9	"	493.88	613.00	58.2	75-125			QM-1
Molybdenum	8.3651	20	"	29.633	U	28.2	75-125			QM-1, QM-3, U
Nickel	306.73	20	"	79.020	176.67	165	75-125			QM-2
Potassium	1332.7	2000	"	987.75	443.56	90.0	75-125			U
Silver	59.792	9.9	"	9.8775	53.601	62.7	75-125			QM-1
Sodium	1622.6	2000	"	987.75	669.73	96.5	75-125			U
Strontium	68.246	9.9	"	39.510	41.954	66.5	75-125			QM-1
Tin	115.33	30	"	98.775	74.644	41.2	75-125			QM-1, QM-3
Titanium	68.178	9.9	"	49.388	44.164	48.6	75-125			QM-1
Vanadium	43.814	9.9	"	39.510	10.769	83.6	75-125			
Yttrium	28.593	5.9	"	29.633	2.0547	89.6	75-125			



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Laboratory Services and Applied Science Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 21-0164

Project: 21-0164, Techtrix, Inc. - Reported by Floyd Wellborn

Total Metals (TMTL) - Quality Control

US-EPA, Region 4, LSASD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2103082 - M 200.2 Metals Soil

Matrix Spike (2103082-MS2)

Source: E211303-05RE1

Prepared: 04/06/21 Analyzed: 04/14/21

EPA 6010

Zinc	10326	20	mg/kg dry	98.775	10137	191	75-125			XM-1
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Matrix Spike Dup (2103082-MSD1)

Source: E211303-05

Prepared: 04/06/21 Analyzed: 04/13/21

EPA 6010

Aluminum	3367.8	200	mg/kg dry	491.55	2764.1	123	75-125	6.52	20	
Barium	177.02	9.8	"	49.155	117.27	122	75-125	1.82	20	
Beryllium	16.981	5.9	"	19.662	U	86.4	75-125	2.77	20	
Calcium	24116	490	"	491.55	29788	-1150	75-125	15.4	20	XM-1
Chromium	2102.4	9.8	"	49.155	1502.5	1220	75-125	13.1	20	XM-1
Cobalt	148.26	9.8	"	49.155	99.691	98.8	75-125	0.656	20	
Copper	2143.2	20	"	29.493	2057.9	289	75-125	14.7	20	XM-1
Iron	95546	200	"	491.55	112900	-3530	75-125	3.05	20	XM-1
Magnesium	2551.3	490	"	491.55	2628.6	-15.7	75-125	41.1	20	QM-1, QM-3
Manganese	922.26	9.8	"	491.55	613.00	62.9	75-125	2.41	20	QM-1
Molybdenum	6.6122	20	"	29.493	U	22.4	75-125	23.4	20	QM-1, QM-3, U
Nickel	304.41	20	"	78.647	176.67	162	75-125	0.758	20	QM-2
Potassium	1286.4	2000	"	983.09	443.56	85.7	75-125	3.53	20	U
Silver	58.727	9.8	"	9.8309	53.601	52.1	75-125	1.80	20	QM-1
Sodium	1676.1	2000	"	983.09	669.73	102	75-125	3.25	20	U
Strontium	69.768	9.8	"	39.324	41.954	70.7	75-125	2.20	20	QM-1
Tin	159.88	29	"	98.309	74.644	86.7	75-125	32.4	20	QM-3
Titanium	70.325	9.8	"	49.155	44.164	53.2	75-125	3.10	20	QM-1
Vanadium	43.183	9.8	"	39.324	10.769	82.4	75-125	1.45	20	
Yttrium	27.535	5.9	"	29.493	2.0547	86.4	75-125	3.77	20	

Matrix Spike Dup (2103082-MSD2)

Source: E211303-05RE1

Prepared: 04/06/21 Analyzed: 04/14/21

EPA 6010

Zinc	10516	20	mg/kg dry	98.309	10137	385	75-125	1.83	20	XM-1
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MRL Verification (2103082-PS1)

Prepared: 04/06/21 Analyzed: 04/13/21

EPA 6010

Aluminum	8.9670	10	mg/kg dry	10.000		89.7	70-130			MRL-3, U
Barium	0.47809	0.50	"	0.50000		95.6	70-130			MRL-3, U
Beryllium	0.27581	0.30	"	0.30000		91.9	70-130			MRL-3, U



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Laboratory Services and Applied Science Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 21-0164

Project: 21-0164, Techtrix, Inc. - Reported by Floyd Wellborn

Total Metals (TMTL) - Quality Control

US-EPA, Region 4, LSASD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2103082 - M 200.2 Metals Soil

MRL Verification (2103082-PS1)

Prepared: 04/06/21 Analyzed: 04/13/21

Calcium	23.040	25	mg/kg dry	25.000		92.2	70-130			MRL-3, U
Chromium	0.48538	0.50	"	0.50000		97.1	70-130			MRL-3, U
Cobalt	0.49683	0.50	"	0.50000		99.4	70-130			MRL-3, U
Copper	0.93223	1.0	"	1.0000		93.2	70-130			MRL-3, U
Iron	9.5293	10	"	10.000		95.3	70-130			MRL-3, U
Magnesium	23.100	25	"	25.000		92.4	70-130			MRL-3, U
Manganese	0.53444	0.50	"	0.50000		107	70-130			MRL-3
Molybdenum	0.94276	1.0	"	1.0000		94.3	70-130			MRL-3, U
Nickel	0.92757	1.0	"	1.0000		92.8	70-130			MRL-3, U
Potassium	90.002	100	"	100.00		90.0	70-130			MRL-3, U
Silver	0.47120	0.50	"	0.50000		94.2	70-130			MRL-3, U
Sodium	90.666	100	"	100.00		90.7	70-130			MRL-3, U
Strontium	0.47343	0.50	"	0.50000		94.7	70-130			MRL-3, U
Tin	1.4205	1.5	"	1.5000		94.7	70-130			MRL-3, U
Titanium	0.46535	0.50	"	0.50000		93.1	70-130			MRL-3, U
Vanadium	0.54699	0.50	"	0.50000		109	70-130			MRL-3
Yttrium	0.28687	0.30	"	0.30000		95.6	70-130			MRL-3, U
Zinc	0.95737	1.0	"	1.0000		95.7	70-130			MRL-3, U

MRL Verification (2103082-PS2)

Prepared: 04/06/21 Analyzed: 04/14/21

EPA 6010

Molybdenum	0.92506	1.0	mg/kg dry	1.0000		92.5	70-130			MRL-3, U
Tin	1.4298	1.5	"	1.5000		95.3	70-130			MRL-3, U
Zinc	0.98364	1.0	"	1.0000		98.4	70-130			MRL-3, U

Batch 2103083 - M 200.2 Metals Soil

Blank (2103083-BLK1)

Prepared: 04/06/21 Analyzed: 04/15/21



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Laboratory Services and Applied Science Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 21-0164

Project: 21-0164, Techtrix, Inc. - Reported by Floyd Wellborn

Total Metals (TMTL) - Quality Control

US-EPA, Region 4, LSASD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2103083 - M 200.2 Metals Soil

Blank (2103083-BLK1)

Prepared: 04/06/21 Analyzed: 04/15/21

EPA 200.8

Antimony	U	0.050	mg/kg dry							U
Arsenic	U	0.050	"							U
Cadmium	U	0.025	"							U
Lead	U	0.050	"							U
Selenium	U	0.10	"							U
Thallium	U	0.050	"							U

Blank (2103083-BLK2)

Prepared: 04/06/21 Analyzed: 04/15/21

EPA 200.8

Antimony	U	0.050	mg/kg dry							U
Arsenic	U	0.050	"							U
Cadmium	U	0.025	"							U
Lead	U	0.050	"							U
Selenium	U	0.10	"							U
Thallium	U	0.050	"							U

LCS (2103083-BS1)

Prepared: 04/06/21 Analyzed: 04/15/21

EPA 200.8

Antimony	83.613	1.0	mg/kg dry	100.00		83.6	85-115			QL-1
Arsenic	50.648	1.0	"	50.000		101	85-115			
Cadmium	19.272	0.50	"	20.000		96.4	85-115			
Lead	98.131	1.0	"	100.00		98.1	85-115			
Selenium	103.58	2.0	"	100.00		104	85-115			
Thallium	19.437	1.0	"	20.000		97.2	85-115			

Matrix Spike (2103083-MS1)

Source: E211303-05

Prepared: 04/06/21 Analyzed: 04/15/21

EPA 200.8

Antimony	44.386	0.99	mg/kg dry	98.775	15.546	29.2	70-130			QM-1
Arsenic	25.614	0.99	"	49.388	2.6057	46.6	70-130			QM-1
Cadmium	2631.4	0.49	"	19.755	2290.3	1730	70-130			QC-4, XM-1
Lead	1234.1	0.99	"	98.775	1666.5	-438	70-130			QC-4, XM-1
Selenium	13.157	2.0	"	98.775	U	13.3	70-130			QM-1
Thallium	16.861	0.99	"	19.755	U	85.3	70-130			



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Laboratory Services and Applied Science Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 21-0164

Project: 21-0164, Techtrix, Inc. - Reported by Floyd Wellborn

Total Metals (TMTL) - Quality Control

US-EPA, Region 4, LSASD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2103083 - M 200.2 Metals Soil

Matrix Spike (2103083-MS2)

Source: E211303-05RE1

Prepared: 04/06/21 Analyzed: 04/15/21

EPA 200.8

Cadmium	2698.1	12	mg/kg dry	19.755	2306.8	1980	70-130			XM-1
Lead	1305.7	25	"	98.775	1719.6	-419	70-130			XM-1

Matrix Spike Dup (2103083-MSD1)

Source: E211303-05

Prepared: 04/06/21 Analyzed: 04/15/21

EPA 200.8

Antimony	46.016	0.98	mg/kg dry	98.309	15.546	31.0	70-130	3.61	20	QM-1
Arsenic	21.112	0.98	"	49.155	2.6057	37.6	70-130	19.3	20	QM-1
Cadmium	2446.2	0.49	"	19.662	2290.3	793	70-130	7.29	20	QC-4, XM-1
Lead	1790.2	0.98	"	98.309	1666.5	126	70-130	36.8	20	QC-4, QM-3, XM-1
Selenium	10.896	2.0	"	98.309	U	11.1	70-130	18.8	20	QM-1
Thallium	16.869	0.98	"	19.662	U	85.8	70-130	0.0499	20	

Matrix Spike Dup (2103083-MSD2)

Source: E211303-05RE1

Prepared: 04/06/21 Analyzed: 04/15/21

EPA 200.8

Cadmium	2548.4	12	mg/kg dry	19.662	2306.8	1230	70-130	5.71	20	XM-1
Lead	1828.0	25	"	98.309	1719.6	110	70-130	33.3	20	QM-3, XM-1

MRL Verification (2103083-PS1)

Prepared: 04/06/21 Analyzed: 04/15/21

EPA 200.8

Antimony	0.050667	0.050	mg/kg dry	0.050000		101	65-135			MRL-3
Arsenic	0.11717	0.050	"	0.10000		117	65-135			MRL-3
Cadmium	0.039869	0.025	"	0.050000		79.7	65-135			MRL-3
Lead	0.098480	0.050	"	0.10000		98.5	65-135			MRL-3
Selenium	0.22229	0.10	"	0.20000		111	65-135			MRL-3
Thallium	0.039220	0.050	"	0.050000		78.4	65-135			MRL-3, U

Batch 2104013 - M 200.2 Metals Waste

Blank (2104013-BLK1)

Prepared: 04/06/21 Analyzed: 04/14/21

EPA 6010

Aluminum	U	5.0	mg/kg							U
Barium	U	0.25	"							U
Beryllium	U	0.15	"							U
Calcium	U	12	"							U



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Laboratory Services and Applied Science Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 21-0164

Project: 21-0164, Techtrix, Inc. - Reported by Floyd Wellborn

Total Metals (TMTL) - Quality Control

US-EPA, Region 4, LSASD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2104013 - M 200.2 Metals Waste

Blank (2104013-BLK1)

Prepared: 04/06/21 Analyzed: 04/14/21

Chromium	U	0.25	mg/kg							B-4, U
Cobalt	U	0.25	"							U
Copper	U	0.50	"							B-3, U
Iron	U	5.0	"							U
Magnesium	U	12	"							U
Manganese	U	0.25	"							U
Molybdenum	U	0.50	"							U
Nickel	U	0.50	"							U
Potassium	U	50	"							U
Silver	U	0.25	"							U
Sodium	U	50	"							U
Strontium	U	0.25	"							U
Tin	U	0.75	"							U
Titanium	U	0.25	"							U
Vanadium	U	0.25	"							U
Yttrium	U	0.15	"							U
Zinc	0.59563	0.50	"							B-4

Blank (2104013-BLK2)

Prepared: 04/06/21 Analyzed: 04/15/21

EPA 6010

Chromium	U	0.25	mg/kg							U
Sodium	U	50	"							U
Zinc	0.56816	0.50	"							B-3

Blank (2104013-BLK3)

Prepared: 04/06/21 Analyzed: 04/18/21

EPA 6010

Sodium	U	50	mg/kg							U
Zinc	0.60620	0.50	"							B-3

LCS (2104013-BS1)

Prepared: 04/06/21 Analyzed: 04/14/21

EPA 6010

Aluminum	249.03	5.0	mg/kg	250.00	99.6	85-115
Barium	25.778	0.25	"	25.000	103	85-115
Beryllium	10.408	0.15	"	10.000	104	85-115
Calcium	248.44	12	"	250.00	99.4	85-115
Chromium	24.657	0.25	"	25.000	98.6	85-115
Cobalt	24.450	0.25	"	25.000	97.8	85-115
Copper	16.274	0.50	"	15.000	108	85-115
Iron	255.94	5.0	"	250.00	102	85-115



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Laboratory Services and Applied Science Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 21-0164

Project: 21-0164, Techtrix, Inc. - Reported by Floyd Wellborn

Total Metals (TMTL) - Quality Control

US-EPA, Region 4, LSASD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2104013 - M 200.2 Metals Waste

LCS (2104013-BS1)

Prepared: 04/06/21 Analyzed: 04/14/21

Magnesium	254.62	12	mg/kg	250.00		102	85-115			
Manganese	252.91	0.25	"	250.00		101	85-115			
Molybdenum	13.381	0.50	"	15.000		89.2	85-115			
Nickel	39.596	0.50	"	40.000		99.0	85-115			
Potassium	500.34	50	"	500.00		100	85-115			
Silver	5.0587	0.25	"	5.0000		101	85-115			
Sodium	510.70	50	"	500.00		102	85-115			
Strontium	20.445	0.25	"	20.000		102	85-115			
Tin	41.713	0.75	"	50.000		83.4	85-115			QL-1
Titanium	24.440	0.25	"	25.000		97.8	85-115			
Vanadium	19.723	0.25	"	20.000		98.6	85-115			
Yttrium	15.520	0.15	"	15.000		103	85-115			
Zinc	50.904	0.50	"	50.000		102	85-115			

LCS (2104013-BS2)

Prepared: 04/06/21 Analyzed: 04/15/21

EPA 6010

Chromium	23.916	0.25	mg/kg	25.000		95.7	85-115			
Sodium	578.39	50	"	500.00		116	85-115			QL-2
Zinc	50.990	0.50	"	50.000		102	85-115			

LCS (2104013-BS3)

Prepared: 04/06/21 Analyzed: 04/18/21

EPA 6010

Sodium	500.89	50	mg/kg	500.00		100	85-115			
Zinc	49.274	0.50	"	50.000		98.5	85-115			

Matrix Spike (2104013-MS1)

Source: E211303-04

Prepared: 04/06/21 Analyzed: 04/14/21

EPA 6010

Aluminum	837.98	150	mg/kg	153.82	705.55	86.1	75-125			
Barium	24.429	7.7	"	15.382	29.199	-31.0	75-125			QM-1
Beryllium	4.9548	4.6	"	6.1527	U	80.5	75-125			
Calcium	68927	380	"	153.82	77778	-5750	75-125			XM-1
Chromium	11720	7.7	"	15.382	12608	-5780	75-125			XM-1
Cobalt	229.67	7.7	"	15.382	189.15	263	75-125			XM-1
Copper	8993.8	15	"	9.2291	10705	-18500	75-125			XM-1
Iron	4398.2	150	"	153.82	8501.5	-2670	75-125			XM-1
Magnesium	1943.0	380	"	153.82	1947.0	-2.55	75-125			XM-1
Manganese	243.40	7.7	"	153.82	96.367	95.6	75-125			
Molybdenum	5.1064	15	"	9.2291	U	55.3	75-125			QM-1, U
Nickel	580.94	15	"	24.611	652.72	-292	75-125			XM-1



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Laboratory Services and Applied Science Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 21-0164

Project: 21-0164, Techtrix, Inc. - Reported by Floyd Wellborn

Total Metals (TMTL) - Quality Control

US-EPA, Region 4, LSASD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2104013 - M 200.2 Metals Waste

Matrix Spike (2104013-MS1)

Source: E211303-04

Prepared: 04/06/21 Analyzed: 04/14/21

Potassium	3002.8	1500	mg/kg	307.64	2801.0	65.6	75-125			QM-1
Silver	24.807	7.7	"	3.0764	26.796	-64.7	75-125			QM-1
Sodium	27892	1500	"	307.64	28186	-95.6	75-125			XM-1
Strontium	42.938	7.7	"	12.305	35.809	57.9	75-125			QM-1
Tin	1272.0	23	"	30.764	1763.4	-1600	75-125			XM-1
Titanium	25.282	7.7	"	15.382	16.284	58.5	75-125			QM-1
Vanadium	18.469	7.7	"	12.305	5.9837	101	75-125			
Yttrium	9.0585	4.6	"	9.2291	U	98.2	75-125			

Matrix Spike (2104013-MS2)

Source: E211303-12

Prepared: 04/06/21 Analyzed: 04/14/21

EPA 6010

Aluminum	163.37	6.6	mg/kg	164.65	U	99.2	75-125			
Barium	17.596	0.33	"	16.465	0.23094	105	75-125			
Beryllium	6.9662	0.20	"	6.5859	U	106	75-125			
Calcium	1440.7	16	"	164.65	1244.6	119	75-125			
Chromium	37.254	0.33	"	16.465	20.578	101	75-125			
Cobalt	25.269	0.33	"	16.465	7.6731	107	75-125			
Copper	21.521	0.66	"	9.8788	11.713	99.3	75-125			
Iron	176.34	6.6	"	164.65	2.5261	106	75-125			
Magnesium	169.28	16	"	164.65	U	103	75-125			
Manganese	171.64	0.33	"	164.65	U	104	75-125			
Molybdenum	9.4732	0.66	"	9.8788	0.44578	91.4	75-125			
Nickel	27.803	0.66	"	26.344	U	106	75-125			
Potassium	1216.3	66	"	329.29	865.75	106	75-125			
Silver	8.3534	0.33	"	3.2929	4.8425	107	75-125			
Sodium	3376.0	66	"	329.29	3046.3	100	75-125			XM-1
Strontium	14.741	0.33	"	13.172	1.8067	98.2	75-125			
Tin	27.882	0.99	"	32.929	1.3199	80.7	75-125			
Titanium	16.457	0.33	"	16.465	U	100	75-125			
Vanadium	13.222	0.33	"	13.172	U	100	75-125			
Yttrium	10.087	0.20	"	9.8788	U	102	75-125			
Zinc	38.743	0.66	"	32.929	2.8490	109	75-125			



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Laboratory Services and Applied Science Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 21-0164

Project: 21-0164, Techtrix, Inc. - Reported by Floyd Wellborn

Total Metals (TMTL) - Quality Control

US-EPA, Region 4, LSASD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2104013 - M 200.2 Metals Waste

Matrix Spike (2104013-MS3)

Source: E211303-04RE1

Prepared: 04/06/21 Analyzed: 04/15/21

EPA 6010

Zinc	22425	31	mg/kg	30.764	21509	2980	75-125			XM-1
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Matrix Spike Dup (2104013-MSD1)

Source: E211303-04

Prepared: 04/06/21 Analyzed: 04/14/21

EPA 6010

Aluminum	956.06	170	mg/kg	165.96	705.55	151	75-125	13.2	20	QM-2
Barium	26.893	8.3	"	16.596	29.199	-13.9	75-125	9.60	20	QM-1
Beryllium	5.9343	5.0	"	6.6383	U	89.4	75-125	18.0	20	
Calcium	65939	410	"	165.96	77778	-7130	75-125	4.43	20	XM-1
Chromium	12076	8.3	"	16.596	12608	-3210	75-125	2.99	20	XM-1
Cobalt	267.60	8.3	"	16.596	189.15	473	75-125	15.3	20	XM-1
Copper	9335.6	17	"	9.9575	10705	-13700	75-125	3.73	20	XM-1
Iron	4549.1	170	"	165.96	8501.5	-2380	75-125	3.37	20	XM-1
Magnesium	1910.1	410	"	165.96	1947.0	-22.2	75-125	1.71	20	XM-1
Manganese	243.83	8.3	"	165.96	96.367	88.9	75-125	0.177	20	
Molybdenum	5.0242	17	"	9.9575	U	50.5	75-125	1.62	20	QM-1, U
Nickel	578.00	17	"	26.553	652.72	-281	75-125	0.509	20	XM-1
Potassium	3144.3	1700	"	331.92	2801.0	103	75-125	4.60	20	
Silver	26.832	8.3	"	3.3192	26.796	1.11	75-125	7.85	20	QM-1
Sodium	29164	1700	"	331.92	28186	295	75-125	4.46	20	XM-1
Strontium	42.909	8.3	"	13.277	35.809	53.5	75-125	0.0660	20	QM-1
Tin	1363.1	25	"	33.192	1763.4	-1210	75-125	6.92	20	XM-1
Titanium	28.299	8.3	"	16.596	16.284	72.4	75-125	11.3	20	QM-1
Vanadium	19.538	8.3	"	13.277	5.9837	102	75-125	5.62	20	
Yttrium	10.412	5.0	"	9.9575	U	105	75-125	13.9	20	

Matrix Spike Dup (2104013-MSD2)

Source: E211303-12

Prepared: 04/06/21 Analyzed: 04/14/21

EPA 6010

Aluminum	135.06	5.6	mg/kg	139.83	U	96.6	75-125	19.0	20	
Barium	14.694	0.28	"	13.983	0.23094	103	75-125	18.0	20	
Beryllium	6.0576	0.17	"	5.5932	U	108	75-125	14.0	20	
Calcium	1418.6	14	"	139.83	1244.6	124	75-125	1.55	20	
Chromium	35.635	0.28	"	13.983	20.578	108	75-125	4.44	20	
Cobalt	21.867	0.28	"	13.983	7.6731	102	75-125	14.4	20	
Copper	19.527	0.56	"	8.3897	11.713	93.1	75-125	9.72	20	
Iron	147.77	5.6	"	139.83	2.5261	104	75-125	17.6	20	
Magnesium	139.97	14	"	139.83	U	100	75-125	19.0	20	
Manganese	145.07	0.28	"	139.83	U	104	75-125	16.8	20	
Molybdenum	8.2531	0.56	"	8.3897	0.44578	93.1	75-125	13.8	20	



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 21-0164

Project: 21-0164, Techtrix, Inc. - Reported by Floyd Wellborn

Total Metals (TMTL) - Quality Control

US-EPA, Region 4, LSASD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2104013 - M 200.2 Metals Waste

Matrix Spike Dup (2104013-MSD2)

Source: E211303-12

Prepared: 04/06/21 Analyzed: 04/14/21

Nickel	23.910	0.56	mg/kg	22.373	0.12259	106	75-125	15.1	20	
Potassium	1138.4	56	"	279.66	865.75	97.5	75-125	6.61	20	
Silver	8.0400	0.28	"	2.7966	4.8425	114	75-125	3.82	20	
Sodium	3236.9	56	"	279.66	3046.3	68.2	75-125	4.21	20	XM-1
Strontium	12.485	0.28	"	11.186	1.8067	95.5	75-125	16.6	20	
Tin	23.824	0.84	"	27.966	1.3199	80.5	75-125	15.7	20	
Titanium	13.700	0.28	"	13.983	U	98.0	75-125	18.3	20	
Vanadium	11.483	0.28	"	11.186	U	103	75-125	14.1	20	
Yttrium	8.7306	0.17	"	8.3897	U	104	75-125	14.4	20	
Zinc	34.404	0.56	"	27.966	2.8490	113	75-125	11.9	20	

Matrix Spike Dup (2104013-MSD3)

Source: E211303-04RE1

Prepared: 04/06/21 Analyzed: 04/15/21

EPA 6010

Zinc	25329	33	mg/kg	33.192	21509	11500	75-125	12.2	20	XM-1
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MRL Verification (2104013-PS1)

Prepared: 04/06/21 Analyzed: 04/14/21

EPA 6010

Aluminum	5.1073	5.0	mg/kg	5.0000		102	70-130			MRL-6
Barium	0.25190	0.25	"	0.25000		101	70-130			MRL-6
Beryllium	0.15027	0.15	"	0.15000		100	70-130			MRL-6
Calcium	12.206	12	"	12.500		97.6	70-130			MRL-6, U
Chromium	0.39343	0.25	"	0.25000		157	70-130			MRL-6, QR-2
Cobalt	0.28000	0.25	"	0.25000		112	70-130			MRL-6
Copper	0.74959	0.50	"	0.50000		150	70-130			MRL-6, QR-2
Iron	4.9707	5.0	"	5.0000		99.4	70-130			MRL-6, U
Magnesium	12.176	12	"	12.500		97.4	70-130			MRL-6, U
Manganese	0.27069	0.25	"	0.25000		108	70-130			MRL-6
Molybdenum	0.49835	0.50	"	0.50000		99.7	70-130			MRL-6, U
Nickel	0.51507	0.50	"	0.50000		103	70-130			MRL-6
Potassium	48.403	50	"	50.000		96.8	70-130			MRL-6, U
Silver	0.27098	0.25	"	0.25000		108	70-130			MRL-6
Sodium	49.252	50	"	50.000		98.5	70-130			MRL-6, U
Strontium	0.24792	0.25	"	0.25000		99.2	70-130			MRL-6, U
Tin	0.75225	0.75	"	0.75000		100	70-130			MRL-6



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Total Metals (TMTL) - Quality Control

US-EPA, Region 4, LSASD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2104013 - M 200.2 Metals Waste

MRL Verification (2104013-PS1)

Prepared: 04/06/21 Analyzed: 04/14/21

Titanium	0.25153	0.25	mg/kg	0.25000		101	70-130			MRL-6
Vanadium	0.25338	0.25	"	0.25000		101	70-130			MRL-6
Yttrium	0.16399	0.15	"	0.15000		109	70-130			MRL-6
Zinc	0.86565	0.50	"	0.50000		173	70-130			MRL-6, QR-2

MRL Verification (2104013-PS2)

Prepared: 04/06/21 Analyzed: 04/15/21

EPA 6010

Chromium	0.36604	0.25	mg/kg	0.25000		146	70-130			MRL-6, QR-2
Sodium	54.969	50	"	50.000		110	70-130			MRL-6
Zinc	0.83491	0.50	"	0.50000		167	70-130			MRL-6, QR-2

MRL Verification (2104013-PS3)

Prepared: 04/06/21 Analyzed: 04/18/21

EPA 6010

Sodium	49.876	50	mg/kg	50.000		99.8	70-130			MRL-6, U
Zinc	0.90388	0.50	"	0.50000		181	70-130			MRL-6, QR-2

Batch 2104014 - M 200.2 Metals Waste

Blank (2104014-BLK1)

Prepared: 04/06/21 Analyzed: 04/20/21

EPA 200.8

Antimony	U	0.025	mg/kg							U
Arsenic	U	0.025	"							U
Cadmium	0.088664	0.012	"							B-4
Lead	U	0.025	"							U
Selenium	U	0.050	"							U
Thallium	U	0.025	"							U

LCS (2104014-BS1)

Prepared: 04/06/21 Analyzed: 04/20/21

EPA 200.8

Antimony	43.173	0.10	mg/kg	50.000		86.3	85-115
Arsenic	27.485	0.10	"	25.000		110	85-115
Cadmium	10.183	0.050	"	10.000		102	85-115
Lead	50.478	0.10	"	50.000		101	85-115
Selenium	55.407	0.20	"	50.000		111	85-115
Thallium	9.9443	0.10	"	10.000		99.4	85-115



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D.A.R.T. Id: 21-0164

Project: 21-0164, Techtrix, Inc. - Reported by Floyd Wellborn

Total Metals (TMTL) - Quality Control

US-EPA, Region 4, LSASD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2104014 - M 200.2 Metals Waste

LCS (2104014-BS2)

Prepared: 04/06/21 Analyzed: 04/20/21

EPA 200.8

Antimony	44.129	0.50	mg/kg	50.000		88.3	85-115
Arsenic	26.721	0.50	"	25.000		107	85-115
Cadmium	10.075	0.25	"	10.000		101	85-115
Lead	50.733	0.50	"	50.000		101	85-115
Selenium	50.581	1.0	"	50.000		101	85-115
Thallium	9.9405	0.50	"	10.000		99.4	85-115

Matrix Spike (2104014-MS1)

Source: E211303-04

Prepared: 04/06/21 Analyzed: 04/20/21

EPA 200.8

Antimony	46.433	0.77	mg/kg	30.764	30.568	51.6	70-130	QM-1
Arsenic	10.368	0.77	"	15.382	1.0459	60.6	70-130	QM-1
Selenium	17.864	1.5	"	30.764	U	58.1	70-130	QM-1
Thallium	5.7392	0.77	"	6.1527	U	93.3	70-130	

Matrix Spike (2104014-MS2)

Source: E211303-12

Prepared: 04/06/21 Analyzed: 04/21/21

EPA 200.8

Antimony	30.058	0.066	mg/kg	32.929	U	91.3	70-130
Arsenic	17.814	0.066	"	16.465	U	108	70-130
Cadmium	6.6881	0.033	"	6.5859	U	102	70-130
Lead	35.075	0.066	"	32.929	1.5120	102	70-130
Selenium	34.407	0.13	"	32.929	U	104	70-130
Thallium	6.7393	0.066	"	6.5859	U	102	70-130

Matrix Spike (2104014-MS3)

Source: E211303-04

Prepared: 04/06/21 Analyzed: 04/20/21

EPA 200.8

Lead	883.46	7.7	mg/kg	30.764	786.00	317	70-130	XM-1
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Matrix Spike (2104014-MS4)

Source: E211303-12

Prepared: 04/06/21 Analyzed: 04/21/21

EPA 200.8

Antimony	29.132	0.33	mg/kg	32.929	U	88.5	70-130
Arsenic	16.857	0.33	"	16.465	U	102	70-130
Cadmium	6.6382	0.16	"	6.5859	U	101	70-130
Lead	36.338	0.33	"	32.929	1.5120	106	70-130
Selenium	34.789	0.66	"	32.929	U	106	70-130
Thallium	6.8110	0.33	"	6.5859	U	103	70-130



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Project: 21-0164, Techtrix, Inc. - Reported by Floyd Wellborn

Total Metals (TMTL) - Quality Control

US-EPA, Region 4, LSASD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2104014 - M 200.2 Metals Waste

Matrix Spike (2104014-MS5)

Source: E211303-04

Prepared: 04/06/21 Analyzed: 04/20/21

EPA 200.8

Cadmium	9287.9	38	mg/kg	6.1527	5907.7	54900	70-130			XM-1
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Matrix Spike Dup (2104014-MSD1)

Source: E211303-04

Prepared: 04/06/21 Analyzed: 04/20/21

EPA 200.8

Antimony	43.634	0.83	mg/kg	33.192	30.568	39.4	70-130	6.21	20	QM-1
Arsenic	12.270	0.83	"	16.596	1.0459	67.6	70-130	16.8	20	QM-1
Selenium	19.089	1.7	"	33.192	U	57.5	70-130	6.63	20	QM-1
Thallium	6.0846	0.83	"	6.6383	U	91.7	70-130	5.84	20	

Matrix Spike Dup (2104014-MSD2)

Source: E211303-12

Prepared: 04/06/21 Analyzed: 04/21/21

EPA 200.8

Antimony	25.279	0.056	mg/kg	27.966	U	90.4	70-130	17.3	20	
Arsenic	14.607	0.056	"	13.983	U	104	70-130	19.8	20	
Cadmium	5.6554	0.028	"	5.5932	U	101	70-130	16.7	20	
Lead	30.080	0.056	"	27.966	1.5120	102	70-130	15.3	20	
Selenium	29.456	0.11	"	27.966	U	105	70-130	15.5	20	
Thallium	5.6833	0.056	"	5.5932	U	102	70-130	17.0	20	

Matrix Spike Dup (2104014-MSD3)

Source: E211303-04

Prepared: 04/06/21 Analyzed: 04/20/21

EPA 200.8

Lead	725.60	8.3	mg/kg	33.192	786.00	-182	70-130	19.6	20	XM-1
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Matrix Spike Dup (2104014-MSD4)

Source: E211303-12

Prepared: 04/06/21 Analyzed: 04/21/21

EPA 200.8

Antimony	25.262	0.28	mg/kg	27.966	U	90.3	70-130	14.2	20	
Arsenic	14.871	0.28	"	13.983	U	106	70-130	12.5	20	
Cadmium	5.9864	0.14	"	5.5932	U	107	70-130	10.3	20	
Lead	30.876	0.28	"	27.966	1.5120	105	70-130	16.3	20	
Selenium	28.786	0.56	"	27.966	U	103	70-130	18.9	20	
Thallium	5.8632	0.28	"	5.5932	U	105	70-130	15.0	20	

Matrix Spike Dup (2104014-MSD5)

Source: E211303-04

Prepared: 04/06/21 Analyzed: 04/20/21

EPA 200.8

Cadmium	5580.4	41	mg/kg	6.6383	5907.7	-4930	70-130	49.9	20	QM-3, XM-1
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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Laboratory Services and Applied Science Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 21-0164

Project: 21-0164, Techtrix, Inc. - Reported by Floyd Wellborn

Total Metals (TMTL) - Quality Control

US-EPA, Region 4, LSASD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2104014 - M 200.2 Metals Waste

MRL Verification (2104014-PS1)

Prepared: 04/06/21 Analyzed: 04/20/21

EPA 200.8

Antimony	0.026202	0.025	mg/kg	0.025000		105	65-135			MRL-6
Arsenic	0.071519	0.025	"	0.050000		143	65-135			MRL-6, QR-2
Cadmium	0.11191	0.012	"	0.025000		448	65-135			MRL-6, QR-2
Lead	0.052870	0.025	"	0.050000		106	65-135			MRL-6
Selenium	0.14286	0.050	"	0.10000		143	65-135			MRL-6, QR-2
Thallium	0.023128	0.025	"	0.025000		92.5	65-135			MRL-6, U

MRL Verification (2104014-PS2)

Prepared: 04/06/21 Analyzed: 04/21/21

EPA 200.8

Antimony	0.025021	0.025	mg/kg	0.025000		100	65-135			MRL-6
Arsenic	0.057732	0.025	"	0.050000		115	65-135			MRL-6
Cadmium	0.10767	0.012	"	0.025000		431	65-135			MRL-6, QR-2
Lead	0.043190	0.025	"	0.050000		86.4	65-135			MRL-6
Selenium	0.12399	0.050	"	0.10000		124	65-135			MRL-6
Thallium	0.024111	0.025	"	0.025000		96.4	65-135			MRL-6, U



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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TCLP Metals (TCLPM) - Quality Control

US-EPA, Region 4, LSASD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2105005 - M 200.2 TCLP

Blank (2105005-BLK1)

Prepared: 05/03/21 Analyzed: 05/05/21

EPA 6010

Barium	U	0.0050	mg/L							U
Beryllium	U	0.0030	"							U
Cadmium	0.00846	0.0050	"							B-3
Chromium	U	0.0050	"							U
Nickel	U	0.010	"							U
Silver	U	0.0050	"							U
Vanadium	U	0.0050	"							U
Zinc	U	0.010	"							U

Blank (2105005-BLK2)

Prepared: 05/03/21 Analyzed: 05/05/21

EPA 6010

Barium	0.0303	0.020	mg/L							B-3
Beryllium	U	0.012	"							U
Cadmium	0.0261	0.020	"							B-3
Chromium	U	0.020	"							U
Nickel	U	0.040	"							U
Silver	U	0.020	"							U
Vanadium	U	0.020	"							U
Zinc	U	0.040	"							U

Blank (2105005-BLK3)

Prepared: 05/03/21 Analyzed: 05/05/21

EPA 6010

Barium	0.0269	0.020	mg/L							B-3
Beryllium	U	0.012	"							U
Cadmium	U	0.020	"							B-3, U
Chromium	U	0.020	"							U
Nickel	U	0.040	"							U
Silver	U	0.020	"							U
Vanadium	U	0.020	"							U
Zinc	U	0.040	"							U



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Laboratory Services and Applied Science Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 21-0164

Project: 21-0164, Techtrix, Inc. - Reported by Floyd Wellborn

TCLP Metals (TCLPM) - Quality Control

US-EPA, Region 4, LSASD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2105005 - M 200.2 TCLP

Blank (2105005-BLK4)

Prepared: 05/03/21 Analyzed: 05/06/21

EPA 6010

Barium	U	0.0050	mg/L							U
Beryllium	U	0.0030	"							U
Cadmium	0.00984	0.0050	"							B-3
Chromium	U	0.0050	"							U
Nickel	U	0.010	"							U
Silver	U	0.0050	"							U
Vanadium	U	0.0050	"							U
Zinc	U	0.010	"							U

Blank (2105005-BLK5)

Prepared: 05/03/21 Analyzed: 05/06/21

EPA 6010

Barium	0.00542	0.0050	mg/L							B-3
Beryllium	U	0.0030	"							U
Cadmium	0.00718	0.0050	"							B-3
Chromium	U	0.0050	"							U
Nickel	U	0.010	"							U
Silver	U	0.0050	"							U
Vanadium	U	0.0050	"							U
Zinc	U	0.010	"							U

Blank (2105005-BLK6)

Prepared: 05/03/21 Analyzed: 05/06/21

EPA 6010

Barium	0.00586	0.0050	mg/L							B-3
Beryllium	U	0.0030	"							U
Cadmium	0.00529	0.0050	"							B-3
Chromium	U	0.0050	"							U
Nickel	U	0.010	"							U
Silver	U	0.0050	"							U
Vanadium	U	0.0050	"							U
Zinc	U	0.010	"							U



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TCLP Metals (TCLPM) - Quality Control

US-EPA, Region 4, LSASD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2105005 - M 200.2 TCLP

LCS (2105005-BS1)

Prepared: 05/03/21 Analyzed: 05/05/21

EPA 6010

Barium	4.76	0.015	mg/L	5.0000		95.3	85-115			
Beryllium	0.957	0.0090	"	1.0000		95.7	85-115			
Cadmium	0.925	0.015	"	1.0000		92.5	85-115			
Chromium	4.62	0.015	"	5.0000		92.4	85-115			
Nickel	0.963	0.030	"	1.0000		96.3	85-115			
Silver	0.103	0.015	"	0.10000		103	85-115			
Vanadium	0.932	0.015	"	1.0000		93.2	85-115			
Zinc	1.63	0.030	"	1.0000		163	85-115			QL-2

LCS (2105005-BS2)

Prepared: 05/03/21 Analyzed: 05/06/21

EPA 6010

Barium	4.64	0.015	mg/L	5.0000		92.7	85-115			
Beryllium	0.976	0.0090	"	1.0000		97.6	85-115			
Cadmium	0.957	0.015	"	1.0000		95.7	85-115			
Chromium	4.80	0.015	"	5.0000		95.9	85-115			
Nickel	0.994	0.030	"	1.0000		99.4	85-115			
Silver	0.106	0.015	"	0.10000		106	85-115			
Vanadium	0.958	0.015	"	1.0000		95.8	85-115			
Zinc	1.70	0.030	"	1.0000		170	85-115			QL-2

Matrix Spike (2105005-MS1)

Source: E211303-04

Prepared: 05/03/21 Analyzed: 05/05/21

EPA 6010

Barium	18.8	0.30	mg/L	20.000	0.0669	93.8	75-125			
Beryllium	3.81	0.18	"	4.0000	U	95.1	75-125			
Cadmium	120	0.30	"	4.0000	115	119	75-125			XM-1
Chromium	30.1	0.30	"	20.000	12.6	87.2	75-125			
Nickel	9.61	0.60	"	4.0000	5.84	94.3	75-125			
Silver	1.15	0.30	"	0.40000	0.735	104	75-125			
Vanadium	3.86	0.30	"	4.0000	0.0147	96.2	75-125			
Zinc	248	0.60	"	4.0000	243	142	75-125			XM-1



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TCLP Metals (TCLPM) - Quality Control

US-EPA, Region 4, LSASD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2105005 - M 200.2 TCLP

Matrix Spike (2105005-MS2)

Source: E211303-14

Prepared: 05/03/21 Analyzed: 05/05/21

EPA 6010

Barium	18.5	0.50	mg/L	20.000	0.0954	92.1	75-125			
Beryllium	3.89	0.30	"	4.0000	U	97.3	75-125			
Cadmium	23.5	0.50	"	4.0000	18.4	127	75-125			QM-2
Chromium	42.9	0.50	"	20.000	23.9	94.9	75-125			
Nickel	5.75	1.0	"	4.0000	1.79	98.8	75-125			
Silver	0.419	0.50	"	0.40000	U	105	75-125			U
Vanadium	4.04	0.50	"	4.0000	0.0431	100	75-125			
Zinc	741	1.0	"	4.0000	688	1300	75-125			XM-1

Matrix Spike Dup (2105005-MSD1)

Source: E211303-04

Prepared: 05/03/21 Analyzed: 05/05/21

EPA 6010

Barium	18.5	0.30	mg/L	20.000	0.0669	92.2	75-125	1.73	25	
Beryllium	3.76	0.18	"	4.0000	U	93.9	75-125	1.28	25	
Cadmium	118	0.30	"	4.0000	115	73.5	75-125	1.54	25	XM-1
Chromium	29.6	0.30	"	20.000	12.6	85.0	75-125	1.43	25	
Nickel	9.47	0.60	"	4.0000	5.84	90.9	75-125	1.41	25	
Silver	1.13	0.30	"	0.40000	0.735	99.7	75-125	1.57	25	
Vanadium	3.83	0.30	"	4.0000	0.0147	95.5	75-125	0.700	25	
Zinc	244	0.60	"	4.0000	243	37.3	75-125	1.70	25	XM-1

Matrix Spike Dup (2105005-MSD2)

Source: E211303-14

Prepared: 05/03/21 Analyzed: 05/05/21

EPA 6010

Barium	18.0	0.50	mg/L	20.000	0.0954	89.6	75-125	2.78	25	
Beryllium	3.67	0.30	"	4.0000	U	91.7	75-125	5.95	25	
Cadmium	22.0	0.50	"	4.0000	18.4	89.9	75-125	6.51	25	
Chromium	39.8	0.50	"	20.000	23.9	79.4	75-125	7.52	25	
Nickel	5.48	1.0	"	4.0000	1.79	92.1	75-125	4.78	25	
Silver	0.408	0.50	"	0.40000	U	102	75-125	2.64	25	U
Vanadium	3.81	0.50	"	4.0000	0.0431	94.2	75-125	5.89	25	
Zinc	682	1.0	"	4.0000	688	-151	75-125	8.17	25	XM-1



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TCLP Metals (TCLPM) - Quality Control

US-EPA, Region 4, LSASD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2105005 - M 200.2 TCLP

MRL Verification (2105005-PS1)

Prepared: 05/03/21 Analyzed: 05/05/21

EPA 6010

Barium	0.00474	0.0050	mg/L	0.0050000		94.8	70-130			MRL-6, U
Beryllium	0.00274	0.0030	"	0.0030000		91.3	70-130			MRL-6, U
Cadmium	0.00852	0.0050	"	0.0050000		170	70-130			MRL-6, QR-2
Chromium	0.00501	0.0050	"	0.0050000		100	70-130			MRL-6
Nickel	0.00959	0.010	"	0.010000		95.9	70-130			MRL-6, U
Silver	0.00546	0.0050	"	0.0050000		109	70-130			MRL-6
Vanadium	0.00533	0.0050	"	0.0050000		107	70-130			MRL-6
Zinc	0.00988	0.010	"	0.010000		98.8	70-130			MRL-6, U

MRL Verification (2105005-PS2)

Prepared: 05/03/21 Analyzed: 05/06/21

EPA 6010

Barium	0.00488	0.0050	mg/L	0.0050000		97.5	70-130			MRL-6, U
Beryllium	0.00279	0.0030	"	0.0030000		93.1	70-130			MRL-6, U
Cadmium	0.00898	0.0050	"	0.0050000		180	70-130			MRL-6, QR-2
Chromium	0.00561	0.0050	"	0.0050000		112	70-130			MRL-6
Nickel	0.0111	0.010	"	0.010000		111	70-130			MRL-6
Silver	0.00529	0.0050	"	0.0050000		106	70-130			MRL-6
Vanadium	0.00509	0.0050	"	0.0050000		102	70-130			MRL-6
Zinc	0.00984	0.010	"	0.010000		98.4	70-130			MRL-6, U

Batch 2105006 - M 200.2 TCLP

Blank (2105006-BLK1)

Prepared: 05/03/21 Analyzed: 05/06/21

EPA 600.8

Antimony	U	0.0010	mg/L							U
Arsenic	U	0.0010	"							U
Lead	U	0.0010	"							U
Selenium	U	0.0020	"							U
Thallium	U	0.0010	"							B-3, U



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TCLP Metals (TCLPM) - Quality Control

US-EPA, Region 4, LSASD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2105006 - M 200.2 TCLP

Blank (2105006-BLK2)

Prepared: 05/03/21 Analyzed: 05/06/21

EPA 200.8

Antimony	U	0.0040	mg/L							U
Arsenic	U	0.0040	"							U
Lead	U	0.0040	"							U
Selenium	U	0.0080	"							B-3, U
Thallium	U	0.0040	"							U

Blank (2105006-BLK3)

Prepared: 05/03/21 Analyzed: 05/06/21

EPA 200.8

Antimony	U	0.0040	mg/L							U
Arsenic	U	0.0040	"							U
Lead	U	0.0040	"							U
Selenium	U	0.0080	"							U
Thallium	U	0.0040	"							U

LCS (2105006-BS1)

Prepared: 05/03/21 Analyzed: 05/06/21

EPA 200.8

Antimony	1.01	0.050	mg/L	1.0000		101	85-115
Arsenic	5.00	0.050	"	5.0000		99.9	85-115
Lead	5.07	0.050	"	5.0000		101	85-115
Selenium	0.939	0.10	"	1.0000		93.9	85-115
Thallium	0.189	0.050	"	0.20000		94.5	85-115

Matrix Spike (2105006-MS1)

Source: E211303-04

Prepared: 05/03/21 Analyzed: 05/06/21

EPA 200.8

Antimony	4.16	0.20	mg/L	4.0000	0.0337	103	70-130
Arsenic	20.1	0.20	"	20.000	U	100	70-130
Lead	21.1	0.20	"	20.000	0.0948	105	70-130
Selenium	4.07	0.40	"	4.0000	0.200	96.7	70-130
Thallium	0.818	0.20	"	0.80000	0.0316	98.3	70-130

Matrix Spike (2105006-MS2)

Source: E211303-14

Prepared: 05/03/21 Analyzed: 05/06/21

EPA 200.8

Antimony	4.10	0.20	mg/L	4.0000	0.0338	102	70-130
Arsenic	19.6	0.20	"	20.000	0.0658	97.6	70-130
Lead	23.0	0.20	"	20.000	1.99	105	70-130
Selenium	4.77	0.40	"	4.0000	0.483	107	70-130
Thallium	0.810	0.20	"	0.80000	0.0654	93.1	70-130



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TCLP Metals (TCLPM) - Quality Control

US-EPA, Region 4, LSASD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2105006 - M 200.2 TCLP

Matrix Spike Dup (2105006-MSD1)

Source: E211303-04

Prepared: 05/03/21 Analyzed: 05/06/21

EPA 200.8

Antimony	3.98	0.20	mg/L	4.0000	0.0337	98.6	70-130	4.45	20	
Arsenic	20.3	0.20	"	20.000	U	102	70-130	1.32	20	
Lead	20.8	0.20	"	20.000	0.0948	103	70-130	1.43	20	
Selenium	4.01	0.40	"	4.0000	0.200	95.3	70-130	1.37	20	
Thallium	0.803	0.20	"	0.80000	0.0316	96.4	70-130	1.90	20	

Matrix Spike Dup (2105006-MSD2)

Source: E211303-14

Prepared: 05/03/21 Analyzed: 05/06/21

EPA 200.8

Antimony	3.93	0.20	mg/L	4.0000	0.0338	97.5	70-130	4.19	20	
Arsenic	19.2	0.20	"	20.000	0.0658	95.9	70-130	1.78	20	
Lead	21.7	0.20	"	20.000	1.99	98.3	70-130	6.24	20	
Selenium	4.15	0.40	"	4.0000	0.483	91.6	70-130	13.9	20	
Thallium	0.782	0.20	"	0.80000	0.0654	89.6	70-130	3.45	20	

MRL Verification (2105006-PS1)

Prepared: 05/03/21 Analyzed: 05/06/21

EPA 200.8

Antimony	0.000551	0.0010	mg/L	0.00050000		110	65-135			MRL-9, U
Arsenic	0.00117	0.0010	"	0.0010000		117	65-135			MRL-9
Lead	0.000781	0.0010	"	0.0010000		78.1	65-135			MRL-9, U
Selenium	0.00362	0.0020	"	0.0020000		181	65-135			MRL-9, QR-2
Thallium	0.000561	0.0010	"	0.00050000		112	65-135			MRL-9, U



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Notes and Definitions for QC Samples

U	The analyte was not detected at or above the reporting limit.
B-3	Level in blank does not impact data quality
B-4	Level in blank impacts MRLs.
MRL-3	MRL verification for Soil matrix
MRL-6	MRL verification for Waste matrix
MRL-9	MRL verification for TCLP matrix
QC-4	Result greater than the highest point on the calibration curve
QL-1	Laboratory Control Spike Recovery less than method control limits
QL-2	Laboratory Control Spike Recovery greater than method control limits
QM-1	Matrix Spike Recovery less than method control limits
QM-2	Matrix Spike Recovery greater than method control limits
QM-3	Matrix Spike Precision outside method control limits
QR-2	MRL verification recovery greater than upper control limits.
XM-1	Sample background/spike ratio higher than method evaluation criteria



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May 13, 2021

MEMORANDUM

SUBJECT: FINAL Analytical Report
Project: 21-0164, Techtrix, Inc.

FROM: Floyd Wellborn
LSB Inorganic Chemistry Section Chief

THRU: Sandra Aker, Chief
Laboratory Services Branch

TO: Paula Whiting

Attached are the final results for the analytical groups listed below. This report shall not be reproduced except in full without approval of the Region 4 laboratory. These analyses were performed in accordance with the Laboratory Services Branch's Laboratory Operations and Quality Assurance Manual (LSB LOQAM) found at www.epa.gov/region4/sesd/asbsop. Any unique project data quality objectives specified in writing by the data requestor have also been incorporated into the data unless otherwise noted in the Report Narrative. Chemistry data have been verified based on the LSB LOQAM specifications and have been qualified by this laboratory if the applicable quality control criteria were not met. Verification is defined in Chapter 5 of the LSB LOQAM. For a listing of specific data qualifiers and explanations, please refer to the Data Qualifier Definitions included in this report. The reported results are accurate within the limits of the method(s) and are representative only of the samples as received by the laboratory.

Analyses Included in this report:

Method Used:

Accreditations:

Classical/Nutrient Analyses (CNA)

Classical/Nutrients

EPA 9040 (Waste)

ISO



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Sample Disposal Policy

Due to limited space for long term sample storage, LSB's policy is to dispose of samples on a periodic schedule. Air samples collected in summa canisters will be disposed of 30 days following the issuance of this report. All other sample media including original samples, sample extracts and or digestates will be disposed of, in accordance with applicable regulations, 60 days from the date of this report.

This sample disposal policy does not apply to criminal samples which are held until the laboratory is notified by the criminal investigators that case development and litigation are complete.

These samples may be held in the laboratory's custody for a longer period of time. If samples require storage beyond the 60-day period, please contact the Sample Control Coordinator by e-mail at R4SampleCustody@epa.gov.



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SAMPLES INCLUDED IN THIS REPORT

Project: 21-0164, Techtrix, Inc.

Sample ID	Laboratory ID	Matrix	Date Collected	Date Received
BBT	E211303-01	Waste	3/23/21 14:44	3/24/21 11:50
ET01	E211303-03	Waste	3/23/21 14:16	3/24/21 11:50
T06	E211303-06	Waste	3/23/21 13:25	3/24/21 11:50
T07	E211303-07	Waste	3/23/21 13:37	3/24/21 11:50
T13	E211303-08	Waste	3/23/21 13:44	3/24/21 11:50
T16	E211303-09	Waste	3/23/21 13:52	3/24/21 11:50
T17	E211303-10	Waste	3/23/21 13:58	3/24/21 11:50
T20	E211303-11	Waste	3/23/21 14:01	3/24/21 11:50
T21	E211303-12	Waste	3/23/21 14:04	3/24/21 11:50
TK02	E211303-13	Waste	3/23/21 15:07	3/24/21 11:50
TK08	E211303-14	Waste	3/23/21 14:30	3/24/21 11:50
TK09	E211303-15	Waste	3/23/21 14:25	3/24/21 11:50



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DATA QUALIFIER DEFINITIONS

H-5 ASB-defined holding time exceeded.
pH-1 pH is equal to or less than reported result.

ACRONYMS AND ABBREVIATIONS

CAS Chemical Abstracts Service

Note: Analytes with no known CAS identifiers have been assigned codes beginning with "E", the EPA ID as assigned by the EPA Substance Registry System (www.epa.gov/srs), or beginning with "R4-", a unique identifier assigned by the EPA Region 4 laboratory.

MDL Method Detection Limit - The minimum concentration of a substance (an analyte) that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero.

MRL Minimum Reporting Limit - Analyte concentration that corresponds to the lowest demonstrated level of acceptable quantitation. The MRL is sample-specific and accounts for preparation weights and volumes, dilutions, and moisture content of soil/sediments.

TIC Tentatively Identified Compound - An analyte identified based on a match with the instrument software's mass spectral library. A calibration standard has not been analyzed to confirm the compound's identification or the estimated concentration reported.

ACCREDITATIONS:

ISO Accredited to ISO/IEC 17025:2017 and accreditation requirements for Forensic Science Testing Laboratories.

Refer to the certificate and scope of accreditation FT-0330 at:
<http://www.epa.gov/aboutepa/about-region-4s-science-and-ecosystem-support-division-sesd>

NR Not accredited for this test.

DW Accredited for conformance with ISO/IEC 17025:2017 and testing elements in the Fifth Edition of the Manual for the Certification of Laboratories Analyzing Drinking Water, EPA 815-R-05-004, 2005.

Refer to the certificate and scope of accreditation AT-2628 at:
<http://www.epa.gov/aboutepa/about-region-4s-science-and-ecosystem-support-division-sesd>

ISO/DW Accredited to ISO/IEC 17025:2017 and accreditation requirements for Forensic Science Testing Labs, and conformance with ISO/IEC 17025:2017 and testing elements in the Manual for the Certification of Laboratories Analyzing Drinking Water.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Laboratory Services and Applied Science Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 21-0164

Project: 21-0164, Techtrix, Inc. - Reported by Floyd Wellborn

Classical/Nutrient Analyses

Project: 21-0164, Techtrix, Inc.

Sample ID: BBT

Lab ID: E211303-01

Station ID: BBT

Matrix: Waste

Date Collected: 3/23/21 14:44

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
E17028275	pH	9.90	H-5	pH Units	1.00	4/27/21 11:29	4/27/21 15:08	EPA 9040
R4-1511	pH Temperature	20.5	H-5	Deg C		4/27/21 11:29	4/27/21 15:08	EPA 9040



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D.A.R.T. Id: 21-0164

Project: 21-0164, Techtrix, Inc. - Reported by Floyd Wellborn

Classical/Nutrient Analyses

Project: 21-0164, Techtrix, Inc.

Sample ID: ET01

Lab ID: E211303-03

Station ID: ET01

Matrix: Waste

Date Collected: 3/23/21 14:16

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
E17028275	pH	11.40	H-5	pH Units	1.00	4/27/21 12:00	4/27/21 16:28	EPA 9040
R4-1511	pH Temperature	21.1	H-5	Deg C		4/27/21 12:00	4/27/21 16:28	EPA 9040



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 4 Laboratory Services and Applied Science Division

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D.A.R.T. Id: 21-0164

Project: 21-0164, Techtrix, Inc. - Reported by Floyd Wellborn

Classical/Nutrient Analyses

Project: 21-0164, Techtrix, Inc.

Sample ID: T06

Lab ID: E211303-06

Station ID: T06

Matrix: Waste

Date Collected: 3/23/21 13:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E17028275	pH	12.12	H-5	pH Units	1.00	4/28/21 12:00	4/28/21 18:15	EPA 9040
R4-1511	pH Temperature	25.2	H-5	Deg C		4/28/21 12:00	4/28/21 18:15	EPA 9040



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980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 21-0164

Project: 21-0164, Techtrix, Inc. - Reported by Floyd Wellborn

Classical/Nutrient Analyses

Project: 21-0164, Techtrix, Inc.

Sample ID: T07

Lab ID: E211303-07

Station ID: T07

Matrix: Waste

Date Collected: 3/23/21 13:37

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
E17028275	pH	1.00	H-5, pH-1	pH Units	1.00	4/28/21 12:00	4/28/21 13:37	EPA 9040
R4-1511	pH Temperature	24.4	H-5	Deg C		4/28/21 12:00	4/28/21 13:37	EPA 9040



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D.A.R.T. Id: 21-0164

Project: 21-0164, Techtrix, Inc. - Reported by Floyd Wellborn

Classical/Nutrient Analyses

Project: 21-0164, Techtrix, Inc.

Sample ID: T13

Lab ID: E211303-08

Station ID: T13

Matrix: Waste

Date Collected: 3/23/21 13:44

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
E17028275	pH	12.24	H-5	pH Units	1.00	4/28/21 12:00	4/28/21 18:24	EPA 9040
R4-1511	pH Temperature	25.8	H-5	Deg C		4/28/21 12:00	4/28/21 18:24	EPA 9040



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Project: 21-0164, Techtrix, Inc. - Reported by Floyd Wellborn

Classical/Nutrient Analyses

Project: 21-0164, Techtrix, Inc.

Sample ID: T16

Lab ID: E211303-09

Station ID: T16

Matrix: Waste

Date Collected: 3/23/21 13:52

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
E17028275	pH	12.71	H-5	pH Units	1.00	4/28/21 12:00	4/28/21 18:28	EPA 9040
R4-1511	pH Temperature	25.6	H-5	Deg C		4/28/21 12:00	4/28/21 18:28	EPA 9040



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Project: 21-0164, Techtrix, Inc. - Reported by Floyd Wellborn

Classical/Nutrient Analyses

Project: 21-0164, Techtrix, Inc.

Sample ID: T17

Lab ID: E211303-10

Station ID: T17

Matrix: Waste

Date Collected: 3/23/21 13:58

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
E17028275	pH	11.99	H-5	pH Units	1.00	4/28/21 12:00	4/28/21 18:33	EPA 9040
R4-1511	pH Temperature	25.6	H-5	Deg C		4/28/21 12:00	4/28/21 18:33	EPA 9040



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Project: 21-0164, Techtrix, Inc. - Reported by Floyd Wellborn

Classical/Nutrient Analyses

Project: 21-0164, Techtrix, Inc.

Sample ID: T20

Lab ID: E211303-11

Station ID: T20

Matrix: Waste

Date Collected: 3/23/21 14:01

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E17028275	pH	12.36	H-5	pH Units	1.00	4/29/21 10:00	4/29/21 10:32	EPA 9040
R4-1511	pH Temperature	25.1	H-5	Deg C		4/29/21 10:00	4/29/21 10:32	EPA 9040



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Project: 21-0164, Techtrix, Inc. - Reported by Floyd Wellborn

Classical/Nutrient Analyses

Project: 21-0164, Techtrix, Inc.

Sample ID: T21

Lab ID: E211303-12

Station ID: T21

Matrix: Waste

Date Collected: 3/23/21 14:04

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
E17028275	pH	12.00	H-5	pH Units	1.00	4/29/21 10:00	4/29/21 10:37	EPA 9040
R4-1511	pH Temperature	25.2	H-5	Deg C		4/29/21 10:00	4/29/21 10:37	EPA 9040



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D.A.R.T. Id: 21-0164

Project: 21-0164, Techtrix, Inc. - Reported by Floyd Wellborn

Classical/Nutrient Analyses

Project: 21-0164, Techtrix, Inc.

Sample ID: TK02

Lab ID: E211303-13

Station ID: TK02

Matrix: Waste

Date Collected: 3/23/21 15:07

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
E17028275	pH	12.95	H-5	pH Units	1.00	4/29/21 10:00	4/29/21 10:42	EPA 9040
R4-1511	pH Temperature	25.0	H-5	Deg C		4/29/21 10:00	4/29/21 10:42	EPA 9040



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D.A.R.T. Id: 21-0164

Project: 21-0164, Techtrix, Inc. - Reported by Floyd Wellborn

Classical/Nutrient Analyses

Project: 21-0164, Techtrix, Inc.

Sample ID: TK08

Lab ID: E211303-14

Station ID: TK08

Matrix: Waste

Date Collected: 3/23/21 14:30

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
E17028275	pH	10.87	H-5	pH Units	1.00	4/27/21 11:29	4/27/21 15:08	EPA 9040
R4-1511	pH Temperature	20.5	H-5	Deg C		4/27/21 11:29	4/27/21 15:28	EPA 9040



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Project: 21-0164, Techtrix, Inc. - Reported by Floyd Wellborn

Classical/Nutrient Analyses

Project: 21-0164, Techtrix, Inc.

Sample ID: TK09

Lab ID: E211303-15

Station ID: TK09

Matrix: Waste

Date Collected: 3/23/21 14:25

<i>CAS Number</i>	<i>Analyte</i>	<i>Results</i>	<i>Qualifiers</i>	<i>Units</i>	<i>MRL</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Method</i>
E17028275	pH	8.36	H-5	pH Units	1.00	4/27/21 11:29	4/27/21 15:08	EPA 9040
R4-1511	pH Temperature	20.8	H-5	Deg C		4/27/21 11:29	4/27/21 15:21	EPA 9040



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D.A.R.T. Id: 21-0164

Project: 21-0164, Techtrix, Inc. - Reported by Floyd Wellborn

Classical/Nutrient Analyses (CNA) - Quality Control

US-EPA, Region 4, LSASD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2104162 - C 9040 pH

Duplicate (2104162-DUP1)

Source: E211303-01RE1

Prepared & Analyzed: 04/27/21

EPA 9040

pH	9.920	1.00	pH Units		9.900			0.202	10	
pH Temperature	20.6		Deg C		20.5			0.487	10	

Duplicate (2104162-DUP2)

Source: E211303-14RE1

Prepared & Analyzed: 04/27/21

EPA 9040

pH	10.900	1.00	pH Units		10.870			0.276	10	
pH Temperature	20.3		Deg C		20.5			0.980	10	

Duplicate (2104162-DUP3)

Source: E211303-15RE2

Prepared & Analyzed: 04/27/21

EPA 9040

pH	8.380	1.00	pH Units		8.360			0.239	10	
pH Temperature	20.6		Deg C		20.8			0.966	10	

Reference (2104162-SRM1)

Prepared & Analyzed: 04/27/21

EPA 9040

pH	9.930	1.00	pH Units	11.000		90.3	90-110			
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Batch 2104171 - C 9040 pH

Duplicate (2104171-DUP1)

Source: E211303-03RE1

Prepared & Analyzed: 04/27/21

EPA 9040

pH	11.380	1.00	pH Units		11.400			0.176	10	
pH Temperature	21.0		Deg C		21.1			0.475	10	

Batch 2104172 - C 9040 pH

Duplicate (2104172-DUP1)

Source: E211303-07RE1

Prepared & Analyzed: 04/28/21

EPA 9040

pH	0.670	1.00	pH Units		0.680			1.48	10	
pH Temperature	25.0		Deg C		24.4			2.43	10	H-5



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Project: 21-0164, Techtrix, Inc. - Reported by Floyd Wellborn

Classical/Nutrient Analyses (CNA) - Quality Control

US-EPA, Region 4, LSASD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2104172 - C 9040 pH

Duplicate (2104172-DUP2)

Source: E211303-07RE1

Prepared & Analyzed: 04/28/21

EPA 9040

pH	0.670	1.00	pH Units		0.680			1.48	10	
pH Temperature	25.2		Deg C		24.4			3.23	10	H-5

Batch 2104174 - C 9040 pH

Duplicate (2104174-DUP1)

Source: E211303-06RE1

Prepared & Analyzed: 04/28/21

EPA 9040

pH	12.120	1.00	pH Units		12.120			0.00	10	
pH Temperature	25.9		Deg C		25.2			2.74	10	

Duplicate (2104174-DUP2)

Source: E211303-06RE1

Prepared & Analyzed: 04/28/21

EPA 9040

pH	12.080	1.00	pH Units		12.120			0.331	10	
pH Temperature	25.6		Deg C		25.2			1.57	10	

Duplicate (2104174-DUP3)

Source: E211303-08RE1

Prepared & Analyzed: 04/28/21

EPA 9040

pH	12.250	1.00	pH Units		12.240			0.0817	10	
pH Temperature	25.9		Deg C		25.8			0.387	10	

Duplicate (2104174-DUP4)

Source: E211303-08RE1

Prepared & Analyzed: 04/28/21

EPA 9040

pH	12.270	1.00	pH Units		12.240			0.245	10	
pH Temperature	26.0		Deg C		25.8			0.772	10	

Duplicate (2104174-DUP5)

Source: E211303-09RE1

Prepared & Analyzed: 04/28/21

EPA 9040

pH	12.700	1.00	pH Units		12.710			0.0787	10	
pH Temperature	25.8		Deg C		25.6			0.778	10	

Duplicate (2104174-DUP6)

Source: E211303-09RE1

Prepared & Analyzed: 04/28/21

EPA 9040

pH	12.700	1.00	pH Units		12.710			0.0787	10	
pH Temperature	25.9		Deg C		25.6			1.17	10	



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Classical/Nutrient Analyses (CNA) - Quality Control

US-EPA, Region 4, LSASD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2104174 - C 9040 pH

Duplicate (2104174-DUP7)

Source: E211303-10RE1

Prepared & Analyzed: 04/28/21

EPA 9040

pH	11.970	1.00	pH Units		11.990			0.167	10	
pH Temperature	25.7		Deg C		25.6			0.390	10	

Duplicate (2104174-DUP8)

Source: E211303-10RE1

Prepared & Analyzed: 04/28/21

EPA 9040

pH	11.950	1.00	pH Units		11.990			0.334	10	
pH Temperature	25.9		Deg C		25.6			1.17	10	

Batch 2105010 - C 9040 pH

Duplicate (2105010-DUP1)

Source: E211303-11

Prepared & Analyzed: 04/29/21

EPA 9040

pH	12.360	1.00	pH Units		12.360			0.00	10	
pH Temperature	25.3		Deg C		25.1			0.794	10	

Duplicate (2105010-DUP2)

Source: E211303-11

Prepared & Analyzed: 04/29/21

EPA 9040

pH	12.350	1.00	pH Units		12.360			0.0809	10	
pH Temperature	25.4		Deg C		25.1			1.19	10	

Duplicate (2105010-DUP3)

Source: E211303-12

Prepared & Analyzed: 04/29/21

EPA 9040

pH	12.010	1.00	pH Units		12.000			0.0833	10	
pH Temperature	25.5		Deg C		25.2			1.18	10	

Duplicate (2105010-DUP4)

Source: E211303-12

Prepared & Analyzed: 04/29/21

EPA 9040

pH	12.010	1.00	pH Units		12.000			0.0833	10	
pH Temperature	25.4		Deg C		25.2			0.791	10	

Duplicate (2105010-DUP5)

Source: E211303-13

Prepared & Analyzed: 04/29/21

EPA 9040

pH	12.980	1.00	pH Units		12.950			0.231	10	
pH Temperature	25.1		Deg C		25.0			0.399	10	



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Classical/Nutrient Analyses (CNA) - Quality Control

US-EPA, Region 4, LSASD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2105010 - C 9040 pH

Duplicate (2105010-DUP6)

Source: E211303-13

Prepared & Analyzed: 04/29/21

EPA 9040

pH	12.970	1.00	pH Units	12.950	0.154	10
pH Temperature	24.5		Deg C	25.0	2.02	10



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Notes and Definitions for QC Samples

H-5 ASB-defined holding time exceeded.

END OF REPORT