

Project ID: 22-0050

Sampling Investigation Final Report

TAV Holdings, Inc.

**3400 Hamilton Boulevard SW
Atlanta, GA 30354**

**56 Jarrell Road
Greenville, GA 30222**

Project Date: November 30 – December 1, 2021

Report Date: February 7, 2022

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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.



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Table of Contents

1.0	Introduction.....	4
2.0	Summary.....	4
3.0	Site Background.....	5
4.0	Field Investigation and Methodology.....	6
5.0	Results and Discussion.....	8
6.0	Conclusions.....	9
7.0	References.....	9

Figure

Figure 1	TAV Holdings, Inc. – Atlanta, GA Sample Location Map.....	10
Figure 2	TAV Holdings, Inc. – Greenville, GA Sample Location Map.....	11

Tables

Table 1	Sample Data – Atlanta.....	12
Table 2	Sample Data – Greenville.....	13
Table 3	Total Metals – Waste Data Summary – Atlanta.....	14
Table 4	Total Metals – Waste Data Summary – Greenville.....	15
Table 5	Total Metals – Surface Water Data Summary – Greenville.....	16
Table 6	TCLP Metals Analysis – Waste Data – Atlanta	17
Table 7	TCLP Metals Analysis – Waste Data – Greenville	18

Appendices

Appendix A	– Photographs.....	19
Appendix B	– Field Logbook.....	36
Appendix C	– Receipt for Samples.....	69
Appendix D	– Laboratory Analytical Data Reports.....	72

Sampling Investigation Report TAV Holdings, 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 TAV Holdings, Inc. in Atlanta, Georgia on November 30, 2021 and at the TAV Holdings, Inc. in Greenville, Georgia on December 1, 2021. Brooke York, Environmental Engineer, and David Champagne, Environmental Engineer, Region 4 Enforcement and Compliance Assurance Division (ECAD) requested the sampling and laboratory analyses of the piles of auto shredder residues and surface water seepage at the site.

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

NAME	ORGANIZATION	DUTIES
Paula Whiting	LSASD	Project Leader, Safety Officer
Art Masters	LSASD	Sampler
Mike Neill	LSASD	Scribe, Sampler
Brooke York	ECAD	Project Manager, Inspector
David Champagne	ECAD	Inspector
Faney Foster	Georgia Env. Prot. Div.	Inspector
Todd Bethune	Georgia Env. Prot. Div.	Inspector
Scott Henson	Georgia Env. Prot. Div.	Inspector

This sampling event was conducted in accordance with the Sampling and Analysis Plan (SAP) for the TAV Holdings, Inc. facility dated November 19, 2021. Any deviations from the SAP are documented in the field logbook as needed and discussed in the appropriate sections of this report. In addition, the SAP was designed to be used in conjunction with the Applied Science Branch (ASB) Quality Assurance Project Plan December 2019.

2.0 Summary

During the TAV Holdings, Inc. sampling investigations, LSASD personnel collected a total of four samples for the Atlanta facility and a total of ten samples for the Greenville facility. The four Atlanta samples and nine Greenville samples were waste samples collected from various locations at the facilities, and one sample was surface water collected from the seep at the toe of the Big Pond. LSASD's Laboratory Services Branch chemists analyzed the samples for total metals and Toxicity Characteristic Leaching Procedure (TCLP) metals.

Total metal laboratory analyses showed that nine of the thirteen samples collected from the waste materials contained lead concentrations ranging from 320 mg/kg to 2800 mg/kg and could potentially exhibited the toxicity characteristic (TC) for lead (D008). However, TCLP results for lead exceeded the TC regulatory level of 5.0 mg/l for only one sample. The lead TCLP result was 9.0 mg/l for sample GWA13.

3.0 Site Background

TAV Holdings, Inc. (TAV) has multiple locations in the State of Georgia. TAV operates recycling facilities that use various separation technologies from different industries, as well as a processing and trading of non-ferrous metals.

A second Atlanta TAV Holdings, Inc. facility identified is located at 3400 Hamilton Boulevard SW in Atlanta, Georgia. This TAV facility was leased but is no longer in operation. This facility was used as a research and development site prior to the Empire Road facility startup. The property reverted to the original owners, but still store abandoned automobile shredder residue (ASR) material from the TAV operations.

TAV also has a facility located at 56 Jarrell Road in Greenville, Georgia. This TAV facility operation include offices, the Shop (an open sided metal building), Runway 1 and 2 Piles of ASR material, the Ball Mill and processed ASR pile, a settling pond, the Big Pond and the Big Waste Pile. The TAV facility receives ASR, fluff generated from the shredding of automobiles, various stages of ASR in the recovery process, and previously landfilled ASR from multiple offsite sources. This material received would normally be disposed of in solid waste landfills.

TAV Greenville operates a recycling facility that uses various separation technologies for different industries, as well as a processing and trading company of non-ferrous metals. The US EPA and Georgia Environmental Protection Division (GAEPD) inspectors were informed that the incoming material is received at no cost to TAV. All the material received for processing at TAV are solid waste. This solid waste received is stored outside upon delivery. The solid waste is separated based on particle size and undergoes several screening and particle size reduction processes to recover metals, primarily copper. As the solid waste is processed, material not high enough in recovered metals, to be sold for recovery or smelting, is being stored onsite. TAV Greenville plans to send this waste for off-site disposal at the Turkey Run Landfill. No disposal records of any of the wastes generated from the processing of the ASR have been provided.

TAV Greenville currently holds a National Pollutant Discharge Elimination System (NPDES) industrial stormwater permit from GAEPD. The US EPA was originally contacted concerning NPDES violations that were occurring at the TAV Empire Road facility.

TAV Greenville facility recovers metals from the ASR. However, there are numerous piles of the processed ASR material stored on the ground throughout the facility. In addition, the facility operates a process water treatment system, where the process water is sent to a system of settling ponds and then back into the process.

Studies, completed by the US EPA, report that auto shredder residues may contain lead, cadmium, and chromium. ECAD has requested LSASD to collect samples to determine if the ASR and processed materials with metal contaminants are being properly managed and/or if contaminants are potentially leaving the site.

4.0 Field Investigation and Methodology

On November 30, 2021, the US EPA and GAEPD conducted a case development investigation evaluation (CDIE) at TAV Holdings, Inc., 3400 Hamilton Boulevard, SW in Atlanta, Georgia. LSASD conducted an authoritative sampling investigation by collecting four waste samples. Sample locations were based on observations at the time of the investigation. The US EPA inspectors and LSASD field investigators surveyed the facility initially to determine where to collect samples.

During the November 30, 2021 CDIE, the US EPA and GAEPD investigators observed a building with a pit area filled with liquid and sediment. Next to the building were three large totes and two small totes suspected to contain used sulfuric acid. LSASD attempted to screen one large tote with pH paper to determine corrosivity. However, results were inconclusive because of color interference with the liquid. Next to the totes was an open fractionation tank with several inches of sediment in the bottom.

In the center of the facility were three large ASR piles containing metal chunks and various debris. The piles started near the property fence and stretched almost 200 feet towards the rear of the property. Between the first two piles was liquid that had runoff and was ponding.

On the northeast side of property fence was a large pile of ASR fines that appeared to be solid but once stepped upon shifted and then collapsed under weight. The investigators observed that the ASR fines pile was multi-phased with liquid flowing between the fines. However as the investigators moved away from the large ASR fines pile toward the front of the property, the ASR fines were dried with cracks and observed to have flowed under the property fence to the public sidewalk and the city right of way.

ECAD requested that LSASD sample the pit area filled with liquid and sediment, the large ASR piles with metal and various debris, the ASR fines pile and the ASR material outside of the property fence.

LSASD personnel sampled liquid and/or solids from the pit area, the large ASR piles, the ASR fines pile and the material released outside the property fence (AWA01, AWA02, AWA03, and AWA04).

Chain of custody documents were prepared by Mr. Neill using the US EPA's Scribe program. Samples were submitted to the LSASD laboratory for analyses. Split samples were collected by LSASD and were provided to Mr. Robert Brewer, TAV Holdings, Inc. on November 30, 2021, at 2:18 PM.

On December 1, 2021, the US EPA and GAEPD conducted a CDIE at TAV Holdings, Inc. in Greenville, Georgia. LSASD conducted an authoritative sampling investigation and collected nine waste samples and one surface water sample. Sample locations were based on observations at the time of the investigation. The US EPA inspectors and LSASD field investigators surveyed the facility initially to determine where to collect samples.

During the CDIE, the US EPA and GAEPD investigators observed Runway 1 and Runway 2 Piles. Mr. Tim Good, Jr., TAV, explained that Runway 1 Pile contained oversized ASR material that got screened first and then shredded to a smaller size, while Runway 2 Pile was processed ASR material. Across from Runway 2 Pile was the Settlement (Settling) Pond which held piles of dark brown

multi-phase sediment mixed with debris and liquid. Mr. Good explained that this material is reused in the process.

The investigators then followed the path of the process water as it exited and then enter the operations. The runoff from the process and the facility flows between Runway 1 and Runway 2 piles into a settling swale next to the Big Pond. Majority of the sediment drops out into the settling swale. The runoff liquid flows into the Big Pond for additional settling before being pumped to the Concrete Pond. The liquid is then returned to the process. The Concrete Pond holds the spray bar water from the Big Pond.

The Big Pond captures all the runoff water, process water and stormwater from the facility. During the investigation, the investigators observed a seep on the north side of the Big Pond. The seep released into a wooded area and has created a runoff path further into the wooded area.

Near the entrance of the facility are office buildings, a large open-end building called the Shop and the Ball Mill with in-process ASR piles, and the Ball Mill settling pond. Behind the Ball Mill is a very large pile of discarded ASR material stored onsite. This pile, according to Mr. Good, needs to be disposed of at the Turkey Run Landfill. At the base of the big ASR waste pile is a pond collecting runoff liquid and sediment.

The investigators walked the property border to determine runoff paths with potential releases to the environment. The investigators noted that the back side of Runway 1 Pile is bordered by a runoff stream and a capped landfill.

ECAD requested that LSASD sample the Settlement (Settling) Pond 1, Big Pond Settling Swale, Big Pond near the inlet, Ball Mill Settling Pond mud pile, Big Waste Pile toe pond, Runway 1 Pile heel pond and the Big Pond seep at the toe slope.

LSASD personnel sampled liquid and/or solids from the Settlement (Settling) Pond 1, Big Pond Settling Swale, Big Pond near the inlet, Ball Mill Settling Pond mud pile, Big Waste Pile toe pond, Runway 1 Pile heel pond (GWA05, GWA06, GWA07, GWA08, GWA09, GWA10, GWA11, GWA12, and GWA13), and surface water sample from Big Pond toe slope seep into the wooded area (GSW01).

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-302-R4, Waste Sampling
LSASDPROC-201-R4, Surface Water Sampling

All field measurement and sampling procedures were performed and/or overseen by LSASD 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. Neill using the US EPA's Scribe program. Samples were submitted to the LSASD laboratory for analyses. Split samples were collected by LSASD and were provided to Mr. Brent Fairchild, TAV Holdings, Inc. on December 1, 2021, at 5:30 PM.

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

5.0 Results and Discussion

The environmental sample (GSW01) and waste samples (AWA01, AWA02, AWA03, AWA04, GWA05, GWA06, GWA07, GWA08, GWA09, GWA10, GWA11, GWA12 and GWA13) were analyzed for total metals using USEPA method 6010C and USEPA method 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 ten waste samples using US EPA method 1311 and the TCLP extracts were analyzed for TC metals.

Table 3, **Table 4** and **Table 5** summarize the Total Metals –Data Summary, and **Table 6** and **Table 7** summarize the TCLP metal analyses for the waste samples. LSASD’s complete analytical reports are included as **Appendix D**.

As expected, metal scans of the waste samples showed high concentrations of copper and other metals including aluminum, iron, lead and zinc. Analyses showed that the waste samples that were solids or multi-phased contained copper ranging from 39 mg/kg to 67000 mg/kg, aluminum ranging from 4600 mg/kg to 42000 mg/kg, iron ranging from 16000 mg/kg to 44000 mg/kg, lead ranging from 320 mg/kg to 2800 mg/kg, and zinc from 200 mg/kg to 9200 mg/kg (**Tables 3** and **4**).

Sample AWA04 which was collected from the public sidewalk outside the fence at the TAV Atlanta facility contained 2500 mg/kg of lead. **Note:** The TAV Atlanta facility is located in an industrial park with worker and public access. This lead concentration exceeds both the 400 mg/kg USEPA Regional Screening Level (RSL) for lead compounds from the Resident Soil Table (TR=1E-06, HQ=0.1) November 2021 for noncarcinogenic SL Child, THI=0.1, and the 800 mg/kg RSL for lead from Composite Worker Soil Table (TR=1E-06, HQ=1) November 2021 for noncarcinogenic SL, THI=1.

Based on concentrations of TC metals obtained during the total metal scans, ten samples were extracted for the TCLP. However, TCLP results for lead exceeded the TC regulatory level of 5.0 mg/l for only one sample. The lead TCLP result was 9.0 mg/l for sample GWA13 (**Table 7**). The other five samples from the TAV Greenville facility had lead TCLP results ranging from 0.87 mg/l to 2.9 mg/l while the four samples from the TAV Atlanta facility had lead TCLP results ranging from 3.7 mg/l to 4.5 mg/l.

Quality Control Sample Results

Blanks (Field and Equipment)

No field or equipment blanks were collected during this investigation. A temperature blank accompanied the environmental sample and arrived at the laboratory at 3.4° C.

Split Samples

Split samples were collected at each sample station and were 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 total metal analyses, samples AWA04 and GWA11 were designated as the LSASD's laboratory matrix spike/matrix spike duplicate (MS/MSD), and for the TCLP analyses, sample AWA03 was used as the quality control sample. 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

Laboratory analyses showed high concentrations of metals in the processed materials but only one of the thirteen waste samples (GWA13) was shown to exhibit the toxicity characteristic for lead (D008) with a lead TCLP result of 9.0 mg/l.

The analytical data from this sampling investigation indicate that the TAV Holdings' activities and operations could potentially impact environmental media at both sites due to ASR with high concentrations of metals being stored on the ground.

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 TAV Holdings, Inc." October 14, 2021.

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



Figure 1
TAV Holdings, Inc. - Atlanta, GA
Sample Locations

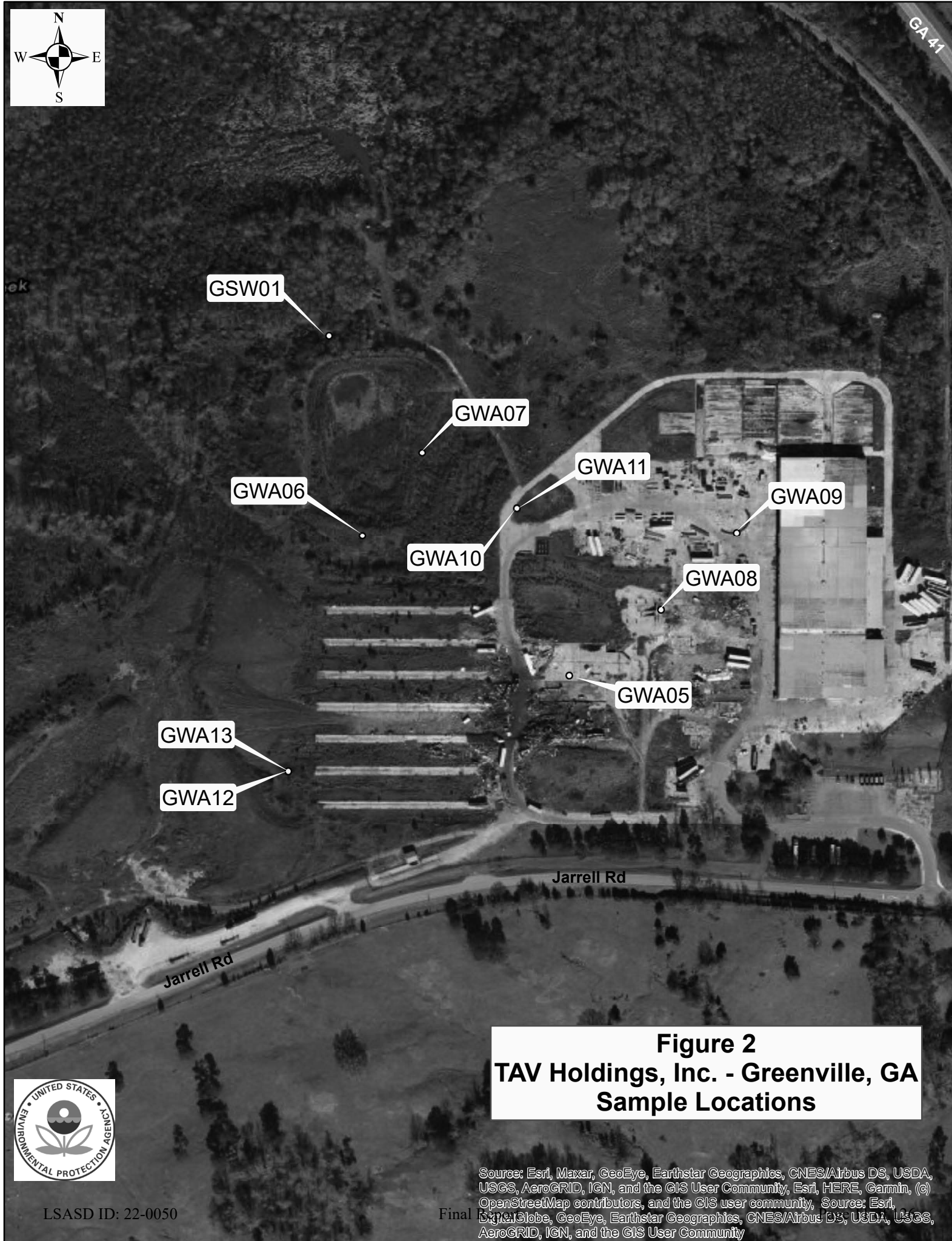
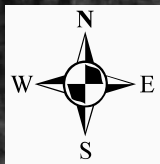


Figure 2
TAV Holdings, Inc. - Greenville, GA
Sample Locations



Table 1
Sample Data
3400 Hamilton Blvd, Atlanta, GA

Sample I.D.	Sample Media	Sample Description	Location	Sample Type	Sample Container	Analyses	Latitude	Longitude
AWA01	Waste	Black multiphase semisolid with some liquid	Pit inside building	Semi-solid	8 ounces	Metals/ TCLP	33.66076	-84.38833
AWA02	Waste	Brown-gray solid heterogenous material mixed with debris, metal, wires	Waste pile facing northeast of auto shredder fluff residue solids	Solid	8 ounces	Metals/ TCLP	33.66106	-84.38762
AWA03	Waste	Dark brown with black inclusions heterogenous solid material with debris, metal and wire	Backside of waste pile along stormwater path	Solid	8 ounces	Metals/ TCLP	33.66113	-84.38722
AWA04	Waste	Black heterogenous solid with metal, debris and wire	Outside facility fence near hydrant and property marker	Solid	8 ounces	Metals/ TCLP	33.66161	-84.38752

Table 2
Sample Data
56 Jarrell Road, Greenville, GA

Sample I.D.	Sample Media	Sample Description	Location	Sample Type	Sample Container	Analyses	Latitude	Longitude
GWA05	Waste	Dark brown multiphase semi-solid with liquid and debris	Settlement (Settling) Pond 1	Semi-solid	8 ounces	Metals/ TCLP	33.08088	-84.72188
GWA06	Waste	Dark brown solid material with debris, rocks, plant material, plastic and wire	Big Pond Settling Swale	Solid	8 ounces	Metals/ TCLP	33.08184	-84.7233
GWA07	Waste	Reddish brown semi-solid with liquid	Big Pond Inlet	Semi-solid	8 ounces	Metals/ TCLP	33.08241	-84.72289
GSW01	Surface Water	Brown liquid with black and orange iron bacteria flecks	Big Pond backside - seep at the north toe	Liquid	1 Liter	Metals/ TCLP	33.08321	-84.72353
GWA08	Waste	Light and dark brown solid containing gray and white layers with debris and mostly fines	Ball Mill Settling Pond mud pile	Solid	8 ounces	Metals/ TCLP	33.08133	-84.72125
GWA09	Waste	Dark brown heterogenous solid with debris, metal, wire, plastic and fibers	The Shop - open sided building	Solid	8 ounces	Metals/ TCLP	33.08186	-84.72073
GWA10	Waste	Dark brown multiphase semi-solid with mostly liquid with debris, plastic, wire	Big Waste Pile Toe Pond	Semi-solid	8 ounces	Metals/ TCLP	33.08203	-84.72224
GWA11	Waste	Dark brown multiphase liquid with foam material floating on surface	Big Waste Pile Toe Pond	Liquid	1 Liter	Metals/ TCLP	33.08203	-84.72224
GWA12	Waste	Medium to dark brown liquid, appears lightly tinted and clear	Runway 1 Pile - behind pile at the heel	Liquid	1 Liter	Metals/ TCLP	33.08022	-84.72381
GWA13	Waste	Black multiphase semi-solid with debris, metal, wire	Runway 1 Pile - behind pile at the heel	Semi-solid	8 ounces	Metals/ TCLP	33.08022	-84.72381

Table 3

Lab Results Data Summary - Total Metals - Waste Study: 22-0050 - TAV Holdings, Inc. - Greenville, GA Sample Date: 11/30/2021 - Atlanta Facility					
	Station ID	AWA01	AWA02	AWA03	AWA04
	Sample ID	AWA01	AWA02	AWA03	AWA04
	Matrix	Waste	Waste	Waste	Waste
	Sample Date	11/30/2021 12:50	11/30/2021 13:10	11/30/2021 13:45	11/30/2021 14:00
Analyte	Units				
Aluminum	mg/kg	18000	42000	26000	34000
Antimony	mg/kg	9.5	14	11	13 J,O
Arsenic	mg/kg	2.4	3.0	2.7	2.1 J,O
Barium	mg/kg	800	660	630	330
Cadmium	mg/kg	7.5	10	10	14 J,O
Calcium	mg/kg	15000	35000	14000	28000
Chromium	mg/kg	88	190	78	150 J,O
Cobalt	mg/kg	12	< 20 U	13	18 J,O
Copper	mg/kg	5900	67000	6900	13000 O
Iron	mg/kg	23000	31000	20000	25000
Lead	mg/kg	320	2800	1200	2500
Magnesium	mg/kg	4100	9700	4600	5900
Manganese	mg/kg	530	630	460	750
Nickel	mg/kg	120	250	130	240 J,O
Potassium	mg/kg	< 860 U	< 4100 U	2000	< 1500 U,J,QM-2
Silver	mg/kg	8.4	< 20 U	9.9	14 J,O
Sodium	mg/kg	< 860 U	< 4100 U	1600	< 1500 U,J,QM-1
Strontium	mg/kg	60	98	79	96 J,O
Tin	mg/kg	110	95	140	58 J,O
Titanium	mg/kg	140 J,O	130 J,O	310 J,O	97 J,O
Vanadium	mg/kg	11	< 20 U	15	< 7.7 U
Yttrium	mg/kg	< 2.6 U	< 12 U	2.4	< 4.6 U
Zinc	mg/kg	4100	7300	4000	5800

TABLE 4

Lab Results Data Summary - Total Metals - Waste
Study: 22-0050 - TAV Holdings, Inc. - Greenville, GA
Sample Date: 12/01/2021 - Greenville Facility

	Station ID	GWA05	GWA06	GWA07	GWA08	GWA09	GWA10	GWA11	GWA12	GWA13
	Sample ID	GWA05	GWA06	GWA07	GWA08	GWA09	GWA10	GWA11	GWA12	GWA13
	Matrix	Waste	Waste	Waste	Waste	Waste	Waste	Waste	Waste	Waste
	Sample Date	12/1/2021 11:00 AM	12/1/2021 11:15 AM	12/1/2021 11:30 AM	12/1/2021 2:10 PM	12/1/2021 2:30 PM	12/1/2021 3:15 PM	12/1/2021 3:20 PM	12/1/2021 4:00 PM	12/1/2021 4:10 PM
Analyte	Units									
Aluminum	mg/kg	16000	15000	13000	17000	8300	8800	< 7.6 U	< 7.5 U	4600
Antimony	mg/kg	6.8	7.4	0.18	19	47	5.3	< 0.19 U,J,QM-3	< 0.19 U	4.9
Arsenic	mg/kg	2.3	2.6	0.21	2.9	3.1	1.5	< 0.19 U	< 0.19 U	1.7
Barium	mg/kg	470	410	120	610	860	450	0.72	1.2	320
Cadmium	mg/kg	16	26	0.34	25	16	9.0	< 0.095 U	< 0.094 U	9.1
Calcium	mg/kg	14000	15000	330	20000	20000	7000	33	30	12000
Chromium	mg/kg	110	100	15	190	110	130	< 0.38 U	< 0.38 U	44
Cobalt	mg/kg	20	19	7.5	19	11	8.9	< 0.38 U	< 0.38 U	10
Copper	mg/kg	1500	3900	39	5100	3700	2500	< 1.5 U,B-2	< 0.75 U	620
Iron	mg/kg	33000	33000	16000	44000	29000	22000	< 7.6 U	< 7.5 U	16000
Lead	mg/kg	1400	27	38	2500	1300	580	< 0.34 U,B-2	< 0.19 U	650
Magnesium	mg/kg	2600	2800	3300	4000	2400	1800	36	57	1800
Manganese	mg/kg	690	800	240	1300	600	630	0.42	< 0.38 U	620
Molybdenum	mg/kg	< 13 U	< 14 U	< 4.4 U	< 13 U	< 10 U	< 6.2 U	0.84	< 0.75 U	< 7.9 U
Nickel	mg/kg	140	150	26	230	110	68	< 0.76 U	< 0.75 U	52
Potassium	mg/kg	< 1300 U	< 1400 U	4500	< 1300 U	< 1000 U	990	160	120	< 790 U
Silver	mg/kg	< 6.7 U	7.3	< 2.2 U	13	8.7	3.3	< 0.38 U	< 0.38 U	< 4.0 U
Sodium	mg/kg	< 1300 U,J,QC-2	< 1400 U,J,QC-2	< 440 U,J,QC-2	< 1300 U,J,QC-2	< 1000 U,J,QC-2	1300 J,O	1200 J,O	860 J,O	970 J,O
Strontium	mg/kg	75	83	6.9	100	89	47	0.95	1.5	100
Thallium	mg/kg	< 0.13 U	< 0.14 U	0.29	< 0.17 U	< 0.21 U	< 0.16 U	< 0.19 U	< 0.19 U	< 0.16 U
Tin	mg/kg	38	55	< 6.7 U	140	92	31	< 1.1 U	< 1.1 U	29
Titanium	mg/kg	140	160	1000 J,O	160	140	210	< 0.38 U	< 0.38 U	89
Vanadium	mg/kg	12	11	29	17	11	12	< 0.38 U	< 0.38 U	5.7
Yttrium	mg/kg	< 4.0 U	< 4.3 U	3.9	< 4.0 U	< 3.1 U	2.4	< 0.23 U	< 0.23 U	3.1
Zinc	mg/kg	9200	7600	200	6700	4200	2800	< 1.8 U,B-2	< 0.83 U,B-2	3900

TABLE 5

Lab Results Data Summary - Total Metals - Surface Water Study: 22-0050 - TAV Holdings, Inc. - Greenville, GA Sample Date: 12/01/2021 - Greenville Facility		
	Station ID	GS01
	Sample ID	GSW01
	Matrix	Surface Water
	Sample Date	12/1/2021 12:00 PM
Analyte	Units	38000
Aluminum	ug/L	
Antimony	ug/L	0.63
Arsenic	ug/L	4.5
Barium	ug/L	470
Calcium	ug/L	75000
Chromium	ug/L	70
Cobalt	ug/L	61
Iron	ug/L	120000
Lead	ug/L	36
Magnesium	ug/L	37000
Manganese	ug/L	12000
Potassium	ug/L	43000
Selenium	ug/L	1.9
Sodium	ug/L	290000
Strontium	ug/L	530
Thallium	ug/L	1.0
Titanium	ug/L	2100
Vanadium	ug/L	120
Zinc	ug/L	120

DEFINITIONS OF REGION 4 ANALYTICAL DATA QUALIFIERS

- 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.
- QC-2 Analyte concentration high in continuing calibration verification standard
- QC-4 Result greater than the highest point on the calibration curve
- QI- Internal standard was outside of 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-1 MRL verification recovery less than lower control limits.
- O Other qualifiers have been assigned providing additional information. These explanatory qualifiers are included in the printable pdf report and in other columns in the export files.

TABLE 6

Lab Results Data Summary - TCLP Metals - Waste Study: 22-0050 - TAV Holdings, Inc. - Greenville, GA Sample Date: 11/30/2021 - Atlanta Facility						
-	Station ID	-	AWA01	AWA02	AWA03	AWA04
-	Sample ID	-	AWA01	AWA02	AWA03	AWA04
-	Matrix	-	Waste	Waste	Waste	Waste
-	Sample Date	-	11/30/2021 12:50 PM	11/30/2021 1:10 PM	11/30/2021 1:45 PM	11/30/2021 2:00 PM
Analyte	Units	Comparison Standard				
Barium	mg/L	<u><RCRA (TCLP): 100 mg/l ></u>	17	1.4	2.7 J,O	1.7
Cadmium	mg/L	<u><RCRA (TCLP): 1 mg/l ></u>	0.17	0.15	0.17	0.19
Lead	mg/L	<u><RCRA (TCLP): 5 mg/l ></u>	4.2	3.7	4.5 J,O	4.5
Nickel	mg/L	-	0.44	< 0.20 U	< 0.20 U	< 0.20 U
Zinc	mg/L	-	24	29	17	31

Table 7

Lab Results Data Summary - TCLP Metals - Waste Study: 22-0050 - TAV Holdings, Inc. - Greenville, GA Sample Date Range: 12/01/2021 - Greenville Facility								
-	Station ID	-	GWA05	GWA06	GWA08	GWA09	GWA10	GWA13
-	Sample ID	-	GWA05	GWA06	GWA08	GWA09	GWA10	GWA13
-	Matrix	-	Waste	Waste	Waste	Waste	Waste	Waste
-	Sample Date	-	12/1/2021 11:00 AM	12/1/2021 11:15 AM	12/1/2021 2:10 PM	12/1/2021 2:30 PM	12/1/2021 3:15 PM	12/1/2021 4:10 PM
Analyte	Units	Comparison Standard						
Antimony	mg/L		0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U
Arsenic	mg/L	<RCRA (TCLP): 5 mg/l >	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Barium	mg/L	<RCRA (TCLP): 100 mg/l >	5.5	5.6	3.4	6.6	3.6	8.3
Beryllium	mg/L		0.060 U	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U
Cadmium	mg/L	<RCRA (TCLP): 1 mg/l >	0.11	0.11	0.32	0.32	0.28	0.28
Chromium	mg/L	<RCRA (TCLP): 5 mg/l >	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Lead	mg/L	<RCRA (TCLP): 5 mg/l >	1.1	0.87	2.4	2.9	1.2	9.0
Nickel	mg/L		0.87	0.62	0.44	0.48	0.33	0.80
Selenium	mg/L	<RCRA (TCLP): 1 mg/l >	0.90 U	0.90 U	0.90 U	0.90 U	0.90 U	0.90 U
Silver	mg/L	<RCRA (TCLP): 5 mg/l >	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Thallium	mg/L	-	0.60 U	0.60 U	0.60 U	0.60 U	0.60 U	0.60 U
Vanadium	mg/L	-	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Zinc	mg/L	-	98	57	72	54	47	89

DEFINITIONS OF REGION 4 ANALYTICAL DATA QUALIFIERS

- 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 printable pdf report and in other columns in the export files.

Appendix A – Photographs

Photos taken by Paula Whiting

Camera Type: Olympus Tough

Serial Number: SC7374



Photo taken by P. Whiting 11/30/2021

Sample Location AWA01 – Pit



Photo taken by P. Whiting 11/30/2021

Sample Location AWA01 – Pit



Photo taken by P. Whiting 11/30/2021

Sample Location AWA01 – Pit



Photo taken by P. Whiting 11/30/2021

Sample Location AWA02 – ASR Pile Overview



Photo taken by P. Whiting 11/30/2021

Sample Location AWA02 – ASR Pile Overview



Photo taken by P. Whiting 11/30/2021

Sample Location AWA02 – ASR Pile
Composite Location



Photo taken by P. Whiting 11/30/2021

Sample Location AWA02 – ASR Pile
Composite Location



Photo taken by P. Whiting 11/30/2021

Sample Location AWA02 – ASR Pile
Composite Location



Photo taken by P. Whiting 11/30/2021

Sample Location AWA02 – ASR Pile
Composite Location



Photo taken by P. Whiting 11/30/2021

Sample Location AWA02 – ASR Pile
Composite Location



Photo taken by P. Whiting 11/30/2021

Sample Location AWA02 – ASR Pile
Composite Location

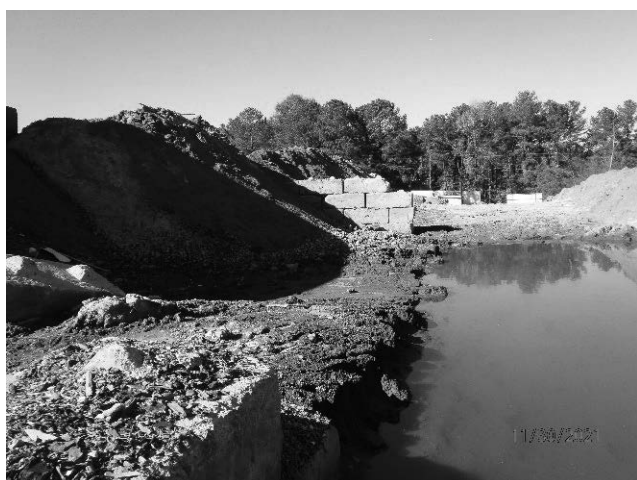


Photo taken by P. Whiting 11/30/2021

Sample Location AWA02 – ASR Pile
Composite Location



Photo taken by P. Whiting 11/30/2021

Sample Location AWA02 – ASR Pile
Composite Location



Photo taken by P. Whiting 11/30/2021

Sample Location AWA03 – Backside of
ASR Pile with runoff



Photo taken by P. Whiting 11/30/2021

Sample Location AWA03 – Backside of
ASR Pile with runoff



Photo taken by P. Whiting 11/30/2021

Sample Location AWA04 – Brown-gray
solids released under the
property fence line



Photo taken by P. Whiting 11/30/2021

Sample Location AWA04 – Brown-gray
solids released under the
property fence line



Photo taken by P. Whiting 12/01/2021

Sample Location GWA05 – Pit mud



Photo taken by P. Whiting 12/01/2021

Sample Location GWA05 – Pit mud



Photo taken by P. Whiting 12/01/2021

Sample Location GWA06 – Big Pond
Settling Swale



Photo taken by P. Whiting 12/01/2021

Sample Location GWA06 – Big Pond Settling
Swale Composite Point



Photo taken by P. Whiting 12/01/2021

Sample Location GWA06 – Big Pond Settling
Swale Composite Point



Photo taken by P. Whiting 12/01/2021

Sample Location GWA07 – Big Pond near
inlet and ground seep



Photo taken by P. Whiting 12/01/2021

Sample Location GWA07 – Big Pond near outlet



Photo taken by P. Whiting 12/01/2021

Sample Location GWA07 – Big Pond near inlet



Photo taken by P. Whiting 12/01/2021

Sample Location GWA07 – Big Pond deposits



Photo taken by P. Whiting 12/01/2021

Sample Location GWA07 – Big Pond deposits



Photo taken by P. Whiting 12/01/2021

Sample Location GSW01 – Big Pond seep at
toe slope

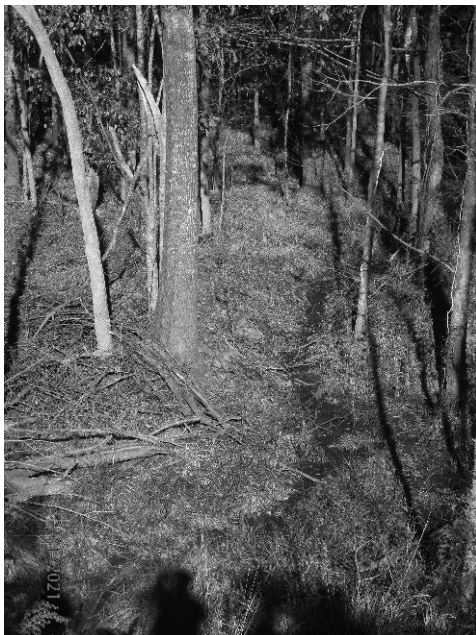


Photo taken by P. Whiting 12/01/2021

Sample Location GSW01 – Big Pond seep at
toe slope



Photo taken by P. Whiting 12/01/2021

Sample Location GSW01 – Big Pond seep at
toe slope



Photo taken by P. Whiting 12/01/2021

Sample Location GSW01 – Big Pond seep at
toe slope



Photo taken by P. Whiting 12/01/2021

Sample Location GSW01 – Big Pond seep at
toe slope - looking up hill



Photo taken by P. Whiting 12/01/2021

Sample Location GSW01 – Big Pond seep at
toe slope



Photo taken by P. Whiting 12/01/2021

Sample Location GWA08 – Ball Mill Settling
Pond Mud Pile



Photo taken by P. Whiting 12/01/2021

Sample Location GWA08 – Ball Mill Settling
Pond Mud Pile



Photo taken by P. Whiting 12/01/2021

Sample Location GWA10/11 – Big Waste Pile
Toe Pond



Photo taken by P. Whiting 12/01/2021

Sample Location GWA10 – Big Waste Pile
Toe Pond – solid sample



Photo taken by P. Whiting 12/01/2021

Sample Location GWA10 – Big Waste Pile
Toe Pond – solid sample



Photo taken by P. Whiting 12/01/2021

Sample Location GWA11 – Big Waste Pile
Toe Pond – liquid sample



Photo taken by P. Whiting 12/01/2021

Sample Location GWA12/GWA13 – Runway
1 Pile heel pond



Photo taken by P. Whiting 12/01/2021

Sample Location GWA12 – Runway 1 Pile
heel pond – liquid sample



Photo taken by P. Whiting 12/01/2021

Sample Location GWA13 – Runway 1 Pile
heel pond - solid sample



Photo taken by P. Whiting 12/01/2021

Sample Location GWA12/GWA13 – Runway
1 Pile backside

Appendix B – Field Logbook

United States Environmental Protection Agency
Region 4

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



TAV Holdings, Inc.
Atlanta and Greenville, Georgia

LSASD PROJECT ID NO: 22-0050
Paula Whiting, Project Leader

FIELD SCREENING and SAMPLING LOGBOOK
Book 1 of 1

Dates: 11/30 – 12/1, 2021.

List of personnel in logbook:

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

The following LSASD field measurement and sampling procedures will be followed during this field study, as applicable:

SESDPROC-1002-R0	Logbooks
LSASDPROC 110-R5	Global Positioning System
LSASDPROC-202-R4	Management of Investigation Derived Waste
LSASDPROC-205-R4	Field Equipment Cleaning and Decontamination
LSASDPROC-209-R4	Packing, Marking, Labeling and Shipping of Environmental and Waste Samples
LSASDPROC-302-R4	Waste Sampling
LSASDPROC-200-R4	Sediment Sampling
LSASDPROC-201-R4	Surface Water Sampling

Table of Contents:

General Notes	3
Sampling Investigation.....	7
Final Notes	41

General Notes

Date: 11/30/21

- GPS measurements made with Garmin 64S, Serial Number: S49794 By: Mike Neill
- Photographs made with Olympus Tough, Serial Number: SC7374 By: Paula Whiting

Sample Investigations will be conducted at 3400 Hamilton Boulevard SW, Atlanta, GA and at 56 Jarrell Road, Greenville, GA.

For the Atlanta location the sample naming convention will be AW0X for the sample and station ID, AS0X for the environmental station ID, and ASW0X and ASD0X for the water and sediment samples, respectively.

For the Greenville location the sample naming convention will be GW0X for the sample and station ID, GS0X for the environmental station ID, and GSW0X and GSD0X for the water and sediment samples, respectively.

Using 802 gals that have not been QA/QC'd. Currently using Mamuy's QA testing analysis sheet. See attached.

3400 - former Newell/Plasmet recycling site, former MetalTech Development

Totes of sulfuric acid - 3 big, 1 small, tested pH of large tote
2X pH paper was inconclusive. color interference

— fines = Low value ASR

metal chunks = high value ASR

2 process - primary shredder, fine shredder, ball mill - R&D site for Empire
Pit

Composite

Waste Piles

Offsite property corner

Bob
Brewer
TAV
consult.

Process auto
fluff shredder

General Notes

Date: 12/01/21

TAV Holdings, Inc. Greenville 8:20A
approx.

Faney Foster, GAEPD ATL
Todd Bethune, GAEPD Macon
Scott Henson, GAEPD Macon
Mike Neill, LSASD
Art Masters, LSASD
Paula Whiting, LSASD
Brooke York, ECAD
David Champagne, ECAD

Tim Good Jr
Dylan Bishop
Brent Fairchild

Areas

- Runway 1 - oversized material - gets ^{screened first} shredded to smaller size
3D Separation System (3DS)
Water runs gravity to back to 2 ponds
Runway 2 - processed ^{flow} mtl
2 commodities
3DS → Light mtl - non metal mtl (plastic) goes to LF
reprocessed for usable plastic (not yet)
mud generated from landfill - reused to raise/lower specific gravity (density)
⊗ Settlement Pond 1 - mud (sample)
Concrete Pond - holds spray bar water (process water)
never cleaned out
✓ Big Pond - every ^{thing} flows into pond and water used as process water, foam floats on top - not reusable
Turkey Run LF receives waste pile
✓ Big Pond settling Swate - heavy settling area prior to Big Pond
✓ Big Waste Pile
✓ Big Pond Runoff

Exit 17.30

General Notes

Date: 12/01/21

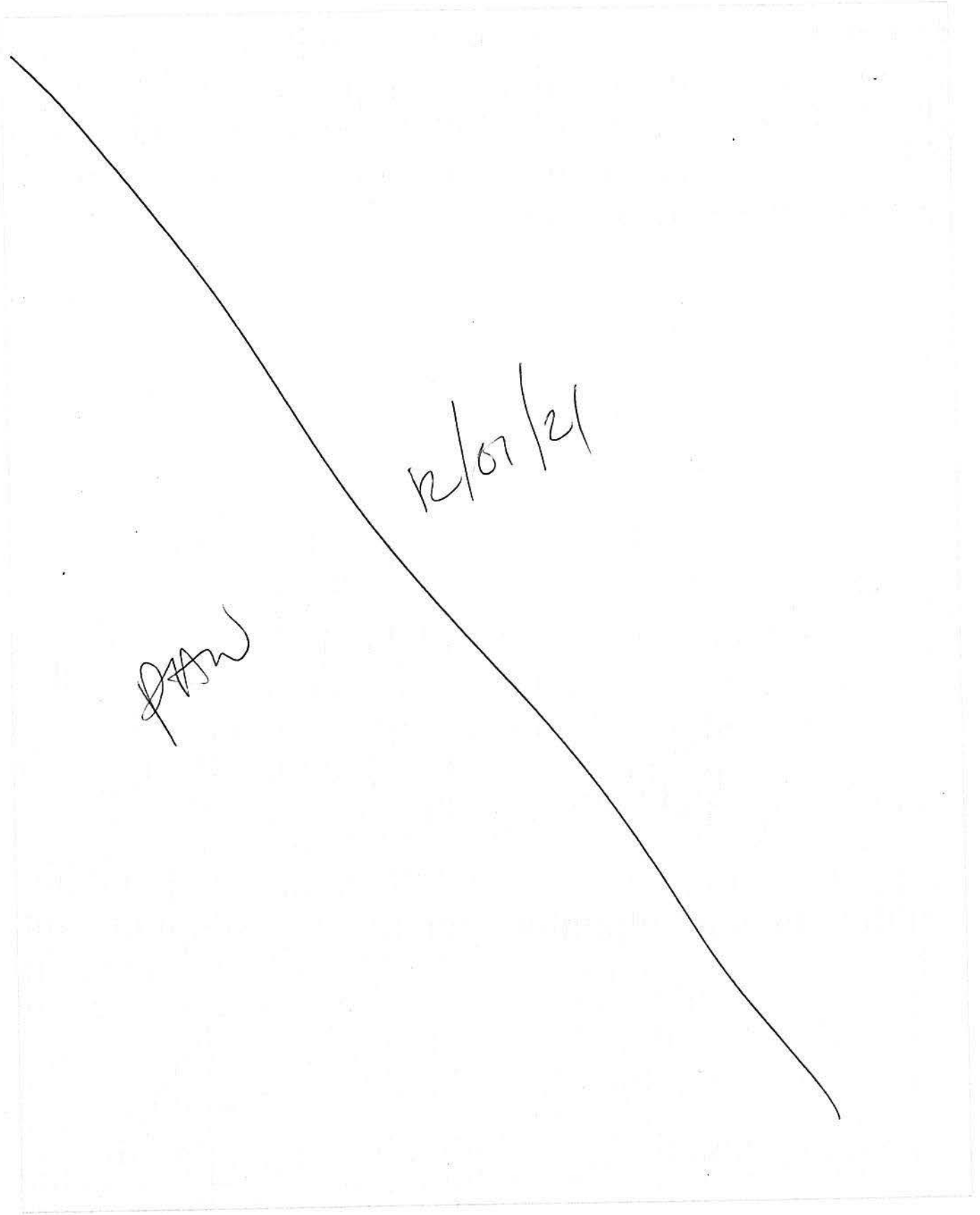
Ball Mill sample had more debris, wire and plastic than liquid or solid sediment material. Will inform lab about potential for reduced sample material for total metals and TCP. Infield Sift was not conducted due to distance from sample location to field equipment

12/1/21

DAN

General Notes

Date: _____



Sampling Investigation

Date: 11/30/21 Station ID: AWA01 Sample ID: AWA01

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

Duties

Sampler, Notes, Photos

Sampler

Sampler, GPS, Scribe

Description of sample location:

33.66076 N 084.38833 W #9

Pit - secondary containment inside building

LSASD Operating Procedures: LSASDPROC-302-R4 Waste Sampling [☒]
LSASDPROC-201-R4 Surface Water Sampling [☐]
LSASDPROC-200-R4 Sediment Sampling [☐]
Other: _____

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

Conduit w/ metal scoop, glass pan, metal SS spoon

Description of Media/Sample:

Black sludgy mud multiphase semisolid w/ some liquid

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

cool, warming up, sunny, no clouds
photo 1-3

Sample Collected: (Yes) or No Sample Time 12:50p

Laboratory Analyses and containers:

Analyses	Container	# of Containers	Preservation	Notes
<u>Metals / TCLP</u>	<u>8 oz / 1-L</u>	<u>1</u>		<u>grab</u>
<u>Metals / TCLP</u>	<u>8 oz / 1-L</u>	<u>1</u>		<u>grab</u>

Split sample? Y or N

Sampling Investigation

Date: 11/30/21 Station ID: AWA02 Sample ID: AWA02

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

Duties

Sampler, Notes, Photos

Sampler

Sampler, GPS, Scribe

Description of sample location:

33.66106 N 084.38762 W ±9
Pile facing northeast of ASR solids

LSASD Operating Procedures: LSASDPROC-302-R4 Waste Sampling
LSASDPROC-201-R4 Surface Water Sampling
LSASDPROC-200-R4 Sediment Sampling

☒

☐

☐

Other:

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

hand auger composite into glass pan, mix w/ SS spoon 10pt comp

Description of Media/Sample:

heterogeneous
solid material mixed w/ debris, metal, wires, brown, gray color

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

Sunny, cool, warming up, no clouds

Sample Collected: Yes or No Sample Time 1310

Laboratory Analyses and containers:

Analyses	Container	# of Containers	Preservation	Notes
Metals / TCLP	8 oz / 1-L	1		10pt Comp
Metals / TCLP	8 oz / 1-L	1		10pt - Comp

Split sample? Y or N

Sampling Investigation

Date: 11/30/21 Station ID: AWA03 Sample ID: AWA03

Duties

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

Sampler, Notes, Photos

Sampler

Sampler, GPS, Scribe

Description of sample location:

33.66113 N 084.38722 W
Backside of wastepile, stormwater runoff path

LSASD Operating Procedures: LSASDPROC-302-R4 Waste Sampling [X]
LSASDPROC-201-R4 Surface Water Sampling []
LSASDPROC-200-R4 Sediment Sampling []
Other: _____

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

glass pan, ss spoon

Description of Media/Sample:

spongy material, semi-moist dark brown w/ black inclusions,
Heterogeneous solid material, debris, metal, wire
prw 11/30/21

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

Cool, warming up, Sunny, no clouds, windy

Sample Collected: Yes or No Sample Time 1345

Laboratory Analyses and containers:

Analyses	Container	# of Containers	Preservation	Notes
Metals / TCLP	8 oz / 1-L	1		Comp grab
Metals / TCLP	8 oz / 1-L	1		Comp grab

Split sample? Y or N

Sampling Investigation

Date: 11/30/11 Station ID: AWA04 Sample ID: AWA04

Duties

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

Sampler, Notes, Photos
Sampler
Sampler, GPS, Scribe

Description of sample location:

33.66161 N 084.38752 W ±9
Outside facility fence near hydrant and property marker

LSASD Operating Procedures: LSASDPROC-302-R4 Waste Sampling [☒]
LSASDPROC-201-R4 Surface Water Sampling [☐]
LSASDPROC-200-R4 Sediment Sampling [☐]
Other: _____

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

glass pan w/ SS Spoon w/ grab them mixed

Description of Media/Sample:

black colored solid, heterogenous runoff from stormwater
under the fence, w/ metal, debris and wire

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

sunny, cool, warming up, windy
photos

Sample Collected: Yes or No Sample Time 1400

Laboratory Analyses and containers:

Analyses	Container	# of Containers	Preservation	Notes
Metals / TCLP	8-oz 1-L	1	NONE	grab
Metals / TCLP	8 oz 1-L	1	NONE	grab

Split sample? ☒ Y or N

Sampling Investigation

Date: 12/01/21 Station ID: GWA05 Sample ID: GWA05 ^{PAW 12/01/21}

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

Duties
Sampler, Notes, Photos
Sampler
Sampler, GPS, Scribe

Description of sample location: 33.08088 N 084.72188 W ^{79'}
Settlement (Settling) Pond 1

LSASD Operating Procedures: LSASDPROC-302-R4 Waste Sampling [☒]
LSASDPROC-201-R4 Surface Water Sampling [☐]
LSASDPROC-200-R4 Sediment Sampling [☐]
Other: _____

Specific Sampling Procedure/Method Used (including equipment ID, as appropriate):
5 point comp, glass pan, SS spoon, mixed together

Description of Media/Sample:
multi phase sediment, dark brown mud appearance w/ liquid debris

Other pertinent information (weather conditions, photos, etc.):
Sunny, warm, no clouds, light wind

Sample Collected: (Yes) or No Sample Time 1100

Laboratory Analyses and containers:

Analyses	Container	# of Containers	Preservation	Notes
<u>Metals/ TCLP</u>	<u>8 oz / 1-L</u>	<u>1</u>	<u>NONE</u>	<u>Comp</u>
<u>Metals/ TCLP</u>	<u>8 oz / 1-L</u>	<u>1</u>	<u>NONE</u>	<u>Comp</u>

Split sample? (Y) or N

Sampling Investigation

Date: 12/1/21 Station ID: GWA06 Sample ID: GWA06

Duties

Sample Team: [X] Paula Whiting

Sampler, Notes, Photos

(Check, as appropriate) [X] Art Masters

Sampler

[X] Mike Neill

Sampler, GPS, Scribe

Description of sample location:

33.08184N 084.72330 W^{±9}

Big Pond Settling Swale

LSASD Operating Procedures: LSASDPROC-302-R4 Waste Sampling

[☒]

LSASDPROC-201-R4 Surface Water Sampling

[]

LSASDPROC-200-R4 Sediment Sampling

[]

Other: _____

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

5 point Comp, glass pan, SS spoon mixed together

Description of Media/Sample:

rocks, plant mtl, plastic, wire
solid material w/ debris and low moisture
runoff paths visible on surface, dark brown mtl

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

sunny, warm, no clouds, light wind

Sample Collected: (Yes) or No Sample Time 1115

Laboratory Analyses and containers:

Analyses	Container	# of Containers	Preservation	Notes
<u>Metals / TCLP</u>	<u>8 oz / 1-L</u>	<u>1</u>	<u>NONE</u>	<u>Comp</u>
<u>Metals / TCLP</u>	<u>8 oz / 1-L</u>	<u>1</u>	<u>NONE</u>	<u>Comp</u>

Split sample? (Y) or N

Sampling Investigation

Date: 12/1/24 Station ID: GWA07 Sample ID: GWA07

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

Duties

Sampler, Notes, Photos

Sampler

Sampler, GPS, Scribe

Description of sample location:

33.08241 N 084.72289 W #9

Big Pond inlet

LSASD Operating Procedures: LSASDPROC-302-R4 Waste Sampling [☒]
LSASDPROC-201-R4 Surface Water Sampling [☐]
LSASDPROC-200-R4 Sediment Sampling [☐]
Other: _____

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

metal SS scoop, glass pan, SS spoon, grab

Description of Media/Sample:

Multi phase semi solid, reddish brown w/ liquid

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

Sunny, warm, no clouds, light wind

Sample Collected: (Yes) or No Sample Time 1130

Laboratory Analyses and containers:

Analyses	Container	# of Containers	Preservation	Notes
Metals / TCLP	(8 oz) / 1-L	1	NONE	grab
Metals / TCLP	(8 oz) / 1-L	1	NONE	grab

Split sample? (Y) or N

Sampling Investigation

Date: 12/1/21 Station ID: GWA08 Sample ID: GWA08
GS02 PAW 12/1/21 GSW01

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

Duties
 Sampler, Notes, Photos
 Sampler
 Sampler, GPS, Scribe

Description of sample location:

33.08321 N 084.72353 W 19

Back side of Big Pond runoff path / seep
seep @ toe of Big Pond
North

LSASD Operating Procedures: LSASDPROC-302-R4 Waste Sampling []
 LSASDPROC-201-R4 Surface Water Sampling [✓]
 LSASDPROC-200-R4 Sediment Sampling []
 Other: _____

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

SS Scoop, into 1 Liter poly

Description of Media/Sample:

Brown liquid w/ black and orange iron bacteria
flcks

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

Sunny, warm, no clouds, light breeze

Sample Collected: (Yes) or No Sample Time 1200

Laboratory Analyses and containers:

Analyses	Container	# of Containers	Preservation	Notes
<u>Metals / TCLP</u>	8 oz / <u>(1-L)</u>	<u>1</u>	<u>HNO3</u>	<u>grab</u>
<u>Metals / TCLP</u>	8 oz / <u>(1-L)</u>	<u>1</u>	<u>NONE</u>	<u>grab</u>

Split sample? (Y) or N

Sampling Investigation

Date: 12/01/21 Station ID: GWA08 Sample ID: GWA08

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

Duties

Sampler, Notes, Photos

Sampler

Sampler, GPS, Scribe

Description of sample location:

33.08133 N 084.72125 W ±9

Ball Mill Settling pond mudpile

LSASD Operating Procedures: LSASDPROC-302-R4 Waste Sampling [☒]
LSASDPROC-201-R4 Surface Water Sampling []
LSASDPROC-200-R4 Sediment Sampling []
Other: _____

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

3 point comp because 3 distinct areas

Description of Media/Sample:

light and dark brown solid, w/ debris, and fines w/ gray and white layers
mostly fines

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

Sunny, cloudy but clear,
structure
blue framing in photo

Sample Collected: Yes or No Sample Time 1410

Laboratory Analyses and containers:

Analyses	Container	# of Containers	Preservation	Notes
<u>Metals / TCLP</u>	<u>8 oz / 1-L</u>	<u>1</u>	<u>NONE</u>	<u>comp</u>
<u>Metals / TCLP</u>	<u>8 oz / 1-L</u>	<u>1</u>	<u>NONE</u>	<u>comp</u>

Split sample? Y or N

Sampling Investigation

Date: 12/1/21 Station ID: GWA09 Sample ID: GWA09

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

Duties
Sampler, Notes, Photos
Sampler
Sampler, GPS, Scribe

Description of sample location: 33.08186 N 084.72073 W±9
The Shop - building open w/ suspended roof
Ball Mill Lights → going to LF

LSASD Operating Procedures: LSASDPROC-302-R4 Waste Sampling [✓]
LSASDPROC-201-R4 Surface Water Sampling []
LSASDPROC-200-R4 Sediment Sampling []
Other: _____

Specific Sampling Procedure/Method Used (including equipment ID, as appropriate):
glass pan, ss spoon 5pt comp mixed

Description of Media/Sample:
heterogeneous solid, dark brown w/ debris wire, metal
plastic, fibers - light weight mtl
more debris than sediment

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

Sunny, windy, cloudy

Sample Collected: Yes or No Sample Time 1430

Laboratory Analyses and containers:

Analyses	Container	# of Containers	Preservation	Notes
<u>Metals</u> / TCLP	<u>8 oz</u> / 1-L	<u>1</u>	<u>NONE</u>	<u>comp</u>
<u>Metals</u> <u>TCLP</u>	<u>8 oz</u> / 1-L	<u>1</u>	<u>NONE</u>	<u>comp</u>

Split sample? Y or N

Sampling Investigation

Date: 12/1/21 Station ID: GWA10 Sample ID: GWA10

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

Duties

Sampler, Notes, Photos

Sampler

Sampler, GPS, Scribe

Description of sample location:

33.08203 N 084.72224 W#9

Big Waste Pile Toe Pond

-pond @ toe of big waste pile

LSASD Operating Procedures: LSASDPROC-302-R4 Waste Sampling
LSASDPROC-201-R4 Surface Water Sampling
LSASDPROC-200-R4 Sediment Sampling

[☒]
[]
[]

Other: _____

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

SS Scoop w/ Conduit - 10' 3pt Comp

Description of Media/Sample:

dark brown multiphase, mostly liquid w/ debris, plastic wire, semi-solid,

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

sunny, clouds, light breeze, warm

Sample Collected: Yes or No Sample Time 1515

Laboratory Analyses and containers:

Analyses	Container	# of Containers	Preservation	Notes
Metals / TCLP	8 oz / 1-L	1	None	Comp
Metals / TCLP	8 oz / 1-L	1	None	Comp
	PAW 12/1/21			

Split sample? Y or N

Sampling Investigation

Date: 12/1/24 Station ID: GWALL Sample ID: GWALL

Duties

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

Sampler, Notes, Photos _____
Sampler _____
Sampler, GPS, Scribe _____

Description of sample location:

33.08203 N 084.72224 W#9

Big Waste Pk Toe Pond
liquid sample only

LSASD Operating Procedures: LSASDPROC-302-R4 Waste Sampling [☒]
LSASDPROC-201-R4 Surface Water Sampling [☐]
LSASDPROC-200-R4 Sediment Sampling [☐]

Other: _____

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

SS Scoop w/ SS conduit - 10'

Description of Media/Sample:

Multiphase liquid, dark brown w/ foam mtl floating on
surface

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

Sunny, warm, windy, cloudy

Sample Collected: Yes or No Sample Time 1520

Laboratory Analyses and containers:

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

Split sample? (Y) or N

Sampling Investigation

Date: 12/1/21 Station ID: GWA12 Sample ID: GWA12

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

Duties

Sampler, Notes, Photos

Sampler

Sampler, GPS, Scribe

Description of sample location:

33.08022 N 084.72381 W #9
Runway 1 Waste Pile - behind, heel pond

LSASD Operating Procedures: LSASDPROC-302-R4 Waste Sampling [☒]
LSASDPROC-201-R4 Surface Water Sampling [☐]
LSASDPROC-200-R4 Sediment Sampling [☐]
Other: _____

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

SS Scoop w/ 10' conduit grab into 1 Liter

Description of Media/Sample:

medium to dark brown liquid, lightly tinted, clear

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

Cloudy, windy, cooling off

Sample Collected: ☒ Yes or No Sample Time 1600

Laboratory Analyses and containers:

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

Split sample? ☒ Y or N

Sampling Investigation

Date: 12/1/21 Station ID: GWA13 Sample ID: GWA13

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

Duties

Sampler, Notes, Photos

Sampler

Sampler, GPS, Scribe

Description of sample location:

33.08022 N 084.72381 W ±9
Runway 1 waste pile - behind pile, @ heel

LSASD Operating Procedures: LSASDPROC-302-R4 Waste Sampling
LSASDPROC-201-R4 Surface Water Sampling
LSASDPROC-200-R4 Sediment Sampling

[☒]
[]
[]

Other: _____

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

glass pan, SS Scoop w/ 10' Conduit, SS Spoon
only smell - auto shop odor

Description of Media/Sample:

black semi solid, multiphase, sludgy consistency
w/ debris, wire, metal

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

overcast, cloudy, light breeze, warm

Sample Collected: Yes or No Sample Time 1610

Laboratory Analyses and containers:

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

Split sample? Y or N

Sampling Investigation

Date: _____ Station ID: _____ Sample ID: _____

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

Duties

Sampler, Notes, Photos

Sampler

Sampler, GPS, Scribe

Description of sample location:

N

W

LSASD Operating Procedures: LSASDPROC-302-R4 Waste Sampling []
LSASDPROC-201-R4 Surface Water Sampling []
LSASDPROC-200-R4 Sediment 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-L			
Metals / TCLP	8 oz / 1-L			

Split sample? Y or N

Sampling Investigation

Date: _____ Station ID: _____ Sample ID: _____

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

Duties

Sampler, Notes, Photos

Sampler

Sampler, GPS, Scribe

Description of sample location:

N

W

LSASD Operating Procedures: LSASDPROC-302-R4 Waste Sampling []
LSASDPROC-201-R4 Surface Water Sampling []
LSASDPROC-200-R4 Sediment 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-L			
Metals / TCLP	8 oz / 1-L			

Split sample? Y or N

Sampling Investigation

Date: _____ Station ID: _____ Sample ID: _____

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

Duties

Sampler, Notes, Photos

Sampler

Sampler, GPS, Scribe

Description of sample location:

N

W

LSASD Operating Procedures: LSASDPROC-302-R4 Waste Sampling []
LSASDPROC-201-R4 Surface Water Sampling []
LSASDPROC-200-R4 Sediment 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-L			
Metals / TCLP	8 oz / 1-L			

Split sample? Y or N

Sampling Investigation

Date: _____ Station ID: _____ Sample ID: _____

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

Duties

Sampler, Notes, Photos

Sampler

Sampler, GPS, Scribe

Description of sample location:

N

W

LSASD Operating Procedures: LSASDPROC-302-R4 Waste Sampling []
LSASDPROC-201-R4 Surface Water Sampling []
LSASDPROC-200-R4 Sediment 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-L			
Metals / TCLP	8 oz / 1-L			

Split sample? Y or N

Sampling Investigation

Date: _____ Station ID: _____ Sample ID: _____

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

Duties

Sampler, Notes, Photos

Sampler

Sampler, GPS, Scribe

Description of sample location:

N

W

LSASD Operating Procedures: LSASDPROC-302-R4 Waste Sampling []
LSASDPROC-201-R4 Surface Water Sampling []
LSASDPROC-200-R4 Sediment 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-L			
Metals / TCLP	8 oz / 1-L			

Split sample? Y or N

Sampling Investigation

Date: _____ Station ID: _____ Sample ID: _____

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

Duties

Sampler, Notes, Photos _____

Sampler _____

Sampler, GPS, Scribe _____

Description of sample location: _____ N _____ W

LSASD Operating Procedures: LSASDPROC-302-R4 Waste Sampling []
LSASDPROC-201-R4 Surface Water Sampling []
LSASDPROC-200-R4 Sediment 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-L			
Metals / TCLP	8 oz / 1-L			

Split sample? Y or N

Sampling Investigation

Date: _____ Station ID: _____ Sample ID: _____

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

Duties

Sampler, Notes, Photos

Sampler

Sampler, GPS, Scribe

Description of sample location:

N

W

LSASD Operating Procedures: LSASDPROC-302-R4 Waste Sampling []
LSASDPROC-201-R4 Surface Water Sampling []
LSASDPROC-200-R4 Sediment 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-L			
Metals / TCLP	8 oz / 1-L			

Split sample? Y or N

Sampling Investigation

Date: _____ Station ID: _____ Sample ID: _____

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

Duties

Sampler, Notes, Photos

Sampler

Sampler, GPS, Scribe

Description of sample location:

N

W

LSASD Operating Procedures: LSASDPROC-302-R4 Waste Sampling []
LSASDPROC-201-R4 Surface Water Sampling []
LSASDPROC-200-R4 Sediment 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-L			
Metals / TCLP	8 oz / 1-L			

Split sample? Y or N

Sampling Investigation

Date: _____ Station ID: _____ Sample ID: _____

Sample Team: [X] Paula Whiting

(Check, as appropriate) [X] Art Masters

[X] Mike Neill

Duties

Sampler, Notes, Photos

Sampler

Sampler, GPS, Scribe

Description of sample location:

N

W

LSASD Operating Procedures: LSASDPROC-302-R4 Waste Sampling []
LSASDPROC-201-R4 Surface Water Sampling []
LSASDPROC-200-R4 Sediment 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-L			
Metals / TCLP	8 oz / 1-L			

Split sample? Y or N

Sampling Investigation

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paw 12/1/21

Date: 12/1/21

Photo Log - Atlanta

- 1 - Sulfuric Acid totes beside frac tank
- 2 - Flocculant totes and sulfuric acid totes beside frac tank
- 3 - Inside view of frac tank
- 4 - " " " " "
- 5 - Pit filled w/ liquid and sediment
- 6 - " " " " "
- 7 - pH paper results of Sulfuric acid tote
- 8 - ASR solids pile left on site
- 9 - " " " " "
- 10 - Back side of ASR solids pile w/ high liquid content
- 11 - Pit w/ pole - Sample picture AWA01
- 12 - ASR solids pile overview pic - AWA02
- 13 - " " " " "
- 14 - ASR solids pile - composite location - AWA02
- 15 - " " " " "
- 16 - " " " " "
- 17 - " " " " "
- 18 - " " " " "
- 19 - " " " " "
- 20 - " " " " "
- 21 - " " " " "
- 22 - " " " " "
- 23 - Backside of ASR solids pile w/ high liquid content - AWA03
- 24 - " " " " "
- 25 - Offsite Property Corner w/ visible solid material - AWA04
- 26 - " " " " "

Final Notes

Date: 12/01/21 Greenville Photo Log

- 1- TAV Holdings Sign
- 2- Backside of Big Pond - seep from pond
- 3- " " " " " " "
- 4- " " " " " " "
- 5- " " " " " " "
- 6- Heel of large waste pile w/ seepage and ponding
- 7- " " " " " " "
- 8- Settlement (Settling) Pond 1 - mud area - GWA05
- 9- " " " " " " "
- 10- Big Pond Settling Swale - GWA06
- 11- Big Pond Settling Swale - Sample Location - GWA06
- 12- " " " " " " "
- 13- Big Pond - near inlet and ground seep - GWA07
- 14- " " " " " " "
- 15- " " " " " " "
- 16- " " " " " " "
- 17- " " " " " " " - close up
- 18- " " " " " " "
- 19- Big Pond seep @ top slope - ~~GWA~~ ^{per 12/01/21} GSW01
- 20- " " " " " " "
- 21- " " " " " " "
- 22- Big Pond seep @ toe slope seep path into wooded area
- 23- " " " " " " "
- 24- Ball Mill Settling Pond mud pile - GWA08
- 25- " " " " " " "
- 26- Big Waste Pile Toe Pond - GWA10 solids
- 27- Big Waste Pile Toe Pond - GWA11 liquids
- 28- " " " " " " "
- 29- " " " " " " "
- 30- Runway 1 Pile - heel pond and sediment collection - GWA12/ GWA13
- 31- " " " " " " "
- 32- Runway 1 pile - heel pond w/ sediment accumulation - GWA12
- 33- Runway 1 Pile backside
- 34- Runway 1 Pile - heel pond - GWA13

Appendix C – Receipt of Samples

USEPA Region 4 COC (REGION COPY)

Date Shipped:

Carrier Name:

Airbill No:

Receipt for Samples
CHAIN OF CUSTODY RECORD

TAV Holdings, Inc. - Greenville, GA/GA

Project ID: 22-0050

Cooler #:

No: 11/29/21-0002

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
GSW01		Surface Water/ Masters, Art	Grab	TMTL(45), TCLPM-TMTL(45)	A (HNO3 pH<2), B (2)	GS01	12/01/2021 12:00	Field Sample
GWA05		Waste/Masters, Art	Comp.	TMTL(45), TCLPM-TMTL(45)	A, B (2)	GWA05	12/01/2021 11:00	Field Sample
GWA06		Waste/Masters, Art	Comp.	TMTL(45), TCLPM-TMTL(45)	A, B (2)	GWA06	12/01/2021 11:15	Field Sample
GWA07		Waste/Masters, Art	Grab	TMTL(45), TCLPM-TMTL(45)	A, B (2)	GWA07	12/01/2021 11:30	Field Sample
GWA08		Waste/Masters, Art	Comp.	TMTL(45), TCLPM-TMTL(45)	A, B (2)	GWA08	12/01/2021 14:10	Field Sample
GWA09		Waste/Masters, Art	Comp.	TMTL(45), TCLPM-TMTL(45)	A, B (2)	GWA09	12/01/2021 14:30	Field Sample
GWA10		Waste/Masters, Art	Comp.	TMTL(45), TCLPM-TMTL(45)	A, B (2)	GWA10	12/01/2021 15:15	Field Sample
GWA11		Waste/Masters, Art	Grab	TMTL(45), TCLPM-TMTL(45)	A, B (2)	GWA11	12/01/2021 15:20	Field Sample
GWA12		Waste/Masters, Art	Grab	TMTL(45), TCLPM-TMTL(45)	A, B (2)	GWA12	12/01/2021 16:00	Field Sample
GWA13		Waste/Masters, Art	Grab	TMTL(45), TCLPM-TMTL(45)	A, B (2)	GWA13	12/01/2021 16:10	Field Sample

Special Instructions:

Shipment for Case Complete? Y

Samples Transferred From Chain of Custody #

Analysis Key: TMTL=(TMTL) Total Metals (Superfund, RCRA), TCLPM-TMTL=(TCLPM-TMTL) TCLP + TMTL (No Hg)

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
20 CONT. Rule 156 USEPA		12/01/21 1655	<i>[Signature]</i> TAV Holdings, Inc.	12/1/21 1658	good

Receipt for Samples
CHAIN OF CUSTODY RECORD

USEPA Region 4 COC (REGION COPY)

DateShipped:

CarrierName:

AirbillNo:

No: 11/29/21-0001

Lab: Region 4 Lab

Lab Contact: Mike Beall

Lab Phone: 706-355-8856

TAV Holdings, Inc. - [REDACTED]

Project ID: 22-0050

Cooler #:

[illegible]

Special Instructions:

Analysis Key: TMTL=(TMTL) Total Metals (Superfund, RCRA), TCLPM-TMTL=(TCLPM-TMTL) TCLP + TMTL (No Hg)

Shipment for Case Complete? Y

Samples Transferred From Chain of Custody #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
Bjars	Blair White, USEPA	11/30/21 14:18	[Signature] TAV 317-857-8596	11-30-21 14:26	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: 22-0050

Project: 22-0050, TAV Holdings, Inc. - Greenville, GA - Reported by Stephanie McCarthy

January 19, 2022

MEMORANDUM

SUBJECT: FINAL Analytical Report
Project: 22-0050, TAV Holdings, Inc. - Greenville, GA

FROM: Stephanie McCarthy
LSB Inorganic Chemistry Section Chief

THRU: John Deatrck, 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:

Total Metals (TMTL)

Total Metals	EPA 200.8 (Waste)	ISO
Total Metals	EPA 200.8 (Water)	ISO/DW
Total Metals	EPA 6010 (Waste)	ISO
Total Metals	EPA 6010 (Water)	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: 22-0050

Project: 22-0050, TAV Holdings, Inc. - Greenville, GA - Reported by Stephanie McCarthy

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: 22-0050

Project: 22-0050, TAV Holdings, Inc. - Greenville, GA - Reported by Stephanie McCarthy

SAMPLES INCLUDED IN THIS REPORT

Project: 22-0050, TAV Holdings, Inc. - Greenville, GA

Sample ID	Laboratory ID	Matrix	Date Collected	Date Received
AWA01	E214903-01	Waste	11/30/21 12:50	12/2/21 8:40
AWA02	E214903-02	Waste	11/30/21 13:10	12/2/21 8:40
AWA03	E214903-03	Waste	11/30/21 13:45	12/2/21 8:40
AWA04	E214903-04	Waste	11/30/21 14:00	12/2/21 8:40
GSW01	E214904-01	Surface Water	12/1/21 12:00	12/2/21 8:40
GWA05	E214904-02	Waste	12/1/21 11:00	12/2/21 8:40
GWA06	E214904-03	Waste	12/1/21 11:15	12/2/21 8:40
GWA07	E214904-04	Waste	12/1/21 11:30	12/2/21 8:40
GWA08	E214904-05	Waste	12/1/21 14:10	12/2/21 8:40
GWA09	E214904-06	Waste	12/1/21 14:30	12/2/21 8:40
GWA10	E214904-07	Waste	12/1/21 15:15	12/2/21 8:40
GWA11	E214904-08	Waste	12/1/21 15:20	12/2/21 8:40
GWA12	E214904-09	Waste	12/1/21 16:00	12/2/21 8:40
GWA13	E214904-10	Waste	12/1/21 16:10	12/2/21 8:40



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: 22-0050

Project: 22-0050, TAV Holdings, Inc. - Greenville, GA - Reported by Stephanie McCarthy

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.
D-4	MRL elevated due to interferences.
J	The identification of the analyte is acceptable; the reported value is an estimate.
QC-1	Analyte concentration low in continuing calibration verification standard
QC-2	Analyte concentration high in continuing calibration verification standard
QC-4	Result greater than the highest point on the calibration curve
QI-1	Internal standard was outside of 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



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: 22-0050

Project: 22-0050, TAV Holdings, Inc. - Greenville, GA - Reported by Stephanie McCarthy

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: 22-0050

Project: 22-0050, TAV Holdings, Inc. - Greenville, GA - Reported by Stephanie McCarthy

Total Metals

Project: 22-0050, TAV Holdings, Inc. - Greenville, GA

Sample ID: AWA01

Lab ID: E214903-01

Station ID: AWA01

Matrix: Waste

Date Collected: 11/30/21 12:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7429-90-5	Aluminum	18000		mg/kg	86	12/15/21 12:17	1/04/22 12:15	EPA 6010
7440-36-0	Antimony	9.5		mg/kg	0.17	12/15/21 12:23	12/29/21 18:42	EPA 200.8
7440-38-2	Arsenic	2.4		mg/kg	0.17	12/15/21 12:23	12/29/21 18:42	EPA 200.8
7440-39-3	Barium	800		mg/kg	4.3	12/15/21 12:17	1/04/22 12:15	EPA 6010
7440-41-7	Beryllium	2.6	U	mg/kg	2.6	12/15/21 12:17	1/04/22 12:15	EPA 6010
7440-43-9	Cadmium	7.5		mg/kg	0.086	12/15/21 12:23	12/29/21 18:42	EPA 200.8
7440-70-2	Calcium	15000		mg/kg	210	12/15/21 12:17	1/04/22 12:15	EPA 6010
7440-47-3	Chromium	88		mg/kg	4.3	12/15/21 12:17	1/04/22 12:15	EPA 6010
7440-48-4	Cobalt	12		mg/kg	4.3	12/15/21 12:17	1/04/22 12:15	EPA 6010
7440-50-8	Copper	5900		mg/kg	8.6	12/15/21 12:17	1/04/22 12:15	EPA 6010
7439-89-6	Iron	23000		mg/kg	86	12/15/21 12:17	1/04/22 12:15	EPA 6010
7439-92-1	Lead	320		mg/kg	1.7	12/15/21 12:23	12/29/21 18:53	EPA 200.8
7439-95-4	Magnesium	4100		mg/kg	210	12/15/21 12:17	1/04/22 12:15	EPA 6010
7439-96-5	Manganese	530		mg/kg	4.3	12/15/21 12:17	1/04/22 12:15	EPA 6010
7439-98-7	Molybdenum	8.6	U	mg/kg	8.6	12/15/21 12:17	1/04/22 12:15	EPA 6010
7440-02-0	Nickel	120		mg/kg	8.6	12/15/21 12:17	1/04/22 12:15	EPA 6010
7440-09-7	Potassium	860	U	mg/kg	860	12/15/21 12:17	1/04/22 12:15	EPA 6010
7782-49-2	Selenium	0.34	U	mg/kg	0.34	12/15/21 12:23	12/29/21 18:42	EPA 200.8
7440-22-4	Silver	8.4		mg/kg	4.3	12/15/21 12:17	1/04/22 12:15	EPA 6010
7440-23-5	Sodium	860	U	mg/kg	860	12/15/21 12:17	1/04/22 12:15	EPA 6010
7440-24-6	Strontium	60		mg/kg	4.3	12/15/21 12:17	1/04/22 12:15	EPA 6010
7440-28-0	Thallium	0.17	U	mg/kg	0.17	12/15/21 12:23	12/29/21 18:42	EPA 200.8
7440-31-5	Tin	110		mg/kg	13	12/15/21 12:17	1/04/22 12:15	EPA 6010
7440-32-6	Titanium	140	J, QC-1	mg/kg	4.3	12/15/21 12:17	1/04/22 12:15	EPA 6010
7440-62-2	Vanadium	11		mg/kg	4.3	12/15/21 12:17	1/04/22 12:15	EPA 6010
7440-65-5	Yttrium	2.6	U	mg/kg	2.6	12/15/21 12:17	1/04/22 12:15	EPA 6010
7440-66-6	Zinc	4100		mg/kg	8.6	12/15/21 12:17	1/04/22 12:15	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: 22-0050

Project: 22-0050, TAV Holdings, Inc. - Greenville, GA - Reported by Stephanie McCarthy

Total Metals

Project: 22-0050, TAV Holdings, Inc. - Greenville, GA

Sample ID: AWA02

Lab ID: E214903-02

Station ID: AWA02

Matrix: Waste

Date Collected: 11/30/21 13:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7429-90-5	Aluminum	42000		mg/kg	410	12/15/21 12:17	1/04/22 12:18	EPA 6010
7440-36-0	Antimony	14		mg/kg	0.20	12/15/21 12:23	12/29/21 18:58	EPA 200.8
7440-38-2	Arsenic	3.0		mg/kg	0.20	12/15/21 12:23	12/29/21 18:58	EPA 200.8
7440-39-3	Barium	660		mg/kg	20	12/15/21 12:17	1/04/22 12:18	EPA 6010
7440-41-7	Beryllium	12	U	mg/kg	12	12/15/21 12:17	1/04/22 12:18	EPA 6010
7440-43-9	Cadmium	10		mg/kg	0.10	12/15/21 12:23	12/29/21 18:58	EPA 200.8
7440-70-2	Calcium	35000		mg/kg	1000	12/15/21 12:17	1/04/22 12:18	EPA 6010
7440-47-3	Chromium	190		mg/kg	20	12/15/21 12:17	1/04/22 12:18	EPA 6010
7440-48-4	Cobalt	20	U	mg/kg	20	12/15/21 12:17	1/04/22 12:18	EPA 6010
7440-50-8	Copper	67000		mg/kg	41	12/15/21 12:17	1/04/22 12:18	EPA 6010
7439-89-6	Iron	31000		mg/kg	410	12/15/21 12:17	1/04/22 12:18	EPA 6010
7439-92-1	Lead	2800		mg/kg	10	12/15/21 12:23	12/29/21 19:09	EPA 200.8
7439-95-4	Magnesium	9700		mg/kg	1000	12/15/21 12:17	1/04/22 12:18	EPA 6010
7439-96-5	Manganese	630		mg/kg	20	12/15/21 12:17	1/04/22 12:18	EPA 6010
7439-98-7	Molybdenum	41	U	mg/kg	41	12/15/21 12:17	1/04/22 12:18	EPA 6010
7440-02-0	Nickel	250		mg/kg	41	12/15/21 12:17	1/04/22 12:18	EPA 6010
7440-09-7	Potassium	4100	U	mg/kg	4100	12/15/21 12:17	1/04/22 12:18	EPA 6010
7782-49-2	Selenium	0.41	U	mg/kg	0.41	12/15/21 12:23	12/29/21 18:58	EPA 200.8
7440-22-4	Silver	20	U	mg/kg	20	12/15/21 12:17	1/04/22 12:18	EPA 6010
7440-23-5	Sodium	4100	U	mg/kg	4100	12/15/21 12:17	1/04/22 12:18	EPA 6010
7440-24-6	Strontium	98		mg/kg	20	12/15/21 12:17	1/04/22 12:18	EPA 6010
7440-28-0	Thallium	0.20	U	mg/kg	0.20	12/15/21 12:23	12/29/21 18:58	EPA 200.8
7440-31-5	Tin	95		mg/kg	61	12/15/21 12:17	1/04/22 12:18	EPA 6010
7440-32-6	Titanium	130	J, QC-1	mg/kg	20	12/15/21 12:17	1/04/22 12:18	EPA 6010
7440-62-2	Vanadium	20	U	mg/kg	20	12/15/21 12:17	1/04/22 12:18	EPA 6010
7440-65-5	Yttrium	12	U	mg/kg	12	12/15/21 12:17	1/04/22 12:18	EPA 6010
7440-66-6	Zinc	7300		mg/kg	41	12/15/21 12:17	1/04/22 12:18	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: 22-0050

Project: 22-0050, TAV Holdings, Inc. - Greenville, GA - Reported by Stephanie McCarthy

Total Metals

Project: 22-0050, TAV Holdings, Inc. - Greenville, GA

Sample ID: AWA03

Lab ID: E214903-03

Station ID: AWA03

Matrix: Waste

Date Collected: 11/30/21 13:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7429-90-5	Aluminum	26000		mg/kg	79	12/15/21 12:17	1/04/22 12:20	EPA 6010
7440-36-0	Antimony	11		mg/kg	0.16	12/15/21 12:23	12/29/21 19:26	EPA 200.8
7440-38-2	Arsenic	2.7		mg/kg	0.16	12/15/21 12:23	12/29/21 19:26	EPA 200.8
7440-39-3	Barium	630		mg/kg	3.9	12/15/21 12:17	1/04/22 12:20	EPA 6010
7440-41-7	Beryllium	2.4	U	mg/kg	2.4	12/15/21 12:17	1/04/22 12:20	EPA 6010
7440-43-9	Cadmium	10		mg/kg	0.079	12/15/21 12:23	12/29/21 19:26	EPA 200.8
7440-70-2	Calcium	14000		mg/kg	200	12/15/21 12:17	1/04/22 12:20	EPA 6010
7440-47-3	Chromium	78		mg/kg	3.9	12/15/21 12:17	1/04/22 12:20	EPA 6010
7440-48-4	Cobalt	13		mg/kg	3.9	12/15/21 12:17	1/04/22 12:20	EPA 6010
7440-50-8	Copper	6900		mg/kg	7.9	12/15/21 12:17	1/04/22 12:20	EPA 6010
7439-89-6	Iron	20000		mg/kg	79	12/15/21 12:17	1/04/22 12:20	EPA 6010
7439-92-1	Lead	1200		mg/kg	7.9	12/15/21 12:23	12/29/21 19:37	EPA 200.8
7439-95-4	Magnesium	4600		mg/kg	200	12/15/21 12:17	1/04/22 12:20	EPA 6010
7439-96-5	Manganese	460		mg/kg	3.9	12/15/21 12:17	1/04/22 12:20	EPA 6010
7439-98-7	Molybdenum	7.9	U	mg/kg	7.9	12/15/21 12:17	1/04/22 12:20	EPA 6010
7440-02-0	Nickel	130		mg/kg	7.9	12/15/21 12:17	1/04/22 12:20	EPA 6010
7440-09-7	Potassium	2000		mg/kg	790	12/15/21 12:17	1/04/22 12:20	EPA 6010
7782-49-2	Selenium	0.31	U	mg/kg	0.31	12/15/21 12:23	12/29/21 19:26	EPA 200.8
7440-22-4	Silver	9.9		mg/kg	3.9	12/15/21 12:17	1/04/22 12:20	EPA 6010
7440-23-5	Sodium	1600		mg/kg	790	12/15/21 12:17	1/04/22 12:20	EPA 6010
7440-24-6	Strontium	79		mg/kg	3.9	12/15/21 12:17	1/04/22 12:20	EPA 6010
7440-28-0	Thallium	0.16	U	mg/kg	0.16	12/15/21 12:23	12/29/21 19:26	EPA 200.8
7440-31-5	Tin	140		mg/kg	12	12/15/21 12:17	1/04/22 12:20	EPA 6010
7440-32-6	Titanium	310	J, QC-1	mg/kg	3.9	12/15/21 12:17	1/04/22 12:20	EPA 6010
7440-62-2	Vanadium	15		mg/kg	3.9	12/15/21 12:17	1/04/22 12:20	EPA 6010
7440-65-5	Yttrium	2.4		mg/kg	2.4	12/15/21 12:17	1/04/22 12:20	EPA 6010
7440-66-6	Zinc	4000		mg/kg	7.9	12/15/21 12:17	1/04/22 12:20	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: 22-0050

Project: 22-0050, TAV Holdings, Inc. - Greenville, GA - Reported by Stephanie McCarthy

Total Metals

Project: 22-0050, TAV Holdings, Inc. - Greenville, GA

Sample ID: AWA04

Lab ID: E214903-04

Station ID: AWA04

Matrix: Waste

Date Collected: 11/30/21 14:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7429-90-5	Aluminum	34000		mg/kg	150	12/15/21 12:17	1/04/22 12:23	EPA 6010
7440-36-0	Antimony	13	J, QM-1	mg/kg	0.13	12/15/21 12:23	12/29/21 19:42	EPA 200.8
7440-38-2	Arsenic	2.1	J, QM-1	mg/kg	0.13	12/15/21 12:23	12/29/21 19:42	EPA 200.8
7440-39-3	Barium	330		mg/kg	7.7	12/15/21 12:17	1/04/22 12:23	EPA 6010
7440-41-7	Beryllium	4.6	U	mg/kg	4.6	12/15/21 12:17	1/04/22 12:23	EPA 6010
7440-43-9	Cadmium	14	J, QM-1	mg/kg	0.064	12/15/21 12:23	12/29/21 19:42	EPA 200.8
7440-70-2	Calcium	28000		mg/kg	380	12/15/21 12:17	1/04/22 12:23	EPA 6010
7440-47-3	Chromium	150	J, QM-1, QM-2, QM-3	mg/kg	7.7	12/15/21 12:17	1/04/22 12:23	EPA 6010
7440-48-4	Cobalt	18	J, QM-2, QM-3	mg/kg	7.7	12/15/21 12:17	1/04/22 12:23	EPA 6010
7440-50-8	Copper	13000	QM-3	mg/kg	15	12/15/21 12:17	1/04/22 12:23	EPA 6010
7439-89-6	Iron	25000		mg/kg	150	12/15/21 12:17	1/04/22 12:23	EPA 6010
7439-92-1	Lead	2500		mg/kg	6.4	12/15/21 12:23	12/29/21 20:15	EPA 200.8
7439-95-4	Magnesium	5900		mg/kg	380	12/15/21 12:17	1/04/22 12:23	EPA 6010
7439-96-5	Manganese	750		mg/kg	7.7	12/15/21 12:17	1/04/22 12:23	EPA 6010
7439-98-7	Molybdenum	15	U, J, QM-1	mg/kg	15	12/15/21 12:17	1/04/22 12:23	EPA 6010
7440-02-0	Nickel	240	J, QM-1, QM-2, QM-3	mg/kg	15	12/15/21 12:17	1/04/22 12:23	EPA 6010
7440-09-7	Potassium	1500	U, J, QM-2	mg/kg	1500	12/15/21 12:17	1/04/22 12:23	EPA 6010
7782-49-2	Selenium	0.26	U, J, QM-1, QM-3	mg/kg	0.26	12/15/21 12:23	12/29/21 19:42	EPA 200.8
7440-22-4	Silver	14	J, QM-2	mg/kg	7.7	12/15/21 12:17	1/04/22 12:23	EPA 6010
7440-23-5	Sodium	1500	U, J, QM-1	mg/kg	1500	12/15/21 12:17	1/04/22 12:23	EPA 6010
7440-24-6	Strontium	96	J, QM-2	mg/kg	7.7	12/15/21 12:17	1/04/22 12:23	EPA 6010
7440-28-0	Thallium	0.13	U	mg/kg	0.13	12/15/21 12:23	12/29/21 19:42	EPA 200.8
7440-31-5	Tin	58	J, QM-2	mg/kg	23	12/15/21 12:17	1/04/22 12:23	EPA 6010
7440-32-6	Titanium	97	J, QC-1, QM-2	mg/kg	7.7	12/15/21 12:17	1/04/22 12:23	EPA 6010
7440-62-2	Vanadium	7.7	U	mg/kg	7.7	12/15/21 12:17	1/04/22 12:23	EPA 6010
7440-65-5	Yttrium	4.6	U	mg/kg	4.6	12/15/21 12:17	1/04/22 12:23	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: 22-0050

Project: 22-0050, TAV Holdings, Inc. - Greenville, GA - Reported by Stephanie McCarthy

Total Metals

Project: 22-0050, TAV Holdings, Inc. - Greenville, GA

Sample ID: AWA04

Lab ID: E214903-04

Station ID: AWA04

Matrix: Waste

Date Collected: 11/30/21 14:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-66-6	Zinc	5800		mg/kg	15	12/15/21 12:17	1/04/22 12:23	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: 22-0050

Project: 22-0050, TAV Holdings, Inc. - Greenville, GA - Reported by Stephanie McCarthy

Total Metals

Project: 22-0050, TAV Holdings, Inc. - Greenville, GA

Sample ID: GSW01

Lab ID: E214904-01

Station ID: GS01

Matrix: Surface Water

Date Collected: 12/1/21 12:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7429-90-5	Aluminum	38000		ug/L	1000	12/14/21 10:19	12/15/21 17:26	EPA 6010
7440-36-0	Antimony	0.63		ug/L	0.50	12/14/21 10:22	12/16/21 2:25	EPA 200.8
7440-38-2	Arsenic	4.5		ug/L	0.50	12/14/21 10:22	12/16/21 2:25	EPA 200.8
7440-39-3	Barium	470		ug/L	50	12/14/21 10:19	12/15/21 17:26	EPA 6010
7440-41-7	Beryllium	30	U	ug/L	30	12/14/21 10:19	12/15/21 17:26	EPA 6010
7440-43-9	Cadmium	0.25	U	ug/L	0.25	12/14/21 10:22	12/16/21 2:25	EPA 200.8
7440-70-2	Calcium	75000		ug/L	2500	12/14/21 10:19	12/15/21 17:26	EPA 6010
7440-47-3	Chromium	70		ug/L	50	12/14/21 10:19	12/15/21 17:26	EPA 6010
7440-48-4	Cobalt	61		ug/L	50	12/14/21 10:19	12/15/21 17:26	EPA 6010
7440-50-8	Copper	100	U	ug/L	100	12/14/21 10:19	12/15/21 17:26	EPA 6010
7439-89-6	Iron	120000		ug/L	1000	12/14/21 10:19	12/15/21 17:26	EPA 6010
7439-92-1	Lead	36		ug/L	0.50	12/14/21 10:22	12/16/21 2:25	EPA 200.8
7439-95-4	Magnesium	37000		ug/L	2500	12/14/21 10:19	12/15/21 17:26	EPA 6010
7439-96-5	Manganese	12000		ug/L	50	12/14/21 10:19	12/15/21 17:26	EPA 6010
7439-98-7	Molybdenum	100	U	ug/L	100	12/14/21 10:19	12/15/21 17:26	EPA 6010
7440-02-0	Nickel	100	U	ug/L	100	12/14/21 10:19	12/15/21 17:26	EPA 6010
7440-09-7	Potassium	43000		ug/L	10000	12/14/21 10:19	12/15/21 17:26	EPA 6010
7782-49-2	Selenium	1.9		ug/L	1.0	12/14/21 10:22	12/16/21 2:25	EPA 200.8
7440-22-4	Silver	50	U	ug/L	50	12/14/21 10:19	12/15/21 17:26	EPA 6010
7440-23-5	Sodium	290000		ug/L	10000	12/14/21 10:19	12/15/21 17:26	EPA 6010
7440-24-6	Strontium	530		ug/L	50	12/14/21 10:19	12/15/21 17:26	EPA 6010
7440-28-0	Thallium	1.0		ug/L	0.50	12/14/21 10:22	12/16/21 2:25	EPA 200.8
7440-31-5	Tin	150	U	ug/L	150	12/14/21 10:19	12/15/21 17:26	EPA 6010
7440-32-6	Titanium	2100		ug/L	50	12/14/21 10:19	12/15/21 17:26	EPA 6010
7440-62-2	Vanadium	120		ug/L	50	12/14/21 10:19	12/15/21 17:26	EPA 6010
7440-65-5	Yttrium	30	U	ug/L	30	12/14/21 10:19	12/15/21 17:26	EPA 6010
7440-66-6	Zinc	120		ug/L	100	12/14/21 10:19	12/15/21 17:26	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: 22-0050

Project: 22-0050, TAV Holdings, Inc. - Greenville, GA - Reported by Stephanie McCarthy

Total Metals

Project: 22-0050, TAV Holdings, Inc. - Greenville, GA

Sample ID: GWA05

Lab ID: E214904-02

Station ID: GWA05

Matrix: Waste

Date Collected: 12/1/21 11:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7429-90-5	Aluminum	16000		mg/kg	130	12/15/21 12:17	1/04/22 12:51	EPA 6010
7440-36-0	Antimony	6.8		mg/kg	0.13	12/15/21 12:23	12/29/21 20:43	EPA 200.8
7440-38-2	Arsenic	2.3		mg/kg	0.13	12/15/21 12:23	12/29/21 20:43	EPA 200.8
7440-39-3	Barium	470		mg/kg	6.7	12/15/21 12:17	1/04/22 12:51	EPA 6010
7440-41-7	Beryllium	4.0	U	mg/kg	4.0	12/15/21 12:17	1/04/22 12:51	EPA 6010
7440-43-9	Cadmium	16		mg/kg	0.067	12/15/21 12:23	12/29/21 20:43	EPA 200.8
7440-70-2	Calcium	14000		mg/kg	340	12/15/21 12:17	1/04/22 12:51	EPA 6010
7440-47-3	Chromium	110		mg/kg	6.7	12/15/21 12:17	1/04/22 12:51	EPA 6010
7440-48-4	Cobalt	20		mg/kg	6.7	12/15/21 12:17	1/04/22 12:51	EPA 6010
7440-50-8	Copper	1500		mg/kg	13	12/15/21 12:17	1/04/22 12:51	EPA 6010
7439-89-6	Iron	33000		mg/kg	130	12/15/21 12:17	1/04/22 12:51	EPA 6010
7439-92-1	Lead	1400		mg/kg	6.7	12/15/21 12:23	12/29/21 20:54	EPA 200.8
7439-95-4	Magnesium	2600		mg/kg	340	12/15/21 12:17	1/04/22 12:51	EPA 6010
7439-96-5	Manganese	690		mg/kg	6.7	12/15/21 12:17	1/04/22 12:51	EPA 6010
7439-98-7	Molybdenum	13	U	mg/kg	13	12/15/21 12:17	1/04/22 12:51	EPA 6010
7440-02-0	Nickel	140		mg/kg	13	12/15/21 12:17	1/04/22 12:51	EPA 6010
7440-09-7	Potassium	1300	U	mg/kg	1300	12/15/21 12:17	1/04/22 12:51	EPA 6010
7782-49-2	Selenium	0.27	U	mg/kg	0.27	12/15/21 12:23	12/29/21 20:43	EPA 200.8
7440-22-4	Silver	6.7	U	mg/kg	6.7	12/15/21 12:17	1/04/22 12:51	EPA 6010
7440-23-5	Sodium	1300	U, J, QC-2	mg/kg	1300	12/15/21 12:17	1/04/22 12:51	EPA 6010
7440-24-6	Strontium	75		mg/kg	6.7	12/15/21 12:17	1/04/22 12:51	EPA 6010
7440-28-0	Thallium	0.13	U	mg/kg	0.13	12/15/21 12:23	12/29/21 20:43	EPA 200.8
7440-31-5	Tin	38		mg/kg	20	12/15/21 12:17	1/04/22 12:51	EPA 6010
7440-32-6	Titanium	140		mg/kg	6.7	12/15/21 12:17	1/04/22 12:51	EPA 6010
7440-62-2	Vanadium	12		mg/kg	6.7	12/15/21 12:17	1/04/22 12:51	EPA 6010
7440-65-5	Yttrium	4.0	U	mg/kg	4.0	12/15/21 12:17	1/04/22 12:51	EPA 6010
7440-66-6	Zinc	9200		mg/kg	13	12/15/21 12:17	1/04/22 12:51	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: 22-0050

Project: 22-0050, TAV Holdings, Inc. - Greenville, GA - Reported by Stephanie McCarthy

Total Metals

Project: 22-0050, TAV Holdings, Inc. - Greenville, GA

Sample ID: GWA06

Lab ID: E214904-03

Station ID: GWA06

Matrix: Waste

Date Collected: 12/1/21 11:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7429-90-5	Aluminum	15000		mg/kg	140	12/15/21 12:17	1/04/22 12:54	EPA 6010
7440-36-0	Antimony	7.4		mg/kg	0.14	12/15/21 12:23	12/29/21 20:59	EPA 200.8
7440-38-2	Arsenic	2.6		mg/kg	0.14	12/15/21 12:23	12/29/21 20:59	EPA 200.8
7440-39-3	Barium	410		mg/kg	7.2	12/15/21 12:17	1/04/22 12:54	EPA 6010
7440-41-7	Beryllium	4.3	U	mg/kg	4.3	12/15/21 12:17	1/04/22 12:54	EPA 6010
7440-43-9	Cadmium	26		mg/kg	0.072	12/15/21 12:23	12/29/21 20:59	EPA 200.8
7440-70-2	Calcium	15000		mg/kg	360	12/15/21 12:17	1/04/22 12:54	EPA 6010
7440-47-3	Chromium	100		mg/kg	7.2	12/15/21 12:17	1/04/22 12:54	EPA 6010
7440-48-4	Cobalt	19		mg/kg	7.2	12/15/21 12:17	1/04/22 12:54	EPA 6010
7440-50-8	Copper	3900		mg/kg	14	12/15/21 12:17	1/04/22 12:54	EPA 6010
7439-89-6	Iron	33000		mg/kg	140	12/15/21 12:17	1/04/22 12:54	EPA 6010
7439-92-1	Lead	27		mg/kg	0.14	12/15/21 12:23	12/29/21 21:10	EPA 200.8
7439-95-4	Magnesium	2800		mg/kg	360	12/15/21 12:17	1/04/22 12:54	EPA 6010
7439-96-5	Manganese	800		mg/kg	7.2	12/15/21 12:17	1/04/22 12:54	EPA 6010
7439-98-7	Molybdenum	14	U	mg/kg	14	12/15/21 12:17	1/04/22 12:54	EPA 6010
7440-02-0	Nickel	150		mg/kg	14	12/15/21 12:17	1/04/22 12:54	EPA 6010
7440-09-7	Potassium	1400	U	mg/kg	1400	12/15/21 12:17	1/04/22 12:54	EPA 6010
7782-49-2	Selenium	0.29	U	mg/kg	0.29	12/15/21 12:23	12/29/21 20:59	EPA 200.8
7440-22-4	Silver	7.3		mg/kg	7.2	12/15/21 12:17	1/04/22 12:54	EPA 6010
7440-23-5	Sodium	1400	U, J, QC-2	mg/kg	1400	12/15/21 12:17	1/04/22 12:54	EPA 6010
7440-24-6	Strontium	83		mg/kg	7.2	12/15/21 12:17	1/04/22 12:54	EPA 6010
7440-28-0	Thallium	0.14	U	mg/kg	0.14	12/15/21 12:23	12/29/21 20:59	EPA 200.8
7440-31-5	Tin	55		mg/kg	22	12/15/21 12:17	1/04/22 12:54	EPA 6010
7440-32-6	Titanium	160		mg/kg	7.2	12/15/21 12:17	1/04/22 12:54	EPA 6010
7440-62-2	Vanadium	11		mg/kg	7.2	12/15/21 12:17	1/04/22 12:54	EPA 6010
7440-65-5	Yttrium	4.3	U	mg/kg	4.3	12/15/21 12:17	1/04/22 12:54	EPA 6010
7440-66-6	Zinc	7600		mg/kg	14	12/15/21 12:17	1/04/22 12:54	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: 22-0050

Project: 22-0050, TAV Holdings, Inc. - Greenville, GA - Reported by Stephanie McCarthy

Total Metals

Project: 22-0050, TAV Holdings, Inc. - Greenville, GA

Sample ID: GWA07

Lab ID: E214904-04

Station ID: GWA07

Matrix: Waste

Date Collected: 12/1/21 11:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7429-90-5	Aluminum	13000		mg/kg	44	12/15/21 12:17	1/04/22 12:56	EPA 6010
7440-36-0	Antimony	0.18		mg/kg	0.15	12/15/21 12:23	12/29/21 21:16	EPA 200.8
7440-38-2	Arsenic	0.21		mg/kg	0.15	12/15/21 12:23	12/29/21 21:16	EPA 200.8
7440-39-3	Barium	120		mg/kg	2.2	12/15/21 12:17	1/04/22 12:56	EPA 6010
7440-41-7	Beryllium	1.3	U	mg/kg	1.3	12/15/21 12:17	1/04/22 12:56	EPA 6010
7440-43-9	Cadmium	0.34		mg/kg	0.074	12/15/21 12:23	12/29/21 21:16	EPA 200.8
7440-70-2	Calcium	330		mg/kg	110	12/15/21 12:17	1/04/22 12:56	EPA 6010
7440-47-3	Chromium	15		mg/kg	2.2	12/15/21 12:17	1/04/22 12:56	EPA 6010
7440-48-4	Cobalt	7.5		mg/kg	2.2	12/15/21 12:17	1/04/22 12:56	EPA 6010
7440-50-8	Copper	39		mg/kg	4.4	12/15/21 12:17	1/04/22 12:56	EPA 6010
7439-89-6	Iron	16000		mg/kg	44	12/15/21 12:17	1/04/22 12:56	EPA 6010
7439-92-1	Lead	38		mg/kg	0.15	12/15/21 12:23	12/29/21 21:16	EPA 200.8
7439-95-4	Magnesium	3300		mg/kg	110	12/15/21 12:17	1/04/22 12:56	EPA 6010
7439-96-5	Manganese	240		mg/kg	2.2	12/15/21 12:17	1/04/22 12:56	EPA 6010
7439-98-7	Molybdenum	4.4	U	mg/kg	4.4	12/15/21 12:17	1/04/22 12:56	EPA 6010
7440-02-0	Nickel	26		mg/kg	4.4	12/15/21 12:17	1/04/22 12:56	EPA 6010
7440-09-7	Potassium	4500		mg/kg	440	12/15/21 12:17	1/04/22 12:56	EPA 6010
7782-49-2	Selenium	0.59	U, D-4	mg/kg	0.59	12/15/21 12:23	12/29/21 21:16	EPA 200.8
7440-22-4	Silver	2.2	U	mg/kg	2.2	12/15/21 12:17	1/04/22 12:56	EPA 6010
7440-23-5	Sodium	440	U, J, QC-2	mg/kg	440	12/15/21 12:17	1/04/22 12:56	EPA 6010
7440-24-6	Strontium	6.9		mg/kg	2.2	12/15/21 12:17	1/04/22 12:56	EPA 6010
7440-28-0	Thallium	0.29		mg/kg	0.15	12/15/21 12:23	12/29/21 21:16	EPA 200.8
7440-31-5	Tin	6.7	U	mg/kg	6.7	12/15/21 12:17	1/04/22 12:56	EPA 6010
7440-32-6	Titanium	1000	J, QC-4	mg/kg	2.2	12/15/21 12:17	1/04/22 12:56	EPA 6010
7440-62-2	Vanadium	29		mg/kg	2.2	12/15/21 12:17	1/04/22 12:56	EPA 6010
7440-65-5	Yttrium	3.9		mg/kg	1.3	12/15/21 12:17	1/04/22 12:56	EPA 6010
7440-66-6	Zinc	200		mg/kg	4.4	12/15/21 12:17	1/04/22 12:56	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: 22-0050

Project: 22-0050, TAV Holdings, Inc. - Greenville, GA - Reported by Stephanie McCarthy

Total Metals

Project: 22-0050, TAV Holdings, Inc. - Greenville, GA

Sample ID: GWA08

Lab ID: E214904-05

Station ID: GWA08

Matrix: Waste

Date Collected: 12/1/21 14:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7429-90-5	Aluminum	17000		mg/kg	130	12/15/21 12:17	1/04/22 13:02	EPA 6010
7440-36-0	Antimony	19		mg/kg	0.17	12/15/21 12:23	12/29/21 21:32	EPA 200.8
7440-38-2	Arsenic	2.9		mg/kg	0.17	12/15/21 12:23	12/29/21 21:32	EPA 200.8
7440-39-3	Barium	610		mg/kg	6.7	12/15/21 12:17	1/04/22 13:02	EPA 6010
7440-41-7	Beryllium	4.0	U	mg/kg	4.0	12/15/21 12:17	1/04/22 13:02	EPA 6010
7440-43-9	Cadmium	25		mg/kg	0.084	12/15/21 12:23	12/29/21 21:32	EPA 200.8
7440-70-2	Calcium	20000		mg/kg	330	12/15/21 12:17	1/04/22 13:02	EPA 6010
7440-47-3	Chromium	190		mg/kg	6.7	12/15/21 12:17	1/04/22 13:02	EPA 6010
7440-48-4	Cobalt	19		mg/kg	6.7	12/15/21 12:17	1/04/22 13:02	EPA 6010
7440-50-8	Copper	5100		mg/kg	13	12/15/21 12:17	1/04/22 13:02	EPA 6010
7439-89-6	Iron	44000		mg/kg	130	12/15/21 12:17	1/04/22 13:02	EPA 6010
7439-92-1	Lead	2500		mg/kg	8.4	12/15/21 12:23	12/29/21 21:43	EPA 200.8
7439-95-4	Magnesium	4000		mg/kg	330	12/15/21 12:17	1/04/22 13:02	EPA 6010
7439-96-5	Manganese	1300		mg/kg	6.7	12/15/21 12:17	1/04/22 13:02	EPA 6010
7439-98-7	Molybdenum	13	U	mg/kg	13	12/15/21 12:17	1/04/22 13:02	EPA 6010
7440-02-0	Nickel	230		mg/kg	13	12/15/21 12:17	1/04/22 13:02	EPA 6010
7440-09-7	Potassium	1300	U	mg/kg	1300	12/15/21 12:17	1/04/22 13:02	EPA 6010
7782-49-2	Selenium	0.33	U	mg/kg	0.33	12/15/21 12:23	12/29/21 21:32	EPA 200.8
7440-22-4	Silver	13		mg/kg	6.7	12/15/21 12:17	1/04/22 13:02	EPA 6010
7440-23-5	Sodium	1300	U, J, QC-2	mg/kg	1300	12/15/21 12:17	1/04/22 13:02	EPA 6010
7440-24-6	Strontium	100		mg/kg	6.7	12/15/21 12:17	1/04/22 13:02	EPA 6010
7440-28-0	Thallium	0.17	U	mg/kg	0.17	12/15/21 12:23	12/29/21 21:32	EPA 200.8
7440-31-5	Tin	140		mg/kg	20	12/15/21 12:17	1/04/22 13:02	EPA 6010
7440-32-6	Titanium	160		mg/kg	6.7	12/15/21 12:17	1/04/22 13:02	EPA 6010
7440-62-2	Vanadium	17		mg/kg	6.7	12/15/21 12:17	1/04/22 13:02	EPA 6010
7440-65-5	Yttrium	4.0	U	mg/kg	4.0	12/15/21 12:17	1/04/22 13:02	EPA 6010
7440-66-6	Zinc	6700		mg/kg	13	12/15/21 12:17	1/04/22 13:02	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: 22-0050

Project: 22-0050, TAV Holdings, Inc. - Greenville, GA - Reported by Stephanie McCarthy

Total Metals

Project: 22-0050, TAV Holdings, Inc. - Greenville, GA

Sample ID: GWA09

Lab ID: E214904-06

Station ID: GWA09

Matrix: Waste

Date Collected: 12/1/21 14:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7429-90-5	Aluminum	8300		mg/kg	100	12/15/21 12:17	1/04/22 13:05	EPA 6010
7440-36-0	Antimony	47		mg/kg	2.1	12/15/21 12:23	12/29/21 21:54	EPA 200.8
7440-38-2	Arsenic	3.1		mg/kg	0.21	12/15/21 12:23	12/29/21 21:49	EPA 200.8
7440-39-3	Barium	860		mg/kg	5.2	12/15/21 12:17	1/04/22 13:05	EPA 6010
7440-41-7	Beryllium	3.1	U	mg/kg	3.1	12/15/21 12:17	1/04/22 13:05	EPA 6010
7440-43-9	Cadmium	16		mg/kg	0.10	12/15/21 12:23	12/29/21 21:49	EPA 200.8
7440-70-2	Calcium	20000		mg/kg	260	12/15/21 12:17	1/04/22 13:05	EPA 6010
7440-47-3	Chromium	110		mg/kg	5.2	12/15/21 12:17	1/04/22 13:05	EPA 6010
7440-48-4	Cobalt	11		mg/kg	5.2	12/15/21 12:17	1/04/22 13:05	EPA 6010
7440-50-8	Copper	3700		mg/kg	10	12/15/21 12:17	1/04/22 13:05	EPA 6010
7439-89-6	Iron	29000		mg/kg	100	12/15/21 12:17	1/04/22 13:05	EPA 6010
7439-92-1	Lead	1300		mg/kg	10	12/15/21 12:23	12/29/21 22:00	EPA 200.8
7439-95-4	Magnesium	2400		mg/kg	260	12/15/21 12:17	1/04/22 13:05	EPA 6010
7439-96-5	Manganese	600		mg/kg	5.2	12/15/21 12:17	1/04/22 13:05	EPA 6010
7439-98-7	Molybdenum	10	U	mg/kg	10	12/15/21 12:17	1/04/22 13:05	EPA 6010
7440-02-0	Nickel	110		mg/kg	10	12/15/21 12:17	1/04/22 13:05	EPA 6010
7440-09-7	Potassium	1000	U	mg/kg	1000	12/15/21 12:17	1/04/22 13:05	EPA 6010
7782-49-2	Selenium	0.41	U	mg/kg	0.41	12/15/21 12:23	12/29/21 21:49	EPA 200.8
7440-22-4	Silver	8.7		mg/kg	5.2	12/15/21 12:17	1/04/22 13:05	EPA 6010
7440-23-5	Sodium	1000	U, J, QC-2	mg/kg	1000	12/15/21 12:17	1/04/22 13:05	EPA 6010
7440-24-6	Strontium	89		mg/kg	5.2	12/15/21 12:17	1/04/22 13:05	EPA 6010
7440-28-0	Thallium	0.21	U	mg/kg	0.21	12/15/21 12:23	12/29/21 21:49	EPA 200.8
7440-31-5	Tin	92		mg/kg	16	12/15/21 12:17	1/04/22 13:05	EPA 6010
7440-32-6	Titanium	140		mg/kg	5.2	12/15/21 12:17	1/04/22 13:05	EPA 6010
7440-62-2	Vanadium	11		mg/kg	5.2	12/15/21 12:17	1/04/22 13:05	EPA 6010
7440-65-5	Yttrium	3.1	U	mg/kg	3.1	12/15/21 12:17	1/04/22 13:05	EPA 6010
7440-66-6	Zinc	4200		mg/kg	10	12/15/21 12:17	1/04/22 13:05	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: 22-0050

Project: 22-0050, TAV Holdings, Inc. - Greenville, GA - Reported by Stephanie McCarthy

Total Metals

Project: 22-0050, TAV Holdings, Inc. - Greenville, GA

Sample ID: GWA10

Lab ID: E214904-07

Station ID: GWA10

Matrix: Waste

Date Collected: 12/1/21 15:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7429-90-5	Aluminum	8800		mg/kg	62	12/15/21 12:17	1/04/22 13:08	EPA 6010
7440-36-0	Antimony	5.3		mg/kg	0.16	12/15/21 12:23	12/29/21 22:05	EPA 200.8
7440-38-2	Arsenic	1.5		mg/kg	0.16	12/15/21 12:23	12/29/21 22:05	EPA 200.8
7440-39-3	Barium	450		mg/kg	3.1	12/15/21 12:17	1/04/22 13:08	EPA 6010
7440-41-7	Beryllium	1.9	U	mg/kg	1.9	12/15/21 12:17	1/04/22 13:08	EPA 6010
7440-43-9	Cadmium	9.0		mg/kg	0.078	12/15/21 12:23	12/29/21 22:05	EPA 200.8
7440-70-2	Calcium	7000		mg/kg	160	12/15/21 12:17	1/04/22 13:08	EPA 6010
7440-47-3	Chromium	130		mg/kg	3.1	12/15/21 12:17	1/04/22 13:08	EPA 6010
7440-48-4	Cobalt	8.9		mg/kg	3.1	12/15/21 12:17	1/04/22 13:08	EPA 6010
7440-50-8	Copper	2500		mg/kg	6.2	12/15/21 12:17	1/04/22 13:08	EPA 6010
7439-89-6	Iron	22000		mg/kg	62	12/15/21 12:17	1/04/22 13:08	EPA 6010
7439-92-1	Lead	580		mg/kg	3.1	12/15/21 12:23	12/29/21 22:11	EPA 200.8
7439-95-4	Magnesium	1800		mg/kg	160	12/15/21 12:17	1/04/22 13:08	EPA 6010
7439-96-5	Manganese	630		mg/kg	3.1	12/15/21 12:17	1/04/22 13:08	EPA 6010
7439-98-7	Molybdenum	6.2	U	mg/kg	6.2	12/15/21 12:17	1/04/22 13:08	EPA 6010
7440-02-0	Nickel	68		mg/kg	6.2	12/15/21 12:17	1/04/22 13:08	EPA 6010
7440-09-7	Potassium	990		mg/kg	620	12/15/21 12:17	1/04/22 13:08	EPA 6010
7782-49-2	Selenium	6.2	U	mg/kg	6.2	12/15/21 12:23	12/29/21 22:11	EPA 200.8
7440-22-4	Silver	3.3		mg/kg	3.1	12/15/21 12:17	1/04/22 13:08	EPA 6010
7440-23-5	Sodium	1300	J, QC-2	mg/kg	620	12/15/21 12:17	1/04/22 13:08	EPA 6010
7440-24-6	Strontium	47		mg/kg	3.1	12/15/21 12:17	1/04/22 13:08	EPA 6010
7440-28-0	Thallium	0.16	U	mg/kg	0.16	12/15/21 12:23	12/29/21 22:05	EPA 200.8
7440-31-5	Tin	31		mg/kg	9.3	12/15/21 12:17	1/04/22 13:08	EPA 6010
7440-32-6	Titanium	210		mg/kg	3.1	12/15/21 12:17	1/04/22 13:08	EPA 6010
7440-62-2	Vanadium	12		mg/kg	3.1	12/15/21 12:17	1/04/22 13:08	EPA 6010
7440-65-5	Yttrium	2.4		mg/kg	1.9	12/15/21 12:17	1/04/22 13:08	EPA 6010
7440-66-6	Zinc	2800		mg/kg	6.2	12/15/21 12:17	1/04/22 13:08	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: 22-0050

Project: 22-0050, TAV Holdings, Inc. - Greenville, GA - Reported by Stephanie McCarthy

Total Metals

Project: 22-0050, TAV Holdings, Inc. - Greenville, GA

Sample ID: GWA11

Lab ID: E214904-08

Station ID: GWA11

Matrix: Waste

Date Collected: 12/1/21 15:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7429-90-5	Aluminum	7.6	U	mg/kg	7.6	12/15/21 12:17	1/04/22 13:11	EPA 6010
7440-36-0	Antimony	0.19	U, J, QM-3	mg/kg	0.19	12/15/21 12:23	12/29/21 22:27	EPA 200.8
7440-38-2	Arsenic	0.19	U	mg/kg	0.19	12/15/21 12:23	12/29/21 22:27	EPA 200.8
7440-39-3	Barium	0.72		mg/kg	0.38	12/15/21 12:17	1/04/22 13:11	EPA 6010
7440-41-7	Beryllium	0.23	U	mg/kg	0.23	12/15/21 12:17	1/04/22 13:11	EPA 6010
7440-43-9	Cadmium	0.095	U	mg/kg	0.095	12/15/21 12:23	12/29/21 22:27	EPA 200.8
7440-70-2	Calcium	33		mg/kg	19	12/15/21 12:17	1/04/22 13:11	EPA 6010
7440-47-3	Chromium	0.38	U	mg/kg	0.38	12/15/21 12:17	1/04/22 13:11	EPA 6010
7440-48-4	Cobalt	0.38	U	mg/kg	0.38	12/15/21 12:17	1/04/22 13:11	EPA 6010
7440-50-8	Copper	1.5	U, B-2	mg/kg	1.5	12/15/21 12:17	1/04/22 13:11	EPA 6010
7439-89-6	Iron	7.6	U	mg/kg	7.6	12/15/21 12:17	1/04/22 13:11	EPA 6010
7439-92-1	Lead	0.34	U, B-2	mg/kg	0.34	12/15/21 12:23	12/29/21 22:27	EPA 200.8
7439-95-4	Magnesium	36		mg/kg	19	12/15/21 12:17	1/04/22 13:11	EPA 6010
7439-96-5	Manganese	0.42		mg/kg	0.38	12/15/21 12:17	1/04/22 13:11	EPA 6010
7439-98-7	Molybdenum	0.84		mg/kg	0.76	12/15/21 12:17	1/04/22 13:11	EPA 6010
7440-02-0	Nickel	0.76	U	mg/kg	0.76	12/15/21 12:17	1/04/22 13:11	EPA 6010
7440-09-7	Potassium	160		mg/kg	76	12/15/21 12:17	1/04/22 13:11	EPA 6010
7782-49-2	Selenium	0.38	U, J, QI-1	mg/kg	0.38	12/15/21 12:23	12/29/21 22:27	EPA 200.8
7440-22-4	Silver	0.38	U	mg/kg	0.38	12/15/21 12:17	1/04/22 13:11	EPA 6010
7440-23-5	Sodium	1200	J, QC-2, QM-2	mg/kg	76	12/15/21 12:17	1/04/22 13:11	EPA 6010
7440-24-6	Strontium	0.95		mg/kg	0.38	12/15/21 12:17	1/04/22 13:11	EPA 6010
7440-28-0	Thallium	0.19	U	mg/kg	0.19	12/15/21 12:23	12/29/21 22:27	EPA 200.8
7440-31-5	Tin	1.1	U	mg/kg	1.1	12/15/21 12:17	1/04/22 13:11	EPA 6010
7440-32-6	Titanium	0.38	U	mg/kg	0.38	12/15/21 12:17	1/04/22 13:11	EPA 6010
7440-62-2	Vanadium	0.38	U	mg/kg	0.38	12/15/21 12:17	1/04/22 13:11	EPA 6010
7440-65-5	Yttrium	0.23	U	mg/kg	0.23	12/15/21 12:17	1/04/22 13:11	EPA 6010
7440-66-6	Zinc	1.8	U, B-2	mg/kg	1.8	12/15/21 12:17	1/04/22 13:11	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: 22-0050

Project: 22-0050, TAV Holdings, Inc. - Greenville, GA - Reported by Stephanie McCarthy

Total Metals

Project: 22-0050, TAV Holdings, Inc. - Greenville, GA

Sample ID: GWA12

Lab ID: E214904-09

Station ID: GWA12

Matrix: Waste

Date Collected: 12/1/21 16:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7429-90-5	Aluminum	7.5	U	mg/kg	7.5	12/15/21 12:17	1/04/22 13:19	EPA 6010
7440-36-0	Antimony	0.19	U	mg/kg	0.19	12/15/21 12:23	12/29/21 22:54	EPA 200.8
7440-38-2	Arsenic	0.19	U	mg/kg	0.19	12/15/21 12:23	12/29/21 22:54	EPA 200.8
7440-39-3	Barium	1.2		mg/kg	0.38	12/15/21 12:17	1/04/22 13:19	EPA 6010
7440-41-7	Beryllium	0.23	U	mg/kg	0.23	12/15/21 12:17	1/04/22 13:19	EPA 6010
7440-43-9	Cadmium	0.094	U	mg/kg	0.094	12/15/21 12:23	12/29/21 22:54	EPA 200.8
7440-70-2	Calcium	30		mg/kg	19	12/15/21 12:17	1/04/22 13:19	EPA 6010
7440-47-3	Chromium	0.38	U	mg/kg	0.38	12/15/21 12:17	1/04/22 13:19	EPA 6010
7440-48-4	Cobalt	0.38	U	mg/kg	0.38	12/15/21 12:17	1/04/22 13:19	EPA 6010
7440-50-8	Copper	0.75	U	mg/kg	0.75	12/15/21 12:17	1/04/22 13:19	EPA 6010
7439-89-6	Iron	7.5	U	mg/kg	7.5	12/15/21 12:17	1/04/22 13:19	EPA 6010
7439-92-1	Lead	0.19	U	mg/kg	0.19	12/15/21 12:23	12/29/21 22:54	EPA 200.8
7439-95-4	Magnesium	57		mg/kg	19	12/15/21 12:17	1/04/22 13:19	EPA 6010
7439-96-5	Manganese	0.38	U	mg/kg	0.38	12/15/21 12:17	1/04/22 13:19	EPA 6010
7439-98-7	Molybdenum	0.75	U	mg/kg	0.75	12/15/21 12:17	1/04/22 13:19	EPA 6010
7440-02-0	Nickel	0.75	U	mg/kg	0.75	12/15/21 12:17	1/04/22 13:19	EPA 6010
7440-09-7	Potassium	120		mg/kg	75	12/15/21 12:17	1/04/22 13:19	EPA 6010
7782-49-2	Selenium	0.38	U	mg/kg	0.38	12/15/21 12:23	12/29/21 22:54	EPA 200.8
7440-22-4	Silver	0.38	U	mg/kg	0.38	12/15/21 12:17	1/04/22 13:19	EPA 6010
7440-23-5	Sodium	860	J, QC-2	mg/kg	75	12/15/21 12:17	1/04/22 13:19	EPA 6010
7440-24-6	Strontium	1.5		mg/kg	0.38	12/15/21 12:17	1/04/22 13:19	EPA 6010
7440-28-0	Thallium	0.19	U	mg/kg	0.19	12/15/21 12:23	12/29/21 22:54	EPA 200.8
7440-31-5	Tin	1.1	U	mg/kg	1.1	12/15/21 12:17	1/04/22 13:19	EPA 6010
7440-32-6	Titanium	0.38	U	mg/kg	0.38	12/15/21 12:17	1/04/22 13:19	EPA 6010
7440-62-2	Vanadium	0.38	U	mg/kg	0.38	12/15/21 12:17	1/04/22 13:19	EPA 6010
7440-65-5	Yttrium	0.23	U	mg/kg	0.23	12/15/21 12:17	1/04/22 13:19	EPA 6010
7440-66-6	Zinc	0.83	U, B-2	mg/kg	0.83	12/15/21 12:17	1/04/22 13:19	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: 22-0050

Project: 22-0050, TAV Holdings, Inc. - Greenville, GA - Reported by Stephanie McCarthy

Total Metals

Project: 22-0050, TAV Holdings, Inc. - Greenville, GA

Sample ID: GWA13

Lab ID: E214904-10

Station ID: GWA13

Matrix: Waste

Date Collected: 12/1/21 16:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7429-90-5	Aluminum	4600		mg/kg	79	12/15/21 12:17	1/04/22 13:22	EPA 6010
7440-36-0	Antimony	4.9		mg/kg	0.16	12/15/21 12:23	12/29/21 23:00	EPA 200.8
7440-38-2	Arsenic	1.7		mg/kg	0.16	12/15/21 12:23	12/29/21 23:00	EPA 200.8
7440-39-3	Barium	320		mg/kg	4.0	12/15/21 12:17	1/04/22 13:22	EPA 6010
7440-41-7	Beryllium	2.4	U	mg/kg	2.4	12/15/21 12:17	1/04/22 13:22	EPA 6010
7440-43-9	Cadmium	9.1		mg/kg	0.079	12/15/21 12:23	12/29/21 23:00	EPA 200.8
7440-70-2	Calcium	12000		mg/kg	200	12/15/21 12:17	1/04/22 13:22	EPA 6010
7440-47-3	Chromium	44		mg/kg	4.0	12/15/21 12:17	1/04/22 13:22	EPA 6010
7440-48-4	Cobalt	10		mg/kg	4.0	12/15/21 12:17	1/04/22 13:22	EPA 6010
7440-50-8	Copper	620		mg/kg	7.9	12/15/21 12:17	1/04/22 13:22	EPA 6010
7439-89-6	Iron	16000		mg/kg	79	12/15/21 12:17	1/04/22 13:22	EPA 6010
7439-92-1	Lead	650		mg/kg	3.2	12/15/21 12:23	12/29/21 23:05	EPA 200.8
7439-95-4	Magnesium	1800		mg/kg	200	12/15/21 12:17	1/04/22 13:22	EPA 6010
7439-96-5	Manganese	620		mg/kg	4.0	12/15/21 12:17	1/04/22 13:22	EPA 6010
7439-98-7	Molybdenum	7.9	U	mg/kg	7.9	12/15/21 12:17	1/04/22 13:22	EPA 6010
7440-02-0	Nickel	52		mg/kg	7.9	12/15/21 12:17	1/04/22 13:22	EPA 6010
7440-09-7	Potassium	790	U	mg/kg	790	12/15/21 12:17	1/04/22 13:22	EPA 6010
7782-49-2	Selenium	0.32	U	mg/kg	0.32	12/15/21 12:23	12/29/21 23:00	EPA 200.8
7440-22-4	Silver	4.0	U	mg/kg	4.0	12/15/21 12:17	1/04/22 13:22	EPA 6010
7440-23-5	Sodium	970	J, QC-2	mg/kg	790	12/15/21 12:17	1/04/22 13:22	EPA 6010
7440-24-6	Strontium	100		mg/kg	4.0	12/15/21 12:17	1/04/22 13:22	EPA 6010
7440-28-0	Thallium	0.16	U	mg/kg	0.16	12/15/21 12:23	12/29/21 23:00	EPA 200.8
7440-31-5	Tin	29		mg/kg	12	12/15/21 12:17	1/04/22 13:22	EPA 6010
7440-32-6	Titanium	89		mg/kg	4.0	12/15/21 12:17	1/04/22 13:22	EPA 6010
7440-62-2	Vanadium	5.7		mg/kg	4.0	12/15/21 12:17	1/04/22 13:22	EPA 6010
7440-65-5	Yttrium	3.1		mg/kg	2.4	12/15/21 12:17	1/04/22 13:22	EPA 6010
7440-66-6	Zinc	3900		mg/kg	7.9	12/15/21 12:17	1/04/22 13:22	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: 22-0050

Project: 22-0050, TAV Holdings, Inc. - Greenville, GA - Reported by Stephanie McCarthy

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 2112029 - M 200.2 Metals Water

Blank (2112029-BLK1)

Prepared: 12/14/21 Analyzed: 12/15/21

EPA 6010

Aluminum	U	100	ug/L							U
Barium	U	5.0	"							U
Beryllium	U	3.0	"							U
Calcium	U	250	"							U
Chromium	U	5.0	"							U
Cobalt	U	5.0	"							U
Copper	U	10	"							U
Iron	U	100	"							U
Magnesium	U	250	"							U
Manganese	U	5.0	"							U
Molybdenum	U	10	"							U
Nickel	U	10	"							U
Potassium	U	1000	"							U
Silver	U	5.0	"							U
Sodium	U	1000	"							U
Strontium	U	5.0	"							U
Tin	U	15	"							U
Titanium	U	5.0	"							U
Vanadium	U	5.0	"							U
Yttrium	U	3.0	"							U
Zinc	U	10	"							U

LCS (2112029-BS1)

Prepared: 12/14/21 Analyzed: 12/15/21

EPA 6010

Aluminum	4980.4	100	ug/L	5000.0	99.6	85-115
Barium	202.10	5.0	"	200.00	101	85-115
Beryllium	50.663	3.0	"	50.000	101	85-115
Calcium	5113.7	250	"	5000.0	102	85-115
Chromium	197.83	5.0	"	200.00	98.9	85-115
Cobalt	99.833	5.0	"	100.00	99.8	85-115
Copper	99.569	10	"	100.00	99.6	85-115
Iron	5289.1	100	"	5000.0	106	85-115
Magnesium	5222.6	250	"	5000.0	104	85-115
Manganese	514.44	5.0	"	500.00	103	85-115
Molybdenum	100.97	10	"	100.00	101	85-115
Nickel	196.24	10	"	200.00	98.1	85-115
Potassium	9788.5	1000	"	10000	97.9	85-115
Silver	101.81	5.0	"	100.00	102	85-115
Sodium	10064	1000	"	10000	101	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: 22-0050

Project: 22-0050, TAV Holdings, Inc. - Greenville, GA - Reported by Stephanie McCarthy

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 2112029 - M 200.2 Metals Water

LCS (2112029-BS1)

Prepared: 12/14/21 Analyzed: 12/15/21

Strontium	101.80	5.0	ug/L	100.00		102	85-115			
Tin	100.36	15	"	100.00		100	85-115			
Titanium	100.74	5.0	"	100.00		101	85-115			
Vanadium	99.676	5.0	"	100.00		99.7	85-115			
Yttrium	100.82	3.0	"	100.00		101	85-115			
Zinc	202.07	10	"	200.00		101	85-115			

Matrix Spike (2112029-MS1)

Source: E214703-42

Prepared: 12/14/21 Analyzed: 12/15/21

EPA 6010

Aluminum	5003.7	100	ug/L	5000.0	U	100	75-125			
Barium	203.62	5.0	"	200.00	U	102	75-125			
Beryllium	50.370	3.0	"	50.000	U	101	75-125			
Calcium	5174.0	250	"	5000.0	U	103	75-125			
Chromium	198.70	5.0	"	200.00	U	99.3	75-125			
Cobalt	100.29	5.0	"	100.00	U	100	75-125			
Copper	100.02	10	"	100.00	U	100	75-125			
Iron	5299.8	100	"	5000.0	U	106	75-125			
Magnesium	5254.2	250	"	5000.0	U	105	75-125			
Manganese	517.04	5.0	"	500.00	2.4519	103	75-125			
Molybdenum	102.56	10	"	100.00	U	103	75-125			
Nickel	194.98	10	"	200.00	U	97.5	75-125			
Potassium	9894.9	1000	"	10000	U	98.9	75-125			
Silver	101.72	5.0	"	100.00	U	102	75-125			
Sodium	14645	1000	"	10000	4530.8	101	75-125			
Strontium	102.27	5.0	"	100.00	U	102	75-125			
Tin	103.08	15	"	100.00	U	103	75-125			
Titanium	101.14	5.0	"	100.00	U	101	75-125			
Vanadium	100.09	5.0	"	100.00	U	100	75-125			
Yttrium	99.867	3.0	"	100.00	U	99.9	75-125			
Zinc	205.08	10	"	200.00	U	103	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: 22-0050

Project: 22-0050, TAV Holdings, Inc. - Greenville, GA - Reported by Stephanie McCarthy

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 2112029 - M 200.2 Metals Water

Matrix Spike Dup (2112029-MSD1)

Source: E214703-42

Prepared: 12/14/21 Analyzed: 12/15/21

EPA 6010

Aluminum	5004.0	100	ug/L	5000.0	U	100	75-125	0.00603	20	
Barium	205.55	5.0	"	200.00	U	103	75-125	0.942	20	
Beryllium	50.569	3.0	"	50.000	U	101	75-125	0.395	20	
Calcium	5196.2	250	"	5000.0	U	104	75-125	0.429	20	
Chromium	198.60	5.0	"	200.00	U	99.3	75-125	0.0511	20	
Cobalt	100.45	5.0	"	100.00	U	100	75-125	0.165	20	
Copper	100.40	10	"	100.00	U	100	75-125	0.378	20	
Iron	5310.3	100	"	5000.0	U	106	75-125	0.198	20	
Magnesium	5256.0	250	"	5000.0	U	105	75-125	0.0354	20	
Manganese	520.13	5.0	"	500.00	2.4519	104	75-125	0.596	20	
Molybdenum	102.40	10	"	100.00	U	102	75-125	0.157	20	
Nickel	197.85	10	"	200.00	U	98.9	75-125	1.46	20	
Potassium	9874.6	1000	"	10000	U	98.7	75-125	0.205	20	
Silver	102.31	5.0	"	100.00	U	102	75-125	0.582	20	
Sodium	14717	1000	"	10000	4530.8	102	75-125	0.487	20	
Strontium	103.11	5.0	"	100.00	U	103	75-125	0.826	20	
Tin	101.72	15	"	100.00	U	102	75-125	1.33	20	
Titanium	102.61	5.0	"	100.00	U	103	75-125	1.44	20	
Vanadium	100.44	5.0	"	100.00	U	100	75-125	0.358	20	
Yttrium	100.44	3.0	"	100.00	U	100	75-125	0.568	20	
Zinc	204.55	10	"	200.00	U	102	75-125	0.258	20	

MRL Verification (2112029-PS1)

Prepared: 12/14/21 Analyzed: 12/15/21

EPA 6010

Aluminum	99.078	100	ug/L	100.00		99.1	70-130		MRL-2, U
Barium	5.2065	5.0	"	5.0000		104	70-130		MRL-2
Beryllium	2.9567	3.0	"	3.0000		98.6	70-130		MRL-2, U
Calcium	250.46	250	"	250.00		100	70-130		MRL-2
Chromium	5.0016	5.0	"	5.0000		100	70-130		MRL-2
Cobalt	5.4529	5.0	"	5.0000		109	70-130		MRL-2
Copper	9.9323	10	"	10.000		99.3	70-130		MRL-2, U
Iron	106.97	100	"	100.00		107	70-130		MRL-2
Magnesium	256.43	250	"	250.00		103	70-130		MRL-2
Manganese	5.5842	5.0	"	5.0000		112	70-130		MRL-2
Molybdenum	10.424	10	"	10.000		104	70-130		MRL-2
Nickel	10.297	10	"	10.000		103	70-130		MRL-2
Potassium	1034.2	1000	"	1000.0		103	70-130		MRL-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: 22-0050

Project: 22-0050, TAV Holdings, Inc. - Greenville, GA - Reported by Stephanie McCarthy

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 2112029 - M 200.2 Metals Water

MRL Verification (2112029-PS1)

Prepared: 12/14/21 Analyzed: 12/15/21

Silver	5.1630	5.0	ug/L	5.0000		103	70-130			MRL-2
Sodium	1009.4	1000	"	1000.0		101	70-130			MRL-2
Strontium	4.9956	5.0	"	5.0000		99.9	70-130			MRL-2, U
Tin	14.970	15	"	15.000		99.8	70-130			MRL-2, U
Titanium	5.2944	5.0	"	5.0000		106	70-130			MRL-2
Vanadium	6.5104	5.0	"	5.0000		130	70-130			MRL-2
Yttrium	3.0003	3.0	"	3.0000		100	70-130			MRL-2
Zinc	10.134	10	"	10.000		101	70-130			MRL-2

Batch 2112030 - M 200.2 Metals Water

Blank (2112030-BLK1)

Prepared: 12/14/21 Analyzed: 12/16/21

EPA 200.8

Antimony	U	0.50	ug/L							U
Arsenic	U	0.50	"							U
Cadmium	U	0.25	"							U
Lead	U	0.50	"							U
Selenium	U	1.0	"							U
Thallium	U	0.50	"							U

LCS (2112030-BS1)

Prepared: 12/14/21 Analyzed: 12/16/21

EPA 200.8

Antimony	207.65	0.50	ug/L	100.00		208	85-115			QC-4
Arsenic	207.17	0.50	"	200.00		104	85-115			QC-4
Cadmium	49.929	0.25	"	50.000		99.9	85-115			
Lead	193.51	0.50	"	200.00		96.8	85-115			
Selenium	218.74	1.0	"	200.00		109	85-115			
Thallium	200.78	0.50	"	100.00		201	85-115			QC-4



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: 22-0050

Project: 22-0050, TAV Holdings, Inc. - Greenville, GA - Reported by Stephanie McCarthy

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 2112030 - M 200.2 Metals Water

LCS (2112030-BS2)

Prepared: 12/14/21 Analyzed: 12/16/21

EPA 200.8

Antimony	207.90	2.5	ug/L	100.00		208	85-115			
Arsenic	197.59	2.5	"	200.00		98.8	85-115			
Cadmium	50.145	1.2	"	50.000		100	85-115			
Lead	198.07	2.5	"	200.00		99.0	85-115			
Selenium	208.81	5.0	"	200.00		104	85-115			
Thallium	205.42	2.5	"	100.00		205	85-115			

Matrix Spike (2112030-MS1)

Source: E214703-42

Prepared: 12/14/21 Analyzed: 12/16/21

EPA 200.8

Antimony	210.40	0.50	ug/L	100.00	U	210	70-130			QC-4
Arsenic	211.94	0.50	"	200.00	U	106	70-130			QC-4
Cadmium	49.873	0.25	"	50.000	U	99.7	70-130			
Lead	192.93	0.50	"	200.00	U	96.5	70-130			
Selenium	222.50	1.0	"	200.00	U	111	70-130			
Thallium	202.09	0.50	"	100.00	U	202	70-130			QC-4

Matrix Spike (2112030-MS2)

Source: E214703-42

Prepared: 12/14/21 Analyzed: 12/16/21

EPA 200.8

Antimony	206.81	2.5	ug/L	100.00	U	207	70-130			
Arsenic	199.42	2.5	"	200.00	U	99.7	70-130			
Cadmium	49.765	1.2	"	50.000	U	99.5	70-130			
Lead	200.23	2.5	"	200.00	U	100	70-130			
Selenium	208.45	5.0	"	200.00	U	104	70-130			
Thallium	208.05	2.5	"	100.00	U	208	70-130			

Matrix Spike Dup (2112030-MSD1)

Source: E214703-42

Prepared: 12/14/21 Analyzed: 12/16/21

EPA 200.8

Antimony	204.38	0.50	ug/L	100.00	U	204	70-130	2.90	20	QC-4
Arsenic	217.40	0.50	"	200.00	U	109	70-130	2.54	20	QC-4
Cadmium	50.879	0.25	"	50.000	U	102	70-130	2.00	20	
Lead	189.52	0.50	"	200.00	U	94.8	70-130	1.78	20	
Selenium	219.33	1.0	"	200.00	U	110	70-130	1.44	20	
Thallium	199.91	0.50	"	100.00	U	200	70-130	1.08	20	QC-4



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D.A.R.T. Id: 22-0050

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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 2112030 - M 200.2 Metals Water

Matrix Spike Dup (2112030-MSD2)

Source: E214703-42

Prepared: 12/14/21 Analyzed: 12/16/21

EPA 200.8

Antimony	207.43	2.5	ug/L	100.00	U	207	70-130	0.301	20	
Arsenic	198.20	2.5	"	200.00	U	99.1	70-130	0.613	20	
Cadmium	48.538	1.2	"	50.000	U	97.1	70-130	2.50	20	
Lead	199.48	2.5	"	200.00	U	99.7	70-130	0.375	20	
Selenium	205.47	5.0	"	200.00	U	103	70-130	1.44	20	
Thallium	209.13	2.5	"	100.00	U	209	70-130	0.520	20	

MRL Verification (2112030-PS1)

Prepared: 12/14/21 Analyzed: 12/16/21

EPA 200.8

Antimony	0.48970	0.50	ug/L	0.50000		97.9	65-135			MRL-2, U
Arsenic	1.0197	0.50	"	1.0000		102	65-135			MRL-2
Cadmium	0.67906	0.25	"	0.50000		136	65-135			MRL-2, QR-2
Lead	1.0073	0.50	"	1.0000		101	65-135			MRL-2
Selenium	2.1009	1.0	"	2.0000		105	65-135			MRL-2
Thallium	0.51325	0.50	"	0.50000		103	65-135			MRL-2

Batch 2112038 - M 200.2 Metals Waste

Blank (2112038-BLK1)

Prepared: 12/15/21 Analyzed: 01/04/22

EPA 6010

Aluminum	U	5.0	mg/kg							U
Barium	U	0.25	"							U
Beryllium	U	0.15	"							U
Calcium	U	12	"							U
Chromium	U	0.25	"							U
Cobalt	U	0.25	"							U
Copper	0.86191	0.50	"							B-4
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
Thallium	U	1.5	"							U



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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D.A.R.T. Id: 22-0050

Project: 22-0050, TAV Holdings, Inc. - Greenville, GA - Reported by Stephanie McCarthy

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 2112038 - M 200.2 Metals Waste

Blank (2112038-BLK1)

Prepared: 12/15/21 Analyzed: 01/04/22

Tin	U	0.75	mg/kg							U
Titanium	U	0.25	"							U
Vanadium	U	0.25	"							U
Yttrium	U	0.15	"							U
Zinc	U	0.50	"							B-4, U

LCS (2112038-BS1)

Prepared: 12/15/21 Analyzed: 01/04/22

EPA 6010

Aluminum	250.74	5.0	mg/kg	250.00	100	85-115
Barium	23.559	0.25	"	25.000	94.2	85-115
Beryllium	10.277	0.15	"	10.000	103	85-115
Calcium	222.36	12	"	250.00	88.9	85-115
Chromium	23.258	0.25	"	25.000	93.0	85-115
Cobalt	24.813	0.25	"	25.000	99.3	85-115
Copper	15.200	0.50	"	15.000	101	85-115
Iron	244.67	5.0	"	250.00	97.9	85-115
Magnesium	240.72	12	"	250.00	96.3	85-115
Manganese	242.75	0.25	"	250.00	97.1	85-115
Molybdenum	14.174	0.50	"	15.000	94.5	85-115
Nickel	37.876	0.50	"	40.000	94.7	85-115
Potassium	517.30	50	"	500.00	103	85-115
Silver	5.0351	0.25	"	5.0000	101	85-115
Sodium	545.14	50	"	500.00	109	85-115
Strontium	20.326	0.25	"	20.000	102	85-115
Tin	46.237	0.75	"	50.000	92.5	85-115
Titanium	23.115	0.25	"	25.000	92.5	85-115
Vanadium	18.733	0.25	"	20.000	93.7	85-115
Yttrium	14.620	0.15	"	15.000	97.5	85-115
Zinc	51.349	0.50	"	50.000	103	85-115



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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 2112038 - M 200.2 Metals Waste

Matrix Spike (2112038-MS1)

Source: E214903-04

Prepared: 12/15/21 Analyzed: 01/04/22

EPA 6010

Aluminum	29705	190	mg/kg	160.98	33777	-2530	75-125			XM-1
Barium	699.35	9.7	"	16.098	331.80	2280	75-125			XM-1
Beryllium	6.9613	5.8	"	6.4392	U	108	75-125			
Calcium	28418	480	"	160.98	27862	345	75-125			XM-1
Chromium	188.68	9.7	"	16.098	151.23	233	75-125			QM-2, QM-3
Cobalt	45.657	9.7	"	16.098	18.217	170	75-125			QM-2, QM-3
Copper	20102	19	"	9.6587	13086	72600	75-125			QM-3, XM-1
Iron	28795	190	"	160.98	24776	2500	75-125			XM-1
Magnesium	7028.6	480	"	160.98	5893.3	705	75-125			XM-1
Manganese	903.83	9.7	"	160.98	747.45	97.1	75-125			
Molybdenum	2.7960	19	"	9.6587	U	28.9	75-125			QM-1, U
Nickel	392.73	19	"	25.757	236.88	605	75-125			QM-2, QM-3
Potassium	979.22	1900	"	321.96	U	304	75-125			QM-2, U
Silver	18.679	9.7	"	3.2196	14.335	135	75-125			QM-2
Sodium	U	1900	"	321.96	U		75-125			QM-1, U
Strontium	115.71	9.7	"	12.878	95.824	154	75-125			QM-2
Tin	126.24	29	"	32.196	58.456	211	75-125			QM-2
Titanium	170.29	9.7	"	16.098	97.320	453	75-125			QM-2
Vanadium	21.246	9.7	"	12.878	7.0030	111	75-125			
Yttrium	11.364	5.8	"	9.6587	2.3576	93.2	75-125			
Zinc	7066.3	19	"	32.196	5816.4	3880	75-125			XM-1

Matrix Spike (2112038-MS2)

Source: E214904-08

Prepared: 12/15/21 Analyzed: 01/04/22

EPA 6010

Aluminum	184.16	6.7	mg/kg	166.89	U	110	75-125			
Barium	17.031	0.33	"	16.689	0.71870	97.7	75-125			
Beryllium	6.7355	0.20	"	6.6756	0.066414	99.9	75-125			
Calcium	189.54	17	"	166.89	33.074	93.8	75-125			
Chromium	15.625	0.33	"	16.689	U	93.6	75-125			
Cobalt	16.216	0.33	"	16.689	U	97.2	75-125			
Copper	11.428	0.67	"	10.013	1.4108	100	75-125			
Iron	185.94	6.7	"	166.89	4.2119	109	75-125			
Magnesium	198.74	17	"	166.89	36.143	97.4	75-125			
Manganese	160.15	0.33	"	166.89	0.41576	95.7	75-125			
Molybdenum	10.256	0.67	"	10.013	0.83924	94.0	75-125			
Nickel	26.489	0.67	"	26.702	U	99.2	75-125			



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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 2112038 - M 200.2 Metals Waste

Matrix Spike (2112038-MS2)

Source: E214904-08

Prepared: 12/15/21 Analyzed: 01/04/22

Potassium	529.45	67	mg/kg	333.78	159.53	111	75-125			
Silver	3.4955	0.33	"	3.3378	U	105	75-125			
Sodium	1670.2	67	"	333.78	1200.7	141	75-125			QM-2
Strontium	15.831	0.33	"	13.351	0.94952	111	75-125			
Tin	30.585	1.0	"	33.378	U	91.6	75-125			
Titanium	15.964	0.33	"	16.689	U	95.7	75-125			
Vanadium	12.567	0.33	"	13.351	U	94.1	75-125			
Yttrium	9.5491	0.20	"	10.013	U	95.4	75-125			
Zinc	34.766	0.67	"	33.378	1.7257	99.0	75-125			

Matrix Spike Dup (2112038-MSD1)

Source: E214903-04

Prepared: 12/15/21 Analyzed: 01/04/22

EPA 6010

Aluminum	31117	210	mg/kg	171.82	33777	-1550	75-125	4.64	20	XM-1
Barium	663.49	10	"	17.182	331.80	1930	75-125	5.26	20	XM-1
Beryllium	7.4084	6.2	"	6.8729	U	108	75-125	6.22	20	
Calcium	26165	520	"	171.82	27862	-988	75-125	8.25	20	XM-1
Chromium	148.26	10	"	17.182	151.23	-17.3	75-125	24.0	20	QM-1, QM-3
Cobalt	35.688	10	"	17.182	18.217	102	75-125	24.5	20	QM-3
Copper	11560	21	"	10.309	13086	-14800	75-125	54.0	20	QM-3, XM-1
Iron	28071	210	"	171.82	24776	1920	75-125	2.54	20	XM-1
Magnesium	6671.3	520	"	171.82	5893.3	453	75-125	5.22	20	XM-1
Manganese	926.92	10	"	171.82	747.45	104	75-125	2.52	20	
Molybdenum	3.4012	21	"	10.309	U	33.0	75-125	19.5	20	QM-1, U
Nickel	236.71	21	"	27.491	236.88	-0.622	75-125	49.6	20	QM-1, QM-3
Potassium	912.22	2100	"	343.64	U	265	75-125	7.08	20	QM-2, U
Silver	18.667	10	"	3.4364	14.335	126	75-125	0.0664	20	QM-2
Sodium	U	2100	"	343.64	U		75-125		20	QM-1, U
Strontium	108.73	10	"	13.746	95.824	93.9	75-125	6.22	20	
Tin	128.39	31	"	34.364	58.456	204	75-125	1.69	20	QM-2
Titanium	171.10	10	"	17.182	97.320	429	75-125	0.476	20	QM-2
Vanadium	21.300	10	"	13.746	7.0030	104	75-125	0.256	20	
Yttrium	11.897	6.2	"	10.309	2.3576	92.5	75-125	4.58	20	
Zinc	6298.8	21	"	34.364	5816.4	1400	75-125	11.5	20	XM-1



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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 2112038 - M 200.2 Metals Waste

Matrix Spike Dup (2112038-MSD2)

Source: E214904-08

Prepared: 12/15/21 Analyzed: 01/04/22

EPA 6010

Aluminum	215.77	8.0	mg/kg	199.52	U	108	75-125	15.8	20	
Barium	20.060	0.40	"	19.952	0.71870	96.9	75-125	16.3	20	
Beryllium	7.9702	0.24	"	7.9808	0.066414	99.0	75-125	16.8	20	
Calcium	219.29	20	"	199.52	33.074	93.3	75-125	14.6	20	
Chromium	18.460	0.40	"	19.952	U	92.5	75-125	16.6	20	
Cobalt	19.277	0.40	"	19.952	U	96.6	75-125	17.2	20	
Copper	13.001	0.80	"	11.971	1.4108	96.8	75-125	12.9	20	
Iron	221.06	8.0	"	199.52	4.2119	109	75-125	17.3	20	
Magnesium	224.80	20	"	199.52	36.143	94.6	75-125	12.3	20	
Manganese	190.57	0.40	"	199.52	0.41576	95.3	75-125	17.3	20	
Molybdenum	11.995	0.80	"	11.971	0.83924	93.2	75-125	15.6	20	
Nickel	31.454	0.80	"	31.923	U	98.5	75-125	17.1	20	
Potassium	583.73	80	"	399.04	159.53	106	75-125	9.75	20	
Silver	4.1409	0.40	"	3.9904	U	104	75-125	16.9	20	
Sodium	1668.6	80	"	399.04	1200.7	117	75-125	0.0968	20	
Strontium	18.398	0.40	"	15.962	0.94952	109	75-125	15.0	20	
Tin	36.412	1.2	"	39.904	U	91.2	75-125	17.4	20	
Titanium	18.973	0.40	"	19.952	U	95.1	75-125	17.2	20	
Vanadium	14.775	0.40	"	15.962	U	92.6	75-125	16.2	20	
Yttrium	11.301	0.24	"	11.971	U	94.4	75-125	16.8	20	
Zinc	41.088	0.80	"	39.904	1.7257	98.6	75-125	16.7	20	

MRL Verification (2112038-PS1)

Prepared: 12/15/21 Analyzed: 01/04/22

EPA 6010

Aluminum	6.4231	5.0	mg/kg	5.0000		128	70-130		MRL-6
Barium	0.19864	0.25	"	0.25000		79.5	70-130		MRL-6, U
Beryllium	0.14536	0.15	"	0.15000		96.9	70-130		MRL-6, U
Calcium	10.961	12	"	12.500		87.7	70-130		MRL-6, U
Chromium	0.25355	0.25	"	0.25000		101	70-130		MRL-6
Cobalt	0.23535	0.25	"	0.25000		94.1	70-130		MRL-6, U
Copper	0.90753	0.50	"	0.50000		182	70-130		MRL-6, QR-2
Iron	5.3311	5.0	"	5.0000		107	70-130		MRL-6
Magnesium	11.622	12	"	12.500		93.0	70-130		MRL-6, U
Manganese	0.28971	0.25	"	0.25000		116	70-130		MRL-6
Molybdenum	0.51108	0.50	"	0.50000		102	70-130		MRL-6



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D.A.R.T. Id: 22-0050

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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 2112038 - M 200.2 Metals Waste

MRL Verification (2112038-PS1)

Prepared: 12/15/21 Analyzed: 01/04/22

Nickel	0.41149	0.50	mg/kg	0.50000		82.3	70-130			MRL-6, U
Potassium	49.100	50	"	50.000		98.2	70-130			MRL-6, U
Silver	0.25229	0.25	"	0.25000		101	70-130			MRL-6
Sodium	54.042	50	"	50.000		108	70-130			MRL-6
Strontium	0.24469	0.25	"	0.25000		97.9	70-130			MRL-6, U
Tin	0.76070	0.75	"	0.75000		101	70-130			MRL-6
Titanium	0.23034	0.25	"	0.25000		92.1	70-130			MRL-6, U
Vanadium	0.24538	0.25	"	0.25000		98.2	70-130			MRL-6, U
Yttrium	0.15439	0.15	"	0.15000		103	70-130			MRL-6
Zinc	0.72444	0.50	"	0.50000		145	70-130			MRL-6, QR-2

Batch 2112039 - M 200.2 Metals Waste

Blank (2112039-BLK1)

Prepared: 12/15/21 Analyzed: 12/29/21

EPA 200.8

Antimony	U	0.050	mg/kg							U
Arsenic	U	0.050	"							U
Cadmium	U	0.025	"							U
Lead	0.072676	0.050	"							B-4
Selenium	U	0.10	"							U
Thallium	U	0.050	"							U

LCS (2112039-BS1)

Prepared: 12/15/21 Analyzed: 12/29/21

EPA 200.8

Antimony	48.101	0.25	mg/kg	50.000		96.2	85-115
Arsenic	25.954	0.25	"	25.000		104	85-115
Cadmium	9.9801	0.12	"	10.000		99.8	85-115
Lead	50.176	0.25	"	50.000		100	85-115
Selenium	53.102	0.50	"	50.000		106	85-115
Thallium	10.131	0.25	"	10.000		101	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: 22-0050

Project: 22-0050, TAV Holdings, Inc. - Greenville, GA - Reported by Stephanie McCarthy

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 2112039 - M 200.2 Metals Waste

LCS (2112039-BS2)

Prepared: 12/15/21 Analyzed: 12/29/21

EPA 200.8

Antimony	48.375	0.50	mg/kg	50.000		96.7	85-115
Arsenic	27.177	0.50	"	25.000		109	85-115
Cadmium	9.9237	0.25	"	10.000		99.2	85-115
Lead	50.887	0.50	"	50.000		102	85-115
Selenium	52.863	1.0	"	50.000		106	85-115
Thallium	10.422	0.50	"	10.000		104	85-115

Matrix Spike (2112039-MS1)

Source: E214903-04

Prepared: 12/15/21 Analyzed: 12/29/21

EPA 200.8

Antimony	16.553	0.16	mg/kg	32.196	12.814	11.6	70-130	QM-1
Arsenic	9.5354	0.16	"	16.098	2.1439	45.9	70-130	QM-1
Cadmium	19.353	0.080	"	6.4392	14.177	80.4	70-130	
Lead	3051.4	0.16	"	32.196	2696.2	1100	70-130	QC-4, XM-1
Selenium	6.9924	0.32	"	32.196	U	21.7	70-130	QM-1
Thallium	5.8120	0.16	"	6.4392	0.066087	89.2	70-130	

Matrix Spike (2112039-MS2)

Source: E214904-08

Prepared: 12/15/21 Analyzed: 12/29/21

EPA 200.8

Antimony	33.208	0.17	mg/kg	33.378	U	99.5	70-130
Arsenic	18.159	0.17	"	16.689	U	109	70-130
Cadmium	6.9259	0.083	"	6.6756	U	104	70-130
Lead	34.271	0.17	"	33.378	0.32835	102	70-130
Selenium	36.440	0.33	"	33.378	U	109	70-130
Thallium	6.8422	0.17	"	6.6756	U	102	70-130

Matrix Spike (2112039-MS3)

Source: E214903-04RE1

Prepared: 12/15/21 Analyzed: 12/29/21

EPA 200.8

Antimony	17.174	1.6	mg/kg	32.196	13.072	12.7	70-130	QM-1
Arsenic	7.6973	1.6	"	16.098	1.7318	37.1	70-130	QM-1
Cadmium	20.384	0.80	"	6.4392	14.999	83.6	70-130	
Lead	2923.3	1.6	"	32.196	2512.2	1280	70-130	QC-4, XM-1
Selenium	5.7533	3.2	"	32.196	U	17.9	70-130	QM-1
Thallium	5.5601	1.6	"	6.4392	U	86.3	70-130	



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Project: 22-0050, TAV Holdings, Inc. - Greenville, GA - Reported by Stephanie McCarthy

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 2112039 - M 200.2 Metals Waste

Matrix Spike (2112039-MS4)

Source: E214904-08

Prepared: 12/15/21 Analyzed: 12/29/21

EPA 200.8

Antimony	33.030	0.33	mg/kg	33.378	U	99.0	70-130
Arsenic	17.874	0.33	"	16.689	U	107	70-130
Cadmium	7.0044	0.17	"	6.6756	U	105	70-130
Lead	35.259	0.33	"	33.378	0.32835	105	70-130
Selenium	36.714	0.67	"	33.378	U	110	70-130
Thallium	7.1576	0.33	"	6.6756	U	107	70-130

Matrix Spike (2112039-MS5)

Source: E214903-04RE2

Prepared: 12/15/21 Analyzed: 12/29/21

EPA 200.8

Lead	2884.6	8.0	mg/kg	32.196	2452.5	1340	70-130			XM-1
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Matrix Spike Dup (2112039-MSD1)

Source: E214903-04

Prepared: 12/15/21 Analyzed: 12/29/21

EPA 200.8

Antimony	14.579	0.17	mg/kg	34.364	12.814	5.14	70-130	12.7	20	QM-1
Arsenic	8.8920	0.17	"	17.182	2.1439	39.3	70-130	6.98	20	QM-1
Cadmium	18.828	0.086	"	6.8729	14.177	67.7	70-130	2.75	20	QM-1
Lead	2720.1	0.17	"	34.364	2696.2	69.4	70-130	11.5	20	QC-4, XM-1
Selenium	5.3137	0.34	"	34.364	U	15.5	70-130	27.3	20	QM-1, QM-3
Thallium	5.0130	0.17	"	6.8729	0.066087	72.0	70-130	14.8	20	

Matrix Spike Dup (2112039-MSD2)

Source: E214904-08

Prepared: 12/15/21 Analyzed: 12/29/21

EPA 200.8

Antimony	39.517	0.20	mg/kg	39.904	U	99.0	70-130	17.3	20
Arsenic	21.665	0.20	"	19.952	U	109	70-130	17.6	20
Cadmium	7.9713	0.10	"	7.9808	U	99.9	70-130	14.0	20
Lead	39.872	0.20	"	39.904	0.32835	99.1	70-130	15.1	20
Selenium	41.230	0.40	"	39.904	U	103	70-130	12.3	20
Thallium	8.1542	0.20	"	7.9808	U	102	70-130	17.5	20

Matrix Spike Dup (2112039-MSD3)

Source: E214903-04RE1

Prepared: 12/15/21 Analyzed: 12/29/21

EPA 200.8

Antimony	14.713	1.7	mg/kg	34.364	13.072	4.78	70-130	15.4	20	QM-1
Arsenic	8.6088	1.7	"	17.182	1.7318	40.0	70-130	11.2	20	QM-1
Cadmium	20.689	0.86	"	6.8729	14.999	82.8	70-130	1.48	20	
Lead	2676.2	1.7	"	34.364	2512.2	477	70-130	8.83	20	QC-4, XM-1
Selenium	6.0554	3.4	"	34.364	U	17.6	70-130	5.12	20	QM-1



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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 2112039 - M 200.2 Metals Waste

Matrix Spike Dup (2112039-MSD3)

Source: E214903-04RE1

Prepared: 12/15/21 Analyzed: 12/29/21

Thallium	4.9222	1.7	mg/kg	6.8729	U	71.6	70-130	12.2	20	
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Matrix Spike Dup (2112039-MSD4)

Source: E214904-08

Prepared: 12/15/21 Analyzed: 12/29/21

EPA 200.8

Antimony	40.741	0.40	mg/kg	39.904	U	102	70-130	20.9	20	QM-3
Arsenic	20.921	0.40	"	19.952	U	105	70-130	15.7	20	
Cadmium	8.3586	0.20	"	7.9808	U	105	70-130	17.6	20	
Lead	40.382	0.40	"	39.904	0.32835	100	70-130	13.5	20	
Selenium	43.227	0.80	"	39.904	U	108	70-130	16.3	20	
Thallium	8.2063	0.40	"	7.9808	U	103	70-130	13.7	20	

Matrix Spike Dup (2112039-MSD5)

Source: E214903-04RE2

Prepared: 12/15/21 Analyzed: 12/29/21

EPA 200.8

Lead	2580.1	8.6	mg/kg	34.364	2452.5	371	70-130	11.1	20	XM-1
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MRL Verification (2112039-PS1)

Prepared: 12/15/21 Analyzed: 12/29/21

EPA 200.8

Antimony	0.030899	0.050	mg/kg	0.025000		124	65-135			MRL-6, U
Arsenic	0.048092	0.050	"	0.050000		96.2	65-135			MRL-6, U
Cadmium	0.026444	0.025	"	0.025000		106	65-135			MRL-6
Lead	0.081383	0.050	"	0.050000		163	65-135			MRL-6, QR-2
Selenium	0.11370	0.10	"	0.10000		114	65-135			MRL-6
Thallium	0.025939	0.050	"	0.025000		104	65-135			MRL-6, U



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D.A.R.T. Id: 22-0050

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Notes and Definitions for QC Samples

U	The analyte was not detected at or above the reporting limit.
B-4	Level in blank impacts MRLs.
MRL-2	MRL verification for Non-Potable Water matrix
MRL-6	MRL verification for Waste matrix
QC-4	Result greater than the highest point on the calibration curve
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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D.A.R.T. Id: 22-0050

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January 19, 2022

MEMORANDUM

SUBJECT: FINAL Analytical Report
Project: 22-0050, TAV Holdings, Inc. - Greenville, GA

FROM: Stephanie McCarthy
LSB Inorganic Chemistry Section Chief

THRU: Stacie Masters, 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 6010 (Waste)

ISO



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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Project: 22-0050, TAV Holdings, Inc. - Greenville, GA - Reported by Stephanie McCarthy

Report Narrative for Project: 22-0050 Analysis: TCLPM

Four samples were not analyzed for TCLP because the total metal results were below the TCLP Fail Threshold / screening concentrations (i.e., samples cannot exceed TCLP regulatory levels based on the total scan analyses).

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

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D.A.R.T. Id: 22-0050

Project: 22-0050, TAV Holdings, Inc. - Greenville, GA - Reported by Stephanie McCarthy

SAMPLES INCLUDED IN THIS REPORT

Project: 22-0050, TAV Holdings, Inc. - Greenville, GA

Sample ID	Laboratory ID	Matrix	Date Collected	Date Received
AWA01	E214903-01	Waste	11/30/21 12:50	12/2/21 8:40
AWA02	E214903-02	Waste	11/30/21 13:10	12/2/21 8:40
AWA03	E214903-03	Waste	11/30/21 13:45	12/2/21 8:40
AWA04	E214903-04	Waste	11/30/21 14:00	12/2/21 8:40
GWA05	E214904-02	Waste	12/1/21 11:00	12/2/21 8:40
GWA06	E214904-03	Waste	12/1/21 11:15	12/2/21 8:40
GWA08	E214904-05	Waste	12/1/21 14:10	12/2/21 8:40
GWA09	E214904-06	Waste	12/1/21 14:30	12/2/21 8:40
GWA10	E214904-07	Waste	12/1/21 15:15	12/2/21 8:40
GWA13	E214904-10	Waste	12/1/21 16:10	12/2/21 8:40



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D.A.R.T. Id: 22-0050

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DATA QUALIFIER DEFINITIONS

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.
QM-1	Matrix Spike Recovery less than method control limits

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
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D.A.R.T. Id: 22-0050

Project: 22-0050, TAV Holdings, Inc. - Greenville, GA - Reported by Stephanie McCarthy

TCLP Metals

Project: 22-0050, TAV Holdings, Inc. - Greenville, GA

Sample ID: AWA01

Lab ID: E214903-01

Station ID: AWA01

Matrix: Waste

Date Collected: 11/30/21 12:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-36-0	Antimony	0.80	U	mg/L	0.80	1/13/22 9:54	1/14/22 14:05	EPA 6010
7440-38-2	Arsenic	1.0	U	mg/L	1.0	1/13/22 9:54	1/14/22 14:05	EPA 6010
7440-39-3	Barium	17		mg/L	0.10	1/13/22 9:54	1/14/22 14:05	EPA 6010
7440-41-7	Beryllium	0.060	U	mg/L	0.060	1/13/22 9:54	1/14/22 14:05	EPA 6010
7440-43-9	Cadmium	0.17		mg/L	0.10	1/13/22 9:54	1/14/22 14:05	EPA 6010
7440-47-3	Chromium	0.10	U	mg/L	0.10	1/13/22 9:54	1/14/22 14:05	EPA 6010
7439-92-1	Lead	4.2		mg/L	0.40	1/13/22 9:54	1/14/22 14:05	EPA 6010
7440-02-0	Nickel	0.44		mg/L	0.20	1/13/22 9:54	1/14/22 14:05	EPA 6010
7782-49-2	Selenium	0.90	U	mg/L	0.90	1/13/22 9:54	1/14/22 14:05	EPA 6010
7440-22-4	Silver	0.10	U	mg/L	0.10	1/13/22 9:54	1/14/22 14:05	EPA 6010
7440-28-0	Thallium	0.60	U	mg/L	0.60	1/13/22 9:54	1/14/22 14:05	EPA 6010
7440-62-2	Vanadium	0.10	U	mg/L	0.10	1/13/22 9:54	1/14/22 14:05	EPA 6010
7440-66-6	Zinc	24		mg/L	0.20	1/13/22 9:54	1/14/22 14:05	EPA 6010



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D.A.R.T. Id: 22-0050

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TCLP Metals

Project: 22-0050, TAV Holdings, Inc. - Greenville, GA

Sample ID: AWA02

Lab ID: E214903-02

Station ID: AWA02

Matrix: Waste

Date Collected: 11/30/21 13:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-36-0	Antimony	0.80	U	mg/L	0.80	1/13/22 9:54	1/14/22 14:09	EPA 6010
7440-38-2	Arsenic	1.0	U	mg/L	1.0	1/13/22 9:54	1/14/22 14:09	EPA 6010
7440-39-3	Barium	1.4		mg/L	0.10	1/13/22 9:54	1/14/22 14:09	EPA 6010
7440-41-7	Beryllium	0.060	U	mg/L	0.060	1/13/22 9:54	1/14/22 14:09	EPA 6010
7440-43-9	Cadmium	0.15		mg/L	0.10	1/13/22 9:54	1/14/22 14:09	EPA 6010
7440-47-3	Chromium	0.10	U	mg/L	0.10	1/13/22 9:54	1/14/22 14:09	EPA 6010
7439-92-1	Lead	3.7		mg/L	0.40	1/13/22 9:54	1/14/22 14:09	EPA 6010
7440-02-0	Nickel	0.20	U	mg/L	0.20	1/13/22 9:54	1/14/22 14:09	EPA 6010
7782-49-2	Selenium	0.90	U	mg/L	0.90	1/13/22 9:54	1/14/22 14:09	EPA 6010
7440-22-4	Silver	0.10	U	mg/L	0.10	1/13/22 9:54	1/14/22 14:09	EPA 6010
7440-28-0	Thallium	0.60	U	mg/L	0.60	1/13/22 9:54	1/14/22 14:09	EPA 6010
7440-62-2	Vanadium	0.10	U	mg/L	0.10	1/13/22 9:54	1/14/22 14:09	EPA 6010
7440-66-6	Zinc	29		mg/L	0.20	1/13/22 9:54	1/14/22 14:09	EPA 6010



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D.A.R.T. Id: 22-0050

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TCLP Metals

Project: 22-0050, TAV Holdings, Inc. - Greenville, GA

Sample ID: AWA03

Lab ID: E214903-03

Station ID: AWA03

Matrix: Waste

Date Collected: 11/30/21 13:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-36-0	Antimony	0.80	U	mg/L	0.80	1/13/22 9:54	1/14/22 14:12	EPA 6010
7440-38-2	Arsenic	1.0	U	mg/L	1.0	1/13/22 9:54	1/14/22 14:12	EPA 6010
7440-39-3	Barium	2.7	J, QM-1	mg/L	0.10	1/13/22 9:54	1/14/22 14:12	EPA 6010
7440-41-7	Beryllium	0.060	U	mg/L	0.060	1/13/22 9:54	1/14/22 14:12	EPA 6010
7440-43-9	Cadmium	0.17		mg/L	0.10	1/13/22 9:54	1/14/22 14:12	EPA 6010
7440-47-3	Chromium	0.10	U	mg/L	0.10	1/13/22 9:54	1/14/22 14:12	EPA 6010
7439-92-1	Lead	4.5	J, QM-1	mg/L	0.40	1/13/22 9:54	1/14/22 14:12	EPA 6010
7440-02-0	Nickel	0.20	U	mg/L	0.20	1/13/22 9:54	1/14/22 14:12	EPA 6010
7782-49-2	Selenium	0.90	U	mg/L	0.90	1/13/22 9:54	1/14/22 14:12	EPA 6010
7440-22-4	Silver	0.10	U	mg/L	0.10	1/13/22 9:54	1/14/22 14:12	EPA 6010
7440-28-0	Thallium	0.60	U, J, QM-1	mg/L	0.60	1/13/22 9:54	1/14/22 14:12	EPA 6010
7440-62-2	Vanadium	0.10	U	mg/L	0.10	1/13/22 9:54	1/14/22 14:12	EPA 6010
7440-66-6	Zinc	17		mg/L	0.20	1/13/22 9:54	1/14/22 14:12	EPA 6010



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Project: 22-0050, TAV Holdings, Inc. - Greenville, GA - Reported by Stephanie McCarthy

TCLP Metals

Project: 22-0050, TAV Holdings, Inc. - Greenville, GA

Sample ID: AWA04

Lab ID: E214903-04

Station ID: AWA04

Matrix: Waste

Date Collected: 11/30/21 14:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-36-0	Antimony	0.80	U	mg/L	0.80	1/13/22 9:54	1/14/22 14:23	EPA 6010
7440-38-2	Arsenic	1.0	U	mg/L	1.0	1/13/22 9:54	1/14/22 14:23	EPA 6010
7440-39-3	Barium	1.7		mg/L	0.10	1/13/22 9:54	1/14/22 14:23	EPA 6010
7440-41-7	Beryllium	0.060	U	mg/L	0.060	1/13/22 9:54	1/14/22 14:23	EPA 6010
7440-43-9	Cadmium	0.19		mg/L	0.10	1/13/22 9:54	1/14/22 14:23	EPA 6010
7440-47-3	Chromium	0.10	U	mg/L	0.10	1/13/22 9:54	1/14/22 14:23	EPA 6010
7439-92-1	Lead	4.5		mg/L	0.40	1/13/22 9:54	1/14/22 14:23	EPA 6010
7440-02-0	Nickel	0.20	U	mg/L	0.20	1/13/22 9:54	1/14/22 14:23	EPA 6010
7782-49-2	Selenium	0.90	U	mg/L	0.90	1/13/22 9:54	1/14/22 14:23	EPA 6010
7440-22-4	Silver	0.10	U	mg/L	0.10	1/13/22 9:54	1/14/22 14:23	EPA 6010
7440-28-0	Thallium	0.60	U	mg/L	0.60	1/13/22 9:54	1/14/22 14:23	EPA 6010
7440-62-2	Vanadium	0.10	U	mg/L	0.10	1/13/22 9:54	1/14/22 14:23	EPA 6010
7440-66-6	Zinc	31		mg/L	0.20	1/13/22 9:54	1/14/22 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: 22-0050

Project: 22-0050, TAV Holdings, Inc. - Greenville, GA - Reported by Stephanie McCarthy

TCLP Metals

Project: 22-0050, TAV Holdings, Inc. - Greenville, GA

Sample ID: GWA05

Lab ID: E214904-02

Station ID: GWA05

Matrix: Waste

Date Collected: 12/1/21 11:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-36-0	Antimony	0.80	U	mg/L	0.80	1/13/22 9:54	1/14/22 14:27	EPA 6010
7440-38-2	Arsenic	1.0	U	mg/L	1.0	1/13/22 9:54	1/14/22 14:27	EPA 6010
7440-39-3	Barium	5.5		mg/L	0.10	1/13/22 9:54	1/14/22 14:27	EPA 6010
7440-41-7	Beryllium	0.060	U	mg/L	0.060	1/13/22 9:54	1/14/22 14:27	EPA 6010
7440-43-9	Cadmium	0.11		mg/L	0.10	1/13/22 9:54	1/14/22 14:27	EPA 6010
7440-47-3	Chromium	0.10	U	mg/L	0.10	1/13/22 9:54	1/14/22 14:27	EPA 6010
7439-92-1	Lead	1.1		mg/L	0.40	1/13/22 9:54	1/14/22 14:27	EPA 6010
7440-02-0	Nickel	0.87		mg/L	0.20	1/13/22 9:54	1/14/22 14:27	EPA 6010
7782-49-2	Selenium	0.90	U	mg/L	0.90	1/13/22 9:54	1/14/22 14:27	EPA 6010
7440-22-4	Silver	0.10	U	mg/L	0.10	1/13/22 9:54	1/14/22 14:27	EPA 6010
7440-28-0	Thallium	0.60	U	mg/L	0.60	1/13/22 9:54	1/14/22 14:27	EPA 6010
7440-62-2	Vanadium	0.10	U	mg/L	0.10	1/13/22 9:54	1/14/22 14:27	EPA 6010
7440-66-6	Zinc	98		mg/L	0.20	1/13/22 9:54	1/14/22 14:27	EPA 6010



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D.A.R.T. Id: 22-0050

Project: 22-0050, TAV Holdings, Inc. - Greenville, GA - Reported by Stephanie McCarthy

TCLP Metals

Project: 22-0050, TAV Holdings, Inc. - Greenville, GA

Sample ID: GWA06

Lab ID: E214904-03

Station ID: GWA06

Matrix: Waste

Date Collected: 12/1/21 11:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-36-0	Antimony	0.80	U	mg/L	0.80	1/13/22 9:54	1/14/22 14:34	EPA 6010
7440-38-2	Arsenic	1.0	U	mg/L	1.0	1/13/22 9:54	1/14/22 14:34	EPA 6010
7440-39-3	Barium	5.6		mg/L	0.10	1/13/22 9:54	1/14/22 14:34	EPA 6010
7440-41-7	Beryllium	0.060	U	mg/L	0.060	1/13/22 9:54	1/14/22 14:34	EPA 6010
7440-43-9	Cadmium	0.11		mg/L	0.10	1/13/22 9:54	1/14/22 14:34	EPA 6010
7440-47-3	Chromium	0.10	U	mg/L	0.10	1/13/22 9:54	1/14/22 14:34	EPA 6010
7439-92-1	Lead	0.87		mg/L	0.40	1/13/22 9:54	1/14/22 14:34	EPA 6010
7440-02-0	Nickel	0.62		mg/L	0.20	1/13/22 9:54	1/14/22 14:34	EPA 6010
7782-49-2	Selenium	0.90	U	mg/L	0.90	1/13/22 9:54	1/14/22 14:34	EPA 6010
7440-22-4	Silver	0.10	U	mg/L	0.10	1/13/22 9:54	1/14/22 14:34	EPA 6010
7440-28-0	Thallium	0.60	U	mg/L	0.60	1/13/22 9:54	1/14/22 14:34	EPA 6010
7440-62-2	Vanadium	0.10	U	mg/L	0.10	1/13/22 9:54	1/14/22 14:34	EPA 6010
7440-66-6	Zinc	57		mg/L	0.20	1/13/22 9:54	1/14/22 14:34	EPA 6010



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Region 4 Laboratory Services and Applied Science Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 22-0050

Project: 22-0050, TAV Holdings, Inc. - Greenville, GA - Reported by Stephanie McCarthy

TCLP Metals

Project: 22-0050, TAV Holdings, Inc. - Greenville, GA

Sample ID: GWA08

Lab ID: E214904-05

Station ID: GWA08

Matrix: Waste

Date Collected: 12/1/21 14:10

<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	0.80	U	mg/L	0.80	1/13/22 9:54	1/14/22 14:37	EPA 6010
7440-38-2	Arsenic	1.0	U	mg/L	1.0	1/13/22 9:54	1/14/22 14:37	EPA 6010
7440-39-3	Barium	3.4		mg/L	0.10	1/13/22 9:54	1/14/22 14:37	EPA 6010
7440-41-7	Beryllium	0.060	U	mg/L	0.060	1/13/22 9:54	1/14/22 14:37	EPA 6010
7440-43-9	Cadmium	0.32		mg/L	0.10	1/13/22 9:54	1/14/22 14:37	EPA 6010
7440-47-3	Chromium	0.10	U	mg/L	0.10	1/13/22 9:54	1/14/22 14:37	EPA 6010
7439-92-1	Lead	2.4		mg/L	0.40	1/13/22 9:54	1/14/22 14:37	EPA 6010
7440-02-0	Nickel	0.44		mg/L	0.20	1/13/22 9:54	1/14/22 14:37	EPA 6010
7782-49-2	Selenium	0.90	U	mg/L	0.90	1/13/22 9:54	1/14/22 14:37	EPA 6010
7440-22-4	Silver	0.10	U	mg/L	0.10	1/13/22 9:54	1/14/22 14:37	EPA 6010
7440-28-0	Thallium	0.60	U	mg/L	0.60	1/13/22 9:54	1/14/22 14:37	EPA 6010
7440-62-2	Vanadium	0.10	U	mg/L	0.10	1/13/22 9:54	1/14/22 14:37	EPA 6010
7440-66-6	Zinc	72		mg/L	0.20	1/13/22 9:54	1/14/22 14:37	EPA 6010



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D.A.R.T. Id: 22-0050

Project: 22-0050, TAV Holdings, Inc. - Greenville, GA - Reported by Stephanie McCarthy

TCLP Metals

Project: 22-0050, TAV Holdings, Inc. - Greenville, GA

Sample ID: GWA09

Lab ID: E214904-06

Station ID: GWA09

Matrix: Waste

Date Collected: 12/1/21 14:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-36-0	Antimony	0.80	U	mg/L	0.80	1/13/22 9:54	1/14/22 14:41	EPA 6010
7440-38-2	Arsenic	1.0	U	mg/L	1.0	1/13/22 9:54	1/14/22 14:41	EPA 6010
7440-39-3	Barium	6.6		mg/L	0.10	1/13/22 9:54	1/14/22 14:41	EPA 6010
7440-41-7	Beryllium	0.060	U	mg/L	0.060	1/13/22 9:54	1/14/22 14:41	EPA 6010
7440-43-9	Cadmium	0.32		mg/L	0.10	1/13/22 9:54	1/14/22 14:41	EPA 6010
7440-47-3	Chromium	0.10	U	mg/L	0.10	1/13/22 9:54	1/14/22 14:41	EPA 6010
7439-92-1	Lead	2.9		mg/L	0.40	1/13/22 9:54	1/14/22 14:41	EPA 6010
7440-02-0	Nickel	0.48		mg/L	0.20	1/13/22 9:54	1/14/22 14:41	EPA 6010
7782-49-2	Selenium	0.90	U	mg/L	0.90	1/13/22 9:54	1/14/22 14:41	EPA 6010
7440-22-4	Silver	0.10	U	mg/L	0.10	1/13/22 9:54	1/14/22 14:41	EPA 6010
7440-28-0	Thallium	0.60	U	mg/L	0.60	1/13/22 9:54	1/14/22 14:41	EPA 6010
7440-62-2	Vanadium	0.10	U	mg/L	0.10	1/13/22 9:54	1/14/22 14:41	EPA 6010
7440-66-6	Zinc	54		mg/L	0.20	1/13/22 9:54	1/14/22 14:41	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: 22-0050

Project: 22-0050, TAV Holdings, Inc. - Greenville, GA - Reported by Stephanie McCarthy

TCLP Metals

Project: 22-0050, TAV Holdings, Inc. - Greenville, GA

Sample ID: GWA10

Lab ID: E214904-07

Station ID: GWA10

Matrix: Waste

Date Collected: 12/1/21 15:15

<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	0.80	U	mg/L	0.80	1/13/22 9:54	1/14/22 14:44	EPA 6010
7440-38-2	Arsenic	1.0	U	mg/L	1.0	1/13/22 9:54	1/14/22 14:44	EPA 6010
7440-39-3	Barium	3.6		mg/L	0.10	1/13/22 9:54	1/14/22 14:44	EPA 6010
7440-41-7	Beryllium	0.060	U	mg/L	0.060	1/13/22 9:54	1/14/22 14:44	EPA 6010
7440-43-9	Cadmium	0.28		mg/L	0.10	1/13/22 9:54	1/14/22 14:44	EPA 6010
7440-47-3	Chromium	0.10	U	mg/L	0.10	1/13/22 9:54	1/14/22 14:44	EPA 6010
7439-92-1	Lead	1.2		mg/L	0.40	1/13/22 9:54	1/14/22 14:44	EPA 6010
7440-02-0	Nickel	0.33		mg/L	0.20	1/13/22 9:54	1/14/22 14:44	EPA 6010
7782-49-2	Selenium	0.90	U	mg/L	0.90	1/13/22 9:54	1/14/22 14:44	EPA 6010
7440-22-4	Silver	0.10	U	mg/L	0.10	1/13/22 9:54	1/14/22 14:44	EPA 6010
7440-28-0	Thallium	0.60	U	mg/L	0.60	1/13/22 9:54	1/14/22 14:44	EPA 6010
7440-62-2	Vanadium	0.10	U	mg/L	0.10	1/13/22 9:54	1/14/22 14:44	EPA 6010
7440-66-6	Zinc	47		mg/L	0.20	1/13/22 9:54	1/14/22 14:44	EPA 6010



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D.A.R.T. Id: 22-0050

Project: 22-0050, TAV Holdings, Inc. - Greenville, GA - Reported by Stephanie McCarthy

TCLP Metals

Project: 22-0050, TAV Holdings, Inc. - Greenville, GA

Sample ID: GWA13

Lab ID: E214904-10

Station ID: GWA13

Matrix: Waste

Date Collected: 12/1/21 16:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7440-36-0	Antimony	0.80	U	mg/L	0.80	1/13/22 9:54	1/14/22 14:48	EPA 6010
7440-38-2	Arsenic	1.0	U	mg/L	1.0	1/13/22 9:54	1/14/22 14:48	EPA 6010
7440-39-3	Barium	8.3		mg/L	0.10	1/13/22 9:54	1/14/22 14:48	EPA 6010
7440-41-7	Beryllium	0.060	U	mg/L	0.060	1/13/22 9:54	1/14/22 14:48	EPA 6010
7440-43-9	Cadmium	0.28		mg/L	0.10	1/13/22 9:54	1/14/22 14:48	EPA 6010
7440-47-3	Chromium	0.10	U	mg/L	0.10	1/13/22 9:54	1/14/22 14:48	EPA 6010
7439-92-1	Lead	9.0		mg/L	0.40	1/13/22 9:54	1/14/22 14:48	EPA 6010
7440-02-0	Nickel	0.80		mg/L	0.20	1/13/22 9:54	1/14/22 14:48	EPA 6010
7782-49-2	Selenium	0.90	U	mg/L	0.90	1/13/22 9:54	1/14/22 14:48	EPA 6010
7440-22-4	Silver	0.10	U	mg/L	0.10	1/13/22 9:54	1/14/22 14:48	EPA 6010
7440-28-0	Thallium	0.60	U	mg/L	0.60	1/13/22 9:54	1/14/22 14:48	EPA 6010
7440-62-2	Vanadium	0.10	U	mg/L	0.10	1/13/22 9:54	1/14/22 14:48	EPA 6010
7440-66-6	Zinc	89		mg/L	0.20	1/13/22 9:54	1/14/22 14:48	EPA 6010



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Region 4 Laboratory Services and Applied Science Division

980 College Station Road, Athens, Georgia 30605-2700

D.A.R.T. Id: 22-0050

Project: 22-0050, TAV Holdings, Inc. - Greenville, GA - Reported by Stephanie McCarthy

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 2201009 - M 200.2 TCLP

Blank (2201009-BLK1)

Prepared: 01/13/22 Analyzed: 01/14/22

EPA 6010

Antimony	U	0.16	mg/L							U
Arsenic	U	0.20	"							U
Barium	U	0.020	"							U
Beryllium	U	0.012	"							U
Cadmium	U	0.020	"							U
Chromium	U	0.020	"							U
Lead	U	0.080	"							U
Nickel	U	0.040	"							U
Selenium	U	0.18	"							U
Silver	U	0.020	"							U
Thallium	U	0.12	"							U
Vanadium	U	0.020	"							U
Zinc	U	0.040	"							B-3, U

Blank (2201009-BLK2)

Prepared: 01/13/22 Analyzed: 01/14/22

EPA 6010

Antimony	U	0.16	mg/L							U
Arsenic	U	0.20	"							U
Barium	U	0.020	"							U
Beryllium	U	0.012	"							U
Cadmium	U	0.020	"							U
Chromium	U	0.020	"							U
Lead	U	0.080	"							U
Nickel	U	0.040	"							U
Selenium	U	0.18	"							U
Silver	U	0.020	"							U
Thallium	U	0.12	"							U
Vanadium	U	0.020	"							U
Zinc	U	0.040	"							U



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D.A.R.T. Id: 22-0050

Project: 22-0050, TAV Holdings, Inc. - Greenville, GA - Reported by Stephanie McCarthy

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 2201009 - M 200.2 TCLP

Blank (2201009-BLK3)

Prepared: 01/13/22 Analyzed: 01/14/22

EPA 6010

Antimony	U	0.040	mg/L							U
Arsenic	U	0.050	"							U
Barium	U	0.0050	"							U
Beryllium	U	0.0030	"							U
Cadmium	U	0.0050	"							U
Chromium	U	0.0050	"							U
Lead	U	0.020	"							U
Nickel	U	0.010	"							U
Selenium	U	0.045	"							U
Silver	U	0.0050	"							U
Thallium	U	0.030	"							U
Vanadium	U	0.0050	"							U
Zinc	U	0.010	"							U

LCS (2201009-BS1)

Prepared: 01/13/22 Analyzed: 01/14/22

EPA 6010

Antimony	0.952	0.12	mg/L	1.0000	95.2	85-115
Arsenic	4.75	0.15	"	5.0000	95.0	85-115
Barium	4.98	0.015	"	5.0000	99.6	85-115
Beryllium	0.979	0.0090	"	1.0000	97.9	85-115
Cadmium	0.977	0.015	"	1.0000	97.7	85-115
Chromium	4.93	0.015	"	5.0000	98.6	85-115
Lead	4.85	0.060	"	5.0000	97.0	85-115
Nickel	0.974	0.030	"	1.0000	97.4	85-115
Selenium	0.976	0.14	"	1.0000	97.6	85-115
Silver	0.0985	0.015	"	0.10000	98.5	85-115
Thallium	0.183	0.090	"	0.20000	91.4	85-115
Vanadium	0.961	0.015	"	1.0000	96.1	85-115
Zinc	0.992	0.030	"	1.0000	99.2	85-115



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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D.A.R.T. Id: 22-0050

Project: 22-0050, TAV Holdings, Inc. - Greenville, GA - Reported by Stephanie McCarthy

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 2201009 - M 200.2 TCLP

Matrix Spike (2201009-MS1)

Source: E214903-03

Prepared: 01/13/22 Analyzed: 01/14/22

EPA 6010

Antimony	0.929	0.20	mg/L	1.0000	U	92.9	75-125			
Arsenic	4.76	0.25	"	5.0000	0.0209	94.7	75-125			
Barium	5.54	0.025	"	5.0000	2.71	56.6	75-125			QM-1
Beryllium	0.963	0.015	"	1.0000	U	96.3	75-125			
Cadmium	1.02	0.025	"	1.0000	0.167	85.7	75-125			
Chromium	4.79	0.025	"	5.0000	0.00568	95.8	75-125			
Lead	5.89	0.10	"	5.0000	4.54	27.0	75-125			QM-1
Nickel	0.972	0.050	"	1.0000	0.141	83.0	75-125			
Selenium	0.970	0.22	"	1.0000	U	97.0	75-125			
Silver	0.0955	0.025	"	0.10000	0.00264	92.9	75-125			
Thallium	0.193	0.15	"	0.20000	0.0872	53.1	75-125			QM-1
Vanadium	0.938	0.025	"	1.0000	U	93.8	75-125			
Zinc	5.22	0.050	"	1.0000	16.7	-1150	75-125			XM-1

Matrix Spike Dup (2201009-MSD1)

Source: E214903-03

Prepared: 01/13/22 Analyzed: 01/14/22

EPA 6010

Antimony	0.945	0.20	mg/L	1.0000	U	94.5	75-125	1.79	25	
Arsenic	4.78	0.25	"	5.0000	0.0209	95.2	75-125	0.531	20	
Barium	5.63	0.025	"	5.0000	2.71	58.3	75-125	1.47	25	QM-1
Beryllium	0.972	0.015	"	1.0000	U	97.2	75-125	0.882	25	
Cadmium	1.03	0.025	"	1.0000	0.167	86.4	75-125	0.700	25	
Chromium	4.84	0.025	"	5.0000	0.00568	96.7	75-125	0.998	25	
Lead	5.95	0.10	"	5.0000	4.54	28.2	75-125	1.03	25	QM-1
Nickel	0.976	0.050	"	1.0000	0.141	83.4	75-125	0.429	25	
Selenium	0.983	0.22	"	1.0000	U	98.3	75-125	1.35	25	
Silver	0.0959	0.025	"	0.10000	0.00264	93.2	75-125	0.396	25	
Thallium	0.209	0.15	"	0.20000	0.0872	61.2	75-125	7.97	25	QM-1
Vanadium	0.954	0.025	"	1.0000	U	95.4	75-125	1.68	25	
Zinc	5.25	0.050	"	1.0000	16.7	-1140	75-125	0.592	25	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: 22-0050

Project: 22-0050, TAV Holdings, Inc. - Greenville, GA - Reported by Stephanie McCarthy

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 2201009 - M 200.2 TCLP

MRL Verification (2201009-PS1)

Prepared: 01/13/22 Analyzed: 01/14/22

EPA 6010

Antimony	0.0404	0.040	mg/L	0.040000		101	70-130			MRL-9
Arsenic	0.0542	0.050	"	0.050000		108	70-130			MRL-9
Barium	0.00745	0.0050	"	0.0050000		149	70-130			MRL-9, QR-2
Beryllium	0.00307	0.0030	"	0.0030000		102	70-130			MRL-9
Cadmium	0.00525	0.0050	"	0.0050000		105	70-130			MRL-9
Chromium	0.00566	0.0050	"	0.0050000		113	70-130			MRL-9
Lead	0.0205	0.020	"	0.020000		103	70-130			MRL-9
Nickel	0.0104	0.010	"	0.010000		104	70-130			MRL-9
Selenium	0.0443	0.045	"	0.045000		98.4	70-130			MRL-9, U
Silver	0.00480	0.0050	"	0.0050000		95.9	70-130			MRL-9, U
Thallium	0.0318	0.030	"	0.030000		106	70-130			MRL-9
Vanadium	0.00385	0.0050	"	0.0050000		77.0	70-130			MRL-9, U
Zinc	0.0106	0.010	"	0.010000		106	70-130			MRL-9



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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
MRL-9	MRL verification for TCLP matrix
QM-1	Matrix Spike Recovery less than method control limits
QR-2	MRL verification recovery greater than upper control limits.
XM-1	Sample background/spike ratio higher than method evaluation criteria

END OF REPORT