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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 4
Laboratory Services and Applied Science Division
Applied Science Branch
980 College Station Road
Athens, Georgia 30605-2720

March 18, 2021

4SESD-EIB

MEMORANDUM

SUBJECT: Ore Knob Potable Water Sampling Final Report
Jefferson, North Carolina
LSASD Project No. 21-0027

FROM: Brian Striggow, Environmental Engineer
Superfund Section
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THRU: Liza Montalvo, Acting Chief
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TO: Randall Bryant, Remedial Project Manager
Superfund and Emergency Management Division

Attached find the Ore Knob Potable Water Sampling Final Report for work conducted in November 2020 and January 2021. Please feel free to contact me at (706) 355-8619 or email striggow.brian@epa.gov .

Attachment

Project ID: 21-0027

FY21 Ore Knob Potable Water Sampling

Jefferson, North Carolina

Project Dates:
November 16-19 2020, January 25 2021

Report Date: March 18, 2021

Project Leader: Brian Striggow
Superfund Section
Applied Science Branch
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USEPA – Region 4
980 College Station Road
Athens, Georgia 30605-2720

The activities depicted in this report are accredited under the US EPA Region 4 Laboratory Services & Applied Science Division ISO/IEC 17025 accreditation issued by the ANSI-ASQ National Accreditation Board. Refer to certificate and scope of accreditation AT-1644.

Requestor:

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Brian Striggow
Superfund Section
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Date

Approving Official:

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Liza Montalvo, Acting Chief
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Date

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1.0 Introduction

Beginning the week of November 16, 2020, representatives of the US EPA Region 4 Laboratory Services and Applied Science Division (LSASD) conducted a sampling investigation in the vicinity of the Ore Knob Mine Site (Site) near Jefferson, North Carolina. The purpose of the investigation was to verify the continued efficacy of water treatment systems and the safety of nearby untreated water sources. A failed water softener discovered in the first mobilization was replaced and the system was resampled in a subsequent mobilization. Reverse Osmosis (RO) point-of-use systems have been installed at all Site homes with water softeners and the output from these systems was also sampled.

Analytical results will be used to assess the safety of water sources and treated household water systems in the Site vicinity and to inform an ongoing remedial investigation (RI). Potable water supply sampling has been conducted yearly at the Site for several years and this document presents the results of sampling begun in the 2021 fiscal year.

Initial potable well sampling established that household water systems in the vicinity of the Site, and other nearby potential at-risk potable water sources, met Site Specific Risk Based Levels (SSRBLs) for metals as of April 2013. To ensure the continued safety of household water use, yearly sampling of treatment systems with impacted wells and other nearby water sources has been conducted since.

LSASD engineer Brian Striggow served as project leader and supervised the field operations directly. Samples were analyzed by the LSASD analytical laboratory in accordance with the Laboratory Services Branch Laboratory Operations and Quality Assurance Manual (LSBLOQAM). The investigation was requested by Craig Zellar, Remedial Project Manager (RPM), Region 4 Superfund Division, since replaced by RPM Randall Bryant.

The following personnel staffed the investigation:

NAME	ORGANIZATION	DUTIES
Mobilization 1, 11/16/20 to 11/19/20:		
Brian Striggow	USEPA LSASD	Project Leader
Malcolm Grieve	USEPA LSASD	Site Safety Officer, Sample Custodian
Mobilization 2, 1/25/21 to 1/26/21:		
Brian Striggow	USEPA LSASD	Project Leader
Malcolm Grieve	USEPA LSASD	Site Safety Officer, Sample Custodian

2.0 Summary

Sixteen wells with operating water softener treatment systems and RO point-of-use systems, four untreated wells, and two spring-fed water systems were sampled in the yearly sampling of water systems in the vicinity of the Ore Knob Mine Site. All samples were submitted for total metals analysis.

Exceedances of the SSRBLs for cobalt and manganese resulted in the replacement of the water softener at OK710. Resampling of this system in a second deployment showed it to be operating effectively.

Fourteen of the Sixteen water softener treatment systems sampled exceed the sodium level prescribed by a USEPA Office of Water Drinking Water Advisory (DWA) of 20,000 µg/L for individuals on a sodium restricted diet. The reverse osmosis (RO) systems installed to remove sodium from softened water were effective in all cases at removing sodium.

3.0 Background

The Ore Knob Site (EPA ID NCN000409895) is located in Ashe County, North Carolina, about 12 miles south of the Virginia state line, 10 miles east of the town of West Jefferson, and 30 miles north of the city of Boone. The Site was mined intermittently from 1855 through 1962, with most activity taking place from 1873 to 1883 and from 1957 through 1962. The Site consists of three principal areas that were affected by mining, plus downstream surface waters, sediment, sediment porewater, and floodplain soils. The Site includes:

<u>Areas where nineteenth century operations took place, located near the top of Ore Knob</u>. These areas include a series of barren and nearly barren areas near the top of Ore Knob (about five acres) that comprise dumps of waste rock from at least eleven mine shafts as well as areas (another five acres) where ore was roasted to drive off sulfur and smelted to recover the copper. A wooded area to the northwest, between the top of the knob and the tailings pond, reportedly has five sealed/blocked adits from which issues acid mine drainage; four of these small-volume sources are treated in buried anoxic limestone drains constructed in the early 1990s as a Clean Water Act §319 demonstration project. Drainage from this area flows into one of two tributaries that come together at the tailings impoundment to form a tributary to Peak Creek.

<u>The mill site area where ore beneficiation took place during 1957-1962 operations.</u> This 15-acre area lies about 0.3 miles west-southwest of the nineteenth century operations. The mill site itself includes derelict ore bins, concrete mill foundations, a transformer building, and other ruins. A small sawmill operated on the Site. The mill site portion of the Site includes a two-acre area to the north that had contained about 10,000 cubic yards (±20 percent) of tailings from the mill and mine development (waste) rock, since removed in a Removal Action. There is also a former pond, also about two acres, where process water was stored. This former pond now is a wetland that appears to serve as the headwaters of Little Peak Creek, which flows through a breach in the dam of the former process water pond downstream for 2.25 miles before discharging into Peak Creek.

A 20-acre tailings impoundment about 0.3 miles northeast of the 19th century operations. Much of this impoundment contains tailings from the 1957-1962 operation, although the upper end may contain residual fines from nineteenth century roasting and smelting.

An Expanded Site Investigation (ESI) was conducted in 2007 addressing the entire site and a subsequent Removal Action addressed tailing impoundment runoff and stability. During the 2007 ESI, seven potable water sources were sampled including a well sampled as background. In April 2010, it was determined that several wells exceeded health-based levels for cobalt and manganese.

In an extended investigation beginning in April 2010 and ending in June 2012, LSASD (then SESD) sampled wells, springs, and treated potable water in the vicinity of the Site. Treatment systems were installed or repaired where source water was impacted by site-associated contaminants. At the conclusion of the investigation, all water sources and treatment systems produced water not exceeding SSRBLs for metals (EPA 2013). Sampling of potable water sources has since been conducted on a yearly basis to assure the continued efficacy of treatment systems and that nearby untreated sources remain un-impacted by Site contaminants. Installation of point-of-use Reverse Osmosis systems to reduce sodium in drinking and cooking water has been completed for homes using water softeners.

4.0 Field Methodology

A Sampling and Analysis Plan (SAP) was used to guide Site activities for the two mobilizations. The following LSASD procedures were cited in the SAP and used in this study:

LSASDPROC-100-R5	Field pH Measurement
LSASDPROC-101-R7	Field Specific Conductance Measurement
LSASDPROC-102-R5	Field Temperature Measurement
LSASDPROC-103-R4	Field Turbidity Measurement
LSASDPROC-110-R5	Global Positioning System
LSASDPROC-305-R4	Potable Water Supply Sampling

Specific procedures are discussed below.

Potable Water Sampling:

Treated water was collected from taps connected to the treatment system, which were generally indoor kitchen taps. Systems were purged for a minimum of 15 minutes. Site experience has indicated that water quality parameter stability may not be achieved easily and the extended purge times required to achieve stability are not thought to improve sample representativeness. Sample containers were filled directly from the purge tap.

The Reverse Osmosis systems have a small pressure tank that stores the slowly generated RO water. The systems were sampled at the single point-of-use by filling

one 500 mL container for measurement of water quality parameters and then filling the sample containers.

The various untreated pump systems at the OK713 well were purged and sampled from taps at the wellhead. The OK720, OK736, and OK779B systems were sampled from outdoor taps.

The spring at the OK703 station was sampled by disconnecting a springhouse overflow fitting. The overflow water was used for measurement of water quality parameters and sample collection. Stability of water quality parameters was verified as with the potable wells. The spring at the OK722 station was sampled from a continuously flowing overflow pipe leading from the springhouse.

GPS:

Latitudes and longitudes for all sampled locations were previously recorded in the Region 4 EQuIS data storage system. GPS was used only for navigation and disambiguation of well systems.

Sample Naming Convention:

Samples were named as follows:

PWXXX-MMYYZZ

Where:
PW designates a potable water sample
XXX is the numeric portion of the station ID
MM is the month
YY is the year
Z is optional designator suffixes where
A,B,C, or D = pump designators at the OK713 well.
F = Post-treatment water sample
R = Reverse Osmosis system sample
S = Split sample

5.0 Results / Discussion

The sampled water sources are mapped in *Figure 1, Water Source Locations*. A list of the sample locations and the analyses conducted are listed in *Table 1, Stations, Samples, Analyses, and Methods*. Analytical results are presented in *Table 2, Total Metals Analytical Results with Comparison to SSRBLs.*

Table 3, Water Quality Parameters presents pH, specific conductance, temperature, and turbidity measured at the time of sampling. Quality Assurance results are presented in *Table 4, Split Sample Comparison. Table 5, Stations, Addresses, and Geographical Coordinates* presents the locations of all stations both as geographical coordinates and street addresses.

In *Table 2, Total Metals Analytical Results with Comparison to SSRBLs,* detection and reporting levels are compared to Site Specific Risk Based Levels. The Superfund Scientific Services Section (SSS) has evaluated the risk levels for Site analytes and determined

SSRBLs appropriate for uses of potable water at the Site. Beyond the common exceedances for sodium in softened water, there were exceedances of SSRBLs only at the at the OK710 system in the first mobilization. The system was resampled in a second mobilization after replacement of the water softener, with only an exceedance for sodium in the follow-up sampling of softened water. The RO system reduced the sodium to below the DWA.

5.1 Individual Water Systems

OK703 Spring

The OK703 station is a spring-fed water system that supplies a number of homes on Ore Knob Mine Road. The system has been included in regular sampling due to its proximity to the historical mine. There were no exceedances of SSRBLs for metals for the OK703 sample. The overflow from the OK703 springhouse feeds a second springhouse that feeds several homes at the top of Ore Valley Rd. The results of the OK703 sample should also be representative of the water consumed by the second springhouse users.

OK710 Well

In the initial mobilization at this system, manganese was found in softened water at 1400 µg/L, exceeding the SSRBL of 880 µg/L. The low sodium level of 4600 µg/L in softened water indicated that the softener was not operating properly and was scheduled for replacement. There were no exceedances of SSRBLs in the RO water results in the initial mobilization.

A second mobilization was conducted on January 25 to resample the system after the softener replacement. The only exceedance of an SSRBL was sodium at 43,000 µg/L and 45,000 µg/L in a softened water sample and its split counterpart. Sodium was reduced in RO water to 3300 µg/L.

OK711 Well

The water softener at this home was replaced in 2020 after apparently failing and an RO system was installed. The system was resampled in last year's project and was found to be operating and reducing contaminant levels below SSRBLs. In this year's sampling, cobalt was found in softened water at 9.6 µg/L and manganese at 670 µg/L, both a significant percentage of the SSRBL. Sodium was 130,000 µg/L, indicating that the softener was operating. These levels are similar to those found last year after softener replacement. As in last year's results, the RO system reduced the level of contaminants significantly.

OK713 Well

The well at station OK713 consists of a reported flooded mine airshaft with a rudimentary welded protective wellhead. The wellhead has provisions for four submersible pumps, all of which are installed. The water produced from these systems is used unfiltered and untreated. In the initial work, the systems were differentiated by 'A', 'B', 'C', and 'D'

suffixes to the sample name and the naming convention has been maintained for subsequent sampling. The individual pumps supply adjacent mobile homes at 717 and 721 Little Peak Creek Road and two nearby mobile homes at 857 and 863 Ore Knob Road. The relationship of pumps to households was recently resolved in prior work and is detailed in *Table 5, Stations, Addresses, and Geographical Coordinates*. As the setting depth for the individual pumps is unknown, all have been sampled as the systems were available. In this work, the 'C' system was unavailable for sampling and its associated home was unoccupied.

There were no exceedances of an SSRBL for any sample collected at OK713. There have been lead detections in the past at this well and an exceedance of the SSRBL and MCL for lead. In this work, lead was detected at levels of 0.53 µg/L in a sample from the 'A' system and at 3.5 µg/L in a split sample from the 'B' system.

OK722 Spring and OK720 Well

The OK722 spring is located on Ore Valley Rd and supplies a home on Mine Rd. The spring was sampled at the request of the water user. The owner of the property where the spring is located uses a well (OK720) on the property which was also sampled at owner request. There were no exceedances of SSRBLs for metals in the analytical results for either sample.

OK750 Well

This well supplies a seasonally occupied home for a group of migrant workers. At the time of sampling the system consisted of an array of three water softeners connected in parallel feeding the building plumbing system and a point-of-use RO system in three kitchens. The water softener treated sample collected at the OK750 station had no detections other than the SSRBL exceedance for sodium with a concentration of 130,000 µg/L. There were no SSRBL exceedances in the three RO samples collected with sodium reduced to 11,000 µg/L or less.

OK762 Well

In the FY20 project, this home was found to have a non-functioning water softener. The softener was scheduled for replacement as well as installation of an RO system, but the new systems could not be scheduled for sampling as part of the FY20 project. This project was the first sampling of the new water softener and RO system. Sodium exceeded the SSRBL in treated water with a level of 130,000 µg/L but was reduced to 11,000 µg/L in the RO water. There were no other SSRBL exceedances.

OK779B Well

Per reports from the homeowner, several years ago the water from the OK779 well became turbid and the taste changed, possibly related to blasting that occurred as part of the removal action at the 20-acre tailings pond. The well has been sampled as part of the annual sampling events since 2012 and a water softener was installed in July 2012 with subsequent installation of particulate filters to manage turbidity.

As a result of the continuing difficulties the homeowner has experienced with this well, the well was reworked by deepening the original well with isolation of the upper water-bearing zones. After the rework, the well was renamed OK779B.

A water softener is installed here but was not in use. There were no exceedances of SSRBLs for metals in the field sample or its split counterpart. Lead was found at a concentration of 0.82 µg/L in the field sample but was non-detect in the split counterpart with a reporting level of 0.50 µg/L.

5.2 Sulfate and Mercury

Samples from wells near the Site have typically been analyzed for sulfates to support the ongoing RI and to compare levels to the USEPA Office of Water Drinking Water Advisory (DWA) level of 500 mg/L for sulfates (the DWAs are included in the SSRBLs). A review of historical results showed that sulfate DWA exceedances have been rare (two have occurred) and none have occurred since 2011. Consequently, sulfate analysis has been dropped from the analyses performed on Site potable water.

There have only been seven detections of mercury in potable water since 2010 with the highest level found an estimated concentration of 0.13 µg/L. As the SSRBL for mercury is 2 µg/L, mercury has also been dropped from the analyses regularly performed.

5.3 Sodium in Treated Water and Reverse Osmosis Systems

The water treatment systems in use in the Site vicinity are primarily water softeners. The softeners operate by sorbing sodium ions from a concentrated brine solution to a resin or zeolite bed. When well water is subsequently run through the bed, divalent cations such as manganese and ferrous iron displace the sodium ions, which are discharged in the treated water. The treated water thus often exceeds the sodium DWA level of 20,000 µg/L for individuals on a restricted sodium diet.

Reverse Osmosis systems have been added to all softened systems at the Site for kitchen sink point-of-use to reduce the sodium levels in the water softener output and to serve as a backup to water softeners. All of the RO systems were sampled in this project. In all cases the RO water had reduced sodium below the DWA.

5.4 Field Quality Control

Field quality control for this study consisted of four field split samples, with three collected in the first mobilizations, and one in the subsequent second mobilization.

Split sample results are presented in *Table 4, Split Sample Comparison*. Relative Percent Differences (RPDs) were calculated for each analyte detected in at least one sample of a field sample and split sample pair. The formula used for calculating RPD was:

$$RPD\% = 100\% * \frac{|\,Split\ Sample\ Result - Field\ Sample\ Result\,|}{Average\ of\ Split\ Sample\ Result\ and\ Field\ Sample\ Result}$$

Split samples for potable well work would generally be expected to agree to within 25% RPD and most of the split sample results meet this guideline. However, two results at both OK713 and OK779B in the first mobilization exceeded this guideline. At OK713 lead was non-detect in the field sample with a reporting level of 0.50 µg/L and was found in the split sample at 3.5 µg/L, resulting in a calculated RPD of 150% if the reporting level is used for comparison. Iron was detected at 110 µg/L in the field sample and 190 µg/L in the split sample, resulting in an RPD of 53%. Other analytes at OK713 had low RPDs, including five with an RPD of 0%. Copper in an OK779B field sample at 13 µg/L compared to a non-detect in the split sample resulted in an RPD of 26%. Also at OK779B, lead was detected in the field sample at 0.82 µg/L and was non-detect in the split sample with a reporting level of 0.50 µg/L, resulting in an RPD of 48%. This situation, with low-level detections near the reporting level, can result in large numeric RPDs but do not raise concern. The OK713 split sample agreement is more concerning. This well is difficult to sample with sample taps located in a dirty cramped wellhouse. Perhaps disturbing the taps during sample or ambient dust contributed by the environment resulted in the disparity. Aside from the noted, the split sample agreement is reasonable and indicates sample variability should not be a cause for concern.

The preservatives used in this study were individually packaged with each lot evaluated under LSASD's Quality Control program, negating the need for preservative blanks as a part of field quality control.

Other than the noted variability at OK713, the quality control sample results do not raise concerns over the usability of analytical results.

6.0 Conclusions

In the initial mobilization, one water softener was found to have failed. It was replaced and was found to be effective upon resampling.

Sodium continues to significantly exceed the DWA of 20,000 µg/L for in the output of most water softener systems. All RO systems at the Site were sampled and proved effective at lowering sodium levels below the DWA. In the case of a failing water softener, the RO system prevented contamination in the RO water from exceeding the SSRBLs.

7.0 References

Black & Veatch, Expanded Site Inspection Report, Ore Knob Former Mine Site. September 2008

Black & Veatch, Final sampling and Analysis Plan for Integrated Site Assessment of the Ore Knob Former Mine Site. 6 July, 2007

USEPA Office of Water, Drinking Water Advisory: Consumer Acceptability Advice and Health Effects Analysis on Sulfate - EPA 822-R-03-007. February 2003

USEPA LSASD, "Field Branches Quality System and Technical Procedures". Most recent versions: http://www. https://www.epa.gov/quality/quality-system-and-technical-procedures-lsasd-field-branches

USEPA LSASD, Ore Knob Potable Water Sampling Final Report, 13 October 2020

USEPA LSASD, Sample and Analysis Plan for Ore Knob Potable Water Sampling. 5 November, 2020

Appendix A

Figures

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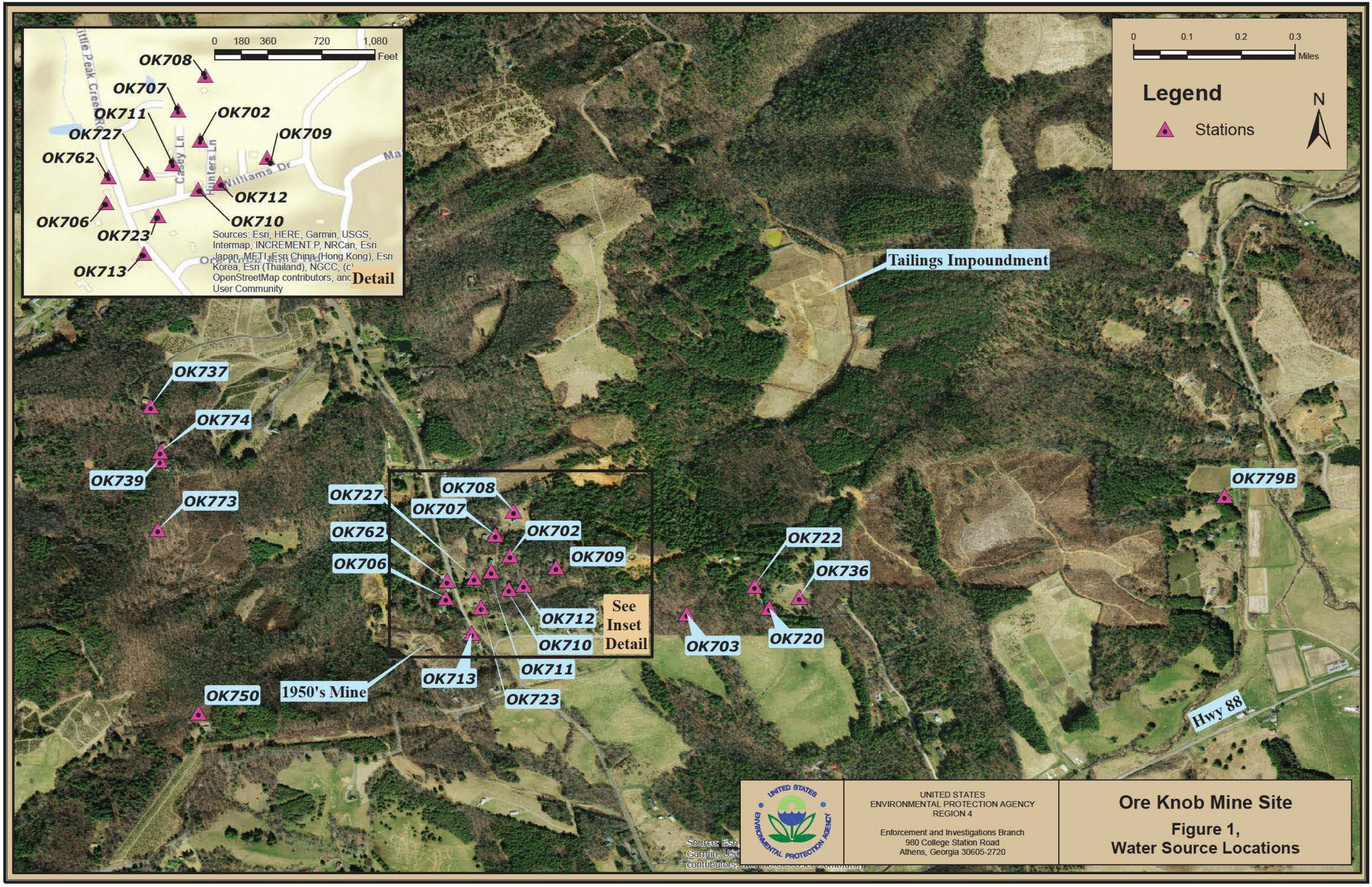
0 180 360 720 1,080
Feet
OK708
OK707
OK711
OK727
OK762
OK702
OK709
OK712
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OK706
OK723
OK713
Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User Community
Detail
0 0.1 0.2 0.3
Miles
Legend
Stations
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Tailings Impoundment
OK737
OK774
OK739
OK773
OK727
OK708
OK707
OK702
OK762
OK709
OK706
OK712
OK710
OK713
OK711
OK723
1950's Mine
OK750
See Inset Detail
OK703
OK722
OK736
OK720
OK779B
Hwy 88
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ENVIRONMENTAL PROTECTION AGENCY
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Ore Knob Mine Site
Figure 1,
Water Source Locations

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Appendix B

Tables

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Station ID	Sample ID	Sample Date/Time	Matrix	(Total Metals by ICP/MS)	(Total Metals by ICP)
			Method	Total Metals: EPA 200.8	Total Metals: EPA 6010
OK702	PW702-1120F	11/18/2020 13:50	Treated Water	X	X
	PW702-1120R	11/18/2020 13:55	RO Water	X	X
OK703	PW703-1120	11/17/2020 12:10	Spring Water	X	X
OK706	PW706-1120F	11/17/2020 17:10	Treated Water	X	X
	PW706-1120R	11/17/2020 17:15	RO Water	X	X
OK707	PW707-1120F	11/16/2020 17:05	Treated Water	X	X
	PW707-1120R	11/16/2020 17:10	RO Water	X	X
OK708	PW708-1120F	11/16/2020 15:45	Treated Water	X	X
	PW708-1120R	11/16/2020 15:50	RO Water	X	X
OK709	PW709-1120F	11/17/2020 9:25	Treated Water	X	X
	PW709-1120R	11/17/2020 9:30	RO Water	X	X
OK710	PW710-1120F	11/18/2020 12:30	Treated Water	X	X
	PW710-1120R	11/18/2020 12:35	RO Water	X	X
	PW710-0121F	1/25/2021 15:25	Treated Water	X	X
	PW710-0121FS	1/25/2021 15:30	Treated Water	X	X
	PW710-0121R	1/25/2021 15:35	RO Water	X	X
OK711	PW711-1120F	11/16/2020 16:30	Treated Water	X	X
	PW711-1120R	11/16/2020 16:35	RO Water	X	X
OK712	PW712-1120F	11/18/2020 13:10	Treated Water	X	X
	PW712-1120R	11/18/2020 13:15	RO Water	X	X
OK713	PW713-1120A	11/17/2020 14:35	Un-treated Water	X	X
	PW713-1120B	11/17/2020 14:55	Un-treated Water	X	X
	PW713-1120BS	11/17/2020 15:00	Un-treated Water	X	X
	PW713-1120D	11/17/2020 15:20	Un-treated Water	X	X
OK720	PW720-1120	11/17/2020 11:05	Un-treated Water	X	X
OK722	PW722-1120	11/17/2020 10:25	Spring Water	X	X
	PW722-1120S	11/17/2020 10:30	Spring Water	X	X
OK723	PW723-1120F	11/17/2020 16:00	Treated Water	X	X
	PW723-1120R	11/17/2020 16:05	RO Water	X	X
OK727	PW727-1120F	11/17/2020 13:45	Treated Water	X	X
	PW727-1120R	11/17/2020 13:50	RO Water	X	X
OK736	PW736-1120	11/17/2020 11:35	Un-treated Water	X	X
OK737	PW737-1120F	11/19/2020 10:10	Treated Water	X	X
	PW737-1120R	11/19/2020 10:15	RO Water	X	X
OK739	PW739-1120F	11/17/2020 16:30	Treated Water	X	X
	PW739-1120R	11/17/2020 16:35	RO Water	X	X
OK750	PW750-1120F	11/19/2020 11:20	Treated Water	X	X
	PW750-1120R1	11/19/2020 11:25	RO Water	X	X
	PW750-1120R2	11/19/2020 11:30	RO Water	X	X
	PW750-1120R3	11/19/2020 11:35	RO Water	X	X
OK762	PW762-1120F	11/19/2020 9:30	Treated Water	X	X
	PW762-1120R	11/19/2020 9:35	RO Water	X	X
OK773	PW773-1120F	11/17/2020 12:50	Treated Water	X	X
	PW773-1120R	11/17/2020 12:50	RO Water	X	X
OK774	PW774-1120F	11/19/2020 11:00	Treated Water	X	X
	PW774-1120R	11/19/2020 11:10	RO Water	X	X
OK779B	PW779B-1120	11/18/2020 11:10	Un-treated Water	X	X
	PW779B-1120S	11/18/2020 11:15	Un-treated Water	X	X

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Table 2, Total Metals Analytical Results with Comparison to SSRBLs[1]

		Station ID	OK702	OK702	OK703	OK706	OK706	OK707	OK707	OK708	OK708	OK709	OK709
		Sample ID	PW702-1120F	PW702-1120R	PW703-1120	PW706-1120F	PW706-1120R	PW707-1120F	PW707-1120R	PW708-1120F	PW708-1120R	PW709-1120F	PW709-1120R
		Sample Date	11/18/2020 13:50	11/18/2020 13:55	11/17/2020 12:10	11/17/2020 17:10	11/17/2020 17:15	11/16/2020 17 05	11/16/2020 17:10	11/16/2020 15:45	11/16/2020 15:50	11/17/2020 9:25	11/17/2020 9:30
Analyte	**Units**	**Comparison Standard**											
Aluminum	ug/L	<ORE KNOB SSRBL (March 2013): 34000 ug/l >	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U
Antimony	ug/L	<ORE KNOB SSRBL (March 2013): 6 ug/l >	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Arsenic	ug/L	<ORE KNOB SSRBL (March 2013): 10 ug/l >	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Barium	ug/L	<ORE KNOB SSRBL (March 2013): 2000 ug/l >	5.0 U	5.0 U	31	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Beryllium	ug/L	<ORE KNOB SSRBL (March 2013): 4 ug/l >	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Cadmium	ug/L	<ORE KNOB SSRBL (March 2013): 5 ug/l >	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
Calcium	ug/L		250 U	570	2700	250 U	250 U	250 U	250 U	250 U	260	250 U	1400
Chromium	ug/L	<ORE KNOB SSRBL (March 2013): 100 ug/l >	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Cobalt	ug/L	<ORE KNOB SSRBL (March 2013): 11 ug/l >	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Copper	ug/L	<ORE KNOB SSRBL (March 2013): 1300 ug/l >	10 U	10 U	10 U	10 U	10 U	10 U	10 U	46	10 U	32	10 U
Iron	ug/L	<ORE KNOB SSRBL (March 2013): 24000 ug/l >	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U
Lead	ug/L	<ORE KNOB SSRBL (March 2013): 15 ug/l >	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	2.3	0.50 U	1.5	0.50 U
Magnesium	ug/L		250 U	450	1200	250 U	250 U	250 U	250 U	250 U	250 U	250 U	1100
Manganese	ug/L	<ORE KNOB SSRBL (March 2013): 880 ug/l >	5.0 U	24	35	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	32
Molybdenum	ug/L	<ORE KNOB SSRBL (March 2013): 170 ug/l >	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Nickel	ug/L	<ORE KNOB SSRBL (March 2013): 100 ug/l >	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Potassium	ug/L		1000 U	1000 U	1100	1000 U	1000 U	1000 U	1000 U	1000 U	1000 U	1000 U	1000 U
Selenium	ug/L	<ORE KNOB SSRBL (March 2013): 50 ug/l >	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Silver	ug/L	<ORE KNOB SSRBL (March 2013): 150 ug/l >	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Sodium	ug/L	<ORE KNOB SSRBL (March 2013): 20000 ug/l >	160000 ^	12000	1700	67000 ^	5200	86000 ^	3600	21000 ^	3300	74000 ^	8600
Strontium	ug/L	<ORE KNOB SSRBL (March 2013): 20000 ug/l >	5.0 U	6.5 U,O	30	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	16 U,O
Thallium	ug/L	<ORE KNOB SSRBL (March 2013): 2 ug/l >	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Tin	ug/L	<ORE KNOB SSRBL (March 2013): 20000 ug/l >	15 U	15 U	15 U	15 U	15 U	15 U	15 U	15 U	15 U	15 U	15 U
Titanium	ug/L		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Vanadium	ug/L	<ORE KNOB SSRBL (March 2013): 170 ug/l >	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Yttrium	ug/L		3.0 U	3.0 U	14	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Zinc	ug/L	<ORE KNOB SSRBL (March 2013): 10000 ug/l >	10 U	10 U	65	42	10 U	10 U	10 U	28	10 U	10 U	80

Qualifiers: U-non-detect, J-estimated, O-other-see lab data sheets

[1] Site-Specific risk Based Levels

Legend:

Non-Detect	Detection	Detection w/ Exceedance
5.0 U	32	91000 ^

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Table 2, Total Metals Analytical Results with Comparison to SSRBLs[1]

		Station ID	OK710	OK710	OK710	OK710	OK710	OK711	OK711	OK712	OK712	OK713	OK713	OK713	OK713
		Sample ID	PW710-1120F	PW710-1120R	PW710-0121F	PW710-0121FS	PW710-0121R	PW711-1120F	PW711-1120R	PW712-1120F	PW712-1120R	PW713-1120A	PW713-1120B	PW713-1120BS	PW713-1120D
		Sample Date	11/18/2020 12:30	11/18/2020 12:35	1/25/2021 15:25	1/25/2021 15:30	1/25/2021 15:35	11/16/2020 16:30	11/16/2020 16:35	11/18/2020 13:10	11/18/2020 13:15	11/17/2020 14:35	11/17/2020 14:55	11/17/2020 15:00	11/17/2020 15:20
Analyte	**Units**	**Comparison Standard**													
Aluminum	ug/L	<ORE KNOB SSRBL (March 2013): 34000 ug/l >	100 U	100 U	100 U	100 U	100 U	260	100 U	100 U	100 U	100 U	100 U	100 U	100 U
Antimony	ug/L	<ORE KNOB SSRBL (March 2013): 6 ug/l >	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Arsenic	ug/L	<ORE KNOB SSRBL (March 2013): 10 ug/l >	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Barium	ug/L	<ORE KNOB SSRBL (March 2013): 2000 ug/l >	6.0	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	50	52	53	56
Beryllium	ug/L	<ORE KNOB SSRBL (March 2013): 4 ug/l >	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Cadmium	ug/L	<ORE KNOB SSRBL (March 2013): 5 ug/l >	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0 27	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
Calcium	ug/L		24000	1200	250 U	250 U	700	6700	370	250 U	250 U	6700	6100	6100	6300
Chromium	ug/L	<ORE KNOB SSRBL (March 2013): 100 ug/l >	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Cobalt	ug/L	<ORE KNOB SSRBL (March 2013): 11 ug/l >	7.9	5.0 U	5.0 U	5.0 U	5.0 U	9.6	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Copper	ug/L	<ORE KNOB SSRBL (March 2013): 1300 ug/l >	10 U	10 U	10 U	10 U	10 U	17	10 U	110	10 U	10 U	10 U	10 U	14
Iron	ug/L	<ORE KNOB SSRBL (March 2013): 24000 ug/l >	4700	100 U	100 U	100 U	100 U	2800	100 U	180	100 U	100 U	110	190	130
Lead	ug/L	<ORE KNOB SSRBL (March 2013): 15 ug/l >	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	2.0	0.50 U	0 53	0.50 U	3 5	0.50 U
Magnesium	ug/L		3000	250 U	250 U	250 U	250 U	570	250 U	250 U	250 U	1800	1600	1600	1700
Manganese	ug/L	<ORE KNOB SSRBL (March 2013): 880 ug/l >	1400 ^	73	5.0 U	5.0 U	42	670	22	5.0 U	5.0 U	8.7	13	13	15
Molybdenum	ug/L	<ORE KNOB SSRBL (March 2013): 170 ug/l >	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Nickel	ug/L	<ORE KNOB SSRBL (March 2013): 100 ug/l >	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Potassium	ug/L		4800	1400	1000 U	1000 U	1000 U	1000 U	1000 U	1000 U	1000 U	1400	1400	1300	1400
Selenium	ug/L	<ORE KNOB SSRBL (March 2013): 50 ug/l >	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Silver	ug/L	<ORE KNOB SSRBL (March 2013): 150 ug/l >	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Sodium	ug/L	<ORE KNOB SSRBL (March 2013): 20000 ug/l >	4600	1500	43000 ^	45000 J,O ^	3300	130000 ^	12000	36000 ^	4400	1900	1900	1900	2000
Strontium	ug/L	<ORE KNOB SSRBL (March 2013): 20000 ug/l >	68	5.0 U	5.0 U	5.0 U	5.0 U	19 U,O	5.0 U	5.0 U	5.0 U	51	46	46	50 U,O
Thallium	ug/L	<ORE KNOB SSRBL (March 2013): 2 ug/l >	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Tin	ug/L	<ORE KNOB SSRBL (March 2013): 20000 ug/l >	15 U	15 U	15 U	15 U	15 U	15 U	15 U	15 U	15 U	15 U	15 U	15 U	15 U
Titanium	ug/L		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Vanadium	ug/L	<ORE KNOB SSRBL (March 2013): 170 ug/l >	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Yttrium	ug/L		3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	9.8	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Zinc	ug/L	<ORE KNOB SSRBL (March 2013): 10000 ug/l >	74	10 U	10 U	10 U	10 U	140	10	80	10 U	14	21	25	22 U,O

Qualifiers: U-non-detect, J-estimated, O-other-see lab data sheets

[1] Site-Specific risk Based Levels

Legend:

Non-Detect	Detection	Detection w/ Exceedance
5.0 U	32	91000 ^

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Table 2, Total Metals Analytical Results with Comparison to SSRBLs[1]

		Station ID	OK720	OK722	OK722	OK723	OK723	OK727	OK727	OK736	OK737	OK737	OK739	OK739
		Sample ID	PW720-1120	PW722-1120	PW722-1120S	PW723-1120F	PW723-1120R	PW727-1120F	PW727-1120R	PW736-1120	PW737-1120F	PW737-1120R	PW739-1120F	PW739-1120R
		Sample Date	11/17/2020 11:05	11/17/2020 10:25	11/17/2020 10:30	11/17/2020 16 00	11/17/2020 16:05	11/17/2020 13:45	11/17/2020 13:50	11/17/2020 11:35	11/19/2020 10:10	11/19/2020 10:15	11/17/2020 16:30	11/17/2020 16:35
Analyte	**Units**	**Comparison Standard**												
Aluminum	ug/L	<ORE KNOB SSRBL (March 2013): 34000 ug/l >	880	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U
Antimony	ug/L	<ORE KNOB SSRBL (March 2013): 6 ug/l >	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.77 J,O	0.50 U	0.50 U
Arsenic	ug/L	<ORE KNOB SSRBL (March 2013): 10 ug/l >	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Barium	ug/L	<ORE KNOB SSRBL (March 2013): 2000 ug/l >	14	35	35	5.0 U	5.0 U	5.0 U	5.0 U	37	5.0 U	5.0 U	5.0 U	5.0 U
Beryllium	ug/L	<ORE KNOB SSRBL (March 2013): 4 ug/l >	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Cadmium	ug/L	<ORE KNOB SSRBL (March 2013): 5 ug/l >	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
Calcium	ug/L		26000	3300	3300	250 U	660 U,O	250 U	250 U	3200	250 U	250 U	250 U	250 U
Chromium	ug/L	<ORE KNOB SSRBL (March 2013): 100 ug/l >	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Cobalt	ug/L	<ORE KNOB SSRBL (March 2013): 11 ug/l >	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Copper	ug/L	<ORE KNOB SSRBL (March 2013): 1300 ug/l >	31	10 U	10 U	10 U	10 U	10 U	10 U	18	10 U	10 U	10 U	10 U
Iron	ug/L	<ORE KNOB SSRBL (March 2013): 24000 ug/l >	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U
Lead	ug/L	<ORE KNOB SSRBL (March 2013): 15 ug/l >	1.1	0.50 U	0.50 U	1.2	0.50 U	1.5	0.50 U	1.8	0.50 U	0.50 U	0.50 U	0.50 U
Magnesium	ug/L		1500	1400	1400	250 U	320	250 U	250 U	1400	250 U	250 U	250 U	250 U
Manganese	ug/L	<ORE KNOB SSRBL (March 2013): 880 ug/l >	5.0 U	5.0 U	5.0 U	5.0 U	31	5.0 U	5.0 U	19	5.0 U	5.0 U	5.0 U	5.0 U
Molybdenum	ug/L	<ORE KNOB SSRBL (March 2013): 170 ug/l >	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Nickel	ug/L	<ORE KNOB SSRBL (March 2013): 100 ug/l >	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Potassium	ug/L		2100	1100	1100	1000 U	1000 U	1000 U	1000 U	1100	1000 U	1000 U	1000 U	1000 U
Selenium	ug/L	<ORE KNOB SSRBL (March 2013): 50 ug/l >	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Silver	ug/L	<ORE KNOB SSRBL (March 2013): 150 ug/l >	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Sodium	ug/L	<ORE KNOB SSRBL (March 2013): 20000 ug/l >	3500	1300	1300	130000 ^	11000	52000 ^	7700	2100	160000 ^	7700	140000 ^	10000
Strontium	ug/L	<ORE KNOB SSRBL (March 2013): 20000 ug/l >	83	41 U,O	41 U,O	5.0 U	8.0 U,O	5.0 U	5.0 U	46 U,O	5.0 U	5.0 U	5.0 U	5.0 U
Thallium	ug/L	<ORE KNOB SSRBL (March 2013): 2 ug/l >	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Tin	ug/L	<ORE KNOB SSRBL (March 2013): 20000 ug/l >	15 U	15 U	15 U	15 U	15 U	15 U	15 U	15 U	15 U	15 U	15 U	15 U
Titanium	ug/L		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Vanadium	ug/L	<ORE KNOB SSRBL (March 2013): 170 ug/l >	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Yttrium	ug/L		3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Zinc	ug/L	<ORE KNOB SSRBL (March 2013): 10000 ug/l >	39 U,O	10 U	10 U	22 U,O	10 U	10 U	12 U,O	40 U,O	10 U	10 U	10 U	10 U

Qualifiers: U-non-detect, J-estimated, O-other-see lab data sheets

[1] Site-Specific risk Based Levels

Legend:

Non-Detect	Detection	Detection w/ Exceedance
5.0 U	32	91000 ^

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Table 2, Total Metals Analytical Results with Comparison to SSRBLs[1]

		Station ID	OK750	OK750	OK750	OK750	OK762	OK762	OK773	OK773	OK774	OK774	OK779B	OK779B
		Sample ID	PW750-1120F	PW750-1120R1	PW750-1120R2	PW750-1120R3	PW762-1120F	PW762-1120R	PW773-1120F	PW773-1120R	PW774-1120F	PW774-1120R	PW779B-1120	PW779B-1120S
		Sample Date	11/19/2020 11:20	11/19/2020 11:25	11/19/2020 11:30	11/19/2020 11:35	11/19/2020 9:30	11/19/2020 9:35	11/17/2020 12:50	11/17/2020 12:50	11/19/2020 11:00	11/19/2020 11:10	11/18/2020 11:10	11/18/2020 11:15
Analyte	**Units**	**Comparison Standard**												
Aluminum	ug/L	<ORE KNOB SSRBL (March 2013): 34000 ug/l >	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U
Antimony	ug/L	<ORE KNOB SSRBL (March 2013): 6 ug/l >	0.50 U	0.50 U	1.4 J,O	0.50 U	0.50 U	2.2 J,O	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Arsenic	ug/L	<ORE KNOB SSRBL (March 2013): 10 ug/l >	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Barium	ug/L	<ORE KNOB SSRBL (March 2013): 2000 ug/l >	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	19	18
Beryllium	ug/L	<ORE KNOB SSRBL (March 2013): 4 ug/l >	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Cadmium	ug/L	<ORE KNOB SSRBL (March 2013): 5 ug/l >	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
Calcium	ug/L		250 U	250 U	480 U,O	250 U	380 U,O	770 U,O	250 U	780	250 U	250 U	20000	20000
Chromium	ug/L	<ORE KNOB SSRBL (March 2013): 100 ug/l >	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Cobalt	ug/L	<ORE KNOB SSRBL (March 2013): 11 ug/l >	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Copper	ug/L	<ORE KNOB SSRBL (March 2013): 1300 ug/l >	10 U	10 U	10 U	10 U	17	10 U	10 U	10 U	10 U	10 U	13	10 U
Iron	ug/L	<ORE KNOB SSRBL (March 2013): 24000 ug/l >	100 U	100 U	100 U	100 U	180	100 U	100 U	100 U	100 U	100 U	290	280
Lead	ug/L	<ORE KNOB SSRBL (March 2013): 15 ug/l >	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.82	0.50 U
Magnesium	ug/L		250 U	250 U	500	250 U	250 U	690	250 U	250 U	250 U	250 U	1600	1500
Manganese	ug/L	<ORE KNOB SSRBL (March 2013): 880 ug/l >	5.0 U	5.8	5.8	5.0 U	50	9.9	5.0 U	94	5.0 U	5.0 U	65	65
Molybdenum	ug/L	<ORE KNOB SSRBL (March 2013): 170 ug/l >	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Nickel	ug/L	<ORE KNOB SSRBL (March 2013): 100 ug/l >	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Potassium	ug/L		1000 U	1000 U	3700	1000 U	4600	6200	1000 U	1000 U	1000 U	1000 U	2100	2100
Selenium	ug/L	<ORE KNOB SSRBL (March 2013): 50 ug/l >	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Silver	ug/L	<ORE KNOB SSRBL (March 2013): 150 ug/l >	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Sodium	ug/L	<ORE KNOB SSRBL (March 2013): 20000 ug/l >	130000 ^	6600	11000	11000	130000 ^	11000	11000	13000	110000 ^	3100	4400	4300
Strontium	ug/L	<ORE KNOB SSRBL (March 2013): 20000 ug/l >	5.0 U	5.0 U	7.3 U,O	5.0 U	5.0 U	11 U,O	5.0 U	5.0 U	5.0 U	5.0 U	72	71
Thallium	ug/L	<ORE KNOB SSRBL (March 2013): 2 ug/l >	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Tin	ug/L	<ORE KNOB SSRBL (March 2013): 20000 ug/l >	15 U	15 U	15 U	15 U	15 U	15 U	15 U	15 U	15 U	15 U	15 U	15 U
Titanium	ug/L		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Vanadium	ug/L	<ORE KNOB SSRBL (March 2013): 170 ug/l >	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U,J,O	5.0 U,J,O	5.0 U,J,O	5.0 U,J,O	5.0 U,J,O
Yttrium	ug/L		3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Zinc	ug/L	<ORE KNOB SSRBL (March 2013): 10000 ug/l >	10 U	10 U	23 U,O	10 U	45 U,O	56 U,O	10 U	160	29	10 U	10 U	10 U

Qualifiers: U-non-detect, J-estimated, O-other-see lab data sheets

[1] Site-Specific risk Based Levels

Legend:

Non-Detect	Detection	Detection w/ Exceedance
5.0 U	32	91000 ^

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	Station ID	OK702	OK702	OK703	OK706	OK706	OK707	OK707	OK708	OK708	OK709	OK709
	Sample Name	PW702-1120F	PW702-1120R	PW703-1120	PW706-1120F	PW706-1120R	PW707-1120F	PW707-1120R	PW708-1120F	PW708-1120R	PW709-1120F	PW709-1120R
	Sample Date	11/18/2020	11/18/2020	11/17/2020	11/17/2020	11/17/2020	11/16/2020	11/16/2020	11/16/2020	11/16/2020	11/17/2020	11/17/2020
Parameter	**Units**											
pH	pH Units	5.5	5.9	5.5	5.7	5.9	6.4	6.0	5.4	5.1	5.0	5.9
Specific Conductivity	us/cm	825.3	60.31	43.78	354.1	26.01	475.4	19.1	117.6	22.67	395.6	57.07
Temperature	Deg C	12.2	18.3	12.3	10.5	11.8	16.5	18.2	12.8	17	13	15.5
Turbidity	NTU	0.15	0.17	0.12	0.97	0.09	0.41	0.21	0.75	0.18	0.56	1

	Station ID	OK710	OK710	OK710	OK710	OK711	OK711	OK712	OK712	OK713	OK713	OK713
	Sample Name	PW710-1120F	PW710-1120R	PW710-0121F	PW710-0121R	PW711-1120F	PW711-1120R	PW712-1120F	PW712-1120R	PW713-1120A	PW713-1120B	PW713-1120D
	Sample Date	11/18/2020	11/18/2020	1/25/2021	1/25/2021	11/16/2020	11/16/2020	11/18/2020	11/18/2020	11/17/2020	11/17/2020	11/17/2020
Parameter	**Units**											
pH	pH Units	6.0	5.8	5.6	4.8	5.3	5.5	6.4	5.9	5.7	5.7	5.7
Specific Conductivity	us/cm	235.2	24.07	246.7	26.05	748.9	62.78	181.9	23.41	75.43	71.38	71.45
Temperature	Deg C	12.8	16.8	10.4	16.3	13.1	14.5	11.7	15.6	12.6	12.7	12.8
Turbidity	NTU	0.21	0.13	0.32	0.35	0.16	1.5	1.51	0.27	1.79	0.82	0.87

	Station ID	OK720	OK722	OK723	OK723	OK727	OK727	OK736	OK737	OK737	OK739
	Sample Name	PW720-1120	PW722-1120	PW723-1120F	PW723-1120R	PW727-1120F	PW727-1120R	PW736-1120	PW737-1120F	PW737-1120R	PW739-1120F
	Sample Date	11/17/2020	11/17/2020	11/17/2020	11/17/2020	11/17/2020	11/17/2020	11/17/2020	11/19/2020	11/19/2020	11/17/2020
Parameter	**Units**										
pH	pH Units	6.7	5.7	5.3	5.7	5.3	5.5	5.5	6.9	6.7	6.6
Specific Conductivity	us/cm	171.7	46.5	652.6	55.7	220.8	41.51	48.19	753.7	36.96	712.6
Temperature	Deg C	12.9	12.6	10.9	17.7	11.6	12.7	14	11.7	14.2	12.3
Turbidity	NTU	0.29	0.16	0.17	0.17	0.1	0.11	0.35	0.23	0.23	0.75

	Station ID	OK739	OK750	OK750	OK762	OK762	OK773	OK773	OK774	OK774	OK779B
	Sample Name	PW739-1120R	PW750-1120F	PW750-1120R	PW762-1120F	PW762-1120R	PW773-1120F	PW773-1120R	PW774-1120F	PW774-1120R	PW779B-1120
	Sample Date	11/17/2020	11/19/2020	11/19/2020	11/19/2020	11/19/2020	11/17/2020	11/17/2020	11/19/2020	11/19/2020	11/18/2020
Parameter	**Units**										
pH	pH Units	6.1	6.3	6.1	5.4	5.8	6.5	5.8	7.2	7.2	7.2
Specific Conductivity	us/cm	51.13	647.9	30.12	745.1	91.82	50.91	69.7	526.3	14.71	153.7
Temperature	Deg C	19	14.9	18.6	12.7	16	11.6	18.5	11.9	8.8	11.3
Turbidity	NTU	0.14	0.71	0.19	0.19	0.18	0.12	0.14	0.23	0.54	1.56

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	Station ID	OK722	OK722		OK713	OK713		OK779B	OK779B		OK710	OK710	
	Sample ID	PW722-1120	PW722-1120S	Relative Percent Difference (%)	PW713-1120B	PW713-1120BS	Relative Percent Difference (%)	PW779B-1120	PW779B-1120S	Relative Percent Difference (%)	PW710-0121F	PW710-0121FS	Relative Percent Difference (%)
	Sample Date	11/17/2020 10 25	11/17/2020 10 30		11/17/2020 14 55	11/17/2020 15 00		11/18/2020 11 10	11/18/2020 11 15		1/25/2021 15 25	1/25/2021 15 30	
Analyte	**Units**												
Antimony	ug/L	*< 0.50 U*	*< 0.50 U*	-	*< 0.50 U*	*< 0.50 U*	-	*< 0.50 U*	*< 0.50 U*	-	*0.50 U*	*0.50 U*	-
Arsenic	ug/L	*< 0.50 U*	*< 0.50 U*	-	*< 0.50 U*	*< 0.50 U*	-	*< 0.50 U*	*< 0.50 U*	-	*0.50 U*	*0.50 U*	-
Barium	ug/L	35	35	**0.0%**	52	53	**1.9%**	19	18	**5.4%**	*5.0 U*	*5.0 U*	-
Cadmium	ug/L	*< 0.25 U*	*< 0.25 U*	-	*< 0.25 U*	*< 0.25 U*	-	*< 0.25 U*	*< 0.25 U*		*0.25 U*	*0.25 U*	-
Calcium	ug/L	3300	3300	**0.0%**	6100	6100	**0.0%**	20000	20000	**0.0%**	*250 U*	*250 U*	-
Copper	ug/L	*< 10 U*	*< 10 U*	-	*< 10 U*	*< 10 U*		13	*< 10 U*	**26.1%**	*10 U*	*10 U*	-
Iron	ug/L	*< 100 U*	*< 100 U*	-	110	190	**53.3%**	290	280	**3.5%**	*100 U*	*100 U*	-
Lead	ug/L	*< 0.50 U*	*< 0.50 U*	-	*< 0.50 U*	3.5	**150.0%**	0.82	*< 0.50 U*	**48.5%**	*0.50 U*	*0.50 U*	-
Magnesium	ug/L	1400	1400	**0.0%**	1600	1600	**0.0%**	1600	1500	**6.5%**	*250 U*	*250 U*	-
Manganese	ug/L	*< 5.0 U*	*< 5.0 U*	-	13	13	**0.0%**	65	65	**0.0%**	*5.0 U*	*5.0 U*	-
Potassium	ug/L	1100	1100	**0.0%**	1400	1300	**7.4%**	2100	2100	**0.0%**	*1000 U*	*1000 U*	-
Selenium	ug/L	*< 1.0 U*	*< 1.0 U*	-	*< 1.0 U*	*< 1.0 U*		*< 1.0 U*	*< 1.0 U*		*1.0 U*	*1.0 U*	-
Sodium	ug/L	1300	1300	**0.0%**	1900	1900	**0.0%**	4400	4300	**2.3%**	43000	45000	**4.7%**
Strontium	ug/L	*< 41 U,B-2*	*< 41 U,B-2*	-	46	46	**0.0%**	72	71	**1.4%**	*5.0 U*	*5.0 U*	-
Thallium	ug/L	*< 0.50 U*	*< 0.50 U*	-	*< 0.50 U*	*< 0.50 U*		*< 0.50 U*	*< 0.50 U*		*0.50 U*	*0.50 U*	-
Zinc	ug/L	*< 10 U*	*< 10 U*	-	21	25	**17.4%**	*< 10 U*	*< 10 U*		*10 U*	*10 U*	-

Qualifiers: U-non-detect, J-estimated, O-other-see lab data sheets

Legend:

Non-Detect	Detection
< 5.0 U	32

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Station ID	WGS84 Latitude	WGS84 Longitude	Water source	Address
OK702	(b) (6)	(b) (6)	Treated Well	(b) (6)
OK703	(b) (6)		Spring	(b) (6)
OK706	(b) (6)		Treated Well w/ RO	(b) (6)
OK707	(b) (6)		Treated Well	(b) (6)
OK708	(b) (6)		Treated Well	(b) (6)
OK709	(b) (6)		Treated Well	(b) (6)
OK710	(b) (6)		Treated Well	(b) (6)
OK711	(b) (6)		Treated Well w/ RO	(b) (6)
OK712	(b) (6)		Treated Well	(b) (6)
OK713 (A)	(b) (6)		Un-Treated Well	(b) (6)
OK713 (B)				(b) (6)
OK713 (C)				(b) (6)
OK713 (D)				(b) (6)
OK720	(b) (6)		Un-Treated Well	(b) (6)
OK722	(b) (6)		Spring	(b) (6)
OK723	(b) (6)		Treated Well	(b) (6)
OK727	(b) (6)		Treated Well	(b) (6)
OK736	(b) (6)		Un-Treated Well	(b) (6)
OK737	(b) (6)		Treated Well w/ RO	(b) (6)
OK739	(b) (6)		Treated Well	(b) (6)
OK750	(b) (6)		Treated Well	(b) (6)
OK762	(b) (6)		Treated Well	(b) (6)
OK773	(b) (6)		Treated Well	(b) (6)
OK774	(b) (6)		Treated Well	(b) (6)
OK779B	(b) (6)		Un-Treated Well	(b) (6)

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Appendix C

Laboratory Data Sheets

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 21-0027
Project: 21-0027, Ore Knob FY21 - Reported by Floyd Wellborn

January 5, 2021

MEMORANDUM

SUBJECT: FINAL Analytical Report
Project: 21-0027, Ore Knob FY21

FROM: Floyd Wellborn
LSB Inorganic Chemistry Section Chief

THRU: Sandra Aker, Chief
Laboratory Services Branch

TO: Brian Striggow

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 (Water)	ISO/DW
Total Metals	EPA 6010 (Water)	ISO

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.

cc: Nardina Turner

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 21-0027
Project: 21-0027, Ore Knob FY21 - Reported by Floyd Wellborn

SAMPLES INCLUDED IN THIS REPORT

Project: 21-0027, Ore Knob FY21

Sample ID	Laboratory ID	Matrix	Date Collected	Date Received
PW702-1120F	E204907-01	Potable Water	11/18/20 13:50	12/2/20 8:00
PW702-1120R	E204907-02	Potable Water	11/18/20 13:55	12/2/20 8:00
PW703-1120	E204907-03	Potable Water	11/17/20 12:10	12/2/20 8:00
PW706-1120F	E204907-04	Potable Water	11/17/20 17:10	12/2/20 8:00
PW706-1120R	E204907-05	Potable Water	11/17/20 17:15	12/2/20 8:00
PW707-1120F	E204907-06	Potable Water	11/16/20 17:05	12/2/20 8:00
PW707-1120R	E204907-07	Potable Water	11/16/20 17:10	12/2/20 8:00
PW708-1120F	E204907-08	Potable Water	11/16/20 15:45	12/2/20 8:00
PW708-1120R	E204907-09	Potable Water	11/16/20 15:50	12/2/20 8:00
PW709-1120F	E204907-10	Potable Water	11/17/20 09:25	12/2/20 8:00
PW709-1120R	E204907-11	Potable Water	11/17/20 09:30	12/2/20 8:00
PW710-1120F	E204907-12	Potable Water	11/18/20 12:30	12/2/20 8:00
PW710-1120R	E204907-13	Potable Water	11/18/20 12:35	12/2/20 8:00
PW711-1120F	E204907-14	Potable Water	11/16/20 16:30	12/2/20 8:00
PW711-1120R	E204907-15	Potable Water	11/16/20 16:35	12/2/20 8:00
PW712-1120F	E204907-16	Potable Water	11/18/20 13:10	12/2/20 8:00
PW712-1120R	E204907-17	Potable Water	11/18/20 13:15	12/2/20 8:00
PW713-1120A	E204907-18	Potable Water	11/17/20 14:35	12/2/20 8:00
PW713-1120B	E204907-19	Potable Water	11/17/20 14:55	12/2/20 8:00
PW713-1120BS	E204907-20	Potable Water	11/17/20 15:00	12/2/20 8:00
PW713-1120D	E204907-21	Potable Water	11/17/20 15:20	12/2/20 8:00
PW720-1120	E204907-22	Potable Water	11/17/20 11:05	12/2/20 8:00
PW722-1120	E204907-23	Potable Water	11/17/20 10:25	12/2/20 8:00
PW722-1120S	E204907-24	Potable Water	11/17/20 10:30	12/2/20 8:00
PW723-1120F	E204907-25	Potable Water	11/17/20 16:00	12/2/20 8:00
PW723-1120R	E204907-26	Potable Water	11/17/20 16:05	12/2/20 8:00
PW727-1120F	E204907-27	Potable Water	11/17/20 13:45	12/2/20 8:00
PW727-1120R	E204907-28	Potable Water	11/17/20 13:50	12/2/20 8:00
PW736-1120	E204907-29	Potable Water	11/17/20 11:35	12/2/20 8:00
PW737-1120F	E204907-30	Potable Water	11/19/20 10:10	12/2/20 8:00
PW737-1120R	E204907-31	Potable Water	11/19/20 10:15	12/2/20 8:00
PW739-1120F	E204907-32	Potable Water	11/17/20 16:30	12/2/20 8:00
PW739-1120R	E204907-33	Potable Water	11/17/20 16:35	12/2/20 8:00
PW750-1120F	E204907-34	Potable Water	11/19/20 11:20	12/2/20 8:00

PW750-1120R1	E204907-35	Potable Water	11/19/20	11:25	12/2/20	8:00
PW750-1120R2	E204907-36	Potable Water	11/19/20	11:30	12/2/20	8:00
PW750-1120R3	E204907-37	Potable Water	11/19/20	11:35	12/2/20	8:00
PW762-1120F	E204907-38	Potable Water	11/19/20	09:30	12/2/20	8:00
PW762-1120R	E204907-39	Potable Water	11/19/20	09:35	12/2/20	8:00
PW773-1120F	E204907-40	Potable Water	11/17/20	12:50	12/2/20	8:00
PW773-1120R	E204907-41	Potable Water	11/17/20	12:50	12/2/20	8:00
PW774-1120F	E204907-42	Potable Water	11/19/20	11:00	12/2/20	8:00
PW774-1120R	E204907-43	Potable Water	11/19/20	11:10	12/2/20	8:00
PW779B-1120	E204907-44	Potable Water	11/18/20	11:10	12/2/20	8:00
PW779B-1120S	E204907-45	Potable Water	11/18/20	11:15	12/2/20	8:00

DATA QUALIFIER DEFINITIONS

U	The analyte was not detected at or above the reporting limit.
B-2	Reporting level elevated due to trace amounts of analyte present in the method blank.
J	The identification of the analyte is acceptable; the reported value is an estimate.
QR-1	MRL verification recovery less than lower control limits.
QR-2	MRL verification recovery greater than upper 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: 2016.

Refer to the certificate and scope of accreditation AT-1644 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.

ISO/DW Accredited to ISO/IEC 17025:2017 and accreditation requirements for Forensic Science Testing Labs: 2016, and conformance with ISO/IEC 17025:2017 and testing elements in the Manual for the Certification of Laboratories Analyzing Drinking Water.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 21-0027
Project: 21-0027, Ore Knob FY21 - Reported by Floyd Wellborn

Total Metals

Project: 21-0027, Ore Knob FY21

Sample ID: PW702-1120F
Station ID: OK702
Lab ID: E204907-01
Matrix: Potable Water

Date Collected: 11/18/20 13:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7429-90-5	Aluminum	100	U	ug/L	100	12/04/20 10:47	12/08/20 13:22	EPA 6010
7440-36-0	Antimony	0.50	U	ug/L	0.50	12/04/20 10 55	12/28/20 13:44	EPA 200 8
7440-38-2	Arsenic	0.50	U	ug/L	0.50	12/04/20 10 55	12/28/20 13:44	EPA 200 8
7440-39-3	Barium	5.0	U	ug/L	5.0	12/04/20 10:47	12/08/20 13:22	EPA 6010
7440-41-7	Beryllium	3.0	U	ug/L	3.0	12/04/20 10:47	12/08/20 13:22	EPA 6010
7440-43-9	Cadmium	0.25	U	ug/L	0.25	12/04/20 10 55	12/28/20 13:44	EPA 200 8
7440-70-2	Calcium	250	U	ug/L	250	12/04/20 10:47	12/08/20 13:22	EPA 6010
7440-47-3	Chromium	5.0	U	ug/L	5.0	12/04/20 10:47	12/08/20 13:22	EPA 6010
7440-48-4	Cobalt	5.0	U	ug/L	5.0	12/04/20 10:47	12/08/20 13:22	EPA 6010
7440-50-8	Copper	10	U	ug/L	10	12/04/20 10:47	12/08/20 13:22	EPA 6010
7439-89-6	Iron	100	U	ug/L	100	12/04/20 10:47	12/08/20 13:22	EPA 6010
7439-92-1	Lead	0.50	U	ug/L	0.50	12/04/20 10 55	12/28/20 13:44	EPA 200 8
7439-95-4	Magnesium	250	U	ug/L	250	12/04/20 10:47	12/08/20 13:22	EPA 6010
7439-96-5	Manganese	5.0	U	ug/L	5.0	12/04/20 10:47	12/08/20 13:22	EPA 6010
7439-98-7	Molybdenum	10	U	ug/L	10	12/04/20 10:47	12/08/20 13:22	EPA 6010
7440-02-0	Nickel	10	U	ug/L	10	12/04/20 10:47	12/08/20 13:22	EPA 6010
7440-09-7	Potassium	1000	U	ug/L	1000	12/04/20 10:47	12/08/20 13:22	EPA 6010
7782-49-2	Selenium	1.0	U	ug/L	1.0	12/04/20 10 55	12/28/20 13:44	EPA 200 8
7440-22-4	Silver	5.0	U	ug/L	5.0	12/04/20 10:47	12/08/20 13:22	EPA 6010
7440-23-5	Sodium	160000		ug/L	1000	12/04/20 10:47	12/08/20 13:22	EPA 6010
7440-24-6	Strontium	5.0	U	ug/L	5.0	12/04/20 10:47	12/08/20 13:22	EPA 6010
7440-28-0	Thallium	0.50	U	ug/L	0.50	12/04/20 10 55	12/28/20 13:44	EPA 200 8
7440-31-5	Tin	15	U	ug/L	15	12/04/20 10:47	12/08/20 13:22	EPA 6010
7440-32-6	Titanium	5.0	U	ug/L	5.0	12/04/20 10:47	12/08/20 13:22	EPA 6010
7440-62-2	Vanadium	5.0	U	ug/L	5.0	12/04/20 10:47	12/08/20 13:22	EPA 6010
7440-65-5	Yttrium	3.0	U	ug/L	3.0	12/04/20 10:47	12/08/20 13:22	EPA 6010
7440-66-6	Zinc	10	U	ug/L	10	12/04/20 10:47	12/08/20 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: 21-0027
Project: 21-0027, Ore Knob FY21 - Reported by Floyd Wellborn

Total Metals

Project: 21-0027, Ore Knob FY21

Sample ID: PW702-1120R
Station ID: OK702
Lab ID: E204907-02
Matrix: Potable Water

Date Collected: 11/18/20 13:55

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7429-90-5	Aluminum	100	U	ug/L	100	12/04/20 10:47	12/08/20 13:26	EPA 6010
7440-36-0	Antimony	0.50	U	ug/L	0.50	12/04/20 10 55	12/28/20 13:50	EPA 200 8
7440-38-2	Arsenic	0.50	U	ug/L	0.50	12/04/20 10 55	12/28/20 13:50	EPA 200 8
7440-39-3	Barium	5.0	U	ug/L	5.0	12/04/20 10:47	12/08/20 13:26	EPA 6010
7440-41-7	Beryllium	3.0	U	ug/L	3.0	12/04/20 10:47	12/08/20 13:26	EPA 6010
7440-43-9	Cadmium	0.25	U	ug/L	0.25	12/04/20 10 55	12/28/20 13:50	EPA 200 8
7440-70-2	Calcium	570		ug/L	250	12/04/20 10:47	12/08/20 13:26	EPA 6010
7440-47-3	Chromium	5.0	U	ug/L	5.0	12/04/20 10:47	12/08/20 13:26	EPA 6010
7440-48-4	Cobalt	5.0	U	ug/L	5.0	12/04/20 10:47	12/08/20 13:26	EPA 6010
7440-50-8	Copper	10	U	ug/L	10	12/04/20 10:47	12/08/20 13:26	EPA 6010
7439-89-6	Iron	100	U	ug/L	100	12/04/20 10:47	12/08/20 13:26	EPA 6010
7439-92-1	Lead	0.50	U	ug/L	0.50	12/04/20 10 55	12/28/20 13:50	EPA 200 8
7439-95-4	Magnesium	450		ug/L	250	12/04/20 10:47	12/08/20 13:26	EPA 6010
7439-96-5	Manganese	24		ug/L	5.0	12/04/20 10:47	12/08/20 13:26	EPA 6010
7439-98-7	Molybdenum	10	U	ug/L	10	12/04/20 10:47	12/08/20 13:26	EPA 6010
7440-02-0	Nickel	10	U	ug/L	10	12/04/20 10:47	12/08/20 13:26	EPA 6010
7440-09-7	Potassium	1000	U	ug/L	1000	12/04/20 10:47	12/08/20 13:26	EPA 6010
7782-49-2	Selenium	1.0	U	ug/L	1.0	12/04/20 10 55	12/28/20 13:50	EPA 200 8
7440-22-4	Silver	5.0	U	ug/L	5.0	12/04/20 10:47	12/08/20 13:26	EPA 6010
7440-23-5	Sodium	12000		ug/L	1000	12/04/20 10:47	12/08/20 13:26	EPA 6010
7440-24-6	Strontium	6.5	U, B-2	ug/L	6.5	12/04/20 10:47	12/08/20 13:26	EPA 6010
7440-28-0	Thallium	0.50	U	ug/L	0.50	12/04/20 10 55	12/28/20 13:50	EPA 200 8
7440-31-5	Tin	15	U	ug/L	15	12/04/20 10:47	12/08/20 13:26	EPA 6010
7440-32-6	Titanium	5.0	U	ug/L	5.0	12/04/20 10:47	12/08/20 13:26	EPA 6010
7440-62-2	Vanadium	5.0	U	ug/L	5.0	12/04/20 10:47	12/08/20 13:26	EPA 6010
7440-65-5	Yttrium	3.0	U	ug/L	3.0	12/04/20 10:47	12/08/20 13:26	EPA 6010
7440-66-6	Zinc	10	U	ug/L	10	12/04/20 10:47	12/08/20 13:26	EPA 6010

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 21-0027
Project: 21-0027, Ore Knob FY21 - Reported by Floyd Wellborn

Total Metals

Project: 21-0027, Ore Knob FY21

Sample ID: PW703-1120
Station ID: OK703
Lab ID: E204907-03
Matrix: Potable Water

Date Collected: 11/17/20 12:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7429-90-5	Aluminum	100	U	ug/L	100	12/04/20 10:47	12/08/20 13:36	EPA 6010
7440-36-0	Antimony	0.50	U	ug/L	0.50	12/04/20 10 55	12/28/20 14:37	EPA 200 8
7440-38-2	Arsenic	0.50	U	ug/L	0.50	12/04/20 10 55	12/28/20 14:37	EPA 200 8
7440-39-3	Barium	31		ug/L	5.0	12/04/20 10:47	12/08/20 13:36	EPA 6010
7440-41-7	Beryllium	3.0	U	ug/L	3.0	12/04/20 10:47	12/08/20 13:36	EPA 6010
7440-43-9	Cadmium	0.25	U	ug/L	0.25	12/04/20 10 55	12/28/20 14:37	EPA 200 8
7440-70-2	Calcium	2700		ug/L	250	12/04/20 10:47	12/08/20 13:36	EPA 6010
7440-47-3	Chromium	5.0	U	ug/L	5.0	12/04/20 10:47	12/08/20 13:36	EPA 6010
7440-48-4	Cobalt	5.0	U	ug/L	5.0	12/04/20 10:47	12/08/20 13:36	EPA 6010
7440-50-8	Copper	10	U	ug/L	10	12/04/20 10:47	12/08/20 13:36	EPA 6010
7439-89-6	Iron	100	U	ug/L	100	12/04/20 10:47	12/08/20 13:36	EPA 6010
7439-92-1	Lead	0.50	U	ug/L	0.50	12/04/20 10 55	12/28/20 14:37	EPA 200 8
7439-95-4	Magnesium	1200		ug/L	250	12/04/20 10:47	12/08/20 13:36	EPA 6010
7439-96-5	Manganese	35		ug/L	5.0	12/04/20 10:47	12/08/20 13:36	EPA 6010
7439-98-7	Molybdenum	10	U	ug/L	10	12/04/20 10:47	12/08/20 13:36	EPA 6010
7440-02-0	Nickel	10	U	ug/L	10	12/04/20 10:47	12/08/20 13:36	EPA 6010
7440-09-7	Potassium	1100		ug/L	1000	12/04/20 10:47	12/08/20 13:36	EPA 6010
7782-49-2	Selenium	1.0	U	ug/L	1.0	12/04/20 10 55	12/28/20 14:37	EPA 200 8
7440-22-4	Silver	5.0	U	ug/L	5.0	12/04/20 10:47	12/08/20 13:36	EPA 6010
7440-23-5	Sodium	1700		ug/L	1000	12/04/20 10:47	12/08/20 13:36	EPA 6010
7440-24-6	Strontium	30		ug/L	5.0	12/04/20 10:47	12/08/20 13:36	EPA 6010
7440-28-0	Thallium	0.50	U	ug/L	0.50	12/04/20 10 55	12/28/20 14:37	EPA 200 8
7440-31-5	Tin	15	U	ug/L	15	12/04/20 10:47	12/08/20 13:36	EPA 6010
7440-32-6	Titanium	5.0	U	ug/L	5.0	12/04/20 10:47	12/08/20 13:36	EPA 6010
7440-62-2	Vanadium	5.0	U	ug/L	5.0	12/04/20 10:47	12/08/20 13:36	EPA 6010
7440-65-5	Yttrium	14		ug/L	3.0	12/04/20 10:47	12/08/20 13:36	EPA 6010
7440-66-6	Zinc	65		ug/L	10	12/04/20 10:47	12/08/20 13:36	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: 21-0027
Project: 21-0027, Ore Knob FY21 - Reported by Floyd Wellborn

Total Metals

Project: 21-0027, Ore Knob FY21

Sample ID: PW706-1120F
Station ID: OK706
Lab ID: E204907-04
Matrix: Potable Water

Date Collected: 11/17/20 17:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7429-90-5	Aluminum	100	U	ug/L	100	12/04/20 10:47	12/08/20 13:40	EPA 6010
7440-36-0	Antimony	0.50	U	ug/L	0.50	12/04/20 10 55	12/28/20 14:44	EPA 200 8
7440-38-2	Arsenic	0.50	U	ug/L	0.50	12/04/20 10 55	12/28/20 14:44	EPA 200 8
7440-39-3	Barium	5.0	U	ug/L	5.0	12/04/20 10:47	12/08/20 13:40	EPA 6010
7440-41-7	Beryllium	3.0	U	ug/L	3.0	12/04/20 10:47	12/08/20 13:40	EPA 6010
7440-43-9	Cadmium	0.25	U	ug/L	0.25	12/04/20 10 55	12/28/20 14:44	EPA 200 8
7440-70-2	Calcium	250	U	ug/L	250	12/04/20 10:47	12/08/20 13:40	EPA 6010
7440-47-3	Chromium	5.0	U	ug/L	5.0	12/04/20 10:47	12/08/20 13:40	EPA 6010
7440-48-4	Cobalt	5.0	U	ug/L	5.0	12/04/20 10:47	12/08/20 13:40	EPA 6010
7440-50-8	Copper	10	U	ug/L	10	12/04/20 10:47	12/08/20 13:40	EPA 6010
7439-89-6	Iron	100	U	ug/L	100	12/04/20 10:47	12/08/20 13:40	EPA 6010
7439-92-1	Lead	0.50	U	ug/L	0.50	12/04/20 10 55	12/28/20 14:44	EPA 200 8
7439-95-4	Magnesium	250	U	ug/L	250	12/04/20 10:47	12/08/20 13:40	EPA 6010
7439-96-5	Manganese	5.0	U	ug/L	5.0	12/04/20 10:47	12/08/20 13:40	EPA 6010
7439-98-7	Molybdenum	10	U	ug/L	10	12/04/20 10:47	12/08/20 13:40	EPA 6010
7440-02-0	Nickel	10	U	ug/L	10	12/04/20 10:47	12/08/20 13:40	EPA 6010
7440-09-7	Potassium	1000	U	ug/L	1000	12/04/20 10:47	12/08/20 13:40	EPA 6010
7782-49-2	Selenium	1.0	U	ug/L	1.0	12/04/20 10 55	12/28/20 14:44	EPA 200 8
7440-22-4	Silver	5.0	U	ug/L	5.0	12/04/20 10:47	12/08/20 13:40	EPA 6010
7440-23-5	Sodium	67000		ug/L	1000	12/04/20 10:47	12/08/20 13:40	EPA 6010
7440-24-6	Strontium	5.0	U	ug/L	5.0	12/04/20 10:47	12/08/20 13:40	EPA 6010
7440-28-0	Thallium	0.50	U	ug/L	0.50	12/04/20 10 55	12/28/20 14:44	EPA 200 8
7440-31-5	Tin	15	U	ug/L	15	12/04/20 10:47	12/08/20 13:40	EPA 6010
7440-32-6	Titanium	5.0	U	ug/L	5.0	12/04/20 10:47	12/08/20 13:40	EPA 6010
7440-62-2	Vanadium	5.0	U	ug/L	5.0	12/04/20 10:47	12/08/20 13:40	EPA 6010
7440-65-5	Yttrium	3.0	U	ug/L	3.0	12/04/20 10:47	12/08/20 13:40	EPA 6010
7440-66-6	Zinc	42		ug/L	10	12/04/20 10:47	12/08/20 13:40	EPA 6010

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 21-0027
Project: 21-0027, Ore Knob FY21 - Reported by Floyd Wellborn

Total Metals

Project: 21-0027, Ore Knob FY21

Sample ID: PW706-1120R
Station ID: OK706
Lab ID: E204907-05
Matrix: Potable Water

Date Collected: 11/17/20 17:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7429-90-5	Aluminum	100	U	ug/L	100	12/04/20 10:47	12/08/20 13:43	EPA 6010
7440-36-0	Antimony	0.50	U	ug/L	0.50	12/04/20 10 55	12/28/20 14:51	EPA 200 8
7440-38-2	Arsenic	0.50	U	ug/L	0.50	12/04/20 10 55	12/28/20 14:51	EPA 200 8
7440-39-3	Barium	5.0	U	ug/L	5.0	12/04/20 10:47	12/08/20 13:43	EPA 6010
7440-41-7	Beryllium	3.0	U	ug/L	3.0	12/04/20 10:47	12/08/20 13:43	EPA 6010
7440-43-9	Cadmium	0.25	U	ug/L	0.25	12/04/20 10 55	12/28/20 14:51	EPA 200 8
7440-70-2	Calcium	250	U	ug/L	250	12/04/20 10:47	12/08/20 13:43	EPA 6010
7440-47-3	Chromium	5.0	U	ug/L	5.0	12/04/20 10:47	12/08/20 13:43	EPA 6010
7440-48-4	Cobalt	5.0	U	ug/L	5.0	12/04/20 10:47	12/08/20 13:43	EPA 6010
7440-50-8	Copper	10	U	ug/L	10	12/04/20 10:47	12/08/20 13:43	EPA 6010
7439-89-6	Iron	100	U	ug/L	100	12/04/20 10:47	12/08/20 13:43	EPA 6010
7439-92-1	Lead	0.50	U	ug/L	0.50	12/04/20 10 55	12/28/20 14:51	EPA 200 8
7439-95-4	Magnesium	250	U	ug/L	250	12/04/20 10:47	12/08/20 13:43	EPA 6010
7439-96-5	Manganese	5.0	U	ug/L	5.0	12/04/20 10:47	12/08/20 13:43	EPA 6010
7439-98-7	Molybdenum	10	U	ug/L	10	12/04/20 10:47	12/08/20 13:43	EPA 6010
7440-02-0	Nickel	10	U	ug/L	10	12/04/20 10:47	12/08/20 13:43	EPA 6010
7440-09-7	Potassium	1000	U	ug/L	1000	12/04/20 10:47	12/08/20 13:43	EPA 6010
7782-49-2	Selenium	1.0	U	ug/L	1.0	12/04/20 10 55	12/28/20 14:51	EPA 200 8
7440-22-4	Silver	5.0	U	ug/L	5.0	12/04/20 10:47	12/08/20 13:43	EPA 6010
7440-23-5	Sodium	5200		ug/L	1000	12/04/20 10:47	12/08/20 13:43	EPA 6010
7440-24-6	Strontium	5.0	U	ug/L	5.0	12/04/20 10:47	12/08/20 13:43	EPA 6010
7440-28-0	Thallium	0.50	U	ug/L	0.50	12/04/20 10 55	12/28/20 14:51	EPA 200 8
7440-31-5	Tin	15	U	ug/L	15	12/04/20 10:47	12/08/20 13:43	EPA 6010
7440-32-6	Titanium	5.0	U	ug/L	5.0	12/04/20 10:47	12/08/20 13:43	EPA 6010
7440-62-2	Vanadium	5.0	U	ug/L	5.0	12/04/20 10:47	12/08/20 13:43	EPA 6010
7440-65-5	Yttrium	3.0	U	ug/L	3.0	12/04/20 10:47	12/08/20 13:43	EPA 6010
7440-66-6	Zinc	10	U	ug/L	10	12/04/20 10:47	12/08/20 13:43	EPA 6010

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 21-0027
Project: 21-0027, Ore Knob FY21 - Reported by Floyd Wellborn

Total Metals

Project: 21-0027, Ore Knob FY21

Sample ID: PW707-1120F
Station ID: OK707
Lab ID: E204907-06
Matrix: Potable Water

Date Collected: 11/16/20 17:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7429-90-5	Aluminum	100	U	ug/L	100	12/04/20 10:47	12/08/20 13:47	EPA 6010
7440-36-0	Antimony	0.50	U	ug/L	0.50	12/04/20 10 55	12/28/20 14:58	EPA 200 8
7440-38-2	Arsenic	0.50	U	ug/L	0.50	12/04/20 10 55	12/28/20 14:58	EPA 200 8
7440-39-3	Barium	5.0	U	ug/L	5.0	12/04/20 10:47	12/08/20 13:47	EPA 6010
7440-41-7	Beryllium	3.0	U	ug/L	3.0	12/04/20 10:47	12/08/20 13:47	EPA 6010
7440-43-9	Cadmium	0.25	U	ug/L	0.25	12/04/20 10 55	12/28/20 14:58	EPA 200 8
7440-70-2	Calcium	250	U	ug/L	250	12/04/20 10:47	12/08/20 13:47	EPA 6010
7440-47-3	Chromium	5.0	U	ug/L	5.0	12/04/20 10:47	12/08/20 13:47	EPA 6010
7440-48-4	Cobalt	5.0	U	ug/L	5.0	12/04/20 10:47	12/08/20 13:47	EPA 6010
7440-50-8	Copper	10	U	ug/L	10	12/04/20 10:47	12/08/20 13:47	EPA 6010
7439-89-6	Iron	100	U	ug/L	100	12/04/20 10:47	12/08/20 13:47	EPA 6010
7439-92-1	Lead	0.50	U	ug/L	0.50	12/04/20 10 55	12/28/20 14:58	EPA 200 8
7439-95-4	Magnesium	250	U	ug/L	250	12/04/20 10:47	12/08/20 13:47	EPA 6010
7439-96-5	Manganese	5.0	U	ug/L	5.0	12/04/20 10:47	12/08/20 13:47	EPA 6010
7439-98-7	Molybdenum	10	U	ug/L	10	12/04/20 10:47	12/08/20 13:47	EPA 6010
7440-02-0	Nickel	10	U	ug/L	10	12/04/20 10:47	12/08/20 13:47	EPA 6010
7440-09-7	Potassium	1000	U	ug/L	1000	12/04/20 10:47	12/08/20 13:47	EPA 6010
7782-49-2	Selenium	1.0	U	ug/L	1.0	12/04/20 10 55	12/28/20 14:58	EPA 200 8
7440-22-4	Silver	5.0	U	ug/L	5.0	12/04/20 10:47	12/08/20 13:47	EPA 6010
7440-23-5	Sodium	86000		ug/L	1000	12/04/20 10:47	12/08/20 13:47	EPA 6010
7440-24-6	Strontium	5.0	U	ug/L	5.0	12/04/20 10:47	12/08/20 13:47	EPA 6010
7440-28-0	Thallium	0.50	U	ug/L	0.50	12/04/20 10 55	12/28/20 14:58	EPA 200 8
7440-31-5	Tin	15	U	ug/L	15	12/04/20 10:47	12/08/20 13:47	EPA 6010
7440-32-6	Titanium	5.0	U	ug/L	5.0	12/04/20 10:47	12/08/20 13:47	EPA 6010
7440-62-2	Vanadium	5.0	U	ug/L	5.0	12/04/20 10:47	12/08/20 13:47	EPA 6010
7440-65-5	Yttrium	3.0	U	ug/L	3.0	12/04/20 10:47	12/08/20 13:47	EPA 6010
7440-66-6	Zinc	10	U	ug/L	10	12/04/20 10:47	12/08/20 13:47	EPA 6010

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 21-0027
Project: 21-0027, Ore Knob FY21 - Reported by Floyd Wellborn

Total Metals

Project: 21-0027, Ore Knob FY21

Sample ID: PW707-1120R
Station ID: OK707
Lab ID: E204907-07
Matrix: Potable Water

Date Collected: 11/16/20 17:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7429-90-5	Aluminum	100	U	ug/L	100	12/04/20 10:47	12/08/20 13:50	EPA 6010
7440-36-0	Antimony	0.50	U	ug/L	0.50	12/04/20 10 55	12/28/20 15:04	EPA 200 8
7440-38-2	Arsenic	0.50	U	ug/L	0.50	12/04/20 10 55	12/28/20 15:04	EPA 200 8
7440-39-3	Barium	5.0	U	ug/L	5.0	12/04/20 10:47	12/08/20 13:50	EPA 6010
7440-41-7	Beryllium	3.0	U	ug/L	3.0	12/04/20 10:47	12/08/20 13:50	EPA 6010
7440-43-9	Cadmium	0.25	U	ug/L	0.25	12/04/20 10 55	12/28/20 15:04	EPA 200 8
7440-70-2	Calcium	250	U	ug/L	250	12/04/20 10:47	12/08/20 13:50	EPA 6010
7440-47-3	Chromium	5.0	U	ug/L	5.0	12/04/20 10:47	12/08/20 13:50	EPA 6010
7440-48-4	Cobalt	5.0	U	ug/L	5.0	12/04/20 10:47	12/08/20 13:50	EPA 6010
7440-50-8	Copper	10	U	ug/L	10	12/04/20 10:47	12/08/20 13:50	EPA 6010
7439-89-6	Iron	100	U	ug/L	100	12/04/20 10:47	12/08/20 13:50	EPA 6010
7439-92-1	Lead	0.50	U	ug/L	0.50	12/04/20 10 55	12/28/20 15:04	EPA 200 8
7439-95-4	Magnesium	250	U	ug/L	250	12/04/20 10:47	12/08/20 13:50	EPA 6010
7439-96-5	Manganese	5.0	U	ug/L	5.0	12/04/20 10:47	12/08/20 13:50	EPA 6010
7439-98-7	Molybdenum	10	U	ug/L	10	12/04/20 10:47	12/08/20 13:50	EPA 6010
7440-02-0	Nickel	10	U	ug/L	10	12/04/20 10:47	12/08/20 13:50	EPA 6010
7440-09-7	Potassium	1000	U	ug/L	1000	12/04/20 10:47	12/08/20 13:50	EPA 6010
7782-49-2	Selenium	1.0	U	ug/L	1.0	12/04/20 10 55	12/28/20 15:04	EPA 200 8
7440-22-4	Silver	5.0	U	ug/L	5.0	12/04/20 10:47	12/08/20 13:50	EPA 6010
7440-23-5	Sodium	3600		ug/L	1000	12/04/20 10:47	12/08/20 13:50	EPA 6010
7440-24-6	Strontium	5.0	U	ug/L	5.0	12/04/20 10:47	12/08/20 13:50	EPA 6010
7440-28-0	Thallium	0.50	U	ug/L	0.50	12/04/20 10 55	12/28/20 15:04	EPA 200 8
7440-31-5	Tin	15	U	ug/L	15	12/04/20 10:47	12/08/20 13:50	EPA 6010
7440-32-6	Titanium	5.0	U	ug/L	5.0	12/04/20 10:47	12/08/20 13:50	EPA 6010
7440-62-2	Vanadium	5.0	U	ug/L	5.0	12/04/20 10:47	12/08/20 13:50	EPA 6010
7440-65-5	Yttrium	3.0	U	ug/L	3.0	12/04/20 10:47	12/08/20 13:50	EPA 6010
7440-66-6	Zinc	10	U	ug/L	10	12/04/20 10:47	12/08/20 13:50	EPA 6010

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 21-0027
Project: 21-0027, Ore Knob FY21 - Reported by Floyd Wellborn

Total Metals

Project: 21-0027, Ore Knob FY21

Sample ID: PW708-1120F
Station ID: OK708
Lab ID: E204907-08
Matrix: Potable Water

Date Collected: 11/16/20 15:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7429-90-5	Aluminum	100	U	ug/L	100	12/04/20 10:47	12/08/20 13:54	EPA 6010
7440-36-0	Antimony	0.50	U	ug/L	0.50	12/04/20 10 55	12/28/20 15:11	EPA 200 8
7440-38-2	Arsenic	0.50	U	ug/L	0.50	12/04/20 10 55	12/28/20 15:11	EPA 200 8
7440-39-3	Barium	5.0	U	ug/L	5.0	12/04/20 10:47	12/08/20 13:54	EPA 6010
7440-41-7	Beryllium	3.0	U	ug/L	3.0	12/04/20 10:47	12/08/20 13:54	EPA 6010
7440-43-9	Cadmium	0.25	U	ug/L	0.25	12/04/20 10 55	12/28/20 15:11	EPA 200 8
7440-70-2	Calcium	250	U	ug/L	250	12/04/20 10:47	12/08/20 13:54	EPA 6010
7440-47-3	Chromium	5.0	U	ug/L	5.0	12/04/20 10:47	12/08/20 13:54	EPA 6010
7440-48-4	Cobalt	5.0	U	ug/L	5.0	12/04/20 10:47	12/08/20 13:54	EPA 6010
7440-50-8	Copper	46		ug/L	10	12/04/20 10:47	12/08/20 13:54	EPA 6010
7439-89-6	Iron	100	U	ug/L	100	12/04/20 10:47	12/08/20 13:54	EPA 6010
7439-92-1	Lead	2.3		ug/L	0.50	12/04/20 10 55	12/28/20 15:11	EPA 200 8
7439-95-4	Magnesium	250	U	ug/L	250	12/04/20 10:47	12/08/20 13:54	EPA 6010
7439-96-5	Manganese	5.0	U	ug/L	5.0	12/04/20 10:47	12/08/20 13:54	EPA 6010
7439-98-7	Molybdenum	10	U	ug/L	10	12/04/20 10:47	12/08/20 13:54	EPA 6010
7440-02-0	Nickel	10	U	ug/L	10	12/04/20 10:47	12/08/20 13:54	EPA 6010
7440-09-7	Potassium	1000	U	ug/L	1000	12/04/20 10:47	12/08/20 13:54	EPA 6010
7782-49-2	Selenium	1.0	U	ug/L	1.0	12/04/20 10 55	12/28/20 15:11	EPA 200 8
7440-22-4	Silver	5.0	U	ug/L	5.0	12/04/20 10:47	12/08/20 13:54	EPA 6010
7440-23-5	Sodium	21000		ug/L	1000	12/04/20 10:47	12/08/20 13:54	EPA 6010
7440-24-6	Strontium	5.0	U	ug/L	5.0	12/04/20 10:47	12/08/20 13:54	EPA 6010
7440-28-0	Thallium	0.50	U	ug/L	0.50	12/04/20 10 55	12/28/20 15:11	EPA 200 8
7440-31-5	Tin	15	U	ug/L	15	12/04/20 10:47	12/08/20 13:54	EPA 6010
7440-32-6	Titanium	5.0	U	ug/L	5.0	12/04/20 10:47	12/08/20 13:54	EPA 6010
7440-62-2	Vanadium	5.0	U	ug/L	5.0	12/04/20 10:47	12/08/20 13:54	EPA 6010
7440-65-5	Yttrium	3.0	U	ug/L	3.0	12/04/20 10:47	12/08/20 13:54	EPA 6010
7440-66-6	Zinc	28		ug/L	10	12/04/20 10:47	12/08/20 13:54	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: 21-0027
Project: 21-0027, Ore Knob FY21 - Reported by Floyd Wellborn

Total Metals

Project: 21-0027, Ore Knob FY21

Sample ID: PW708-1120R
Station ID: OK708
Lab ID: E204907-09
Matrix: Potable Water

Date Collected: 11/16/20 15:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7429-90-5	Aluminum	100	U	ug/L	100	12/04/20 10:47	12/08/20 13:57	EPA 6010
7440-36-0	Antimony	0.50	U	ug/L	0.50	12/04/20 10 55	12/28/20 15:18	EPA 200 8
7440-38-2	Arsenic	0.50	U	ug/L	0.50	12/04/20 10 55	12/28/20 15:18	EPA 200 8
7440-39-3	Barium	5.0	U	ug/L	5.0	12/04/20 10:47	12/08/20 13:57	EPA 6010
7440-41-7	Beryllium	3.0	U	ug/L	3.0	12/04/20 10:47	12/08/20 13:57	EPA 6010
7440-43-9	Cadmium	0.25	U	ug/L	0.25	12/04/20 10 55	12/28/20 15:18	EPA 200 8
7440-70-2	Calcium	260		ug/L	250	12/04/20 10:47	12/08/20 13:57	EPA 6010
7440-47-3	Chromium	5.0	U	ug/L	5.0	12/04/20 10:47	12/08/20 13:57	EPA 6010
7440-48-4	Cobalt	5.0	U	ug/L	5.0	12/04/20 10:47	12/08/20 13:57	EPA 6010
7440-50-8	Copper	10	U	ug/L	10	12/04/20 10:47	12/08/20 13:57	EPA 6010
7439-89-6	Iron	100	U	ug/L	100	12/04/20 10:47	12/08/20 13:57	EPA 6010
7439-92-1	Lead	0.50	U	ug/L	0.50	12/04/20 10 55	12/28/20 15:18	EPA 200 8
7439-95-4	Magnesium	250	U	ug/L	250	12/04/20 10:47	12/08/20 13:57	EPA 6010
7439-96-5	Manganese	5.0	U	ug/L	5.0	12/04/20 10:47	12/08/20 13:57	EPA 6010
7439-98-7	Molybdenum	10	U	ug/L	10	12/04/20 10:47	12/08/20 13:57	EPA 6010
7440-02-0	Nickel	10	U	ug/L	10	12/04/20 10:47	12/08/20 13:57	EPA 6010
7440-09-7	Potassium	1000	U	ug/L	1000	12/04/20 10:47	12/08/20 13:57	EPA 6010
7782-49-2	Selenium	1.0	U	ug/L	1.0	12/04/20 10 55	12/28/20 15:18	EPA 200 8
7440-22-4	Silver	5.0	U	ug/L	5.0	12/04/20 10:47	12/08/20 13:57	EPA 6010
7440-23-5	Sodium	3300		ug/L	1000	12/04/20 10:47	12/08/20 13:57	EPA 6010
7440-24-6	Strontium	5.0	U	ug/L	5.0	12/04/20 10:47	12/08/20 13:57	EPA 6010
7440-28-0	Thallium	0.50	U	ug/L	0.50	12/04/20 10 55	12/28/20 15:18	EPA 200 8
7440-31-5	Tin	15	U	ug/L	15	12/04/20 10:47	12/08/20 13:57	EPA 6010
7440-32-6	Titanium	5.0	U	ug/L	5.0	12/04/20 10:47	12/08/20 13:57	EPA 6010
7440-62-2	Vanadium	5.0	U	ug/L	5.0	12/04/20 10:47	12/08/20 13:57	EPA 6010
7440-65-5	Yttrium	3.0	U	ug/L	3.0	12/04/20 10:47	12/08/20 13:57	EPA 6010
7440-66-6	Zinc	10	U	ug/L	10	12/04/20 10:47	12/08/20 13:57	EPA 6010

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 21-0027
Project: 21-0027, Ore Knob FY21 - Reported by Floyd Wellborn

Total Metals

Project: 21-0027, Ore Knob FY21

Sample ID: PW709-1120F
Station ID: OK709
Lab ID: E204907-10
Matrix: Potable Water

Date Collected: 11/17/20 9:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7429-90-5	Aluminum	100	U	ug/L	100	12/04/20 10:47	12/08/20 14:01	EPA 6010
7440-36-0	Antimony	0.50	U	ug/L	0.50	12/04/20 10 55	12/28/20 15:24	EPA 200 8
7440-38-2	Arsenic	0.50	U	ug/L	0.50	12/04/20 10 55	12/28/20 15:24	EPA 200 8
7440-39-3	Barium	5.0	U	ug/L	5.0	12/04/20 10:47	12/08/20 14:01	EPA 6010
7440-41-7	Beryllium	3.0	U	ug/L	3.0	12/04/20 10:47	12/08/20 14:01	EPA 6010
7440-43-9	Cadmium	0.25	U	ug/L	0.25	12/04/20 10 55	12/28/20 15:24	EPA 200 8
7440-70-2	Calcium	250	U	ug/L	250	12/04/20 10:47	12/08/20 14:01	EPA 6010
7440-47-3	Chromium	5.0	U	ug/L	5.0	12/04/20 10:47	12/08/20 14:01	EPA 6010
7440-48-4	Cobalt	5.0	U	ug/L	5.0	12/04/20 10:47	12/08/20 14:01	EPA 6010
7440-50-8	Copper	32		ug/L	10	12/04/20 10:47	12/08/20 14:01	EPA 6010
7439-89-6	Iron	100	U	ug/L	100	12/04/20 10:47	12/08/20 14:01	EPA 6010
7439-92-1	Lead	1.5		ug/L	0.50	12/04/20 10 55	12/28/20 15:24	EPA 200 8
7439-95-4	Magnesium	250	U	ug/L	250	12/04/20 10:47	12/08/20 14:01	EPA 6010
7439-96-5	Manganese	5.0	U	ug/L	5.0	12/04/20 10:47	12/08/20 14:01	EPA 6010
7439-98-7	Molybdenum	10	U	ug/L	10	12/04/20 10:47	12/08/20 14:01	EPA 6010
7440-02-0	Nickel	10	U	ug/L	10	12/04/20 10:47	12/08/20 14:01	EPA 6010
7440-09-7	Potassium	1000	U	ug/L	1000	12/04/20 10:47	12/08/20 14:01	EPA 6010
7782-49-2	Selenium	1.0	U	ug/L	1.0	12/04/20 10 55	12/28/20 15:24	EPA 200 8
7440-22-4	Silver	5.0	U	ug/L	5.0	12/04/20 10:47	12/08/20 14:01	EPA 6010
7440-23-5	Sodium	74000		ug/L	1000	12/04/20 10:47	12/08/20 14:01	EPA 6010
7440-24-6	Strontium	5.0	U	ug/L	5.0	12/04/20 10:47	12/08/20 14:01	EPA 6010
7440-28-0	Thallium	0.50	U	ug/L	0.50	12/04/20 10 55	12/28/20 15:24	EPA 200 8
7440-31-5	Tin	15	U	ug/L	15	12/04/20 10:47	12/08/20 14:01	EPA 6010
7440-32-6	Titanium	5.0	U	ug/L	5.0	12/04/20 10:47	12/08/20 14:01	EPA 6010
7440-62-2	Vanadium	5.0	U	ug/L	5.0	12/04/20 10:47	12/08/20 14:01	EPA 6010
7440-65-5	Yttrium	3.0	U	ug/L	3.0	12/04/20 10:47	12/08/20 14:01	EPA 6010
7440-66-6	Zinc	10	U	ug/L	10	12/04/20 10:47	12/08/20 14:01	EPA 6010

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 21-0027
Project: 21-0027, Ore Knob FY21 - Reported by Floyd Wellborn

Total Metals

Project: 21-0027, Ore Knob FY21

Sample ID: PW709-1120R
Station ID: OK709
Lab ID: E204907-11
Matrix: Potable Water

Date Collected: 11/17/20 9:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7429-90-5	Aluminum	100	U	ug/L	100	12/04/20 10:47	12/08/20 14:25	EPA 6010
7440-36-0	Antimony	0.50	U	ug/L	0.50	12/04/20 10 55	12/28/20 15:31	EPA 200 8
7440-38-2	Arsenic	0.50	U	ug/L	0.50	12/04/20 10 55	12/28/20 15:31	EPA 200 8
7440-39-3	Barium	5.0	U	ug/L	5.0	12/04/20 10:47	12/08/20 14:25	EPA 6010
7440-41-7	Beryllium	3.0	U	ug/L	3.0	12/04/20 10:47	12/08/20 14:25	EPA 6010
7440-43-9	Cadmium	0.25	U	ug/L	0.25	12/04/20 10 55	12/28/20 15:31	EPA 200 8
7440-70-2	Calcium	1400		ug/L	250	12/04/20 10:47	12/08/20 14:25	EPA 6010
7440-47-3	Chromium	5.0	U	ug/L	5.0	12/04/20 10:47	12/08/20 14:25	EPA 6010
7440-48-4	Cobalt	5.0	U	ug/L	5.0	12/04/20 10:47	12/08/20 14:25	EPA 6010
7440-50-8	Copper	10	U	ug/L	10	12/04/20 10:47	12/08/20 14:25	EPA 6010
7439-89-6	Iron	100	U	ug/L	100	12/04/20 10:47	12/08/20 14:25	EPA 6010
7439-92-1	Lead	0.50	U	ug/L	0.50	12/04/20 10 55	12/28/20 15:31	EPA 200 8
7439-95-4	Magnesium	1100		ug/L	250	12/04/20 10:47	12/08/20 14:25	EPA 6010
7439-96-5	Manganese	32		ug/L	5.0	12/04/20 10:47	12/08/20 14:25	EPA 6010
7439-98-7	Molybdenum	10	U	ug/L	10	12/04/20 10:47	12/08/20 14:25	EPA 6010
7440-02-0	Nickel	10	U	ug/L	10	12/04/20 10:47	12/08/20 14:25	EPA 6010
7440-09-7	Potassium	1000	U	ug/L	1000	12/04/20 10:47	12/08/20 14:25	EPA 6010
7782-49-2	Selenium	1.0	U	ug/L	1.0	12/04/20 10 55	12/28/20 15:31	EPA 200 8
7440-22-4	Silver	5.0	U	ug/L	5.0	12/04/20 10:47	12/08/20 14:25	EPA 6010
7440-23-5	Sodium	8600		ug/L	1000	12/04/20 10:47	12/08/20 14:25	EPA 6010
7440-24-6	Strontium	16	U, B-2	ug/L	16	12/04/20 10:47	12/08/20 14:25	EPA 6010
7440-28-0	Thallium	0.50	U	ug/L	0.50	12/04/20 10 55	12/28/20 15:31	EPA 200 8
7440-31-5	Tin	15	U	ug/L	15	12/04/20 10:47	12/08/20 14:25	EPA 6010
7440-32-6	Titanium	5.0	U	ug/L	5.0	12/04/20 10:47	12/08/20 14:25	EPA 6010
7440-62-2	Vanadium	5.0	U	ug/L	5.0	12/04/20 10:47	12/08/20 14:25	EPA 6010
7440-65-5	Yttrium	3.0	U	ug/L	3.0	12/04/20 10:47	12/08/20 14:25	EPA 6010
7440-66-6	Zinc	80		ug/L	10	12/04/20 10:47	12/08/20 14:25	EPA 6010

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 21-0027
Project: 21-0027, Ore Knob FY21 - Reported by Floyd Wellborn

Total Metals

Project: 21-0027, Ore Knob FY21

Sample ID: PW710-1120F
Station ID: OK710
Lab ID: E204907-12
Matrix: Potable Water

Date Collected: 11/18/20 12:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7429-90-5	Aluminum	100	U	ug/L	100	12/04/20 10:47	12/08/20 14:29	EPA 6010
7440-36-0	Antimony	0.50	U	ug/L	0.50	12/04/20 10 55	12/28/20 15:38	EPA 200 8
7440-38-2	Arsenic	0.50	U	ug/L	0.50	12/04/20 10 55	12/28/20 15:38	EPA 200 8
7440-39-3	Barium	6.0		ug/L	5.0	12/04/20 10:47	12/08/20 14:29	EPA 6010
7440-41-7	Beryllium	3.0	U	ug/L	3.0	12/04/20 10:47	12/08/20 14:29	EPA 6010
7440-43-9	Cadmium	0.25	U	ug/L	0.25	12/04/20 10 55	12/28/20 15:38	EPA 200 8
7440-70-2	Calcium	24000		ug/L	250	12/04/20 10:47	12/08/20 14:29	EPA 6010
7440-47-3	Chromium	5.0	U	ug/L	5.0	12/04/20 10:47	12/08/20 14:29	EPA 6010
7440-48-4	Cobalt	7.9		ug/L	5.0	12/04/20 10:47	12/08/20 14:29	EPA 6010
7440-50-8	Copper	10	U	ug/L	10	12/04/20 10:47	12/08/20 14:29	EPA 6010
7439-89-6	Iron	4700		ug/L	100	12/04/20 10:47	12/08/20 14:29	EPA 6010
7439-92-1	Lead	0.50	U	ug/L	0.50	12/04/20 10 55	12/28/20 15:38	EPA 200 8
7439-95-4	Magnesium	3000		ug/L	250	12/04/20 10:47	12/08/20 14:29	EPA 6010
7439-96-5	Manganese	1400		ug/L	5.0	12/04/20 10:47	12/08/20 14:29	EPA 6010
7439-98-7	Molybdenum	10	U	ug/L	10	12/04/20 10:47	12/08/20 14:29	EPA 6010
7440-02-0	Nickel	10	U	ug/L	10	12/04/20 10:47	12/08/20 14:29	EPA 6010
7440-09-7	Potassium	4800		ug/L	1000	12/04/20 10:47	12/08/20 14:29	EPA 6010
7782-49-2	Selenium	1.0	U	ug/L	1.0	12/04/20 10 55	12/28/20 15:38	EPA 200 8
7440-22-4	Silver	5.0	U	ug/L	5.0	12/04/20 10:47	12/08/20 14:29	EPA 6010
7440-23-5	Sodium	4600		ug/L	1000	12/04/20 10:47	12/08/20 14:29	EPA 6010
7440-24-6	Strontium	68		ug/L	5.0	12/04/20 10:47	12/08/20 14:29	EPA 6010
7440-28-0	Thallium	0.50	U	ug/L	0.50	12/04/20 10 55	12/28/20 15:38	EPA 200 8
7440-31-5	Tin	15	U	ug/L	15	12/04/20 10:47	12/08/20 14:29	EPA 6010
7440-32-6	Titanium	5.0	U	ug/L	5.0	12/04/20 10:47	12/08/20 14:29	EPA 6010
7440-62-2	Vanadium	5.0	U	ug/L	5.0	12/04/20 10:47	12/08/20 14:29	EPA 6010
7440-65-5	Yttrium	3.0	U	ug/L	3.0	12/04/20 10:47	12/08/20 14:29	EPA 6010
7440-66-6	Zinc	74		ug/L	10	12/04/20 10:47	12/08/20 14:29	EPA 6010

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 21-0027
Project: 21-0027, Ore Knob FY21 - Reported by Floyd Wellborn

Total Metals

Project: 21-0027, Ore Knob FY21

Sample ID: PW710-1120R
Station ID: OK710
Lab ID: E204907-13
Matrix: Potable Water

Date Collected: 11/18/20 12:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7429-90-5	Aluminum	100	U	ug/L	100	12/04/20 10:47	12/08/20 14:33	EPA 6010
7440-36-0	Antimony	0.50	U	ug/L	0.50	12/04/20 10 55	12/28/20 15:58	EPA 200 8
7440-38-2	Arsenic	0.50	U	ug/L	0.50	12/04/20 10 55	12/28/20 15:58	EPA 200 8
7440-39-3	Barium	5.0	U	ug/L	5.0	12/04/20 10:47	12/08/20 14:33	EPA 6010
7440-41-7	Beryllium	3.0	U	ug/L	3.0	12/04/20 10:47	12/08/20 14:33	EPA 6010
7440-43-9	Cadmium	0.25	U	ug/L	0.25	12/04/20 10 55	12/28/20 15:58	EPA 200 8
7440-70-2	Calcium	1200		ug/L	250	12/04/20 10:47	12/08/20 14:33	EPA 6010
7440-47-3	Chromium	5.0	U	ug/L	5.0	12/04/20 10:47	12/08/20 14:33	EPA 6010
7440-48-4	Cobalt	5.0	U	ug/L	5.0	12/04/20 10:47	12/08/20 14:33	EPA 6010
7440-50-8	Copper	10	U	ug/L	10	12/04/20 10:47	12/08/20 14:33	EPA 6010
7439-89-6	Iron	100	U	ug/L	100	12/04/20 10:47	12/08/20 14:33	EPA 6010
7439-92-1	Lead	0.50	U	ug/L	0.50	12/04/20 10 55	12/28/20 15:58	EPA 200 8
7439-95-4	Magnesium	250	U	ug/L	250	12/04/20 10:47	12/08/20 14:33	EPA 6010
7439-96-5	Manganese	73		ug/L	5.0	12/04/20 10:47	12/08/20 14:33	EPA 6010
7439-98-7	Molybdenum	10	U	ug/L	10	12/04/20 10:47	12/08/20 14:33	EPA 6010
7440-02-0	Nickel	10	U	ug/L	10	12/04/20 10:47	12/08/20 14:33	EPA 6010
7440-09-7	Potassium	1400		ug/L	1000	12/04/20 10:47	12/08/20 14:33	EPA 6010
7782-49-2	Selenium	1.0	U	ug/L	1.0	12/04/20 10 55	12/28/20 15:58	EPA 200 8
7440-22-4	Silver	5.0	U	ug/L	5.0	12/04/20 10:47	12/08/20 14:33	EPA 6010
7440-23-5	Sodium	1500		ug/L	1000	12/04/20 10:47	12/08/20 14:33	EPA 6010
7440-24-6	Strontium	5.0	U	ug/L	5.0	12/04/20 10:47	12/08/20 14:33	EPA 6010
7440-28-0	Thallium	0.50	U	ug/L	0.50	12/04/20 10 55	12/28/20 15:58	EPA 200 8
7440-31-5	Tin	15	U	ug/L	15	12/04/20 10:47	12/08/20 14:33	EPA 6010
7440-32-6	Titanium	5.0	U	ug/L	5.0	12/04/20 10:47	12/08/20 14:33	EPA 6010
7440-62-2	Vanadium	5.0	U	ug/L	5.0	12/04/20 10:47	12/08/20 14:33	EPA 6010
7440-65-5	Yttrium	3.0	U	ug/L	3.0	12/04/20 10:47	12/08/20 14:33	EPA 6010
7440-66-6	Zinc	10	U	ug/L	10	12/04/20 10:47	12/08/20 14:33	EPA 6010

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 21-0027
Project: 21-0027, Ore Knob FY21 - Reported by Floyd Wellborn

Total Metals

Project: 21-0027, Ore Knob FY21

Sample ID: PW711-1120F
Station ID: OK711
Lab ID: E204907-14
Matrix: Potable Water

Date Collected: 11/16/20 16:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7429-90-5	Aluminum	260		ug/L	100	12/04/20 10:47	12/08/20 14:36	EPA 6010
7440-36-0	Antimony	0.50	U	ug/L	0.50	12/04/20 10 55	12/28/20 16:05	EPA 200 8
7440-38-2	Arsenic	0.50	U	ug/L	0.50	12/04/20 10 55	12/28/20 16:05	EPA 200 8
7440-39-3	Barium	5.0	U	ug/L	5.0	12/04/20 10:47	12/08/20 14:36	EPA 6010
7440-41-7	Beryllium	3.0	U	ug/L	3.0	12/04/20 10:47	12/08/20 14:36	EPA 6010
7440-43-9	Cadmium	0.27		ug/L	0.25	12/04/20 10 55	12/28/20 16:05	EPA 200 8
7440-70-2	Calcium	6700		ug/L	250	12/04/20 10:47	12/08/20 14:36	EPA 6010
7440-47-3	Chromium	5.0	U	ug/L	5.0	12/04/20 10:47	12/08/20 14:36	EPA 6010
7440-48-4	Cobalt	9.6		ug/L	5.0	12/04/20 10:47	12/08/20 14:36	EPA 6010
7440-50-8	Copper	17		ug/L	10	12/04/20 10:47	12/08/20 14:36	EPA 6010
7439-89-6	Iron	2800		ug/L	100	12/04/20 10:47	12/08/20 14:36	EPA 6010
7439-92-1	Lead	0.50	U	ug/L	0.50	12/04/20 10 55	12/28/20 16:05	EPA 200 8
7439-95-4	Magnesium	570		ug/L	250	12/04/20 10:47	12/08/20 14:36	EPA 6010
7439-96-5	Manganese	670		ug/L	5.0	12/04/20 10:47	12/08/20 14:36	EPA 6010
7439-98-7	Molybdenum	10	U	ug/L	10	12/04/20 10:47	12/08/20 14:36	EPA 6010
7440-02-0	Nickel	10	U	ug/L	10	12/04/20 10:47	12/08/20 14:36	EPA 6010
7440-09-7	Potassium	1000	U	ug/L	1000	12/04/20 10:47	12/08/20 14:36	EPA 6010
7782-49-2	Selenium	1.0		ug/L	1.0	12/04/20 10 55	12/28/20 16:05	EPA 200 8
7440-22-4	Silver	5.0	U	ug/L	5.0	12/04/20 10:47	12/08/20 14:36	EPA 6010
7440-23-5	Sodium	130000		ug/L	1000	12/04/20 10:47	12/08/20 14:36	EPA 6010
7440-24-6	Strontium	19	U, B-2	ug/L	19	12/04/20 10:47	12/08/20 14:36	EPA 6010
7440-28-0	Thallium	0.50	U	ug/L	0.50	12/04/20 10 55	12/28/20 16:05	EPA 200 8
7440-31-5	Tin	15	U	ug/L	15	12/04/20 10:47	12/08/20 14:36	EPA 6010
7440-32-6	Titanium	5.0	U	ug/L	5.0	12/04/20 10:47	12/08/20 14:36	EPA 6010
7440-62-2	Vanadium	5.0	U	ug/L	5.0	12/04/20 10:47	12/08/20 14:36	EPA 6010
7440-65-5	Yttrium	9.8		ug/L	3.0	12/04/20 10:47	12/08/20 14:36	EPA 6010
7440-66-6	Zinc	140		ug/L	10	12/04/20 10:47	12/08/20 14:36	EPA 6010

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 21-0027
Project: 21-0027, Ore Knob FY21 - Reported by Floyd Wellborn

Total Metals

Project: 21-0027, Ore Knob FY21

Sample ID: PW711-1120R
Station ID: OK711
Lab ID: E204907-15
Matrix: Potable Water

Date Collected: 11/16/20 16:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7429-90-5	Aluminum	100	U	ug/L	100	12/04/20 10:47	12/08/20 14:40	EPA 6010
7440-36-0	Antimony	0.50	U	ug/L	0.50	12/04/20 10 55	12/28/20 16:11	EPA 200 8
7440-38-2	Arsenic	0.50	U	ug/L	0.50	12/04/20 10 55	12/28/20 16:11	EPA 200 8
7440-39-3	Barium	5.0	U	ug/L	5.0	12/04/20 10:47	12/08/20 14:40	EPA 6010
7440-41-7	Beryllium	3.0	U	ug/L	3.0	12/04/20 10:47	12/08/20 14:40	EPA 6010
7440-43-9	Cadmium	0.25	U	ug/L	0.25	12/04/20 10 55	12/28/20 16:11	EPA 200 8
7440-70-2	Calcium	370		ug/L	250	12/04/20 10:47	12/08/20 14:40	EPA 6010
7440-47-3	Chromium	5.0	U	ug/L	5.0	12/04/20 10:47	12/08/20 14:40	EPA 6010
7440-48-4	Cobalt	5.0	U	ug/L	5.0	12/04/20 10:47	12/08/20 14:40	EPA 6010
7440-50-8	Copper	10	U	ug/L	10	12/04/20 10:47	12/08/20 14:40	EPA 6010
7439-89-6	Iron	100	U	ug/L	100	12/04/20 10:47	12/08/20 14:40	EPA 6010
7439-92-1	Lead	0.50	U	ug/L	0.50	12/04/20 10 55	12/28/20 16:11	EPA 200 8
7439-95-4	Magnesium	250	U	ug/L	250	12/04/20 10:47	12/08/20 14:40	EPA 6010
7439-96-5	Manganese	22		ug/L	5.0	12/04/20 10:47	12/08/20 14:40	EPA 6010
7439-98-7	Molybdenum	10	U	ug/L	10	12/04/20 10:47	12/08/20 14:40	EPA 6010
7440-02-0	Nickel	10	U	ug/L	10	12/04/20 10:47	12/08/20 14:40	EPA 6010
7440-09-7	Potassium	1000	U	ug/L	1000	12/04/20 10:47	12/08/20 14:40	EPA 6010
7782-49-2	Selenium	1.0	U	ug/L	1.0	12/04/20 10 55	12/28/20 16:11	EPA 200 8
7440-22-4	Silver	5.0	U	ug/L	5.0	12/04/20 10:47	12/08/20 14:40	EPA 6010
7440-23-5	Sodium	12000		ug/L	1000	12/04/20 10:47	12/08/20 14:40	EPA 6010
7440-24-6	Strontium	5.0	U	ug/L	5.0	12/04/20 10:47	12/08/20 14:40	EPA 6010
7440-28-0	Thallium	0.50	U	ug/L	0.50	12/04/20 10 55	12/28/20 16:11	EPA 200 8
7440-31-5	Tin	15	U	ug/L	15	12/04/20 10:47	12/08/20 14:40	EPA 6010
7440-32-6	Titanium	5.0	U	ug/L	5.0	12/04/20 10:47	12/08/20 14:40	EPA 6010
7440-62-2	Vanadium	5.0	U	ug/L	5.0	12/04/20 10:47	12/08/20 14:40	EPA 6010
7440-65-5	Yttrium	3.0	U	ug/L	3.0	12/04/20 10:47	12/08/20 14:40	EPA 6010
7440-66-6	Zinc	10		ug/L	10	12/04/20 10:47	12/08/20 14:40	EPA 6010

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 21-0027
Project: 21-0027, Ore Knob FY21 - Reported by Floyd Wellborn

Total Metals

Project: 21-0027, Ore Knob FY21

Sample ID: PW712-1120F
Station ID: OK712
Lab ID: E204907-16
Matrix: Potable Water

Date Collected: 11/18/20 13:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7429-90-5	Aluminum	100	U	ug/L	100	12/04/20 10:47	12/08/20 14:43	EPA 6010
7440-36-0	Antimony	0.50	U	ug/L	0.50	12/04/20 10 55	12/28/20 16:18	EPA 200 8
7440-38-2	Arsenic	0.50	U	ug/L	0.50	12/04/20 10 55	12/28/20 16:18	EPA 200 8
7440-39-3	Barium	5.0	U	ug/L	5.0	12/04/20 10:47	12/08/20 14:43	EPA 6010
7440-41-7	Beryllium	3.0	U	ug/L	3.0	12/04/20 10:47	12/08/20 14:43	EPA 6010
7440-43-9	Cadmium	0.25	U	ug/L	0.25	12/04/20 10 55	12/28/20 16:18	EPA 200 8
7440-70-2	Calcium	250	U	ug/L	250	12/04/20 10:47	12/08/20 14:43	EPA 6010
7440-47-3	Chromium	5.0	U	ug/L	5.0	12/04/20 10:47	12/08/20 14:43	EPA 6010
7440-48-4	Cobalt	5.0	U	ug/L	5.0	12/04/20 10:47	12/08/20 14:43	EPA 6010
7440-50-8	Copper	110		ug/L	10	12/04/20 10:47	12/08/20 14:43	EPA 6010
7439-89-6	Iron	180		ug/L	100	12/04/20 10:47	12/08/20 14:43	EPA 6010
7439-92-1	Lead	2.0		ug/L	0.50	12/04/20 10 55	12/28/20 16:18	EPA 200 8
7439-95-4	Magnesium	250	U	ug/L	250	12/04/20 10:47	12/08/20 14:43	EPA 6010
7439-96-5	Manganese	5.0	U	ug/L	5.0	12/04/20 10:47	12/08/20 14:43	EPA 6010
7439-98-7	Molybdenum	10	U	ug/L	10	12/04/20 10:47	12/08/20 14:43	EPA 6010
7440-02-0	Nickel	10	U	ug/L	10	12/04/20 10:47	12/08/20 14:43	EPA 6010
7440-09-7	Potassium	1000	U	ug/L	1000	12/04/20 10:47	12/08/20 14:43	EPA 6010
7782-49-2	Selenium	1.0	U	ug/L	1.0	12/04/20 10 55	12/28/20 16:18	EPA 200 8
7440-22-4	Silver	5.0	U	ug/L	5.0	12/04/20 10:47	12/08/20 14:43	EPA 6010
7440-23-5	Sodium	36000		ug/L	1000	12/04/20 10:47	12/08/20 14:43	EPA 6010
7440-24-6	Strontium	5.0	U	ug/L	5.0	12/04/20 10:47	12/08/20 14:43	EPA 6010
7440-28-0	Thallium	0.50	U	ug/L	0.50	12/04/20 10 55	12/28/20 16:18	EPA 200 8
7440-31-5	Tin	15	U	ug/L	15	12/04/20 10:47	12/08/20 14:43	EPA 6010
7440-32-6	Titanium	5.0	U	ug/L	5.0	12/04/20 10:47	12/08/20 14:43	EPA 6010
7440-62-2	Vanadium	5.0	U	ug/L	5.0	12/04/20 10:47	12/08/20 14:43	EPA 6010
7440-65-5	Yttrium	3.0	U	ug/L	3.0	12/04/20 10:47	12/08/20 14:43	EPA 6010
7440-66-6	Zinc	80		ug/L	10	12/04/20 10:47	12/08/20 14:43	EPA 6010

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 21-0027
Project: 21-0027, Ore Knob FY21 - Reported by Floyd Wellborn

Total Metals

Project: 21-0027, Ore Knob FY21

Sample ID: PW712-1120R
Station ID: OK712
Lab ID: E204907-17
Matrix: Potable Water

Date Collected: 11/18/20 13:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7429-90-5	Aluminum	100	U	ug/L	100	12/04/20 10:47	12/08/20 14:47	EPA 6010
7440-36-0	Antimony	0.50	U	ug/L	0.50	12/04/20 10 55	12/28/20 16:25	EPA 200 8
7440-38-2	Arsenic	0.50	U	ug/L	0.50	12/04/20 10 55	12/28/20 16:25	EPA 200 8
7440-39-3	Barium	5.0	U	ug/L	5.0	12/04/20 10:47	12/08/20 14:47	EPA 6010
7440-41-7	Beryllium	3.0	U	ug/L	3.0	12/04/20 10:47	12/08/20 14:47	EPA 6010
7440-43-9	Cadmium	0.25	U	ug/L	0.25	12/04/20 10 55	12/28/20 16:25	EPA 200 8
7440-70-2	Calcium	250	U	ug/L	250	12/04/20 10:47	12/08/20 14:47	EPA 6010
7440-47-3	Chromium	5.0	U	ug/L	5.0	12/04/20 10:47	12/08/20 14:47	EPA 6010
7440-48-4	Cobalt	5.0	U	ug/L	5.0	12/04/20 10:47	12/08/20 14:47	EPA 6010
7440-50-8	Copper	10	U	ug/L	10	12/04/20 10:47	12/08/20 14:47	EPA 6010
7439-89-6	Iron	100	U	ug/L	100	12/04/20 10:47	12/08/20 14:47	EPA 6010
7439-92-1	Lead	0.50	U	ug/L	0.50	12/04/20 10 55	12/28/20 16:25	EPA 200 8
7439-95-4	Magnesium	250	U	ug/L	250	12/04/20 10:47	12/08/20 14:47	EPA 6010
7439-96-5	Manganese	5.0	U	ug/L	5.0	12/04/20 10:47	12/08/20 14:47	EPA 6010
7439-98-7	Molybdenum	10	U	ug/L	10	12/04/20 10:47	12/08/20 14:47	EPA 6010
7440-02-0	Nickel	10	U	ug/L	10	12/04/20 10:47	12/08/20 14:47	EPA 6010
7440-09-7	Potassium	1000	U	ug/L	1000	12/04/20 10:47	12/08/20 14:47	EPA 6010
7782-49-2	Selenium	1.0	U	ug/L	1.0	12/04/20 10 55	12/28/20 16:25	EPA 200 8
7440-22-4	Silver	5.0	U	ug/L	5.0	12/04/20 10:47	12/08/20 14:47	EPA 6010
7440-23-5	Sodium	4400		ug/L	1000	12/04/20 10:47	12/08/20 14:47	EPA 6010
7440-24-6	Strontium	5.0	U	ug/L	5.0	12/04/20 10:47	12/08/20 14:47	EPA 6010
7440-28-0	Thallium	0.50	U	ug/L	0.50	12/04/20 10 55	12/28/20 16:25	EPA 200 8
7440-31-5	Tin	15	U	ug/L	15	12/04/20 10:47	12/08/20 14:47	EPA 6010
7440-32-6	Titanium	5.0	U	ug/L	5.0	12/04/20 10:47	12/08/20 14:47	EPA 6010
7440-62-2	Vanadium	5.0	U	ug/L	5.0	12/04/20 10:47	12/08/20 14:47	EPA 6010
7440-65-5	Yttrium	3.0	U	ug/L	3.0	12/04/20 10:47	12/08/20 14:47	EPA 6010
7440-66-6	Zinc	10	U	ug/L	10	12/04/20 10:47	12/08/20 14:47	EPA 6010

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 21-0027
Project: 21-0027, Ore Knob FY21 - Reported by Floyd Wellborn

Total Metals

Project: 21-0027, Ore Knob FY21

Sample ID: PW713-1120A
Station ID: OK713
Lab ID: E204907-18
Matrix: Potable Water

Date Collected: 11/17/20 14:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7429-90-5	Aluminum	100	U	ug/L	100	12/04/20 10:47	12/08/20 14:50	EPA 6010
7440-36-0	Antimony	0.50	U	ug/L	0.50	12/04/20 10 55	12/28/20 16:31	EPA 200 8
7440-38-2	Arsenic	0.50	U	ug/L	0.50	12/04/20 10 55	12/28/20 16:31	EPA 200 8
7440-39-3	Barium	50		ug/L	5.0	12/04/20 10:47	12/08/20 14:50	EPA 6010
7440-41-7	Beryllium	3.0	U	ug/L	3.0	12/04/20 10:47	12/08/20 14:50	EPA 6010
7440-43-9	Cadmium	0.25	U	ug/L	0.25	12/04/20 10 55	12/28/20 16:31	EPA 200 8
7440-70-2	Calcium	6700		ug/L	250	12/04/20 10:47	12/08/20 14:50	EPA 6010
7440-47-3	Chromium	5.0	U	ug/L	5.0	12/04/20 10:47	12/08/20 14:50	EPA 6010
7440-48-4	Cobalt	5.0	U	ug/L	5.0	12/04/20 10:47	12/08/20 14:50	EPA 6010
7440-50-8	Copper	10	U	ug/L	10	12/04/20 10:47	12/08/20 14:50	EPA 6010
7439-89-6	Iron	100	U	ug/L	100	12/04/20 10:47	12/08/20 14:50	EPA 6010
7439-92-1	Lead	0.53		ug/L	0.50	12/04/20 10 55	12/28/20 16:31	EPA 200 8
7439-95-4	Magnesium	1800		ug/L	250	12/04/20 10:47	12/08/20 14:50	EPA 6010
7439-96-5	Manganese	8.7		ug/L	5.0	12/04/20 10:47	12/08/20 14:50	EPA 6010
7439-98-7	Molybdenum	10	U	ug/L	10	12/04/20 10:47	12/08/20 14:50	EPA 6010
7440-02-0	Nickel	10	U	ug/L	10	12/04/20 10:47	12/08/20 14:50	EPA 6010
7440-09-7	Potassium	1400		ug/L	1000	12/04/20 10:47	12/08/20 14:50	EPA 6010
7782-49-2	Selenium	1.0	U	ug/L	1.0	12/04/20 10 55	12/28/20 16:31	EPA 200 8
7440-22-4	Silver	5.0	U	ug/L	5.0	12/04/20 10:47	12/08/20 14:50	EPA 6010
7440-23-5	Sodium	1900		ug/L	1000	12/04/20 10:47	12/08/20 14:50	EPA 6010
7440-24-6	Strontium	51		ug/L	5.0	12/04/20 10:47	12/08/20 14:50	EPA 6010
7440-28-0	Thallium	0.50	U	ug/L	0.50	12/04/20 10 55	12/28/20 16:31	EPA 200 8
7440-31-5	Tin	15	U	ug/L	15	12/04/20 10:47	12/08/20 14:50	EPA 6010
7440-32-6	Titanium	5.0	U	ug/L	5.0	12/04/20 10:47	12/08/20 14:50	EPA 6010
7440-62-2	Vanadium	5.0	U	ug/L	5.0	12/04/20 10:47	12/08/20 14:50	EPA 6010
7440-65-5	Yttrium	3.0	U	ug/L	3.0	12/04/20 10:47	12/08/20 14:50	EPA 6010
7440-66-6	Zinc	14		ug/L	10	12/04/20 10:47	12/08/20 14:50	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: 21-0027
Project: 21-0027, Ore Knob FY21 - Reported by Floyd Wellborn

Total Metals

Project: 21-0027, Ore Knob FY21

Sample ID: PW713-1120B
Station ID: OK713
Lab ID: E204907-19
Matrix: Potable Water

Date Collected: 11/17/20 14:55

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7429-90-5	Aluminum	100	U	ug/L	100	12/04/20 10:47	12/08/20 14:54	EPA 6010
7440-36-0	Antimony	0.50	U	ug/L	0.50	12/04/20 10 55	12/28/20 16:38	EPA 200 8
7440-38-2	Arsenic	0.50	U	ug/L	0.50	12/04/20 10 55	12/28/20 16:38	EPA 200 8
7440-39-3	Barium	52		ug/L	5.0	12/04/20 10:47	12/08/20 14:54	EPA 6010
7440-41-7	Beryllium	3.0	U	ug/L	3.0	12/04/20 10:47	12/08/20 14:54	EPA 6010
7440-43-9	Cadmium	0.25	U	ug/L	0.25	12/04/20 10 55	12/28/20 16:38	EPA 200 8
7440-70-2	Calcium	6100		ug/L	250	12/04/20 10:47	12/08/20 14:54	EPA 6010
7440-47-3	Chromium	5.0	U	ug/L	5.0	12/04/20 10:47	12/08/20 14:54	EPA 6010
7440-48-4	Cobalt	5.0	U	ug/L	5.0	12/04/20 10:47	12/08/20 14:54	EPA 6010
7440-50-8	Copper	10	U	ug/L	10	12/04/20 10:47	12/08/20 14:54	EPA 6010
7439-89-6	Iron	110		ug/L	100	12/04/20 10:47	12/08/20 14:54	EPA 6010
7439-92-1	Lead	0.50	U	ug/L	0.50	12/04/20 10 55	12/28/20 16:38	EPA 200 8
7439-95-4	Magnesium	1600		ug/L	250	12/04/20 10:47	12/08/20 14:54	EPA 6010
7439-96-5	Manganese	13		ug/L	5.0	12/04/20 10:47	12/08/20 14:54	EPA 6010
7439-98-7	Molybdenum	10	U	ug/L	10	12/04/20 10:47	12/08/20 14:54	EPA 6010
7440-02-0	Nickel	10	U	ug/L	10	12/04/20 10:47	12/08/20 14:54	EPA 6010
7440-09-7	Potassium	1400		ug/L	1000	12/04/20 10:47	12/08/20 14:54	EPA 6010
7782-49-2	Selenium	1.0	U	ug/L	1.0	12/04/20 10 55	12/28/20 16:38	EPA 200 8
7440-22-4	Silver	5.0	U	ug/L	5.0	12/04/20 10:47	12/08/20 14:54	EPA 6010
7440-23-5	Sodium	1900		ug/L	1000	12/04/20 10:47	12/08/20 14:54	EPA 6010
7440-24-6	Strontium	46		ug/L	5.0	12/04/20 10:47	12/08/20 14:54	EPA 6010
7440-28-0	Thallium	0.50	U	ug/L	0.50	12/04/20 10 55	12/28/20 16:38	EPA 200 8
7440-31-5	Tin	15	U	ug/L	15	12/04/20 10:47	12/08/20 14:54	EPA 6010
7440-32-6	Titanium	5.0	U	ug/L	5.0	12/04/20 10:47	12/08/20 14:54	EPA 6010
7440-62-2	Vanadium	5.0	U	ug/L	5.0	12/04/20 10:47	12/08/20 14:54	EPA 6010
7440-65-5	Yttrium	3.0	U	ug/L	3.0	12/04/20 10:47	12/08/20 14:54	EPA 6010
7440-66-6	Zinc	21		ug/L	10	12/04/20 10:47	12/08/20 14:54	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: 21-0027
Project: 21-0027, Ore Knob FY21 - Reported by Floyd Wellborn

Total Metals

Project: 21-0027, Ore Knob FY21

Sample ID: PW713-1120BS
Station ID: OK713
Lab ID: E204907-20
Matrix: Potable Water

Date Collected: 11/17/20 15:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7429-90-5	Aluminum	100	U	ug/L	100	12/04/20 10:47	12/08/20 14:57	EPA 6010
7440-36-0	Antimony	0.50	U	ug/L	0.50	12/04/20 10 55	12/28/20 16:58	EPA 200 8
7440-38-2	Arsenic	0.50	U	ug/L	0.50	12/04/20 10 55	12/28/20 16:58	EPA 200 8
7440-39-3	Barium	53		ug/L	5.0	12/04/20 10:47	12/08/20 14:57	EPA 6010
7440-41-7	Beryllium	3.0	U	ug/L	3.0	12/04/20 10:47	12/08/20 14:57	EPA 6010
7440-43-9	Cadmium	0.25	U	ug/L	0.25	12/04/20 10 55	12/28/20 16:58	EPA 200 8
7440-70-2	Calcium	6100		ug/L	250	12/04/20 10:47	12/08/20 14:57	EPA 6010
7440-47-3	Chromium	5.0	U	ug/L	5.0	12/04/20 10:47	12/08/20 14:57	EPA 6010
7440-48-4	Cobalt	5.0	U	ug/L	5.0	12/04/20 10:47	12/08/20 14:57	EPA 6010
7440-50-8	Copper	10	U	ug/L	10	12/04/20 10:47	12/08/20 14:57	EPA 6010
7439-89-6	Iron	190		ug/L	100	12/04/20 10:47	12/08/20 14:57	EPA 6010
7439-92-1	Lead	3.5		ug/L	0.50	12/04/20 10 55	12/28/20 16:58	EPA 200 8
7439-95-4	Magnesium	1600		ug/L	250	12/04/20 10:47	12/08/20 14:57	EPA 6010
7439-96-5	Manganese	13		ug/L	5.0	12/04/20 10:47	12/08/20 14:57	EPA 6010
7439-98-7	Molybdenum	10	U	ug/L	10	12/04/20 10:47	12/08/20 14:57	EPA 6010
7440-02-0	Nickel	10	U	ug/L	10	12/04/20 10:47	12/08/20 14:57	EPA 6010
7440-09-7	Potassium	1300		ug/L	1000	12/04/20 10:47	12/08/20 14:57	EPA 6010
7782-49-2	Selenium	1.0	U	ug/L	1.0	12/04/20 10 55	12/28/20 16:58	EPA 200 8
7440-22-4	Silver	5.0	U	ug/L	5.0	12/04/20 10:47	12/08/20 14:57	EPA 6010
7440-23-5	Sodium	1900		ug/L	1000	12/04/20 10:47	12/08/20 14:57	EPA 6010
7440-24-6	Strontium	46		ug/L	5.0	12/04/20 10:47	12/08/20 14:57	EPA 6010
7440-28-0	Thallium	0.50	U	ug/L	0.50	12/04/20 10 55	12/28/20 16:58	EPA 200 8
7440-31-5	Tin	15	U	ug/L	15	12/04/20 10:47	12/08/20 14:57	EPA 6010
7440-32-6	Titanium	5.0	U	ug/L	5.0	12/04/20 10:47	12/08/20 14:57	EPA 6010
7440-62-2	Vanadium	5.0	U	ug/L	5.0	12/04/20 10:47	12/08/20 14:57	EPA 6010
7440-65-5	Yttrium	3.0	U	ug/L	3.0	12/04/20 10:47	12/08/20 14:57	EPA 6010
7440-66-6	Zinc	25		ug/L	10	12/04/20 10:47	12/08/20 14:57	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: 21-0027
Project: 21-0027, Ore Knob FY21 - Reported by Floyd Wellborn

Total Metals

Project: 21-0027, Ore Knob FY21

Sample ID: PW713-1120D
Station ID: OK713
Lab ID: E204907-21
Matrix: Potable Water

Date Collected: 11/17/20 15:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7429-90-5	Aluminum	100	U	ug/L	100	12/07/20 10 58	12/09/20 13:16	EPA 6010
7440-36-0	Antimony	0.50	U	ug/L	0.50	12/07/20 11 06	12/28/20 17:59	EPA 200 8
7440-38-2	Arsenic	0.50	U	ug/L	0.50	12/07/20 11 06	12/28/20 17:59	EPA 200 8
7440-39-3	Barium	56		ug/L	5.0	12/07/20 10 58	12/09/20 13:16	EPA 6010
7440-41-7	Beryllium	3.0	U	ug/L	3.0	12/07/20 10 58	12/09/20 13:16	EPA 6010
7440-43-9	Cadmium	0.25	U	ug/L	0.25	12/07/20 11 06	12/28/20 17:59	EPA 200 8
7440-70-2	Calcium	6300		ug/L	250	12/07/20 10 58	12/09/20 13:16	EPA 6010
7440-47-3	Chromium	5.0	U	ug/L	5.0	12/07/20 10 58	12/09/20 13:16	EPA 6010
7440-48-4	Cobalt	5.0	U	ug/L	5.0	12/07/20 10 58	12/09/20 13:16	EPA 6010
7440-50-8	Copper	14		ug/L	10	12/07/20 10 58	12/09/20 13:16	EPA 6010
7439-89-6	Iron	130		ug/L	100	12/07/20 10 58	12/09/20 13:16	EPA 6010
7439-92-1	Lead	0.50	U	ug/L	0.50	12/07/20 11 06	12/28/20 17:59	EPA 200 8
7439-95-4	Magnesium	1700		ug/L	250	12/07/20 10 58	12/09/20 13:16	EPA 6010
7439-96-5	Manganese	15		ug/L	5.0	12/07/20 10 58	12/09/20 13:16	EPA 6010
7439-98-7	Molybdenum	10	U	ug/L	10	12/07/20 10 58	12/09/20 13:16	EPA 6010
7440-02-0	Nickel	10	U	ug/L	10	12/07/20 10 58	12/09/20 13:16	EPA 6010
7440-09-7	Potassium	1400		ug/L	1000	12/07/20 10 58	12/09/20 13:16	EPA 6010
7782-49-2	Selenium	1.0	U	ug/L	1.0	12/07/20 11 06	12/28/20 17:59	EPA 200 8
7440-22-4	Silver	5.0	U	ug/L	5.0	12/07/20 10 58	12/09/20 13:16	EPA 6010
7440-23-5	Sodium	2000		ug/L	1000	12/07/20 10 58	12/09/20 13:16	EPA 6010
7440-24-6	Strontium	50	U, B-2	ug/L	50	12/07/20 10 58	12/09/20 13:16	EPA 6010
7440-28-0	Thallium	0.50	U	ug/L	0.50	12/07/20 11 06	12/28/20 17:59	EPA 200 8
7440-31-5	Tin	15	U	ug/L	15	12/07/20 10 58	12/09/20 13:16	EPA 6010
7440-32-6	Titanium	5.0	U	ug/L	5.0	12/07/20 10 58	12/09/20 13:16	EPA 6010
7440-62-2	Vanadium	5.0	U	ug/L	5.0	12/07/20 10 58	12/09/20 13:16	EPA 6010
7440-65-5	Yttrium	3.0	U	ug/L	3.0	12/07/20 10 58	12/09/20 13:16	EPA 6010
7440-66-6	Zinc	22	U, B-2	ug/L	22	12/07/20 10 58	12/09/20 13:16	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: 21-0027
Project: 21-0027, Ore Knob FY21 - Reported by Floyd Wellborn

Total Metals

Project: 21-0027, Ore Knob FY21

Sample ID: PW720-1120 **Lab ID:** E204907-22
Station ID: OK720 **Matrix:** Potable Water

Date Collected: 11/17/20 11:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7429-90-5	Aluminum	880		ug/L	100	12/07/20 10 58	12/09/20 13:19	EPA 6010
7440-36-0	Antimony	0.50	U	ug/L	0.50	12/07/20 11 06	12/28/20 18:19	EPA 200 8
7440-38-2	Arsenic	0.50	U	ug/L	0.50	12/07/20 11 06	12/28/20 18:19	EPA 200 8
7440-39-3	Barium	14		ug/L	5.0	12/07/20 10 58	12/09/20 13:19	EPA 6010
7440-41-7	Beryllium	3.0	U	ug/L	3.0	12/07/20 10 58	12/09/20 13:19	EPA 6010
7440-43-9	Cadmium	0.25	U	ug/L	0.25	12/07/20 11 06	12/28/20 18:19	EPA 200 8
7440-70-2	Calcium	26000		ug/L	250	12/07/20 10 58	12/09/20 13:19	EPA 6010
7440-47-3	Chromium	5.0	U	ug/L	5.0	12/07/20 10 58	12/09/20 13:19	EPA 6010
7440-48-4	Cobalt	5.0	U	ug/L	5.0	12/07/20 10 58	12/09/20 13:19	EPA 6010
7440-50-8	Copper	31		ug/L	10	12/07/20 10 58	12/09/20 13:19	EPA 6010
7439-89-6	Iron	100	U	ug/L	100	12/07/20 10 58	12/09/20 13:19	EPA 6010
7439-92-1	Lead	1.1		ug/L	0.50	12/07/20 11 06	12/28/20 18:19	EPA 200 8
7439-95-4	Magnesium	1500		ug/L	250	12/07/20 10 58	12/09/20 13:19	EPA 6010
7439-96-5	Manganese	5.0	U	ug/L	5.0	12/07/20 10 58	12/09/20 13:19	EPA 6010
7439-98-7	Molybdenum	10	U	ug/L	10	12/07/20 10 58	12/09/20 13:19	EPA 6010
7440-02-0	Nickel	10	U	ug/L	10	12/07/20 10 58	12/09/20 13:19	EPA 6010
7440-09-7	Potassium	2100		ug/L	1000	12/07/20 10 58	12/09/20 13:19	EPA 6010
7782-49-2	Selenium	1.0	U	ug/L	1.0	12/07/20 11 06	12/28/20 18:19	EPA 200 8
7440-22-4	Silver	5.0	U	ug/L	5.0	12/07/20 10 58	12/09/20 13:19	EPA 6010
7440-23-5	Sodium	3500		ug/L	1000	12/07/20 10 58	12/09/20 13:19	EPA 6010
7440-24-6	Strontium	83		ug/L	5.0	12/07/20 10 58	12/09/20 13:19	EPA 6010
7440-28-0	Thallium	0.50	U	ug/L	0.50	12/07/20 11 06	12/28/20 18:19	EPA 200 8
7440-31-5	Tin	15	U	ug/L	15	12/07/20 10 58	12/09/20 13:19	EPA 6010
7440-32-6	Titanium	5.0	U	ug/L	5.0	12/07/20 10 58	12/09/20 13:19	EPA 6010
7440-62-2	Vanadium	5.0	U	ug/L	5.0	12/07/20 10 58	12/09/20 13:19	EPA 6010
7440-65-5	Yttrium	3.0	U	ug/L	3.0	12/07/20 10 58	12/09/20 13:19	EPA 6010
7440-66-6	Zinc	39	U, B-2	ug/L	39	12/07/20 10 58	12/09/20 13:19	EPA 6010

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D.A.R.T. Id: 21-0027
Project: 21-0027, Ore Knob FY21 - Reported by Floyd Wellborn

Total Metals

Project: 21-0027, Ore Knob FY21

Sample ID: PW722-1120
Station ID: OK722
Lab ID: E204907-23
Matrix: Potable Water

Date Collected: 11/17/20 10:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7429-90-5	Aluminum	100	U	ug/L	100	12/07/20 10 58	12/09/20 13:23	EPA 6010
7440-36-0	Antimony	0.50	U	ug/L	0.50	12/07/20 11 06	12/28/20 18:25	EPA 200 8
7440-38-2	Arsenic	0.50	U	ug/L	0.50	12/07/20 11 06	12/28/20 18:25	EPA 200 8
7440-39-3	Barium	35		ug/L	5.0	12/07/20 10 58	12/09/20 13:23	EPA 6010
7440-41-7	Beryllium	3.0	U	ug/L	3.0	12/07/20 10 58	12/09/20 13:23	EPA 6010
7440-43-9	Cadmium	0.25	U	ug/L	0.25	12/07/20 11 06	12/28/20 18:25	EPA 200 8
7440-70-2	Calcium	3300		ug/L	250	12/07/20 10 58	12/09/20 13:23	EPA 6010
7440-47-3	Chromium	5.0	U	ug/L	5.0	12/07/20 10 58	12/09/20 13:23	EPA 6010
7440-48-4	Cobalt	5.0	U	ug/L	5.0	12/07/20 10 58	12/09/20 13:23	EPA 6010
7440-50-8	Copper	10	U	ug/L	10	12/07/20 10 58	12/09/20 13:23	EPA 6010
7439-89-6	Iron	100	U	ug/L	100	12/07/20 10 58	12/09/20 13:23	EPA 6010
7439-92-1	Lead	0.50	U	ug/L	0.50	12/07/20 11 06	12/28/20 18:25	EPA 200 8
7439-95-4	Magnesium	1400		ug/L	250	12/07/20 10 58	12/09/20 13:23	EPA 6010
7439-96-5	Manganese	5.0	U	ug/L	5.0	12/07/20 10 58	12/09/20 13:23	EPA 6010
7439-98-7	Molybdenum	10	U	ug/L	10	12/07/20 10 58	12/09/20 13:23	EPA 6010
7440-02-0	Nickel	10	U	ug/L	10	12/07/20 10 58	12/09/20 13:23	EPA 6010
7440-09-7	Potassium	1100		ug/L	1000	12/07/20 10 58	12/09/20 13:23	EPA 6010
7782-49-2	Selenium	1.0	U	ug/L	1.0	12/07/20 11 06	12/28/20 18:25	EPA 200 8
7440-22-4	Silver	5.0	U	ug/L	5.0	12/07/20 10 58	12/09/20 13:23	EPA 6010
7440-23-5	Sodium	1300		ug/L	1000	12/07/20 10 58	12/09/20 13:23	EPA 6010
7440-24-6	Strontium	41	U, B-2	ug/L	41	12/07/20 10 58	12/09/20 13:23	EPA 6010
7440-28-0	Thallium	0.50	U	ug/L	0.50	12/07/20 11 06	12/28/20 18:25	EPA 200 8
7440-31-5	Tin	15	U	ug/L	15	12/07/20 10 58	12/09/20 13:23	EPA 6010
7440-32-6	Titanium	5.0	U	ug/L	5.0	12/07/20 10 58	12/09/20 13:23	EPA 6010
7440-62-2	Vanadium	5.0	U	ug/L	5.0	12/07/20 10 58	12/09/20 13:23	EPA 6010
7440-65-5	Yttrium	3.0	U	ug/L	3.0	12/07/20 10 58	12/09/20 13:23	EPA 6010
7440-66-6	Zinc	10	U	ug/L	10	12/07/20 10 58	12/09/20 13:23	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: 21-0027
Project: 21-0027, Ore Knob FY21 - Reported by Floyd Wellborn

Total Metals

Project: 21-0027, Ore Knob FY21

Sample ID: PW722-1120S
Station ID: OK722
Lab ID: E204907-24
Matrix: Potable Water

Date Collected: 11/17/20 10:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7429-90-5	Aluminum	100	U	ug/L	100	12/07/20 10 58	12/09/20 13:26	EPA 6010
7440-36-0	Antimony	0.50	U	ug/L	0.50	12/07/20 11 06	12/28/20 18:32	EPA 200 8
7440-38-2	Arsenic	0.50	U	ug/L	0.50	12/07/20 11 06	12/28/20 18:32	EPA 200 8
7440-39-3	Barium	35		ug/L	5.0	12/07/20 10 58	12/09/20 13:26	EPA 6010
7440-41-7	Beryllium	3.0	U	ug/L	3.0	12/07/20 10 58	12/09/20 13:26	EPA 6010
7440-43-9	Cadmium	0.25	U	ug/L	0.25	12/07/20 11 06	12/28/20 18:32	EPA 200 8
7440-70-2	Calcium	3300		ug/L	250	12/07/20 10 58	12/09/20 13:26	EPA 6010
7440-47-3	Chromium	5.0	U	ug/L	5.0	12/07/20 10 58	12/09/20 13:26	EPA 6010
7440-48-4	Cobalt	5.0	U	ug/L	5.0	12/07/20 10 58	12/09/20 13:26	EPA 6010
7440-50-8	Copper	10	U	ug/L	10	12/07/20 10 58	12/09/20 13:26	EPA 6010
7439-89-6	Iron	100	U	ug/L	100	12/07/20 10 58	12/09/20 13:26	EPA 6010
7439-92-1	Lead	0.50	U	ug/L	0.50	12/07/20 11 06	12/28/20 18:32	EPA 200 8
7439-95-4	Magnesium	1400		ug/L	250	12/07/20 10 58	12/09/20 13:26	EPA 6010
7439-96-5	Manganese	5.0	U	ug/L	5.0	12/07/20 10 58	12/09/20 13:26	EPA 6010
7439-98-7	Molybdenum	10	U	ug/L	10	12/07/20 10 58	12/09/20 13:26	EPA 6010
7440-02-0	Nickel	10	U	ug/L	10	12/07/20 10 58	12/09/20 13:26	EPA 6010
7440-09-7	Potassium	1100		ug/L	1000	12/07/20 10 58	12/09/20 13:26	EPA 6010
7782-49-2	Selenium	1.0	U	ug/L	1.0	12/07/20 11 06	12/28/20 18:32	EPA 200 8
7440-22-4	Silver	5.0	U	ug/L	5.0	12/07/20 10 58	12/09/20 13:26	EPA 6010
7440-23-5	Sodium	1300		ug/L	1000	12/07/20 10 58	12/09/20 13:26	EPA 6010
7440-24-6	Strontium	41	U, B-2	ug/L	41	12/07/20 10 58	12/09/20 13:26	EPA 6010
7440-28-0	Thallium	0.50	U	ug/L	0.50	12/07/20 11 06	12/28/20 18:32	EPA 200 8
7440-31-5	Tin	15	U	ug/L	15	12/07/20 10 58	12/09/20 13:26	EPA 6010
7440-32-6	Titanium	5.0	U	ug/L	5.0	12/07/20 10 58	12/09/20 13:26	EPA 6010
7440-62-2	Vanadium	5.0	U	ug/L	5.0	12/07/20 10 58	12/09/20 13:26	EPA 6010
7440-65-5	Yttrium	3.0	U	ug/L	3.0	12/07/20 10 58	12/09/20 13:26	EPA 6010
7440-66-6	Zinc	10	U	ug/L	10	12/07/20 10 58	12/09/20 13:26	EPA 6010

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 21-0027
Project: 21-0027, Ore Knob FY21 - Reported by Floyd Wellborn

Total Metals

Project: 21-0027, Ore Knob FY21

Sample ID: PW723-1120F
Station ID: OK723
Lab ID: E204907-25
Matrix: Potable Water

Date Collected: 11/17/20 16:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7429-90-5	Aluminum	100	U	ug/L	100	12/07/20 10 58	12/09/20 13:30	EPA 6010
7440-36-0	Antimony	0.50	U	ug/L	0.50	12/07/20 11 06	12/28/20 18:39	EPA 200 8
7440-38-2	Arsenic	0.50	U	ug/L	0.50	12/07/20 11 06	12/28/20 18:39	EPA 200 8
7440-39-3	Barium	5.0	U	ug/L	5.0	12/07/20 10 58	12/09/20 13:30	EPA 6010
7440-41-7	Beryllium	3.0	U	ug/L	3.0	12/07/20 10 58	12/09/20 13:30	EPA 6010
7440-43-9	Cadmium	0.25	U	ug/L	0.25	12/07/20 11 06	12/28/20 18:39	EPA 200 8
7440-70-2	Calcium	250	U	ug/L	250	12/07/20 10 58	12/09/20 13:30	EPA 6010
7440-47-3	Chromium	5.0	U	ug/L	5.0	12/07/20 10 58	12/09/20 13:30	EPA 6010
7440-48-4	Cobalt	5.0	U	ug/L	5.0	12/07/20 10 58	12/09/20 13:30	EPA 6010
7440-50-8	Copper	10	U	ug/L	10	12/07/20 10 58	12/09/20 13:30	EPA 6010
7439-89-6	Iron	100	U	ug/L	100	12/07/20 10 58	12/09/20 13:30	EPA 6010
7439-92-1	Lead	1.2		ug/L	0.50	12/07/20 11 06	12/28/20 18:39	EPA 200 8
7439-95-4	Magnesium	250	U	ug/L	250	12/07/20 10 58	12/09/20 13:30	EPA 6010
7439-96-5	Manganese	5.0	U	ug/L	5.0	12/07/20 10 58	12/09/20 13:30	EPA 6010
7439-98-7	Molybdenum	10	U	ug/L	10	12/07/20 10 58	12/09/20 13:30	EPA 6010
7440-02-0	Nickel	10	U	ug/L	10	12/07/20 10 58	12/09/20 13:30	EPA 6010
7440-09-7	Potassium	1000	U	ug/L	1000	12/07/20 10 58	12/09/20 13:30	EPA 6010
7782-49-2	Selenium	1.0	U	ug/L	1.0	12/07/20 11 06	12/28/20 18:39	EPA 200 8
7440-22-4	Silver	5.0	U	ug/L	5.0	12/07/20 10 58	12/09/20 13:30	EPA 6010
7440-23-5	Sodium	130000		ug/L	1000	12/07/20 10 58	12/09/20 13:30	EPA 6010
7440-24-6	Strontium	5.0	U	ug/L	5.0	12/07/20 10 58	12/09/20 13:30	EPA 6010
7440-28-0	Thallium	0.50	U	ug/L	0.50	12/07/20 11 06	12/28/20 18:39	EPA 200 8
7440-31-5	Tin	15	U	ug/L	15	12/07/20 10 58	12/09/20 13:30	EPA 6010
7440-32-6	Titanium	5.0	U	ug/L	5.0	12/07/20 10 58	12/09/20 13:30	EPA 6010
7440-62-2	Vanadium	5.0	U	ug/L	5.0	12/07/20 10 58	12/09/20 13:30	EPA 6010
7440-65-5	Yttrium	3.0	U	ug/L	3.0	12/07/20 10 58	12/09/20 13:30	EPA 6010
7440-66-6	Zinc	22	U, B-2	ug/L	22	12/07/20 10 58	12/09/20 13:30	EPA 6010

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 21-0027
Project: 21-0027, Ore Knob FY21 - Reported by Floyd Wellborn

Total Metals

Project: 21-0027, Ore Knob FY21

Sample ID: PW723-1120R
Station ID: OK723
Lab ID: E204907-26
Matrix: Potable Water

Date Collected: 11/17/20 16:05

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7429-90-5	Aluminum	100	U	ug/L	100	12/07/20 10 58	12/09/20 13:33	EPA 6010
7440-36-0	Antimony	0.50	U	ug/L	0.50	12/07/20 11 06	12/28/20 18:46	EPA 200 8
7440-38-2	Arsenic	0.50	U	ug/L	0.50	12/07/20 11 06	12/28/20 18:46	EPA 200 8
7440-39-3	Barium	5.0	U	ug/L	5.0	12/07/20 10 58	12/09/20 13:33	EPA 6010
7440-41-7	Beryllium	3.0	U	ug/L	3.0	12/07/20 10 58	12/09/20 13:33	EPA 6010
7440-43-9	Cadmium	0.25	U	ug/L	0.25	12/07/20 11 06	12/28/20 18:46	EPA 200 8
7440-70-2	Calcium	660	U, B-2	ug/L	660	12/07/20 10 58	12/09/20 13:33	EPA 6010
7440-47-3	Chromium	5.0	U	ug/L	5.0	12/07/20 10 58	12/09/20 13:33	EPA 6010
7440-48-4	Cobalt	5.0	U	ug/L	5.0	12/07/20 10 58	12/09/20 13:33	EPA 6010
7440-50-8	Copper	10	U	ug/L	10	12/07/20 10 58	12/09/20 13:33	EPA 6010
7439-89-6	Iron	100	U	ug/L	100	12/07/20 10 58	12/09/20 13:33	EPA 6010
7439-92-1	Lead	0.50	U	ug/L	0.50	12/07/20 11 06	12/28/20 18:46	EPA 200 8
7439-95-4	Magnesium	320		ug/L	250	12/07/20 10 58	12/09/20 13:33	EPA 6010
7439-96-5	Manganese	31		ug/L	5.0	12/07/20 10 58	12/09/20 13:33	EPA 6010
7439-98-7	Molybdenum	10	U	ug/L	10	12/07/20 10 58	12/09/20 13:33	EPA 6010
7440-02-0	Nickel	10	U	ug/L	10	12/07/20 10 58	12/09/20 13:33	EPA 6010
7440-09-7	Potassium	1000	U	ug/L	1000	12/07/20 10 58	12/09/20 13:33	EPA 6010
7782-49-2	Selenium	1.0	U	ug/L	1.0	12/07/20 11 06	12/28/20 18:46	EPA 200 8
7440-22-4	Silver	5.0	U	ug/L	5.0	12/07/20 10 58	12/09/20 13:33	EPA 6010
7440-23-5	Sodium	11000		ug/L	1000	12/07/20 10 58	12/09/20 13:33	EPA 6010
7440-24-6	Strontium	8.0	U, B-2	ug/L	8.0	12/07/20 10 58	12/09/20 13:33	EPA 6010
7440-28-0	Thallium	0.50	U	ug/L	0.50	12/07/20 11 06	12/28/20 18:46	EPA 200 8
7440-31-5	Tin	15	U	ug/L	15	12/07/20 10 58	12/09/20 13:33	EPA 6010
7440-32-6	Titanium	5.0	U	ug/L	5.0	12/07/20 10 58	12/09/20 13:33	EPA 6010
7440-62-2	Vanadium	5.0	U	ug/L	5.0	12/07/20 10 58	12/09/20 13:33	EPA 6010
7440-65-5	Yttrium	3.0	U	ug/L	3.0	12/07/20 10 58	12/09/20 13:33	EPA 6010
7440-66-6	Zinc	10	U	ug/L	10	12/07/20 10 58	12/09/20 13:33	EPA 6010

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 21-0027
Project: 21-0027, Ore Knob FY21 - Reported by Floyd Wellborn

Total Metals

Project: 21-0027, Ore Knob FY21

Sample ID: PW727-1120F
Station ID: OK727
Lab ID: E204907-27
Matrix: Potable Water

Date Collected: 11/17/20 13:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7429-90-5	Aluminum	100	U	ug/L	100	12/07/20 10 58	12/09/20 13:37	EPA 6010
7440-36-0	Antimony	0.50	U	ug/L	0.50	12/07/20 11 06	12/28/20 18:52	EPA 200 8
7440-38-2	Arsenic	0.50	U	ug/L	0.50	12/07/20 11 06	12/28/20 18:52	EPA 200 8
7440-39-3	Barium	5.0	U	ug/L	5.0	12/07/20 10 58	12/09/20 13:37	EPA 6010
7440-41-7	Beryllium	3.0	U	ug/L	3.0	12/07/20 10 58	12/09/20 13:37	EPA 6010
7440-43-9	Cadmium	0.25	U	ug/L	0.25	12/07/20 11 06	12/28/20 18:52	EPA 200 8
7440-70-2	Calcium	250	U	ug/L	250	12/07/20 10 58	12/09/20 13:37	EPA 6010
7440-47-3	Chromium	5.0	U	ug/L	5.0	12/07/20 10 58	12/09/20 13:37	EPA 6010
7440-48-4	Cobalt	5.0	U	ug/L	5.0	12/07/20 10 58	12/09/20 13:37	EPA 6010
7440-50-8	Copper	10	U	ug/L	10	12/07/20 10 58	12/09/20 13:37	EPA 6010
7439-89-6	Iron	100	U	ug/L	100	12/07/20 10 58	12/09/20 13:37	EPA 6010
7439-92-1	Lead	1.5		ug/L	0.50	12/07/20 11 06	12/28/20 18:52	EPA 200 8
7439-95-4	Magnesium	250	U	ug/L	250	12/07/20 10 58	12/09/20 13:37	EPA 6010
7439-96-5	Manganese	5.0	U	ug/L	5.0	12/07/20 10 58	12/09/20 13:37	EPA 6010
7439-98-7	Molybdenum	10	U	ug/L	10	12/07/20 10 58	12/09/20 13:37	EPA 6010
7440-02-0	Nickel	10	U	ug/L	10	12/07/20 10 58	12/09/20 13:37	EPA 6010
7440-09-7	Potassium	1000	U	ug/L	1000	12/07/20 10 58	12/09/20 13:37	EPA 6010
7782-49-2	Selenium	1.0	U	ug/L	1.0	12/07/20 11 06	12/28/20 18:52	EPA 200 8
7440-22-4	Silver	5.0	U	ug/L	5.0	12/07/20 10 58	12/09/20 13:37	EPA 6010
7440-23-5	Sodium	52000		ug/L	1000	12/07/20 10 58	12/09/20 13:37	EPA 6010
7440-24-6	Strontium	5.0	U	ug/L	5.0	12/07/20 10 58	12/09/20 13:37	EPA 6010
7440-28-0	Thallium	0.50	U	ug/L	0.50	12/07/20 11 06	12/28/20 18:52	EPA 200 8
7440-31-5	Tin	15	U	ug/L	15	12/07/20 10 58	12/09/20 13:37	EPA 6010
7440-32-6	Titanium	5.0	U	ug/L	5.0	12/07/20 10 58	12/09/20 13:37	EPA 6010
7440-62-2	Vanadium	5.0	U	ug/L	5.0	12/07/20 10 58	12/09/20 13:37	EPA 6010
7440-65-5	Yttrium	3.0	U	ug/L	3.0	12/07/20 10 58	12/09/20 13:37	EPA 6010
7440-66-6	Zinc	10	U	ug/L	10	12/07/20 10 58	12/09/20 13:37	EPA 6010

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 21-0027
Project: 21-0027, Ore Knob FY21 - Reported by Floyd Wellborn

Total Metals

Project: 21-0027, Ore Knob FY21

Sample ID: PW727-1120R
Station ID: OK727
Lab ID: E204907-28
Matrix: Potable Water

Date Collected: 11/17/20 13:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7429-90-5	Aluminum	100	U	ug/L	100	12/07/20 10 58	12/09/20 13:47	EPA 6010
7440-36-0	Antimony	0.50	U	ug/L	0.50	12/07/20 11 06	12/28/20 19:39	EPA 200 8
7440-38-2	Arsenic	0.50	U	ug/L	0.50	12/07/20 11 06	12/28/20 19:39	EPA 200 8
7440-39-3	Barium	5.0	U	ug/L	5.0	12/07/20 10 58	12/09/20 13:47	EPA 6010
7440-41-7	Beryllium	3.0	U	ug/L	3.0	12/07/20 10 58	12/09/20 13:47	EPA 6010
7440-43-9	Cadmium	0.25	U	ug/L	0.25	12/07/20 11 06	12/28/20 19:39	EPA 200 8
7440-70-2	Calcium	250	U	ug/L	250	12/07/20 10 58	12/09/20 13:47	EPA 6010
7440-47-3	Chromium	5.0	U	ug/L	5.0	12/07/20 10 58	12/09/20 13:47	EPA 6010
7440-48-4	Cobalt	5.0	U	ug/L	5.0	12/07/20 10 58	12/09/20 13:47	EPA 6010
7440-50-8	Copper	10	U	ug/L	10	12/07/20 10 58	12/09/20 13:47	EPA 6010
7439-89-6	Iron	100	U	ug/L	100	12/07/20 10 58	12/09/20 13:47	EPA 6010
7439-92-1	Lead	0.50	U	ug/L	0.50	12/07/20 11 06	12/28/20 19:39	EPA 200 8
7439-95-4	Magnesium	250	U	ug/L	250	12/07/20 10 58	12/09/20 13:47	EPA 6010
7439-96-5	Manganese	5.0	U	ug/L	5.0	12/07/20 10 58	12/09/20 13:47	EPA 6010
7439-98-7	Molybdenum	10	U	ug/L	10	12/07/20 10 58	12/09/20 13:47	EPA 6010
7440-02-0	Nickel	10	U	ug/L	10	12/07/20 10 58	12/09/20 13:47	EPA 6010
7440-09-7	Potassium	1000	U	ug/L	1000	12/07/20 10 58	12/09/20 13:47	EPA 6010
7782-49-2	Selenium	1.0	U	ug/L	1.0	12/07/20 11 06	12/28/20 19:39	EPA 200 8
7440-22-4	Silver	5.0	U	ug/L	5.0	12/07/20 10 58	12/09/20 13:47	EPA 6010
7440-23-5	Sodium	7700		ug/L	1000	12/07/20 10 58	12/09/20 13:47	EPA 6010
7440-24-6	Strontium	5.0	U	ug/L	5.0	12/07/20 10 58	12/09/20 13:47	EPA 6010
7440-28-0	Thallium	0.50	U	ug/L	0.50	12/07/20 11 06	12/28/20 19:39	EPA 200 8
7440-31-5	Tin	15	U	ug/L	15	12/07/20 10 58	12/09/20 13:47	EPA 6010
7440-32-6	Titanium	5.0	U	ug/L	5.0	12/07/20 10 58	12/09/20 13:47	EPA 6010
7440-62-2	Vanadium	5.0	U	ug/L	5.0	12/07/20 10 58	12/09/20 13:47	EPA 6010
7440-65-5	Yttrium	3.0	U	ug/L	3.0	12/07/20 10 58	12/09/20 13:47	EPA 6010
7440-66-6	Zinc	12	U, B-2	ug/L	12	12/07/20 10 58	12/09/20 13:47	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: 21-0027
Project: 21-0027, Ore Knob FY21 - Reported by Floyd Wellborn

Total Metals

Project: 21-0027, Ore Knob FY21

Sample ID: PW736-1120 **Lab ID:** E204907-29
Station ID: OK736 **Matrix:** Potable Water

Date Collected: 11/17/20 11:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7429-90-5	Aluminum	100	U	ug/L	100	12/07/20 10 58	12/09/20 13:51	EPA 6010
7440-36-0	Antimony	0.50	U	ug/L	0.50	12/07/20 11 06	12/28/20 19:46	EPA 200 8
7440-38-2	Arsenic	0.50	U	ug/L	0.50	12/07/20 11 06	12/28/20 19:46	EPA 200 8
7440-39-3	Barium	37		ug/L	5.0	12/07/20 10 58	12/09/20 13:51	EPA 6010
7440-41-7	Beryllium	3.0	U	ug/L	3.0	12/07/20 10 58	12/09/20 13:51	EPA 6010
7440-43-9	Cadmium	0.25	U	ug/L	0.25	12/07/20 11 06	12/28/20 19:46	EPA 200 8
7440-70-2	Calcium	3200		ug/L	250	12/07/20 10 58	12/09/20 13:51	EPA 6010
7440-47-3	Chromium	5.0	U	ug/L	5.0	12/07/20 10 58	12/09/20 13:51	EPA 6010
7440-48-4	Cobalt	5.0	U	ug/L	5.0	12/07/20 10 58	12/09/20 13:51	EPA 6010
7440-50-8	Copper	18		ug/L	10	12/07/20 10 58	12/09/20 13:51	EPA 6010
7439-89-6	Iron	100	U	ug/L	100	12/07/20 10 58	12/09/20 13:51	EPA 6010
7439-92-1	Lead	1.8		ug/L	0.50	12/07/20 11 06	12/28/20 19:46	EPA 200 8
7439-95-4	Magnesium	1400		ug/L	250	12/07/20 10 58	12/09/20 13:51	EPA 6010
7439-96-5	Manganese	19		ug/L	5.0	12/07/20 10 58	12/09/20 13:51	EPA 6010
7439-98-7	Molybdenum	10	U	ug/L	10	12/07/20 10 58	12/09/20 13:51	EPA 6010
7440-02-0	Nickel	10	U	ug/L	10	12/07/20 10 58	12/09/20 13:51	EPA 6010
7440-09-7	Potassium	1100		ug/L	1000	12/07/20 10 58	12/09/20 13:51	EPA 6010
7782-49-2	Selenium	1.0	U	ug/L	1.0	12/07/20 11 06	12/28/20 19:46	EPA 200 8
7440-22-4	Silver	5.0	U	ug/L	5.0	12/07/20 10 58	12/09/20 13:51	EPA 6010
7440-23-5	Sodium	2100		ug/L	1000	12/07/20 10 58	12/09/20 13:51	EPA 6010
7440-24-6	Strontium	46	U, B-2	ug/L	46	12/07/20 10 58	12/09/20 13:51	EPA 6010
7440-28-0	Thallium	0.50	U	ug/L	0.50	12/07/20 11 06	12/28/20 19:46	EPA 200 8
7440-31-5	Tin	15	U	ug/L	15	12/07/20 10 58	12/09/20 13:51	EPA 6010
7440-32-6	Titanium	5.0	U	ug/L	5.0	12/07/20 10 58	12/09/20 13:51	EPA 6010
7440-62-2	Vanadium	5.0	U	ug/L	5.0	12/07/20 10 58	12/09/20 13:51	EPA 6010
7440-65-5	Yttrium	3.0	U	ug/L	3.0	12/07/20 10 58	12/09/20 13:51	EPA 6010
7440-66-6	Zinc	40	U, B-2	ug/L	40	12/07/20 10 58	12/09/20 13:51	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: 21-0027
Project: 21-0027, Ore Knob FY21 - Reported by Floyd Wellborn

Total Metals

Project: 21-0027, Ore Knob FY21

Sample ID: PW737-1120F
Station ID: OK737
Lab ID: E204907-30
Matrix: Potable Water

Date Collected: 11/19/20 10:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7429-90-5	Aluminum	100	U	ug/L	100	12/07/20 10 58	12/09/20 13:54	EPA 6010
7440-36-0	Antimony	0.50	U	ug/L	0.50	12/07/20 11 06	12/28/20 19:53	EPA 200 8
7440-38-2	Arsenic	0.50	U	ug/L	0.50	12/07/20 11 06	12/28/20 19:53	EPA 200 8
7440-39-3	Barium	5.0	U	ug/L	5.0	12/07/20 10 58	12/09/20 13:54	EPA 6010
7440-41-7	Beryllium	3.0	U	ug/L	3.0	12/07/20 10 58	12/09/20 13:54	EPA 6010
7440-43-9	Cadmium	0.25	U	ug/L	0.25	12/07/20 11 06	12/28/20 19:53	EPA 200 8
7440-70-2	Calcium	250	U	ug/L	250	12/07/20 10 58	12/09/20 13:54	EPA 6010
7440-47-3	Chromium	5.0	U	ug/L	5.0	12/07/20 10 58	12/09/20 13:54	EPA 6010
7440-48-4	Cobalt	5.0	U	ug/L	5.0	12/07/20 10 58	12/09/20 13:54	EPA 6010
7440-50-8	Copper	10	U	ug/L	10	12/07/20 10 58	12/09/20 13:54	EPA 6010
7439-89-6	Iron	100	U	ug/L	100	12/07/20 10 58	12/09/20 13:54	EPA 6010
7439-92-1	Lead	0.50	U	ug/L	0.50	12/07/20 11 06	12/28/20 19:53	EPA 200 8
7439-95-4	Magnesium	250	U	ug/L	250	12/07/20 10 58	12/09/20 13:54	EPA 6010
7439-96-5	Manganese	5.0	U	ug/L	5.0	12/07/20 10 58	12/09/20 13:54	EPA 6010
7439-98-7	Molybdenum	10	U	ug/L	10	12/07/20 10 58	12/09/20 13:54	EPA 6010
7440-02-0	Nickel	10	U	ug/L	10	12/07/20 10 58	12/09/20 13:54	EPA 6010
7440-09-7	Potassium	1000	U	ug/L	1000	12/07/20 10 58	12/09/20 13:54	EPA 6010
7782-49-2	Selenium	1.0	U	ug/L	1.0	12/07/20 11 06	12/28/20 19:53	EPA 200 8
7440-22-4	Silver	5.0	U	ug/L	5.0	12/07/20 10 58	12/09/20 13:54	EPA 6010
7440-23-5	Sodium	160000		ug/L	1000	12/07/20 10 58	12/09/20 13:54	EPA 6010
7440-24-6	Strontium	5.0	U	ug/L	5.0	12/07/20 10 58	12/09/20 13:54	EPA 6010
7440-28-0	Thallium	0.50	U	ug/L	0.50	12/07/20 11 06	12/28/20 19:53	EPA 200 8
7440-31-5	Tin	15	U	ug/L	15	12/07/20 10 58	12/09/20 13:54	EPA 6010
7440-32-6	Titanium	5.0	U	ug/L	5.0	12/07/20 10 58	12/09/20 13:54	EPA 6010
7440-62-2	Vanadium	5.0	U	ug/L	5.0	12/07/20 10 58	12/09/20 13:54	EPA 6010
7440-65-5	Yttrium	3.0	U	ug/L	3.0	12/07/20 10 58	12/09/20 13:54	EPA 6010
7440-66-6	Zinc	10	U	ug/L	10	12/07/20 10 58	12/09/20 13:54	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: 21-0027
Project: 21-0027, Ore Knob FY21 - Reported by Floyd Wellborn

Total Metals

Project: 21-0027, Ore Knob FY21

Sample ID: PW737-1120R
Station ID: OK737
Lab ID: E204907-31
Matrix: Potable Water

Date Collected: 11/19/20 10:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7429-90-5	Aluminum	100	U	ug/L	100	12/07/20 10 58	12/09/20 14:19	EPA 6010
7440-36-0	Antimony	0.77	J, QR-2	ug/L	0.50	12/07/20 11 06	12/28/20 19:59	EPA 200 8
7440-38-2	Arsenic	0.50	U	ug/L	0.50	12/07/20 11 06	12/28/20 19:59	EPA 200 8
7440-39-3	Barium	5.0	U	ug/L	5.0	12/07/20 10 58	12/09/20 14:19	EPA 6010
7440-41-7	Beryllium	3.0	U	ug/L	3.0	12/07/20 10 58	12/09/20 14:19	EPA 6010
7440-43-9	Cadmium	0.25	U	ug/L	0.25	12/07/20 11 06	12/28/20 19:59	EPA 200 8
7440-70-2	Calcium	250	U	ug/L	250	12/07/20 10 58	12/09/20 14:19	EPA 6010
7440-47-3	Chromium	5.0	U	ug/L	5.0	12/07/20 10 58	12/09/20 14:19	EPA 6010
7440-48-4	Cobalt	5.0	U	ug/L	5.0	12/07/20 10 58	12/09/20 14:19	EPA 6010
7440-50-8	Copper	10	U	ug/L	10	12/07/20 10 58	12/09/20 14:19	EPA 6010
7439-89-6	Iron	100	U	ug/L	100	12/07/20 10 58	12/09/20 14:19	EPA 6010
7439-92-1	Lead	0.50	U	ug/L	0.50	12/07/20 11 06	12/28/20 19:59	EPA 200 8
7439-95-4	Magnesium	250	U	ug/L	250	12/07/20 10 58	12/09/20 14:19	EPA 6010
7439-96-5	Manganese	5.0	U	ug/L	5.0	12/07/20 10 58	12/09/20 14:19	EPA 6010
7439-98-7	Molybdenum	10	U	ug/L	10	12/07/20 10 58	12/09/20 14:19	EPA 6010
7440-02-0	Nickel	10	U	ug/L	10	12/07/20 10 58	12/09/20 14:19	EPA 6010
7440-09-7	Potassium	1000	U	ug/L	1000	12/07/20 10 58	12/09/20 14:19	EPA 6010
7782-49-2	Selenium	1.0	U	ug/L	1.0	12/07/20 11 06	12/28/20 19:59	EPA 200 8
7440-22-4	Silver	5.0	U	ug/L	5.0	12/07/20 10 58	12/09/20 14:19	EPA 6010
7440-23-5	Sodium	7700		ug/L	1000	12/07/20 10 58	12/09/20 14:19	EPA 6010
7440-24-6	Strontium	5.0	U	ug/L	5.0	12/07/20 10 58	12/09/20 14:19	EPA 6010
7440-28-0	Thallium	0.50	U	ug/L	0.50	12/07/20 11 06	12/28/20 19:59	EPA 200 8
7440-31-5	Tin	15	U	ug/L	15	12/07/20 10 58	12/09/20 14:19	EPA 6010
7440-32-6	Titanium	5.0	U	ug/L	5.0	12/07/20 10 58	12/09/20 14:19	EPA 6010
7440-62-2	Vanadium	5.0	U	ug/L	5.0	12/07/20 10 58	12/09/20 14:19	EPA 6010
7440-65-5	Yttrium	3.0	U	ug/L	3.0	12/07/20 10 58	12/09/20 14:19	EPA 6010
7440-66-6	Zinc	10	U	ug/L	10	12/07/20 10 58	12/09/20 14:19	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: 21-0027
Project: 21-0027, Ore Knob FY21 - Reported by Floyd Wellborn

Total Metals

Project: 21-0027, Ore Knob FY21

Sample ID: PW739-1120F
Station ID: OK739
Lab ID: E204907-32
Matrix: Potable Water

Date Collected: 11/17/20 16:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7429-90-5	Aluminum	100	U	ug/L	100	12/07/20 10 58	12/09/20 14:22	EPA 6010
7440-36-0	Antimony	0.50	U	ug/L	0.50	12/07/20 11 06	12/28/20 20:06	EPA 200 8
7440-38-2	Arsenic	0.50	U	ug/L	0.50	12/07/20 11 06	12/28/20 20:06	EPA 200 8
7440-39-3	Barium	5.0	U	ug/L	5.0	12/07/20 10 58	12/09/20 14:22	EPA 6010
7440-41-7	Beryllium	3.0	U	ug/L	3.0	12/07/20 10 58	12/09/20 14:22	EPA 6010
7440-43-9	Cadmium	0.25	U	ug/L	0.25	12/07/20 11 06	12/28/20 20:06	EPA 200 8
7440-70-2	Calcium	250	U	ug/L	250	12/07/20 10 58	12/09/20 14:22	EPA 6010
7440-47-3	Chromium	5.0	U	ug/L	5.0	12/07/20 10 58	12/09/20 14:22	EPA 6010
7440-48-4	Cobalt	5.0	U	ug/L	5.0	12/07/20 10 58	12/09/20 14:22	EPA 6010
7440-50-8	Copper	10	U	ug/L	10	12/07/20 10 58	12/09/20 14:22	EPA 6010
7439-89-6	Iron	100	U	ug/L	100	12/07/20 10 58	12/09/20 14:22	EPA 6010
7439-92-1	Lead	0.50	U	ug/L	0.50	12/07/20 11 06	12/28/20 20:06	EPA 200 8
7439-95-4	Magnesium	250	U	ug/L	250	12/07/20 10 58	12/09/20 14:22	EPA 6010
7439-96-5	Manganese	5.0	U	ug/L	5.0	12/07/20 10 58	12/09/20 14:22	EPA 6010
7439-98-7	Molybdenum	10	U	ug/L	10	12/07/20 10 58	12/09/20 14:22	EPA 6010
7440-02-0	Nickel	10	U	ug/L	10	12/07/20 10 58	12/09/20 14:22	EPA 6010
7440-09-7	Potassium	1000	U	ug/L	1000	12/07/20 10 58	12/09/20 14:22	EPA 6010
7782-49-2	Selenium	1.0	U	ug/L	1.0	12/07/20 11 06	12/28/20 20:06	EPA 200 8
7440-22-4	Silver	5.0	U	ug/L	5.0	12/07/20 10 58	12/09/20 14:22	EPA 6010
7440-23-5	Sodium	140000		ug/L	1000	12/07/20 10 58	12/09/20 14:22	EPA 6010
7440-24-6	Strontium	5.0	U	ug/L	5.0	12/07/20 10 58	12/09/20 14:22	EPA 6010
7440-28-0	Thallium	0.50	U	ug/L	0.50	12/07/20 11 06	12/28/20 20:06	EPA 200 8
7440-31-5	Tin	15	U	ug/L	15	12/07/20 10 58	12/09/20 14:22	EPA 6010
7440-32-6	Titanium	5.0	U	ug/L	5.0	12/07/20 10 58	12/09/20 14:22	EPA 6010
7440-62-2	Vanadium	5.0	U	ug/L	5.0	12/07/20 10 58	12/09/20 14:22	EPA 6010
7440-65-5	Yttrium	3.0	U	ug/L	3.0	12/07/20 10 58	12/09/20 14:22	EPA 6010
7440-66-6	Zinc	10	U	ug/L	10	12/07/20 10 58	12/09/20 14:22	EPA 6010

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
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D.A.R.T. Id: 21-0027
Project: 21-0027, Ore Knob FY21 - Reported by Floyd Wellborn

Total Metals

Project: 21-0027, Ore Knob FY21

Sample ID: PW739-1120R
Station ID: OK739
Lab ID: E204907-33
Matrix: Potable Water

Date Collected: 11/17/20 16:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7429-90-5	Aluminum	100	U	ug/L	100	12/07/20 10 58	12/09/20 14:26	EPA 6010
7440-36-0	Antimony	0.50	U	ug/L	0.50	12/07/20 11 06	12/28/20 20:13	EPA 200 8
7440-38-2	Arsenic	0.50	U	ug/L	0.50	12/07/20 11 06	12/28/20 20:13	EPA 200 8
7440-39-3	Barium	5.0	U	ug/L	5.0	12/07/20 10 58	12/09/20 14:26	EPA 6010
7440-41-7	Beryllium	3.0	U	ug/L	3.0	12/07/20 10 58	12/09/20 14:26	EPA 6010
7440-43-9	Cadmium	0.25	U	ug/L	0.25	12/07/20 11 06	12/28/20 20:13	EPA 200 8
7440-70-2	Calcium	250	U	ug/L	250	12/07/20 10 58	12/09/20 14:26	EPA 6010
7440-47-3	Chromium	5.0	U	ug/L	5.0	12/07/20 10 58	12/09/20 14:26	EPA 6010
7440-48-4	Cobalt	5.0	U	ug/L	5.0	12/07/20 10 58	12/09/20 14:26	EPA 6010
7440-50-8	Copper	10	U	ug/L	10	12/07/20 10 58	12/09/20 14:26	EPA 6010
7439-89-6	Iron	100	U	ug/L	100	12/07/20 10 58	12/09/20 14:26	EPA 6010
7439-92-1	Lead	0.50	U	ug/L	0.50	12/07/20 11 06	12/28/20 20:13	EPA 200 8
7439-95-4	Magnesium	250	U	ug/L	250	12/07/20 10 58	12/09/20 14:26	EPA 6010
7439-96-5	Manganese	5.0	U	ug/L	5.0	12/07/20 10 58	12/09/20 14:26	EPA 6010
7439-98-7	Molybdenum	10	U	ug/L	10	12/07/20 10 58	12/09/20 14:26	EPA 6010
7440-02-0	Nickel	10	U	ug/L	10	12/07/20 10 58	12/09/20 14:26	EPA 6010
7440-09-7	Potassium	1000	U	ug/L	1000	12/07/20 10 58	12/09/20 14:26	EPA 6010
7782-49-2	Selenium	1.0	U	ug/L	1.0	12/07/20 11 06	12/28/20 20:13	EPA 200 8
7440-22-4	Silver	5.0	U	ug/L	5.0	12/07/20 10 58	12/09/20 14:26	EPA 6010
7440-23-5	Sodium	10000		ug/L	1000	12/07/20 10 58	12/09/20 14:26	EPA 6010
7440-24-6	Strontium	5.0	U	ug/L	5.0	12/07/20 10 58	12/09/20 14:26	EPA 6010
7440-28-0	Thallium	0.50	U	ug/L	0.50	12/07/20 11 06	12/28/20 20:13	EPA 200 8
7440-31-5	Tin	15	U	ug/L	15	12/07/20 10 58	12/09/20 14:26	EPA 6010
7440-32-6	Titanium	5.0	U	ug/L	5.0	12/07/20 10 58	12/09/20 14:26	EPA 6010
7440-62-2	Vanadium	5.0	U	ug/L	5.0	12/07/20 10 58	12/09/20 14:26	EPA 6010
7440-65-5	Yttrium	3.0	U	ug/L	3.0	12/07/20 10 58	12/09/20 14:26	EPA 6010
7440-66-6	Zinc	10	U	ug/L	10	12/07/20 10 58	12/09/20 14:26	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: 21-0027
Project: 21-0027, Ore Knob FY21 - Reported by Floyd Wellborn

Total Metals

Project: 21-0027, Ore Knob FY21

Sample ID: PW750-1120F
Station ID: OK750
Lab ID: E204907-34
Matrix: Potable Water

Date Collected: 11/19/20 11:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7429-90-5	Aluminum	100	U	ug/L	100	12/07/20 10 58	12/09/20 14:30	EPA 6010
7440-36-0	Antimony	0.50	U	ug/L	0.50	12/07/20 11 06	12/28/20 20:19	EPA 200 8
7440-38-2	Arsenic	0.50	U	ug/L	0.50	12/07/20 11 06	12/28/20 20:19	EPA 200 8
7440-39-3	Barium	5.0	U	ug/L	5.0	12/07/20 10 58	12/09/20 14:30	EPA 6010
7440-41-7	Beryllium	3.0	U	ug/L	3.0	12/07/20 10 58	12/09/20 14:30	EPA 6010
7440-43-9	Cadmium	0.25	U	ug/L	0.25	12/07/20 11 06	12/28/20 20:19	EPA 200 8
7440-70-2	Calcium	250	U	ug/L	250	12/07/20 10 58	12/09/20 14:30	EPA 6010
7440-47-3	Chromium	5.0	U	ug/L	5.0	12/07/20 10 58	12/09/20 14:30	EPA 6010
7440-48-4	Cobalt	5.0	U	ug/L	5.0	12/07/20 10 58	12/09/20 14:30	EPA 6010
7440-50-8	Copper	10	U	ug/L	10	12/07/20 10 58	12/09/20 14:30	EPA 6010
7439-89-6	Iron	100	U	ug/L	100	12/07/20 10 58	12/09/20 14:30	EPA 6010
7439-92-1	Lead	0.50	U	ug/L	0.50	12/07/20 11 06	12/28/20 20:19	EPA 200 8
7439-95-4	Magnesium	250	U	ug/L	250	12/07/20 10 58	12/09/20 14:30	EPA 6010
7439-96-5	Manganese	5.0	U	ug/L	5.0	12/07/20 10 58	12/09/20 14:30	EPA 6010
7439-98-7	Molybdenum	10	U	ug/L	10	12/07/20 10 58	12/09/20 14:30	EPA 6010
7440-02-0	Nickel	10	U	ug/L	10	12/07/20 10 58	12/09/20 14:30	EPA 6010
7440-09-7	Potassium	1000	U	ug/L	1000	12/07/20 10 58	12/09/20 14:30	EPA 6010
7782-49-2	Selenium	1.0	U	ug/L	1.0	12/07/20 11 06	12/28/20 20:19	EPA 200 8
7440-22-4	Silver	5.0	U	ug/L	5.0	12/07/20 10 58	12/09/20 14:30	EPA 6010
7440-23-5	Sodium	130000		ug/L	1000	12/07/20 10 58	12/09/20 14:30	EPA 6010
7440-24-6	Strontium	5.0	U	ug/L	5.0	12/07/20 10 58	12/09/20 14:30	EPA 6010
7440-28-0	Thallium	0.50	U	ug/L	0.50	12/07/20 11 06	12/28/20 20:19	EPA 200 8
7440-31-5	Tin	15	U	ug/L	15	12/07/20 10 58	12/09/20 14:30	EPA 6010
7440-32-6	Titanium	5.0	U	ug/L	5.0	12/07/20 10 58	12/09/20 14:30	EPA 6010
7440-62-2	Vanadium	5.0	U	ug/L	5.0	12/07/20 10 58	12/09/20 14:30	EPA 6010
7440-65-5	Yttrium	3.0	U	ug/L	3.0	12/07/20 10 58	12/09/20 14:30	EPA 6010
7440-66-6	Zinc	10	U	ug/L	10	12/07/20 10 58	12/09/20 14:30	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: 21-0027
Project: 21-0027, Ore Knob FY21 - Reported by Floyd Wellborn

Total Metals

Project: 21-0027, Ore Knob FY21

Sample ID: PW750-1120R1 **Lab ID:** E204907-35
Station ID: OK750 **Matrix:** Potable Water

Date Collected: 11/19/20 11:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7429-90-5	Aluminum	100	U	ug/L	100	12/07/20 10 58	12/09/20 14:33	EPA 6010
7440-36-0	Antimony	0.50	U	ug/L	0.50	12/07/20 11 06	12/28/20 20:26	EPA 200 8
7440-38-2	Arsenic	0.50	U	ug/L	0.50	12/07/20 11 06	12/28/20 20:26	EPA 200 8
7440-39-3	Barium	5.0	U	ug/L	5.0	12/07/20 10 58	12/09/20 14:33	EPA 6010
7440-41-7	Beryllium	3.0	U	ug/L	3.0	12/07/20 10 58	12/09/20 14:33	EPA 6010
7440-43-9	Cadmium	0.25	U	ug/L	0.25	12/07/20 11 06	12/28/20 20:26	EPA 200 8
7440-70-2	Calcium	250	U	ug/L	250	12/07/20 10 58	12/09/20 14:33	EPA 6010
7440-47-3	Chromium	5.0	U	ug/L	5.0	12/07/20 10 58	12/09/20 14:33	EPA 6010
7440-48-4	Cobalt	5.0	U	ug/L	5.0	12/07/20 10 58	12/09/20 14:33	EPA 6010
7440-50-8	Copper	10	U	ug/L	10	12/07/20 10 58	12/09/20 14:33	EPA 6010
7439-89-6	Iron	100	U	ug/L	100	12/07/20 10 58	12/09/20 14:33	EPA 6010
7439-92-1	Lead	0.50	U	ug/L	0.50	12/07/20 11 06	12/28/20 20:26	EPA 200 8
7439-95-4	Magnesium	250	U	ug/L	250	12/07/20 10 58	12/09/20 14:33	EPA 6010
7439-96-5	Manganese	5.8		ug/L	5.0	12/07/20 10 58	12/09/20 14:33	EPA 6010
7439-98-7	Molybdenum	10	U	ug/L	10	12/07/20 10 58	12/09/20 14:33	EPA 6010
7440-02-0	Nickel	10	U	ug/L	10	12/07/20 10 58	12/09/20 14:33	EPA 6010
7440-09-7	Potassium	1000	U	ug/L	1000	12/07/20 10 58	12/09/20 14:33	EPA 6010
7782-49-2	Selenium	1.0	U	ug/L	1.0	12/07/20 11 06	12/28/20 20:26	EPA 200 8
7440-22-4	Silver	5.0	U	ug/L	5.0	12/07/20 10 58	12/09/20 14:33	EPA 6010
7440-23-5	Sodium	6600		ug/L	1000	12/07/20 10 58	12/09/20 14:33	EPA 6010
7440-24-6	Strontium	5.0	U	ug/L	5.0	12/07/20 10 58	12/09/20 14:33	EPA 6010
7440-28-0	Thallium	0.50	U	ug/L	0.50	12/07/20 11 06	12/28/20 20:26	EPA 200 8
7440-31-5	Tin	15	U	ug/L	15	12/07/20 10 58	12/09/20 14:33	EPA 6010
7440-32-6	Titanium	5.0	U	ug/L	5.0	12/07/20 10 58	12/09/20 14:33	EPA 6010
7440-62-2	Vanadium	5.0	U	ug/L	5.0	12/07/20 10 58	12/09/20 14:33	EPA 6010
7440-65-5	Yttrium	3.0	U	ug/L	3.0	12/07/20 10 58	12/09/20 14:33	EPA 6010
7440-66-6	Zinc	10	U	ug/L	10	12/07/20 10 58	12/09/20 14:33	EPA 6010

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 21-0027
Project: 21-0027, Ore Knob FY21 - Reported by Floyd Wellborn

Total Metals

Project: 21-0027, Ore Knob FY21

Sample ID: PW750-1120R2 **Lab ID:** E204907-36
Station ID: OK750 **Matrix:** Potable Water

Date Collected: 11/19/20 11:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7429-90-5	Aluminum	100	U	ug/L	100	12/07/20 10 58	12/09/20 14:37	EPA 6010
7440-36-0	Antimony	1.4	J, QR-2	ug/L	0.50	12/07/20 11 06	12/28/20 20:33	EPA 200 8
7440-38-2	Arsenic	0.50	U	ug/L	0.50	12/07/20 11 06	12/28/20 20:33	EPA 200 8
7440-39-3	Barium	5.0	U	ug/L	5.0	12/07/20 10 58	12/09/20 14:37	EPA 6010
7440-41-7	Beryllium	3.0	U	ug/L	3.0	12/07/20 10 58	12/09/20 14:37	EPA 6010
7440-43-9	Cadmium	0.25	U	ug/L	0.25	12/07/20 11 06	12/28/20 20:33	EPA 200 8
7440-70-2	Calcium	480	U, B-2	ug/L	480	12/07/20 10 58	12/09/20 14:37	EPA 6010
7440-47-3	Chromium	5.0	U	ug/L	5.0	12/07/20 10 58	12/09/20 14:37	EPA 6010
7440-48-4	Cobalt	5.0	U	ug/L	5.0	12/07/20 10 58	12/09/20 14:37	EPA 6010
7440-50-8	Copper	10	U	ug/L	10	12/07/20 10 58	12/09/20 14:37	EPA 6010
7439-89-6	Iron	100	U	ug/L	100	12/07/20 10 58	12/09/20 14:37	EPA 6010
7439-92-1	Lead	0.50	U	ug/L	0.50	12/07/20 11 06	12/28/20 20:33	EPA 200 8
7439-95-4	Magnesium	500		ug/L	250	12/07/20 10 58	12/09/20 14:37	EPA 6010
7439-96-5	Manganese	5.8		ug/L	5.0	12/07/20 10 58	12/09/20 14:37	EPA 6010
7439-98-7	Molybdenum	10	U	ug/L	10	12/07/20 10 58	12/09/20 14:37	EPA 6010
7440-02-0	Nickel	10	U	ug/L	10	12/07/20 10 58	12/09/20 14:37	EPA 6010
7440-09-7	Potassium	3700		ug/L	1000	12/07/20 10 58	12/09/20 14:37	EPA 6010
7782-49-2	Selenium	1.0	U	ug/L	1.0	12/07/20 11 06	12/28/20 20:33	EPA 200 8
7440-22-4	Silver	5.0	U	ug/L	5.0	12/07/20 10 58	12/09/20 14:37	EPA 6010
7440-23-5	Sodium	11000		ug/L	1000	12/07/20 10 58	12/09/20 14:37	EPA 6010
7440-24-6	Strontium	7.3	U, B-2	ug/L	7.3	12/07/20 10 58	12/09/20 14:37	EPA 6010
7440-28-0	Thallium	0.50	U	ug/L	0.50	12/07/20 11 06	12/28/20 20:33	EPA 200 8
7440-31-5	Tin	15	U	ug/L	15	12/07/20 10 58	12/09/20 14:37	EPA 6010
7440-32-6	Titanium	5.0	U	ug/L	5.0	12/07/20 10 58	12/09/20 14:37	EPA 6010
7440-62-2	Vanadium	5.0	U	ug/L	5.0	12/07/20 10 58	12/09/20 14:37	EPA 6010
7440-65-5	Yttrium	3.0	U	ug/L	3.0	12/07/20 10 58	12/09/20 14:37	EPA 6010
7440-66-6	Zinc	23	U, B-2	ug/L	23	12/07/20 10 58	12/09/20 14:37	EPA 6010

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
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D.A.R.T. Id: 21-0027
Project: 21-0027, Ore Knob FY21 - Reported by Floyd Wellborn

Total Metals

Project: 21-0027, Ore Knob FY21

Sample ID: PW750-1120R3 **Lab ID:** E204907-37
Station ID: OK750 **Matrix:** Potable Water

Date Collected: 11/19/20 11:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7429-90-5	Aluminum	100	U	ug/L	100	12/07/20 10 58	12/09/20 14:40	EPA 6010
7440-36-0	Antimony	0.50	U	ug/L	0.50	12/07/20 11 06	12/28/20 20:53	EPA 200 8
7440-38-2	Arsenic	0.50	U	ug/L	0.50	12/07/20 11 06	12/28/20 20:53	EPA 200 8
7440-39-3	Barium	5.0	U	ug/L	5.0	12/07/20 10 58	12/09/20 14:40	EPA 6010
7440-41-7	Beryllium	3.0	U	ug/L	3.0	12/07/20 10 58	12/09/20 14:40	EPA 6010
7440-43-9	Cadmium	0.25	U	ug/L	0.25	12/07/20 11 06	12/28/20 20:53	EPA 200 8
7440-70-2	Calcium	250	U	ug/L	250	12/07/20 10 58	12/09/20 14:40	EPA 6010
7440-47-3	Chromium	5.0	U	ug/L	5.0	12/07/20 10 58	12/09/20 14:40	EPA 6010
7440-48-4	Cobalt	5.0	U	ug/L	5.0	12/07/20 10 58	12/09/20 14:40	EPA 6010
7440-50-8	Copper	10	U	ug/L	10	12/07/20 10 58	12/09/20 14:40	EPA 6010
7439-89-6	Iron	100	U	ug/L	100	12/07/20 10 58	12/09/20 14:40	EPA 6010
7439-92-1	Lead	0.50	U	ug/L	0.50	12/07/20 11 06	12/28/20 20:53	EPA 200 8
7439-95-4	Magnesium	250	U	ug/L	250	12/07/20 10 58	12/09/20 14:40	EPA 6010
7439-96-5	Manganese	5.0	U	ug/L	5.0	12/07/20 10 58	12/09/20 14:40	EPA 6010
7439-98-7	Molybdenum	10	U	ug/L	10	12/07/20 10 58	12/09/20 14:40	EPA 6010
7440-02-0	Nickel	10	U	ug/L	10	12/07/20 10 58	12/09/20 14:40	EPA 6010
7440-09-7	Potassium	1000	U	ug/L	1000	12/07/20 10 58	12/09/20 14:40	EPA 6010
7782-49-2	Selenium	1.0	U	ug/L	1.0	12/07/20 11 06	12/28/20 20:53	EPA 200 8
7440-22-4	Silver	5.0	U	ug/L	5.0	12/07/20 10 58	12/09/20 14:40	EPA 6010
7440-23-5	Sodium	11000		ug/L	1000	12/07/20 10 58	12/09/20 14:40	EPA 6010
7440-24-6	Strontium	5.0	U	ug/L	5.0	12/07/20 10 58	12/09/20 14:40	EPA 6010
7440-28-0	Thallium	0.50	U	ug/L	0.50	12/07/20 11 06	12/28/20 20:53	EPA 200 8
7440-31-5	Tin	15	U	ug/L	15	12/07/20 10 58	12/09/20 14:40	EPA 6010
7440-32-6	Titanium	5.0	U	ug/L	5.0	12/07/20 10 58	12/09/20 14:40	EPA 6010
7440-62-2	Vanadium	5.0	U	ug/L	5.0	12/07/20 10 58	12/09/20 14:40	EPA 6010
7440-65-5	Yttrium	3.0	U	ug/L	3.0	12/07/20 10 58	12/09/20 14:40	EPA 6010
7440-66-6	Zinc	10	U	ug/L	10	12/07/20 10 58	12/09/20 14:40	EPA 6010

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 21-0027
Project: 21-0027, Ore Knob FY21 - Reported by Floyd Wellborn

Total Metals

Project: 21-0027, Ore Knob FY21

Sample ID: PW762-1120F
Station ID: OK762
Lab ID: E204907-38
Matrix: Potable Water

Date Collected: 11/19/20 9:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7429-90-5	Aluminum	100	U	ug/L	100	12/07/20 10 58	12/09/20 14:51	EPA 6010
7440-36-0	Antimony	0.50	U	ug/L	0.50	12/07/20 11 06	12/28/20 21:26	EPA 200 8
7440-38-2	Arsenic	0.50	U	ug/L	0.50	12/07/20 11 06	12/28/20 21:26	EPA 200 8
7440-39-3	Barium	5.0	U	ug/L	5.0	12/07/20 10 58	12/09/20 14:51	EPA 6010
7440-41-7	Beryllium	3.0	U	ug/L	3.0	12/07/20 10 58	12/09/20 14:51	EPA 6010
7440-43-9	Cadmium	0.25	U	ug/L	0.25	12/07/20 11 06	12/28/20 21:26	EPA 200 8
7440-70-2	Calcium	380	U, B-2	ug/L	380	12/07/20 10 58	12/09/20 14:51	EPA 6010
7440-47-3	Chromium	5.0	U	ug/L	5.0	12/07/20 10 58	12/09/20 14:51	EPA 6010
7440-48-4	Cobalt	5.0	U	ug/L	5.0	12/07/20 10 58	12/09/20 14:51	EPA 6010
7440-50-8	Copper	17		ug/L	10	12/07/20 10 58	12/09/20 14:51	EPA 6010
7439-89-6	Iron	180		ug/L	100	12/07/20 10 58	12/09/20 14:51	EPA 6010
7439-92-1	Lead	0.50	U	ug/L	0.50	12/07/20 11 06	12/28/20 21:26	EPA 200 8
7439-95-4	Magnesium	250	U	ug/L	250	12/07/20 10 58	12/09/20 14:51	EPA 6010
7439-96-5	Manganese	50		ug/L	5.0	12/07/20 10 58	12/09/20 14:51	EPA 6010
7439-98-7	Molybdenum	10	U	ug/L	10	12/07/20 10 58	12/09/20 14:51	EPA 6010
7440-02-0	Nickel	10	U	ug/L	10	12/07/20 10 58	12/09/20 14:51	EPA 6010
7440-09-7	Potassium	4600		ug/L	1000	12/07/20 10 58	12/09/20 14:51	EPA 6010
7782-49-2	Selenium	1.0	U	ug/L	1.0	12/07/20 11 06	12/28/20 21:26	EPA 200 8
7440-22-4	Silver	5.0	U	ug/L	5.0	12/07/20 10 58	12/09/20 14:51	EPA 6010
7440-23-5	Sodium	130000		ug/L	1000	12/07/20 10 58	12/09/20 14:51	EPA 6010
7440-24-6	Strontium	5.0	U	ug/L	5.0	12/07/20 10 58	12/09/20 14:51	EPA 6010
7440-28-0	Thallium	0.50	U	ug/L	0.50	12/07/20 11 06	12/28/20 21:26	EPA 200 8
7440-31-5	Tin	15	U	ug/L	15	12/07/20 10 58	12/09/20 14:51	EPA 6010
7440-32-6	Titanium	5.0	U	ug/L	5.0	12/07/20 10 58	12/09/20 14:51	EPA 6010
7440-62-2	Vanadium	5.0	U	ug/L	5.0	12/07/20 10 58	12/09/20 14:51	EPA 6010
7440-65-5	Yttrium	3.0	U	ug/L	3.0	12/07/20 10 58	12/09/20 14:51	EPA 6010
7440-66-6	Zinc	45	U, B-2	ug/L	45	12/07/20 10 58	12/09/20 14:51	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: 21-0027
Project: 21-0027, Ore Knob FY21 - Reported by Floyd Wellborn

Total Metals

Project: 21-0027, Ore Knob FY21

Sample ID: PW762-1120R
Station ID: OK762
Lab ID: E204907-39
Matrix: Potable Water

Date Collected: 11/19/20 9:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7429-90-5	Aluminum	100	U	ug/L	100	12/07/20 10 58	12/09/20 14:54	EPA 6010
7440-36-0	Antimony	2.2	J, QR-2	ug/L	0.50	12/07/20 11 06	12/28/20 21:33	EPA 200 8
7440-38-2	Arsenic	0.50	U	ug/L	0.50	12/07/20 11 06	12/28/20 21:33	EPA 200 8
7440-39-3	Barium	5.0	U	ug/L	5.0	12/07/20 10 58	12/09/20 14:54	EPA 6010
7440-41-7	Beryllium	3.0	U	ug/L	3.0	12/07/20 10 58	12/09/20 14:54	EPA 6010
7440-43-9	Cadmium	0.25	U	ug/L	0.25	12/07/20 11 06	12/28/20 21:33	EPA 200 8
7440-70-2	Calcium	770	U, B-2	ug/L	770	12/07/20 10 58	12/09/20 14:54	EPA 6010
7440-47-3	Chromium	5.0	U	ug/L	5.0	12/07/20 10 58	12/09/20 14:54	EPA 6010
7440-48-4	Cobalt	5.0	U	ug/L	5.0	12/07/20 10 58	12/09/20 14:54	EPA 6010
7440-50-8	Copper	10	U	ug/L	10	12/07/20 10 58	12/09/20 14:54	EPA 6010
7439-89-6	Iron	100	U	ug/L	100	12/07/20 10 58	12/09/20 14:54	EPA 6010
7439-92-1	Lead	0.50	U	ug/L	0.50	12/07/20 11 06	12/28/20 21:33	EPA 200 8
7439-95-4	Magnesium	690		ug/L	250	12/07/20 10 58	12/09/20 14:54	EPA 6010
7439-96-5	Manganese	9.9		ug/L	5.0	12/07/20 10 58	12/09/20 14:54	EPA 6010
7439-98-7	Molybdenum	10	U	ug/L	10	12/07/20 10 58	12/09/20 14:54	EPA 6010
7440-02-0	Nickel	10	U	ug/L	10	12/07/20 10 58	12/09/20 14:54	EPA 6010
7440-09-7	Potassium	6200		ug/L	1000	12/07/20 10 58	12/09/20 14:54	EPA 6010
7782-49-2	Selenium	1.0	U	ug/L	1.0	12/07/20 11 06	12/28/20 21:33	EPA 200 8
7440-22-4	Silver	5.0	U	ug/L	5.0	12/07/20 10 58	12/09/20 14:54	EPA 6010
7440-23-5	Sodium	11000		ug/L	1000	12/07/20 10 58	12/09/20 14:54	EPA 6010
7440-24-6	Strontium	11	U, B-2	ug/L	11	12/07/20 10 58	12/09/20 14:54	EPA 6010
7440-28-0	Thallium	0.50	U	ug/L	0.50	12/07/20 11 06	12/28/20 21:33	EPA 200 8
7440-31-5	Tin	15	U	ug/L	15	12/07/20 10 58	12/09/20 14:54	EPA 6010
7440-32-6	Titanium	5.0	U	ug/L	5.0	12/07/20 10 58	12/09/20 14:54	EPA 6010
7440-62-2	Vanadium	5.0	U	ug/L	5.0	12/07/20 10 58	12/09/20 14:54	EPA 6010
7440-65-5	Yttrium	3.0	U	ug/L	3.0	12/07/20 10 58	12/09/20 14:54	EPA 6010
7440-66-6	Zinc	56	U, B-2	ug/L	56	12/07/20 10 58	12/09/20 14:54	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: 21-0027
Project: 21-0027, Ore Knob FY21 - Reported by Floyd Wellborn

Total Metals

Project: 21-0027, Ore Knob FY21

Sample ID: PW773-1120F
Station ID: OK773
Lab ID: E204907-40
Matrix: Potable Water

Date Collected: 11/17/20 12:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7429-90-5	Aluminum	100	U	ug/L	100	12/07/20 10 58	12/09/20 14:58	EPA 6010
7440-36-0	Antimony	0.50	U	ug/L	0.50	12/07/20 11 06	12/28/20 21:40	EPA 200 8
7440-38-2	Arsenic	0.50	U	ug/L	0.50	12/07/20 11 06	12/28/20 21:40	EPA 200 8
7440-39-3	Barium	5.0	U	ug/L	5.0	12/07/20 10 58	12/09/20 14:58	EPA 6010
7440-41-7	Beryllium	3.0	U	ug/L	3.0	12/07/20 10 58	12/09/20 14:58	EPA 6010
7440-43-9	Cadmium	0.25	U	ug/L	0.25	12/07/20 11 06	12/28/20 21:40	EPA 200 8
7440-70-2	Calcium	250	U	ug/L	250	12/07/20 10 58	12/09/20 14:58	EPA 6010
7440-47-3	Chromium	5.0	U	ug/L	5.0	12/07/20 10 58	12/09/20 14:58	EPA 6010
7440-48-4	Cobalt	5.0	U	ug/L	5.0	12/07/20 10 58	12/09/20 14:58	EPA 6010
7440-50-8	Copper	10	U	ug/L	10	12/07/20 10 58	12/09/20 14:58	EPA 6010
7439-89-6	Iron	100	U	ug/L	100	12/07/20 10 58	12/09/20 14:58	EPA 6010
7439-92-1	Lead	0.50	U	ug/L	0.50	12/07/20 11 06	12/28/20 21:40	EPA 200 8
7439-95-4	Magnesium	250	U	ug/L	250	12/07/20 10 58	12/09/20 14:58	EPA 6010
7439-96-5	Manganese	5.0	U	ug/L	5.0	12/07/20 10 58	12/09/20 14:58	EPA 6010
7439-98-7	Molybdenum	10	U	ug/L	10	12/07/20 10 58	12/09/20 14:58	EPA 6010
7440-02-0	Nickel	10	U	ug/L	10	12/07/20 10 58	12/09/20 14:58	EPA 6010
7440-09-7	Potassium	1000	U	ug/L	1000	12/07/20 10 58	12/09/20 14:58	EPA 6010
7782-49-2	Selenium	1.0	U	ug/L	1.0	12/07/20 11 06	12/28/20 21:40	EPA 200 8
7440-22-4	Silver	5.0	U	ug/L	5.0	12/07/20 10 58	12/09/20 14:58	EPA 6010
7440-23-5	Sodium	11000		ug/L	1000	12/07/20 10 58	12/09/20 14:58	EPA 6010
7440-24-6	Strontium	5.0	U	ug/L	5.0	12/07/20 10 58	12/09/20 14:58	EPA 6010
7440-28-0	Thallium	0.50	U	ug/L	0.50	12/07/20 11 06	12/28/20 21:40	EPA 200 8
7440-31-5	Tin	15	U	ug/L	15	12/07/20 10 58	12/09/20 14:58	EPA 6010
7440-32-6	Titanium	5.0	U	ug/L	5.0	12/07/20 10 58	12/09/20 14:58	EPA 6010
7440-62-2	Vanadium	5.0	U	ug/L	5.0	12/07/20 10 58	12/09/20 14:58	EPA 6010
7440-65-5	Yttrium	3.0	U	ug/L	3.0	12/07/20 10 58	12/09/20 14:58	EPA 6010
7440-66-6	Zinc	10	U	ug/L	10	12/07/20 10 58	12/09/20 14:58	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: 21-0027
Project: 21-0027, Ore Knob FY21 - Reported by Floyd Wellborn

Total Metals

Project: 21-0027, Ore Knob FY21

Sample ID: PW773-1120R
Station ID: OK773
Lab ID: E204907-41
Matrix: Potable Water

Date Collected: 11/17/20 12:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7429-90-5	Aluminum	100	U	ug/L	100	12/08/20 10:41	12/10/20 12:17	EPA 6010
7440-36-0	Antimony	0.50	U	ug/L	0.50	12/08/20 10:45	12/28/20 22:27	EPA 200 8
7440-38-2	Arsenic	0.50	U	ug/L	0.50	12/08/20 10:45	12/28/20 22:27	EPA 200 8
7440-39-3	Barium	5.0	U	ug/L	5.0	12/08/20 10:41	12/10/20 12:17	EPA 6010
7440-41-7	Beryllium	3.0	U	ug/L	3.0	12/08/20 10:41	12/10/20 12:17	EPA 6010
7440-43-9	Cadmium	0.25	U	ug/L	0.25	12/08/20 10:45	12/28/20 22:27	EPA 200 8
7440-70-2	Calcium	780		ug/L	250	12/08/20 10:41	12/10/20 12:17	EPA 6010
7440-47-3	Chromium	5.0	U	ug/L	5.0	12/08/20 10:41	12/10/20 12:17	EPA 6010
7440-48-4	Cobalt	5.0	U	ug/L	5.0	12/08/20 10:41	12/10/20 12:17	EPA 6010
7440-50-8	Copper	10	U	ug/L	10	12/08/20 10:41	12/10/20 12:17	EPA 6010
7439-89-6	Iron	100	U	ug/L	100	12/08/20 10:41	12/10/20 12:17	EPA 6010
7439-92-1	Lead	0.50	U	ug/L	0.50	12/08/20 10:45	12/28/20 22:27	EPA 200 8
7439-95-4	Magnesium	250	U	ug/L	250	12/08/20 10:41	12/10/20 12:17	EPA 6010
7439-96-5	Manganese	94		ug/L	5.0	12/08/20 10:41	12/10/20 12:17	EPA 6010
7439-98-7	Molybdenum	10	U	ug/L	10	12/08/20 10:41	12/10/20 12:17	EPA 6010
7440-02-0	Nickel	10	U	ug/L	10	12/08/20 10:41	12/10/20 12:17	EPA 6010
7440-09-7	Potassium	1000	U	ug/L	1000	12/08/20 10:41	12/10/20 12:17	EPA 6010
7782-49-2	Selenium	1.0	U	ug/L	1.0	12/08/20 10:45	12/28/20 22:27	EPA 200 8
7440-22-4	Silver	5.0	U	ug/L	5.0	12/08/20 10:41	12/10/20 12:17	EPA 6010
7440-23-5	Sodium	13000		ug/L	1000	12/08/20 10:41	12/10/20 12:17	EPA 6010
7440-24-6	Strontium	5.0	U	ug/L	5.0	12/08/20 10:41	12/10/20 12:17	EPA 6010
7440-28-0	Thallium	0.50	U	ug/L	0.50	12/08/20 10:45	12/28/20 22:27	EPA 200 8
7440-31-5	Tin	15	U	ug/L	15	12/08/20 10:41	12/10/20 12:17	EPA 6010
7440-32-6	Titanium	5.0	U	ug/L	5.0	12/08/20 10:41	12/10/20 12:17	EPA 6010
7440-62-2	Vanadium	5.0	U, J, QR-1	ug/L	5.0	12/08/20 10:41	12/10/20 12:17	EPA 6010
7440-65-5	Yttrium	3.0	U	ug/L	3.0	12/08/20 10:41	12/10/20 12:17	EPA 6010
7440-66-6	Zinc	160		ug/L	10	12/08/20 10:41	12/10/20 12:17	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: 21-0027
Project: 21-0027, Ore Knob FY21 - Reported by Floyd Wellborn

Total Metals

Project: 21-0027, Ore Knob FY21

Sample ID: PW774-1120F
Station ID: OK774
Lab ID: E204907-42
Matrix: Potable Water

Date Collected: 11/19/20 11:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7429-90-5	Aluminum	100	U	ug/L	100	12/08/20 10:41	12/10/20 12:21	EPA 6010
7440-36-0	Antimony	0.50	U	ug/L	0.50	12/08/20 10:45	12/28/20 22:34	EPA 200 8
7440-38-2	Arsenic	0.50	U	ug/L	0.50	12/08/20 10:45	12/28/20 22:34	EPA 200 8
7440-39-3	Barium	5.0	U	ug/L	5.0	12/08/20 10:41	12/10/20 12:21	EPA 6010
7440-41-7	Beryllium	3.0	U	ug/L	3.0	12/08/20 10:41	12/10/20 12:21	EPA 6010
7440-43-9	Cadmium	0.25	U	ug/L	0.25	12/08/20 10:45	12/28/20 22:34	EPA 200 8
7440-70-2	Calcium	250	U	ug/L	250	12/08/20 10:41	12/10/20 12:21	EPA 6010
7440-47-3	Chromium	5.0	U	ug/L	5.0	12/08/20 10:41	12/10/20 12:21	EPA 6010
7440-48-4	Cobalt	5.0	U	ug/L	5.0	12/08/20 10:41	12/10/20 12:21	EPA 6010
7440-50-8	Copper	10	U	ug/L	10	12/08/20 10:41	12/10/20 12:21	EPA 6010
7439-89-6	Iron	100	U	ug/L	100	12/08/20 10:41	12/10/20 12:21	EPA 6010
7439-92-1	Lead	0.50	U	ug/L	0.50	12/08/20 10:45	12/28/20 22:34	EPA 200 8
7439-95-4	Magnesium	250	U	ug/L	250	12/08/20 10:41	12/10/20 12:21	EPA 6010
7439-96-5	Manganese	5.0	U	ug/L	5.0	12/08/20 10:41	12/10/20 12:21	EPA 6010
7439-98-7	Molybdenum	10	U	ug/L	10	12/08/20 10:41	12/10/20 12:21	EPA 6010
7440-02-0	Nickel	10	U	ug/L	10	12/08/20 10:41	12/10/20 12:21	EPA 6010
7440-09-7	Potassium	1000	U	ug/L	1000	12/08/20 10:41	12/10/20 12:21	EPA 6010
7782-49-2	Selenium	1.0	U	ug/L	1.0	12/08/20 10:45	12/28/20 22:34	EPA 200 8
7440-22-4	Silver	5.0	U	ug/L	5.0	12/08/20 10:41	12/10/20 12:21	EPA 6010
7440-23-5	Sodium	110000		ug/L	1000	12/08/20 10:41	12/10/20 12:21	EPA 6010
7440-24-6	Strontium	5.0	U	ug/L	5.0	12/08/20 10:41	12/10/20 12:21	EPA 6010
7440-28-0	Thallium	0.50	U	ug/L	0.50	12/08/20 10:45	12/28/20 22:34	EPA 200 8
7440-31-5	Tin	15	U	ug/L	15	12/08/20 10:41	12/10/20 12:21	EPA 6010
7440-32-6	Titanium	5.0	U	ug/L	5.0	12/08/20 10:41	12/10/20 12:21	EPA 6010
7440-62-2	Vanadium	5.0	U, J, QR-1	ug/L	5.0	12/08/20 10:41	12/10/20 12:21	EPA 6010
7440-65-5	Yttrium	3.0	U	ug/L	3.0	12/08/20 10:41	12/10/20 12:21	EPA 6010
7440-66-6	Zinc	29		ug/L	10	12/08/20 10:41	12/10/20 12:21	EPA 6010

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 21-0027
Project: 21-0027, Ore Knob FY21 - Reported by Floyd Wellborn

Total Metals

Project: 21-0027, Ore Knob FY21

Sample ID: PW774-1120R
Station ID: OK774
Lab ID: E204907-43
Matrix: Potable Water

Date Collected: 11/19/20 11:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7429-90-5	Aluminum	100	U	ug/L	100	12/08/20 10:41	12/10/20 12:24	EPA 6010
7440-36-0	Antimony	0.50	U	ug/L	0.50	12/08/20 10:45	12/28/20 22:54	EPA 200 8
7440-38-2	Arsenic	0.50	U	ug/L	0.50	12/08/20 10:45	12/28/20 22:54	EPA 200 8
7440-39-3	Barium	5.0	U	ug/L	5.0	12/08/20 10:41	12/10/20 12:24	EPA 6010
7440-41-7	Beryllium	3.0	U	ug/L	3.0	12/08/20 10:41	12/10/20 12:24	EPA 6010
7440-43-9	Cadmium	0.25	U	ug/L	0.25	12/08/20 10:45	12/28/20 22:54	EPA 200 8
7440-70-2	Calcium	250	U	ug/L	250	12/08/20 10:41	12/10/20 12:24	EPA 6010
7440-47-3	Chromium	5.0	U	ug/L	5.0	12/08/20 10:41	12/10/20 12:24	EPA 6010
7440-48-4	Cobalt	5.0	U	ug/L	5.0	12/08/20 10:41	12/10/20 12:24	EPA 6010
7440-50-8	Copper	10	U	ug/L	10	12/08/20 10:41	12/10/20 12:24	EPA 6010
7439-89-6	Iron	100	U	ug/L	100	12/08/20 10:41	12/10/20 12:24	EPA 6010
7439-92-1	Lead	0.50	U	ug/L	0.50	12/08/20 10:45	12/28/20 22:54	EPA 200 8
7439-95-4	Magnesium	250	U	ug/L	250	12/08/20 10:41	12/10/20 12:24	EPA 6010
7439-96-5	Manganese	5.0	U	ug/L	5.0	12/08/20 10:41	12/10/20 12:24	EPA 6010
7439-98-7	Molybdenum	10	U	ug/L	10	12/08/20 10:41	12/10/20 12:24	EPA 6010
7440-02-0	Nickel	10	U	ug/L	10	12/08/20 10:41	12/10/20 12:24	EPA 6010
7440-09-7	Potassium	1000	U	ug/L	1000	12/08/20 10:41	12/10/20 12:24	EPA 6010
7782-49-2	Selenium	1.0	U	ug/L	1.0	12/08/20 10:45	12/28/20 22:54	EPA 200 8
7440-22-4	Silver	5.0	U	ug/L	5.0	12/08/20 10:41	12/10/20 12:24	EPA 6010
7440-23-5	Sodium	3100		ug/L	1000	12/08/20 10:41	12/10/20 12:24	EPA 6010
7440-24-6	Strontium	5.0	U	ug/L	5.0	12/08/20 10:41	12/10/20 12:24	EPA 6010
7440-28-0	Thallium	0.50	U	ug/L	0.50	12/08/20 10:45	12/28/20 22:54	EPA 200 8
7440-31-5	Tin	15	U	ug/L	15	12/08/20 10:41	12/10/20 12:24	EPA 6010
7440-32-6	Titanium	5.0	U	ug/L	5.0	12/08/20 10:41	12/10/20 12:24	EPA 6010
7440-62-2	Vanadium	5.0	U, J, QR-1	ug/L	5.0	12/08/20 10:41	12/10/20 12:24	EPA 6010
7440-65-5	Yttrium	3.0	U	ug/L	3.0	12/08/20 10:41	12/10/20 12:24	EPA 6010
7440-66-6	Zinc	10	U	ug/L	10	12/08/20 10:41	12/10/20 12:24	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: 21-0027
Project: 21-0027, Ore Knob FY21 - Reported by Floyd Wellborn

Total Metals

Project: 21-0027, Ore Knob FY21

Sample ID: PW779B-1120
Station ID: OK779B
Lab ID: E204907-44
Matrix: Potable Water

Date Collected: 11/18/20 11:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7429-90-5	Aluminum	100	U	ug/L	100	12/08/20 10:41	12/10/20 12:35	EPA 6010
7440-36-0	Antimony	0.50	U	ug/L	0.50	12/08/20 10:45	12/28/20 23:27	EPA 200 8
7440-38-2	Arsenic	0.50	U	ug/L	0.50	12/08/20 10:45	12/28/20 23:27	EPA 200 8
7440-39-3	Barium	19		ug/L	5.0	12/08/20 10:41	12/10/20 12:35	EPA 6010
7440-41-7	Beryllium	3.0	U	ug/L	3.0	12/08/20 10:41	12/10/20 12:35	EPA 6010
7440-43-9	Cadmium	0.25	U	ug/L	0.25	12/08/20 10:45	12/28/20 23:27	EPA 200 8
7440-70-2	Calcium	20000		ug/L	250	12/08/20 10:41	12/10/20 12:35	EPA 6010
7440-47-3	Chromium	5.0	U	ug/L	5.0	12/08/20 10:41	12/10/20 12:35	EPA 6010
7440-48-4	Cobalt	5.0	U	ug/L	5.0	12/08/20 10:41	12/10/20 12:35	EPA 6010
7440-50-8	Copper	13		ug/L	10	12/08/20 10:41	12/10/20 12:35	EPA 6010
7439-89-6	Iron	290		ug/L	100	12/08/20 10:41	12/10/20 12:35	EPA 6010
7439-92-1	Lead	0.82		ug/L	0.50	12/08/20 10:45	12/28/20 23:27	EPA 200 8
7439-95-4	Magnesium	1600		ug/L	250	12/08/20 10:41	12/10/20 12:35	EPA 6010
7439-96-5	Manganese	65		ug/L	5.0	12/08/20 10:41	12/10/20 12:35	EPA 6010
7439-98-7	Molybdenum	10	U	ug/L	10	12/08/20 10:41	12/10/20 12:35	EPA 6010
7440-02-0	Nickel	10	U	ug/L	10	12/08/20 10:41	12/10/20 12:35	EPA 6010
7440-09-7	Potassium	2100		ug/L	1000	12/08/20 10:41	12/10/20 12:35	EPA 6010
7782-49-2	Selenium	1.0	U	ug/L	1.0	12/08/20 10:45	12/28/20 23:27	EPA 200 8
7440-22-4	Silver	5.0	U	ug/L	5.0	12/08/20 10:41	12/10/20 12:35	EPA 6010
7440-23-5	Sodium	4400		ug/L	1000	12/08/20 10:41	12/10/20 12:35	EPA 6010
7440-24-6	Strontium	72		ug/L	5.0	12/08/20 10:41	12/10/20 12:35	EPA 6010
7440-28-0	Thallium	0.50	U	ug/L	0.50	12/08/20 10:45	12/28/20 23:27	EPA 200 8
7440-31-5	Tin	15	U	ug/L	15	12/08/20 10:41	12/10/20 12:35	EPA 6010
7440-32-6	Titanium	5.0	U	ug/L	5.0	12/08/20 10:41	12/10/20 12:35	EPA 6010
7440-62-2	Vanadium	5.0	U, J, QR-1	ug/L	5.0	12/08/20 10:41	12/10/20 12:35	EPA 6010
7440-65-5	Yttrium	3.0	U	ug/L	3.0	12/08/20 10:41	12/10/20 12:35	EPA 6010
7440-66-6	Zinc	10	U	ug/L	10	12/08/20 10:41	12/10/20 12:35	EPA 6010

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 21-0027
Project: 21-0027, Ore Knob FY21 - Reported by Floyd Wellborn

Total Metals

Project: 21-0027, Ore Knob FY21

Sample ID: PW779B-1120S
Station ID: OK779B
Lab ID: E204907-45
Matrix: Potable Water

Date Collected: 11/18/20 11:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7429-90-5	Aluminum	100	U	ug/L	100	12/08/20 10:41	12/10/20 12:38	EPA 6010
7440-36-0	Antimony	0.50	U	ug/L	0.50	12/08/20 10:45	12/28/20 23:34	EPA 200 8
7440-38-2	Arsenic	0.50	U	ug/L	0.50	12/08/20 10:45	12/28/20 23:34	EPA 200 8
7440-39-3	Barium	18		ug/L	5.0	12/08/20 10:41	12/10/20 12:38	EPA 6010
7440-41-7	Beryllium	3.0	U	ug/L	3.0	12/08/20 10:41	12/10/20 12:38	EPA 6010
7440-43-9	Cadmium	0.25	U	ug/L	0.25	12/08/20 10:45	12/28/20 23:34	EPA 200 8
7440-70-2	Calcium	20000		ug/L	250	12/08/20 10:41	12/10/20 12:38	EPA 6010
7440-47-3	Chromium	5.0	U	ug/L	5.0	12/08/20 10:41	12/10/20 12:38	EPA 6010
7440-48-4	Cobalt	5.0	U	ug/L	5.0	12/08/20 10:41	12/10/20 12:38	EPA 6010
7440-50-8	Copper	10	U	ug/L	10	12/08/20 10:41	12/10/20 12:38	EPA 6010
7439-89-6	Iron	280		ug/L	100	12/08/20 10:41	12/10/20 12:38	EPA 6010
7439-92-1	Lead	0.50	U	ug/L	0.50	12/08/20 10:45	12/28/20 23:34	EPA 200 8
7439-95-4	Magnesium	1500		ug/L	250	12/08/20 10:41	12/10/20 12:38	EPA 6010
7439-96-5	Manganese	65		ug/L	5.0	12/08/20 10:41	12/10/20 12:38	EPA 6010
7439-98-7	Molybdenum	10	U	ug/L	10	12/08/20 10:41	12/10/20 12:38	EPA 6010
7440-02-0	Nickel	10	U	ug/L	10	12/08/20 10:41	12/10/20 12:38	EPA 6010
7440-09-7	Potassium	2100		ug/L	1000	12/08/20 10:41	12/10/20 12:38	EPA 6010
7782-49-2	Selenium	1.0	U	ug/L	1.0	12/08/20 10:45	12/28/20 23:34	EPA 200 8
7440-22-4	Silver	5.0	U	ug/L	5.0	12/08/20 10:41	12/10/20 12:38	EPA 6010
7440-23-5	Sodium	4300		ug/L	1000	12/08/20 10:41	12/10/20 12:38	EPA 6010
7440-24-6	Strontium	71		ug/L	5.0	12/08/20 10:41	12/10/20 12:38	EPA 6010
7440-28-0	Thallium	0.50	U	ug/L	0.50	12/08/20 10:45	12/28/20 23:34	EPA 200 8
7440-31-5	Tin	15	U	ug/L	15	12/08/20 10:41	12/10/20 12:38	EPA 6010
7440-32-6	Titanium	5.0	U	ug/L	5.0	12/08/20 10:41	12/10/20 12:38	EPA 6010
7440-62-2	Vanadium	5.0	U, J, QR-1	ug/L	5.0	12/08/20 10:41	12/10/20 12:38	EPA 6010
7440-65-5	Yttrium	3.0	U	ug/L	3.0	12/08/20 10:41	12/10/20 12:38	EPA 6010
7440-66-6	Zinc	10	U	ug/L	10	12/08/20 10:41	12/10/20 12:38	EPA 6010

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
Batch 2012013 - M 200.2 Metals Water										
Blank (2012013-BLK1)				Prepared: 12/04/20 Analyzed: 12/08/20						
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	"							B-4, 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 (2012013-BS1)				Prepared: 12/04/20 Analyzed: 12/08/20						
EPA 6010										
Aluminum	4788 9	100	ug/L	5000 0		95 8	85-115			
Barium	191 16	5 0	"	200 00		95 6	85-115			
Beryllium	48 505	3 0	"	50 000		97 0	85-115			
Calcium	4913 1	250	"	5000 0		98 3	85-115			
Chromium	183 78	5 0	"	200 00		91 9	85-115			
Cobalt	94 341	5 0	"	100 00		94 3	85-115			
Copper	92 341	10	"	100 00		92 3	85-115			
Iron	5049 9	100	"	5000 0		101	85-115			
Magnesium	5004 7	250	"	5000 0		100	85-115			
Manganese	492 10	5 0	"	500 00		98 4	85-115			
Molybdenum	97 128	10	"	100 00		97 1	85-115			
Nickel	186 40	10	"	200 00		93 2	85-115			
Potassium	9313 5	1000	"	10000		93 1	85-115			
Silver	97 535	5 0	"	100 00		97 5	85-115			
Sodium	9783 1	1000	"	10000		97 8	85-115			

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
Batch 2012013 - M 200.2 Metals Water										
LCS (2012013-BS1)				Prepared: 12/04/20 Analyzed: 12/08/20						
Strontium	97 370	5 0	ug/L	100 00		97 4	85-115			
Tin	96 567	15	"	100 00		96 6	85-115			
Titanium	95 444	5 0	"	100 00		95 4	85-115			
Vanadium	92 694	5 0	"	100 00		92 7	85-115			
Yttrium	93 554	3 0	"	100 00		93 6	85-115			
Zinc	194 77	10	"	200 00		97 4	85-115			
Matrix Spike (2012013-MS1)		**Source: E204907-02**		Prepared: 12/04/20 Analyzed: 12/08/20						
EPA 6010										
Aluminum	4866 6	100	ug/L	5000 0	U	97 3	75-125			
Barium	193 86	5 0	"	200 00	3 0205	95 4	75-125			
Beryllium	47 874	3 0	"	50 000	U	95 7	75-125			
Calcium	5410 5	250	"	5000 0	570 02	96 8	75-125			
Chromium	183 93	5 0	"	200 00	U	92 0	75-125			
Cobalt	92 695	5 0	"	100 00	U	92 7	75-125			
Copper	90 377	10	"	100 00	U	90 4	75-125			
Iron	5049 3	100	"	5000 0	U	101	75-125			
Magnesium	5399 6	250	"	5000 0	447 84	99 0	75-125			
Manganese	510 78	5 0	"	500 00	24 053	97 3	75-125			
Molybdenum	96 034	10	"	100 00	U	96 0	75-125			
Nickel	183 63	10	"	200 00	U	91 8	75-125			
Potassium	9838 5	1000	"	10000	408 20	94 3	75-125			
Silver	97 499	5 0	"	100 00	U	97 5	75-125			
Sodium	21603	1000	"	10000	11999	96 0	75-125			
Strontium	100 51	5 0	"	100 00	6 4137	94 1	75-125			
Tin	94 385	15	"	100 00	U	94 4	75-125			
Titanium	95 136	5 0	"	100 00	U	95 1	75-125			
Vanadium	90 656	5 0	"	100 00	U	90 7	75-125			
Yttrium	92 294	3 0	"	100 00	U	92 3	75-125			
Zinc	198 52	10	"	200 00	8 9770	94 8	75-125			

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 21-0027
Project: 21-0027, Ore Knob FY21 - Reported by Floyd Wellborn

Total Metals (TMTL) - Quality Control
US-EPA, Region 4, LSASD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2012013 - M 200.2 Metals Water										
Matrix Spike (2012013-MS2)		**Source: E204907-20**		Prepared: 12/04/20 Analyzed: 12/08/20						
EPA 6010										
Aluminum	4785 2	100	ug/L	5000 0	U	95 7	75-125			
Barium	242 46	5 0	"	200 00	52 588	94 9	75-125			
Beryllium	47 480	3 0	"	50 000	U	95 0	75-125			
Calcium	10954	250	"	5000 0	6085 0	97 4	75-125			
Chromium	180 54	5 0	"	200 00	U	90 3	75-125			
Cobalt	90 104	5 0	"	100 00	U	90 1	75-125			
Copper	98 869	10	"	100 00	6 3485	92 5	75-125			
Iron	5157 1	100	"	5000 0	185 66	99 4	75-125			
Magnesium	6622 9	250	"	5000 0	1639 2	99 7	75-125			
Manganese	492 27	5 0	"	500 00	13 061	95 8	75-125			
Molybdenum	93 258	10	"	100 00	U	93 3	75-125			
Nickel	181 47	10	"	200 00	U	90 7	75-125			
Potassium	10677	1000	"	10000	1346 9	93 3	75-125			
Silver	98 043	5 0	"	100 00	U	98 0	75-125			
Sodium	11746	1000	"	10000	1945 1	98 0	75-125			
Strontium	141 02	5 0	"	100 00	45 854	95 2	75-125			
Tin	93 498	15	"	100 00	U	93 5	75-125			
Titanium	94 763	5 0	"	100 00	U	94 8	75-125			
Vanadium	90 261	5 0	"	100 00	U	90 3	75-125			
Yttrium	92 383	3 0	"	100 00	0 47064	91 9	75-125			
Zinc	207 28	10	"	200 00	25 214	91 0	75-125			
Matrix Spike Dup (2012013-MSD1)		**Source: E204907-02**		Prepared: 12/04/20 Analyzed: 12/08/20						
EPA 6010										
Aluminum	4897 3	100	ug/L	5000 0	U	97 9	75-125	0 630	20	
Barium	194 58	5 0	"	200 00	3 0205	95 8	75-125	0 372	20	
Beryllium	48 147	3 0	"	50 000	U	96 3	75-125	0 568	20	
Calcium	5447 9	250	"	5000 0	570 02	97 6	75-125	0 689	20	
Chromium	184 24	5 0	"	200 00	U	92 1	75-125	0 171	20	
Cobalt	93 251	5 0	"	100 00	U	93 3	75-125	0 598	20	
Copper	93 178	10	"	100 00	U	93 2	75-125	3 05	20	
Iron	5095 4	100	"	5000 0	U	102	75-125	0 908	20	
Magnesium	5417 1	250	"	5000 0	447 84	99 4	75-125	0 323	20	
Manganese	520 21	5 0	"	500 00	24 053	99 2	75-125	1 83	20	
Molybdenum	96 764	10	"	100 00	U	96 8	75-125	0 757	20	
Nickel	185 89	10	"	200 00	U	92 9	75-125	1 23	20	
Potassium	9895 7	1000	"	10000	408 20	94 9	75-125	0 579	20	
Silver	97 503	5 0	"	100 00	U	97 5	75-125	0 00331	20	
Sodium	21641	1000	"	10000	11999	96 4	75-125	0 176	20	

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Total Metals (TMTL) - Quality Control
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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2012013 - M 200.2 Metals Water										
Matrix Spike Dup (2012013-MSD1)		**Source: E204907-02**		Prepared: 12/04/20 Analyzed: 12/08/20						
Strontium	101 80	5 0	ug/L	100 00	6 4137	95 4	75-125	1 28	20	
Tin	96 282	15	"	100 00	U	96 3	75-125	1 99	20	
Titanium	95 567	5 0	"	100 00	U	95 6	75-125	0 452	20	
Vanadium	91 910	5 0	"	100 00	U	91 9	75-125	1 37	20	
Yttrium	93 547	3 0	"	100 00	U	93 5	75-125	1 35	20	
Zinc	198 86	10	"	200 00	8 9770	94 9	75-125	0 171	20	
Matrix Spike Dup (2012013-MSD2)		**Source: E204907-20**		Prepared: 12/04/20 Analyzed: 12/08/20						
EPA 6010										
Aluminum	4762 6	100	ug/L	5000 0	U	95 3	75-125	0 475	20	
Barium	244 29	5 0	"	200 00	52 588	95 8	75-125	0 749	20	
Beryllium	47 677	3 0	"	50 000	U	95 4	75-125	0 414	20	
Calcium	10930	250	"	5000 0	6085 0	96 9	75-125	0 218	20	
Chromium	181 68	5 0	"	200 00	U	90 8	75-125	0 629	20	
Cobalt	90 799	5 0	"	100 00	U	90 8	75-125	0 769	20	
Copper	98 562	10	"	100 00	6 3485	92 2	75-125	0 311	20	
Iron	5126 1	100	"	5000 0	185 66	98 8	75-125	0 602	20	
Magnesium	6595 8	250	"	5000 0	1639 2	99 1	75-125	0 411	20	
Manganese	496 75	5 0	"	500 00	13 061	96 7	75-125	0 907	20	
Molybdenum	94 219	10	"	100 00	U	94 2	75-125	1 03	20	
Nickel	182 63	10	"	200 00	U	91 3	75-125	0 634	20	
Potassium	10603	1000	"	10000	1346 9	92 6	75-125	0 699	20	
Silver	97 321	5 0	"	100 00	U	97 3	75-125	0 739	20	
Sodium	11657	1000	"	10000	1945 1	97 1	75-125	0 759	20	
Strontium	141 32	5 0	"	100 00	45 854	95 5	75-125	0 214	20	
Tin	93 278	15	"	100 00	U	93 3	75-125	0 236	20	
Titanium	95 568	5 0	"	100 00	U	95 6	75-125	0 846	20	
Vanadium	91 164	5 0	"	100 00	U	91 2	75-125	0 995	20	
Yttrium	92 503	3 0	"	100 00	0 47064	92 0	75-125	0 131	20	
Zinc	209 42	10	"	200 00	25 214	92 1	75-125	1 03	20	

Total Metals (TMTL) - Quality Control

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2012013 - M 200.2 Metals Water										
MRL Verification (2012013-PS1)				Prepared: 12/04/20 Analyzed: 12/08/20						
EPA 6010										
Aluminum	112 99	100	ug/L	100 00		113	70-130			MRL-2
Barium	5 0060	5 0	"	5 0000		100	70-130			MRL-2
Beryllium	2 8121	3 0	"	3 0000		93 7	70-130			MRL-2, U
Calcium	285 31	250	"	250 00		114	70-130			MRL-2
Chromium	5 0428	5 0	"	5 0000		101	70-130			MRL-2
Cobalt	4 8234	5 0	"	5 0000		96 5	70-130			MRL-2, U
Copper	8 8576	10	"	10 000		88 6	70-130			MRL-2, U
Iron	104 04	100	"	100 00		104	70-130			MRL-2
Magnesium	261 77	250	"	250 00		105	70-130			MRL-2
Manganese	5 1823	5 0	"	5 0000		104	70-130			MRL-2
Molybdenum	10 141	10	"	10 000		101	70-130			MRL-2
Nickel	9 5818	10	"	10 000		95 8	70-130			MRL-2, U
Potassium	936 06	1000	"	1000 0		93 6	70-130			MRL-2, U
Silver	4 4283	5 0	"	5 0000		88 6	70-130			MRL-2, U
Sodium	968 83	1000	"	1000 0		96 9	70-130			MRL-2, U
Strontium	5 8758	5 0	"	5 0000		118	70-130			MRL-2
Tin	14 515	15	"	15 000		96 8	70-130			MRL-2, U
Titanium	5 0790	5 0	"	5 0000		102	70-130			MRL-2
Vanadium	6 1604	5 0	"	5 0000		123	70-130			MRL-2
Yttrium	2 9054	3 0	"	3 0000		96 8	70-130			MRL-2, U
Zinc	11 193	10	"	10 000		112	70-130			MRL-2
Batch 2012014 - M 200.2 Metals Water										
Blank (2012014-BLK1)				Prepared: 12/04/20 Analyzed: 12/28/20						
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

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2012014 - M 200.2 Metals Water										
LCS (2012014-BS1)				Prepared: 12/04/20 Analyzed: 12/28/20						
EPA 200.8										
Antimony	192 43	0 50	ug/L	200 00		96 2	85-115			
Arsenic	202 01	0 50	"	200 00		101	85-115			
Cadmium	46 557	0 25	"	50 000		93 1	85-115			
Lead	192 79	0 50	"	200 00		96 4	85-115			
Selenium	206 85	1 0	"	200 00		103	85-115			
Thallium	189 45	0 50	"	200 00		94 7	85-115			
LCS (2012014-BS2)				Prepared: 12/04/20 Analyzed: 12/28/20						
EPA 200.8										
Antimony	200 26	2 5	ug/L	200 00		100	85-115			
Arsenic	199 07	2 5	"	200 00		99 5	85-115			
Cadmium	50 901	1 2	"	50 000		102	85-115			
Lead	204 84	2 5	"	200 00		102	85-115			
Selenium	216 78	5 0	"	200 00		108	85-115			
Thallium	202 51	2 5	"	200 00		101	85-115			
Matrix Spike (2012014-MS1)		**Source: E204907-02**		Prepared: 12/04/20 Analyzed: 12/28/20						
EPA 200.8										
Antimony	206 15	0 50	ug/L	200 00	0 25557	103	70-130			
Arsenic	220 65	0 50	"	200 00	U	110	70-130			
Cadmium	49 608	0 25	"	50 000	U	99 2	70-130			
Lead	197 63	0 50	"	200 00	U	98 8	70-130			
Selenium	197 53	1 0	"	200 00	U	98 8	70-130			
Thallium	196 74	0 50	"	200 00	U	98 4	70-130			
Matrix Spike (2012014-MS2)		**Source: E204907-20**		Prepared: 12/04/20 Analyzed: 12/28/20						
EPA 200.8										
Antimony	202 77	0 50	ug/L	200 00	U	101	70-130			
Arsenic	228 76	0 50	"	200 00	U	114	70-130			
Cadmium	47 881	0 25	"	50 000	0 098949	95 6	70-130			
Lead	205 00	0 50	"	200 00	3 4686	101	70-130			
Selenium	198 50	1 0	"	200 00	U	99 3	70-130			
Thallium	203 78	0 50	"	200 00	U	102	70-130			

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2012014 - M 200.2 Metals Water										
Matrix Spike (2012014-MS3)		**Source: E204907-02**		Prepared: 12/04/20 Analyzed: 12/28/20						
EPA 200.8										
Antimony	200 91	2 5	ug/L	200 00	U	100	70-130			
Arsenic	217 86	2 5	"	200 00	U	109	70-130			
Cadmium	46 154	1 2	"	50 000	U	92 3	70-130			
Lead	202 82	2 5	"	200 00	U	101	70-130			
Selenium	211 77	5 0	"	200 00	U	106	70-130			
Thallium	201 15	2 5	"	200 00	U	101	70-130			
Matrix Spike (2012014-MS4)		**Source: E204907-20**		Prepared: 12/04/20 Analyzed: 12/28/20						
EPA 200.8										
Antimony	206 60	2 5	ug/L	200 00	U	103	70-130			
Arsenic	244 78	2 5	"	200 00	U	122	70-130			
Cadmium	50 953	1 2	"	50 000	U	102	70-130			
Lead	218 09	2 5	"	200 00	3 4686	107	70-130			
Selenium	202 59	5 0	"	200 00	U	101	70-130			
Thallium	216 40	2 5	"	200 00	U	108	70-130			
Matrix Spike Dup (2012014-MSD1)		**Source: E204907-02**		Prepared: 12/04/20 Analyzed: 12/28/20						
EPA 200.8										
Antimony	207 55	0 50	ug/L	200 00	0 25557	104	70-130	0 675	20	
Arsenic	224 66	0 50	"	200 00	U	112	70-130	1 80	20	
Cadmium	49 875	0 25	"	50 000	U	99 7	70-130	0 536	20	
Lead	198 57	0 50	"	200 00	U	99 3	70-130	0 475	20	
Selenium	205 56	1 0	"	200 00	U	103	70-130	3 99	20	
Thallium	196 35	0 50	"	200 00	U	98 2	70-130	0 197	20	
Matrix Spike Dup (2012014-MSD2)		**Source: E204907-20**		Prepared: 12/04/20 Analyzed: 12/28/20						
EPA 200.8										
Antimony	205 22	0 50	ug/L	200 00	U	103	70-130	1 20	20	
Arsenic	234 29	0 50	"	200 00	U	117	70-130	2 39	20	
Cadmium	47 627	0 25	"	50 000	0 098949	95 1	70-130	0 531	20	
Lead	206 05	0 50	"	200 00	3 4686	101	70-130	0 514	20	
Selenium	207 23	1 0	"	200 00	U	104	70-130	4 30	20	
Thallium	206 75	0 50	"	200 00	U	103	70-130	1 44	20	

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Total Metals (TMTL) - Quality Control
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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2012014 - M 200.2 Metals Water										
Matrix Spike Dup (2012014-MSD3)		**Source: E204907-02**		Prepared: 12/04/20 Analyzed: 12/28/20						
EPA 200.8										
Antimony	197 75	2 5	ug/L	200 00	U	98 9	70-130	1 59	20	
Arsenic	217 06	2 5	"	200 00	U	109	70-130	0 368	20	
Cadmium	49 031	1 2	"	50 000	U	98 1	70-130	6 05	20	
Lead	210 79	2 5	"	200 00	U	105	70-130	3 85	20	
Selenium	212 35	5 0	"	200 00	U	106	70-130	0 274	20	
Thallium	208 05	2 5	"	200 00	U	104	70-130	3 37	20	
Matrix Spike Dup (2012014-MSD4)		**Source: E204907-20**		Prepared: 12/04/20 Analyzed: 12/28/20						
EPA 200.8										
Antimony	200 77	2 5	ug/L	200 00	U	100	70-130	2 86	20	
Arsenic	236 53	2 5	"	200 00	U	118	70-130	3 43	20	
Cadmium	47 784	1 2	"	50 000	U	95 6	70-130	6 42	20	
Lead	214 28	2 5	"	200 00	3 4686	105	70-130	1 76	20	
Selenium	210 20	5 0	"	200 00	U	105	70-130	3 69	20	
Thallium	213 34	2 5	"	200 00	U	107	70-130	1 42	20	
MRL Verification (2012014-PS1)				Prepared: 12/04/20 Analyzed: 12/28/20						
EPA 200.8										
Antimony	0 54802	0 50	ug/L	0 50000		110	65-135			MRL-1
Arsenic	1 1977	0 50	"	1 0000		120	65-135			MRL-1
Cadmium	0 47097	0 25	"	0 50000		94 2	65-135			MRL-1
Lead	1 0228	0 50	"	1 0000		102	65-135			MRL-1
Selenium	2 0071	1 0	"	2 0000		100	65-135			MRL-1
Thallium	0 52381	0 50	"	0 50000		105	65-135			MRL-1
Batch 2012019 - M 200.2 Metals Water										
Blank (2012019-BLK1)				Prepared: 12/07/20 Analyzed: 12/09/20						
EPA 6010										
Aluminum	174 70	100	ug/L							B-3
Barium	U	5 0	"							U
Beryllium	U	3 0	"							U
Calcium	372 38	250	"							B-4
Chromium	U	5 0	"							U
Cobalt	U	5 0	"							U
Copper	U	10	"							U
Iron	U	100	"							U
Magnesium	U	250	"							U

Total Metals (TMTL) - Quality Control

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2012019 - M 200.2 Metals Water										
Blank (2012019-BLK1)				Prepared: 12/07/20 Analyzed: 12/09/20						
Manganese	U	5 0	ug/L							U
Molybdenum	U	10	"							U
Nickel	U	10	"							U
Potassium	U	1000	"							U
Silver	U	5 0	"							U
Sodium	U	1000	"							U
Strontium	11 816	5 0	"							B-4
Tin	U	15	"							U
Titanium	U	5 0	"							U
Vanadium	U	5 0	"							U
Yttrium	U	3 0	"							U
Zinc	11 430	10	"							B-4
LCS (2012019-BS1)				Prepared: 12/07/20 Analyzed: 12/09/20						
EPA 6010										
Aluminum	4874 3	100	ug/L	5000 0		97 5	85-115			
Barium	200 93	5 0	"	200 00		100	85-115			
Beryllium	49 434	3 0	"	50 000		98 9	85-115			
Calcium	5064 2	250	"	5000 0		101	85-115			
Chromium	189 70	5 0	"	200 00		94 8	85-115			
Cobalt	95 875	5 0	"	100 00		95 9	85-115			
Copper	99 865	10	"	100 00		99 9	85-115			
Iron	5110 3	100	"	5000 0		102	85-115			
Magnesium	5103 2	250	"	5000 0		102	85-115			
Manganese	503 31	5 0	"	500 00		101	85-115			
Molybdenum	99 017	10	"	100 00		99 0	85-115			
Nickel	189 69	10	"	200 00		94 8	85-115			
Potassium	9518 4	1000	"	10000		95 2	85-115			
Silver	98 061	5 0	"	100 00		98 1	85-115			
Sodium	9916 5	1000	"	10000		99 2	85-115			
Strontium	105 47	5 0	"	100 00		105	85-115			
Tin	97 724	15	"	100 00		97 7	85-115			
Titanium	99 708	5 0	"	100 00		99 7	85-115			
Vanadium	95 705	5 0	"	100 00		95 7	85-115			
Yttrium	95 729	3 0	"	100 00		95 7	85-115			
Zinc	198 83	10	"	200 00		99 4	85-115			

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2012019 - M 200.2 Metals Water										
Matrix Spike (2012019-MS1)		**Source: E204907-27**		Prepared: 12/07/20 Analyzed: 12/09/20						
EPA 6010										
Aluminum	4830 9	100	ug/L	5000 0	U	96 6	75-125			
Barium	198 03	5 0	"	200 00	U	99 0	75-125			
Beryllium	50 522	3 0	"	50 000	U	101	75-125			
Calcium	4912 2	250	"	5000 0	U	98 2	75-125			
Chromium	190 55	5 0	"	200 00	U	95 3	75-125			
Cobalt	95 715	5 0	"	100 00	U	95 7	75-125			
Copper	104 61	10	"	100 00	6 4995	98 1	75-125			
Iron	5124 8	100	"	5000 0	U	102	75-125			
Magnesium	5031 1	250	"	5000 0	U	101	75-125			
Manganese	502 03	5 0	"	500 00	U	100	75-125			
Molybdenum	98 776	10	"	100 00	U	98 8	75-125			
Nickel	189 91	10	"	200 00	U	95 0	75-125			
Potassium	9599 0	1000	"	10000	U	96 0	75-125			
Silver	98 308	5 0	"	100 00	U	98 3	75-125			
Sodium	61288	1000	"	10000	52036	92 5	75-125			
Strontium	98 040	5 0	"	100 00	U	98 0	75-125			
Tin	98 480	15	"	100 00	U	98 5	75-125			
Titanium	97 454	5 0	"	100 00	0 44256	97 0	75-125			
Vanadium	90 875	5 0	"	100 00	U	90 9	75-125			
Yttrium	94 636	3 0	"	100 00	U	94 6	75-125			
Zinc	205 37	10	"	200 00	7 1059	99 1	75-125			
Matrix Spike (2012019-MS2)		**Source: E204907-37**		Prepared: 12/07/20 Analyzed: 12/09/20						
EPA 6010										
Aluminum	4736 4	100	ug/L	5000 0	U	94 7	75-125			
Barium	197 15	5 0	"	200 00	U	98 6	75-125			
Beryllium	49 207	3 0	"	50 000	U	98 4	75-125			
Calcium	4940 1	250	"	5000 0	84 493	97 1	75-125			
Chromium	189 51	5 0	"	200 00	U	94 8	75-125			
Cobalt	92 671	5 0	"	100 00	U	92 7	75-125			
Copper	96 488	10	"	100 00	U	96 5	75-125			
Iron	5043 9	100	"	5000 0	U	101	75-125			
Magnesium	5016 3	250	"	5000 0	U	100	75-125			
Manganese	502 76	5 0	"	500 00	3 9447	99 8	75-125			
Molybdenum	96 247	10	"	100 00	U	96 2	75-125			
Nickel	188 07	10	"	200 00	U	94 0	75-125			
Potassium	9555 1	1000	"	10000	135 59	94 2	75-125			
Silver	96 791	5 0	"	100 00	U	96 8	75-125			
Sodium	20874	1000	"	10000	11329	95 5	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
Batch 2012019 - M 200.2 Metals Water										
Matrix Spike (2012019-MS2)		**Source: E204907-37**		Prepared: 12/07/20 Analyzed: 12/09/20						
Strontium	99 284	5 0	ug/L	100 00	U	99 3	75-125			
Tin	94 503	15	"	100 00	U	94 5	75-125			
Titanium	97 097	5 0	"	100 00	0 34552	96 8	75-125			
Vanadium	88 408	5 0	"	100 00	U	88 4	75-125			
Yttrium	92 914	3 0	"	100 00	U	92 9	75-125			
Zinc	194 56	10	"	200 00	1 9007	96 3	75-125			
Matrix Spike Dup (2012019-MSD1)		**Source: E204907-27**		Prepared: 12/07/20 Analyzed: 12/09/20						
EPA 6010										
Aluminum	4833 9	100	ug/L	5000 0	U	96 7	75-125	0 0603	20	
Barium	198 14	5 0	"	200 00	U	99 1	75-125	0 0558	20	
Beryllium	50 639	3 0	"	50 000	U	101	75-125	0 231	20	
Calcium	4897 0	250	"	5000 0	U	97 9	75-125	0 309	20	
Chromium	190 60	5 0	"	200 00	U	95 3	75-125	0 0288	20	
Cobalt	96 718	5 0	"	100 00	U	96 7	75-125	1 04	20	
Copper	102 37	10	"	100 00	6 4995	95 9	75-125	2 17	20	
Iron	5103 1	100	"	5000 0	U	102	75-125	0 423	20	
Magnesium	5001 4	250	"	5000 0	U	100	75-125	0 592	20	
Manganese	499 50	5 0	"	500 00	U	99 9	75-125	0 505	20	
Molybdenum	100 50	10	"	100 00	U	100	75-125	1 73	20	
Nickel	190 36	10	"	200 00	U	95 2	75-125	0 233	20	
Potassium	9616 0	1000	"	10000	U	96 2	75-125	0 177	20	
Silver	99 498	5 0	"	100 00	U	99 5	75-125	1 20	20	
Sodium	59830	1000	"	10000	52036	77 9	75-125	2 41	20	
Strontium	97 513	5 0	"	100 00	U	97 5	75-125	0 539	20	
Tin	98 636	15	"	100 00	U	98 6	75-125	0 157	20	
Titanium	97 672	5 0	"	100 00	0 44256	97 2	75-125	0 223	20	
Vanadium	90 879	5 0	"	100 00	U	90 9	75-125	0 00407	20	
Yttrium	94 949	3 0	"	100 00	U	94 9	75-125	0 330	20	
Zinc	208 07	10	"	200 00	7 1059	100	75-125	1 30	20	

Total Metals (TMTL) - Quality Control

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2012019 - M 200.2 Metals Water										
Matrix Spike Dup (2012019-MSD2)		**Source: E204907-37**		Prepared: 12/07/20 Analyzed: 12/09/20						
EPA 6010										
Aluminum	4719 5	100	ug/L	5000 0	U	94 4	75-125	0 358	20	
Barium	191 54	5 0	"	200 00	U	95 8	75-125	2 89	20	
Beryllium	48 261	3 0	"	50 000	U	96 5	75-125	1 94	20	
Calcium	4909 9	250	"	5000 0	84 493	96 5	75-125	0 612	20	
Chromium	185 89	5 0	"	200 00	U	92 9	75-125	1 93	20	
Cobalt	92 347	5 0	"	100 00	U	92 3	75-125	0 350	20	
Copper	91 305	10	"	100 00	U	91 3	75-125	5 52	20	
Iron	5022 0	100	"	5000 0	U	100	75-125	0 434	20	
Magnesium	4989 0	250	"	5000 0	U	99 8	75-125	0 547	20	
Manganese	489 54	5 0	"	500 00	3 9447	97 1	75-125	2 66	20	
Molybdenum	95 738	10	"	100 00	U	95 7	75-125	0 530	20	
Nickel	185 31	10	"	200 00	U	92 7	75-125	1 48	20	
Potassium	9491 2	1000	"	10000	135 59	93 6	75-125	0 671	20	
Silver	93 994	5 0	"	100 00	U	94 0	75-125	2 93	20	
Sodium	20746	1000	"	10000	11329	94 2	75-125	0 613	20	
Strontium	96 867	5 0	"	100 00	U	96 9	75-125	2 46	20	
Tin	93 586	15	"	100 00	U	93 6	75-125	0 976	20	
Titanium	94 178	5 0	"	100 00	0 34552	93 8	75-125	3 05	20	
Vanadium	87 157	5 0	"	100 00	U	87 2	75-125	1 42	20	
Yttrium	90 851	3 0	"	100 00	U	90 9	75-125	2 25	20	
Zinc	192 66	10	"	200 00	1 9007	95 4	75-125	0 983	20	
MRL Verification (2012019-PS1)				Prepared: 12/07/20 Analyzed: 12/09/20						
EPA 6010										
Aluminum	135 86	100	ug/L	100 00		136	70-130			MRL-2, QR-2
Barium	5 0375	5 0	"	5 0000		101	70-130			MRL-2
Beryllium	2 8016	3 0	"	3 0000		93 4	70-130			MRL-2, U
Calcium	330 03	250	"	250 00		132	70-130			MRL-2, QR-2
Chromium	5 0405	5 0	"	5 0000		101	70-130			MRL-2
Cobalt	4 7550	5 0	"	5 0000		95 1	70-130			MRL-2, U
Copper	9 6173	10	"	10 000		96 2	70-130			MRL-2, U
Iron	108 46	100	"	100 00		108	70-130			MRL-2
Magnesium	275 54	250	"	250 00		110	70-130			MRL-2
Manganese	5 3753	5 0	"	5 0000		108	70-130			MRL-2
Molybdenum	10 041	10	"	10 000		100	70-130			MRL-2

Total Metals (TMTL) - Quality Control

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2012019 - M 200.2 Metals Water										
MRL Verification (2012019-PS1)				Prepared: 12/07/20 Analyzed: 12/09/20						
Nickel	9 6248	10	ug/L	10 000		96 2	70-130			MRL-2, U
Potassium	966 69	1000	"	1000 0		96 7	70-130			MRL-2, U
Silver	5 3368	5 0	"	5 0000		107	70-130			MRL-2
Sodium	975 51	1000	"	1000 0		97 6	70-130			MRL-2, U
Strontium	7 6371	5 0	"	5 0000		153	70-130			MRL-2, QR-2
Tin	14 410	15	"	15 000		96 1	70-130			MRL-2, U
Titanium	5 3812	5 0	"	5 0000		108	70-130			MRL-2
Vanadium	5 4441	5 0	"	5 0000		109	70-130			MRL-2
Yttrium	2 8514	3 0	"	3 0000		95 0	70-130			MRL-2, U
Zinc	12 592	10	"	10 000		126	70-130			MRL-2
Batch 2012020 - M 200.2 Metals Water										
Blank (2012020-BLK1)				Prepared: 12/07/20 Analyzed: 12/28/20						
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 (2012020-BS1)				Prepared: 12/07/20 Analyzed: 12/28/20						
EPA 200.8										
Antimony	213 11	0 50	ug/L	200 00		107	85-115			
Arsenic	246 03	0 50	"	200 00		123	85-115			QL-2
Cadmium	50 142	0 25	"	50 000		100	85-115			
Lead	203 86	0 50	"	200 00		102	85-115			
Selenium	213 92	1 0	"	200 00		107	85-115			
Thallium	205 72	0 50	"	200 00		103	85-115			

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Total Metals (TMTL) - Quality Control
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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2012020 - M 200.2 Metals Water										
LCS (2012020-BS2)				Prepared: 12/07/20 Analyzed: 12/28/20						
EPA 200.8										
Antimony	210 04	2 5	ug/L	200 00		105	85-115			
Arsenic	234 21	2 5	"	200 00		117	85-115			QL-2
Cadmium	51 403	1 2	"	50 000		103	85-115			
Lead	212 03	2 5	"	200 00		106	85-115			
Selenium	224 12	5 0	"	200 00		112	85-115			
Thallium	214 71	2 5	"	200 00		107	85-115			
Matrix Spike (2012020-MS1)		**Source: E204907-27**		Prepared: 12/07/20 Analyzed: 12/28/20						
EPA 200.8										
Antimony	210 27	0 50	ug/L	200 00	U	105	70-130			
Arsenic	247 83	0 50	"	200 00	U	124	70-130			
Cadmium	48 181	0 25	"	50 000	U	96 4	70-130			
Lead	206 74	0 50	"	200 00	1 5173	103	70-130			
Selenium	203 04	1 0	"	200 00	U	102	70-130			
Thallium	209 05	0 50	"	200 00	U	105	70-130			
Matrix Spike (2012020-MS2)		**Source: E204907-37**		Prepared: 12/07/20 Analyzed: 12/28/20						
EPA 200.8										
Antimony	211 03	0 50	ug/L	200 00	0 32229	105	70-130			
Arsenic	254 89	0 50	"	200 00	U	127	70-130			
Cadmium	49 732	0 25	"	50 000	U	99 5	70-130			
Lead	207 60	0 50	"	200 00	U	104	70-130			
Selenium	221 65	1 0	"	200 00	U	111	70-130			
Thallium	208 60	0 50	"	200 00	U	104	70-130			
Matrix Spike (2012020-MS3)		**Source: E204907-27**		Prepared: 12/07/20 Analyzed: 12/28/20						
EPA 200.8										
Antimony	213 37	2 5	ug/L	200 00	U	107	70-130			
Arsenic	247 85	2 5	"	200 00	U	124	70-130			
Cadmium	48 429	1 2	"	50 000	U	96 9	70-130			
Lead	218 09	2 5	"	200 00	1 5173	108	70-130			
Selenium	216 63	5 0	"	200 00	U	108	70-130			
Thallium	219 38	2 5	"	200 00	U	110	70-130			

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Total Metals (TMTL) - Quality Control
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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2012020 - M 200.2 Metals Water										
Matrix Spike (2012020-MS4)		**Source: E204907-37**		Prepared: 12/07/20 Analyzed: 12/28/20						
EPA 200.8										
Antimony	204 95	2 5	ug/L	200 00	U	102	70-130			
Arsenic	247 69	2 5	"	200 00	U	124	70-130			
Cadmium	47 875	1 2	"	50 000	U	95 8	70-130			
Lead	219 02	2 5	"	200 00	U	110	70-130			
Selenium	227 17	5 0	"	200 00	U	114	70-130			
Thallium	221 91	2 5	"	200 00	U	111	70-130			
Matrix Spike Dup (2012020-MSD1)		**Source: E204907-27**		Prepared: 12/07/20 Analyzed: 12/28/20						
EPA 200.8										
Antimony	211 62	0 50	ug/L	200 00	U	106	70-130	0 640	20	
Arsenic	244 81	0 50	"	200 00	U	122	70-130	1 23	20	
Cadmium	46 946	0 25	"	50 000	U	93 9	70-130	2 60	20	
Lead	200 82	0 50	"	200 00	1 5173	99 7	70-130	2 90	20	
Selenium	217 84	1 0	"	200 00	U	109	70-130	7 03	20	
Thallium	205 72	0 50	"	200 00	U	103	70-130	1 60	20	
Matrix Spike Dup (2012020-MSD2)		**Source: E204907-37**		Prepared: 12/07/20 Analyzed: 12/28/20						
EPA 200.8										
Antimony	205 57	0 50	ug/L	200 00	0 32229	103	70-130	2 62	20	
Arsenic	256 81	0 50	"	200 00	U	128	70-130	0 750	20	
Cadmium	48 911	0 25	"	50 000	U	97 8	70-130	1 67	20	
Lead	206 46	0 50	"	200 00	U	103	70-130	0 552	20	
Selenium	217 72	1 0	"	200 00	U	109	70-130	1 79	20	
Thallium	209 23	0 50	"	200 00	U	105	70-130	0 300	20	
Matrix Spike Dup (2012020-MSD3)		**Source: E204907-27**		Prepared: 12/07/20 Analyzed: 12/28/20						
EPA 200.8										
Antimony	207 49	2 5	ug/L	200 00	U	104	70-130	2 79	20	
Arsenic	237 49	2 5	"	200 00	U	119	70-130	4 27	20	
Cadmium	50 364	1 2	"	50 000	U	101	70-130	3 92	20	
Lead	213 51	2 5	"	200 00	1 5173	106	70-130	2 12	20	
Selenium	206 45	5 0	"	200 00	U	103	70-130	4 81	20	
Thallium	214 11	2 5	"	200 00	U	107	70-130	2 43	20	

Total Metals (TMTL) - Quality Control

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2012020 - M 200.2 Metals Water										
Matrix Spike Dup (2012020-MSD4)		**Source: E204907-37**		Prepared: 12/07/20 Analyzed: 12/28/20						
EPA 200.8										
Antimony	201 14	2 5	ug/L	200 00	U	101	70-130	1 88	20	
Arsenic	244 63	2 5	"	200 00	U	122	70-130	1 24	20	
Cadmium	48 939	1 2	"	50 000	U	97 9	70-130	2 20	20	
Lead	209 33	2 5	"	200 00	U	105	70-130	4 52	20	
Selenium	224 47	5 0	"	200 00	U	112	70-130	1 20	20	
Thallium	213 59	2 5	"	200 00	U	107	70-130	3 82	20	
MRL Verification (2012020-PS1)				Prepared: 12/07/20 Analyzed: 12/28/20						
EPA 200.8										
Antimony	0 68173	0 50	ug/L	0 50000		136	65-135			MRL-1, QR-2
Arsenic	1 3319	0 50	"	1 0000		133	65-135			MRL-1
Cadmium	0 50378	0 25	"	0 50000		101	65-135			MRL-1
Lead	1 0754	0 50	"	1 0000		108	65-135			MRL-1
Selenium	2 2805	1 0	"	2 0000		114	65-135			MRL-1
Thallium	0 52895	0 50	"	0 50000		106	65-135			MRL-1
Batch 2012023 - M 200.2 Metals Water										
Blank (2012023-BLK1)				Prepared: 12/08/20 Analyzed: 12/10/20						
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

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Total Metals (TMTL) - Quality Control
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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2012023 - M 200.2 Metals Water										
Blank (2012023-BLK1)				Prepared: 12/08/20 Analyzed: 12/10/20						
Vanadium	U	5 0	ug/L							U
Yttrium	U	3 0	"							U
Zinc	U	10	"							U
LCS (2012023-BS1)				Prepared: 12/08/20 Analyzed: 12/10/20						
EPA 6010										
Aluminum	4738 1	100	ug/L	5000 0		94 8	85-115			
Barium	195 22	5 0	"	200 00		97 6	85-115			
Beryllium	48 357	3 0	"	50 000		96 7	85-115			
Calcium	4927 0	250	"	5000 0		98 5	85-115			
Chromium	189 71	5 0	"	200 00		94 9	85-115			
Cobalt	94 442	5 0	"	100 00		94 4	85-115			
Copper	94 983	10	"	100 00		95 0	85-115			
Iron	5080 4	100	"	5000 0		102	85-115			
Magnesium	5031 3	250	"	5000 0		101	85-115			
Manganese	499 28	5 0	"	500 00		99 9	85-115			
Molybdenum	96 992	10	"	100 00		97 0	85-115			
Nickel	188 37	10	"	200 00		94 2	85-115			
Potassium	9344 4	1000	"	10000		93 4	85-115			
Silver	99 396	5 0	"	100 00		99 4	85-115			
Sodium	9643 2	1000	"	10000		96 4	85-115			
Strontium	97 534	5 0	"	100 00		97 5	85-115			
Tin	96 915	15	"	100 00		96 9	85-115			
Titanium	95 530	5 0	"	100 00		95 5	85-115			
Vanadium	91 258	5 0	"	100 00		91 3	85-115			
Yttrium	92 987	3 0	"	100 00		93 0	85-115			
Zinc	195 30	10	"	200 00		97 6	85-115			
Matrix Spike (2012023-MS1)		**Source: E204907-43**		Prepared: 12/08/20 Analyzed: 12/10/20						
EPA 6010										
Aluminum	4686 3	100	ug/L	5000 0	U	93 7	75-125			
Barium	197 76	5 0	"	200 00	U	98 9	75-125			
Beryllium	47 599	3 0	"	50 000	U	95 2	75-125			
Calcium	4901 3	250	"	5000 0	U	98 0	75-125			
Chromium	188 51	5 0	"	200 00	U	94 3	75-125			
Cobalt	93 626	5 0	"	100 00	U	93 6	75-125			
Copper	93 740	10	"	100 00	U	93 7	75-125			
Iron	4992 5	100	"	5000 0	U	99 9	75-125			
Magnesium	4947 1	250	"	5000 0	U	98 9	75-125			

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2012023 - M 200.2 Metals Water										
Matrix Spike (2012023-MS1)		**Source: E204907-43**		Prepared: 12/08/20 Analyzed: 12/10/20						
Manganese	494 93	5 0	ug/L	500 00	U	99 0	75-125			
Molybdenum	96 399	10	"	100 00	U	96 4	75-125			
Nickel	189 05	10	"	200 00	U	94 5	75-125			
Potassium	9224 2	1000	"	10000	U	92 2	75-125			
Silver	97 606	5 0	"	100 00	U	97 6	75-125			
Sodium	12649	1000	"	10000	3149 6	95 0	75-125			
Strontium	96 926	5 0	"	100 00	U	96 9	75-125			
Tin	95 562	15	"	100 00	U	95 6	75-125			
Titanium	95 802	5 0	"	100 00	0 40500	95 4	75-125			
Vanadium	88 563	5 0	"	100 00	U	88 6	75-125			
Yttrium	91 380	3 0	"	100 00	U	91 4	75-125			
Zinc	196 23	10	"	200 00	1 9716	97 1	75-125			
Matrix Spike Dup (2012023-MSD1)		**Source: E204907-43**		Prepared: 12/08/20 Analyzed: 12/10/20						
EPA 6010										
Aluminum	4757 5	100	ug/L	5000 0	U	95 2	75-125	1 51	20	
Barium	201 36	5 0	"	200 00	U	101	75-125	1 80	20	
Beryllium	48 124	3 0	"	50 000	U	96 2	75-125	1 10	20	
Calcium	4960 3	250	"	5000 0	U	99 2	75-125	1 20	20	
Chromium	192 12	5 0	"	200 00	U	96 1	75-125	1 90	20	
Cobalt	94 337	5 0	"	100 00	U	94 3	75-125	0 757	20	
Copper	96 061	10	"	100 00	U	96 1	75-125	2 45	20	
Iron	5039 3	100	"	5000 0	U	101	75-125	0 931	20	
Magnesium	5028 8	250	"	5000 0	U	101	75-125	1 64	20	
Manganese	499 72	5 0	"	500 00	U	99 9	75-125	0 963	20	
Molybdenum	97 606	10	"	100 00	U	97 6	75-125	1 24	20	
Nickel	193 74	10	"	200 00	U	96 9	75-125	2 45	20	
Potassium	9382 7	1000	"	10000	U	93 8	75-125	1 70	20	
Silver	98 704	5 0	"	100 00	U	98 7	75-125	1 12	20	
Sodium	12739	1000	"	10000	3149 6	95 9	75-125	0 712	20	
Strontium	97 929	5 0	"	100 00	U	97 9	75-125	1 03	20	
Tin	97 498	15	"	100 00	U	97 5	75-125	2 01	20	
Titanium	97 747	5 0	"	100 00	0 40500	97 3	75-125	2 01	20	
Vanadium	90 030	5 0	"	100 00	U	90 0	75-125	1 64	20	
Yttrium	92 401	3 0	"	100 00	U	92 4	75-125	1 11	20	
Zinc	199 24	10	"	200 00	1 9716	98 6	75-125	1 52	20	

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
Batch 2012023 - M 200.2 Metals Water										
MRL Verification (2012023-PS1)				Prepared: 12/08/20 Analyzed: 12/10/20						
EPA 6010										
Aluminum	99 676	100	ug/L	100 00		99 7	70-130			MRL-2, U
Barium	5 1120	5 0	"	5 0000		102	70-130			MRL-2
Beryllium	2 9441	3 0	"	3 0000		98 1	70-130			MRL-2, U
Calcium	256 55	250	"	250 00		103	70-130			MRL-2
Chromium	5 1635	5 0	"	5 0000		103	70-130			MRL-2
Cobalt	4 9844	5 0	"	5 0000		99 7	70-130			MRL-2, U
Copper	9 4185	10	"	10 000		94 2	70-130			MRL-2, U
Iron	115 67	100	"	100 00		116	70-130			MRL-2
Magnesium	263 04	250	"	250 00		105	70-130			MRL-2
Manganese	5 3274	5 0	"	5 0000		107	70-130			MRL-2
Molybdenum	9 7798	10	"	10 000		97 8	70-130			MRL-2, U
Nickel	10 149	10	"	10 000		101	70-130			MRL-2
Potassium	947 16	1000	"	1000 0		94 7	70-130			MRL-2, U
Silver	5 0395	5 0	"	5 0000		101	70-130			MRL-2
Sodium	958 96	1000	"	1000 0		95 9	70-130			MRL-2, U
Strontium	5 1728	5 0	"	5 0000		103	70-130			MRL-2
Tin	14 176	15	"	15 000		94 5	70-130			MRL-2, U
Titanium	5 2784	5 0	"	5 0000		106	70-130			MRL-2
Vanadium	2 5558	5 0	"	5 0000		51 1	70-130			MRL-2, QR-1, U
Yttrium	2 9440	3 0	"	3 0000		98 1	70-130			MRL-2, U
Zinc	10 414	10	"	10 000		104	70-130			MRL-2
Batch 2012024 - M 200.2 Metals Water										
Blank (2012024-BLK1)				Prepared: 12/08/20 Analyzed: 12/28/20						
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

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 21-0027
Project: 21-0027, Ore Knob FY21 - Reported by Floyd Wellborn

Total Metals (TMTL) - Quality Control
US-EPA, Region 4, LSASD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2012024 - M 200.2 Metals Water										
LCS (2012024-BS1)				Prepared: 12/08/20 Analyzed: 12/28/20						
EPA 200.8										
Antimony	215 90	0 50	ug/L	200 00		108	85-115			
Arsenic	255 96	0 50	"	200 00		128	85-115			QL-2
Cadmium	51 645	0 25	"	50 000		103	85-115			
Lead	211 97	0 50	"	200 00		106	85-115			
Selenium	226 36	1 0	"	200 00		113	85-115			
Thallium	215 18	0 50	"	200 00		108	85-115			
LCS (2012024-BS2)				Prepared: 12/08/20 Analyzed: 12/28/20						
EPA 200.8										
Antimony	203 08	2 5	ug/L	200 00		102	85-115			
Arsenic	242 50	2 5	"	200 00		121	85-115			QL-2
Cadmium	50 505	1 2	"	50 000		101	85-115			
Lead	215 90	2 5	"	200 00		108	85-115			
Selenium	214 61	5 0	"	200 00		107	85-115			
Thallium	220 48	2 5	"	200 00		110	85-115			
Matrix Spike (2012024-MS1)		**Source: E204907-43**		Prepared: 12/08/20 Analyzed: 12/28/20						
EPA 200.8										
Antimony	206 48	0 50	ug/L	200 00	U	103	70-130			
Arsenic	251 39	0 50	"	200 00	U	126	70-130			
Cadmium	49 139	0 25	"	50 000	U	98 3	70-130			
Lead	208 60	0 50	"	200 00	U	104	70-130			
Selenium	221 15	1 0	"	200 00	U	111	70-130			
Thallium	214 14	0 50	"	200 00	U	107	70-130			
Matrix Spike (2012024-MS2)		**Source: E204907-43**		Prepared: 12/08/20 Analyzed: 12/28/20						
EPA 200.8										
Antimony	210 32	2 5	ug/L	200 00	U	105	70-130			
Arsenic	246 65	2 5	"	200 00	U	123	70-130			
Cadmium	48 885	1 2	"	50 000	U	97 8	70-130			
Lead	213 26	2 5	"	200 00	U	107	70-130			
Selenium	230 63	5 0	"	200 00	U	115	70-130			
Thallium	217 58	2 5	"	200 00	U	109	70-130			

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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D.A.R.T. Id: 21-0027
Project: 21-0027, Ore Knob FY21 - Reported by Floyd Wellborn

Total Metals (TMTL) - Quality Control
US-EPA, Region 4, LSASD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2012024 - M 200.2 Metals Water										
Matrix Spike Dup (2012024-MSD1)		**Source: E204907-43**		Prepared: 12/08/20 Analyzed: 12/28/20						
EPA 200.8										
Antimony	212 47	0 50	ug/L	200 00	U	106	70-130	2 86	20	
Arsenic	257 59	0 50	"	200 00	U	129	70-130	2 44	20	
Cadmium	50 240	0 25	"	50 000	U	100	70-130	2 21	20	
Lead	211 01	0 50	"	200 00	U	106	70-130	1 15	20	
Selenium	239 00	1 0	"	200 00	U	120	70-130	7 76	20	
Thallium	214 91	0 50	"	200 00	U	107	70-130	0 358	20	
Matrix Spike Dup (2012024-MSD2)		**Source: E204907-43**		Prepared: 12/08/20 Analyzed: 12/28/20						
EPA 200.8										
Antimony	203 45	2 5	ug/L	200 00	U	102	70-130	3 32	20	
Arsenic	247 83	2 5	"	200 00	U	124	70-130	0 479	20	
Cadmium	51 074	1 2	"	50 000	U	102	70-130	4 38	20	
Lead	218 17	2 5	"	200 00	U	109	70-130	2 28	20	
Selenium	219 11	5 0	"	200 00	U	110	70-130	5 12	20	
Thallium	220 05	2 5	"	200 00	U	110	70-130	1 13	20	
MRL Verification (2012024-PS1)				Prepared: 12/08/20 Analyzed: 12/28/20						
EPA 200.8										
Antimony	0 55545	0 50	ug/L	0 50000		111	65-135			MRL-1
Arsenic	1 3175	0 50	"	1 0000		132	65-135			MRL-1
Cadmium	0 47241	0 25	"	0 50000		94 5	65-135			MRL-1
Lead	1 1153	0 50	"	1 0000		112	65-135			MRL-1
Selenium	2 5462	1 0	"	2 0000		127	65-135			MRL-1
Thallium	0 56242	0 50	"	0 50000		112	65-135			MRL-1

Notes and Definitions for QC Samples

U	The analyte was not detected at or above the reporting limit.
B-3	Level in blank does not impact data quality
B-4	Level in blank impacts MRLs.
MRL-1	MRL verification for Potable Water matrix (Drinking Water)
MRL-2	MRL verification for Non-Potable Water matrix
QL-2	Laboratory Control Spike Recovery greater than method control limits
QR-1	MRL verification recovery less than lower control limits.
QR-2	MRL verification recovery greater than upper control limits.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 21-0027
Project: 21-0089, Ore Knob FY21 mob2 - Reported by Floyd Wellborn

March 5, 2021

MEMORANDUM

SUBJECT: FINAL Analytical Report
Project: 21-0089, Ore Knob FY21 Wob2

FROM: Floyd B ellborn
LSm Inorganic CheWistry Section Chief

THRU: Sandra Aker, Chief
Laboratory Services mranch

TO: mrian Striggow

This data report is being reissued. SoWe or all of these results were previously reported. Please substitute the corrected results for those results previously reported. Please refer to the Report Narrative for Wore details.

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 perforWed in accordance with the Laboratory Services mranch's Laboratory Operations and Quality Assurance Manual (LSm 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. CheWistry data have been verified based on the LSm LOQAM specifications and have been qualified by this laboratory if the applicable quality control criteria were not Wet. Verification is defined in Chapter 5 of the LSm 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 liWits of the Wethod(s) and are representative only of the saWples as received by the laboratory.

Analyses Included in this report:	Method Used:	Accreditations:
Total Metals (TMTL)		
Total Metals	EPA 200.8 (B ater)	ISO/DB
Total Metals	EPA 6010 (B ater)	ISO

Report Narrative for Work Order: E210502 Analysis: TMTL

3/5/21 FB Metals: These results are being reported again to correct an MRL reporting error in the previous report. Only the results for AntiWony, Arsenic, CadWiuW, Lead, SeleniuW and ThalliuW have been changed froW the original report. This report replaces the report E210502 TMTL FINAL 02 21 21 1631.

Sample Disposal Policy

Due to liWited space for long terW saWple storage, LSm's policy is to dispose of saWples on a periodic schedule. Air saWples collected in suWWa canisters will be disposed of 30 days following the issuance of this report. All other saWple Wedia including original saWples, saWple extracts and or digestates will be disposed of, in accordance with applicable regulations, 60 days froW the date of this report.

This saWple disposal policy does not apply to criWinal saWples which are held until the laboratory is notified by the criWinal investigators that case developWent and litigation are coWplete.

These saWples Way be held in the laboratory's custody for a longer period of tiWe. If saWples require storage beyond the 60-day period, please contact the SaWple Control Coordinator by e-Wail at R4SaWpleCustody@epa.gov.

cc: Nardina Turner

SAMPLES INCLUDED IN THIS REPORT

Project: 21-0089, Ore Knob FY21 mob2

Sample ID	Laboratory ID	Matrix	Date Collected	Date Received
PB 710-0121F	E210502-01	Potable B ater	1/25/21 15:25	1/27/21 8:00
PB 710-0121FS	E210502-02	Potable B ater	1/25/21 15:30	1/27/21 8:00
PB 710-0121R	E210502-03	Potable B ater	1/25/21 15:35	1/27/21 8:00

DATA QUALIFIER DEFINITIONS

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

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

QM-1 Matrix Spike Recovery less than Wethod control liWits

ACRONYMS AND ABBREVIATIONS

CAS CheWical 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 SysteW (www.epa.gov/srs), or beginning with "R4-", a unique identifier assigned by the EPA Region 4 laboratory.

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

MRL MiniWuW Reporting LiWit - Analyte concentration that corresponds to the lowest deWonstrated level of acceptable quantitation. The MRL is saWple-specific and accounts for preparation weights and voluWes, dilutions, and Woisture content of soil/sediWents.

TIC Tentatively Identified CoWpound - An analyte identified based on a Watch with the instruWent software's Wass spectral library. A calibration standard has not been analyzed to confirW the coWpound's identification or the estiWated concentration reported.

ACCREDITATIONS:

ISO Accredited to ISO/IEC 17025:2017 and accreditation requireWents 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-ecosysteW-support-division-sesd

NR Not accredited for this test.

DB Accredited for conforWance with ISO/IEC 17025:2017 and testing eleWents in the Fifth Edition of the Manual for the Certification of Laboratories Analyzing Drinking B ater, 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-ecosysteW-support-division-sesd

ISO/DB Accredited to ISO/IEC 17025:2017 and accreditation requireWents for Forensic Science Testing Labs, and conforWance with ISO/IEC 17025:2017 and testing eleWents in the Manual for the Certification of Laboratories Analyzing Drinking B ater.

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D.A.R.T. Id: 21-0027
Project: 21-0089, Ore Knob FY21 mob2 - Reported by Floyd Wellborn

Total Metals

Project: 21-0089, Ore Knob FY21 mob2

Sample ID: PW710-0121F
Station ID: OK710
Lab ID: E210502-01
Matrix: Potable Water

Date Collected: 1/25/21 15:25

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7429-90-5	AluWinuW	100	U	ug/L	100	2/03/21 11:17	2/10/21 12:42	EPA 6010
7440-36-0	AntiWony	0.50	U	ug/L	0.50	2/03/21 11:21	2/17/21 15:34	EPA 200 8
7440-38-2	Arsenic	0.50	U	ug/L	0.50	2/03/21 11:21	2/17/21 15:34	EPA 200 8
7440-39-3	mariuW	5.0	U	ug/L	5.0	2/03/21 11:17	2/10/21 12:42	EPA 6010
7440-41-7	merylliuW	3.0	U	ug/L	3.0	2/03/21 11:17	2/10/21 12:42	EPA 6010
7440-43-9	CadWiuW	0.25	U	ug/L	0.25	2/03/21 11:21	2/17/21 15:34	EPA 200 8
7440-70-2	CalciuW	250	U	ug/L	250	2/03/21 11:17	2/10/21 12:42	EPA 6010
7440-47-3	ChroWiuW	5.0	U	ug/L	5.0	2/03/21 11:17	2/10/21 12:42	EPA 6010
7440-48-4	Cobalt	5.0	U	ug/L	5.0	2/03/21 11:17	2/10/21 12:42	EPA 6010
7440-50-8	Copper	10	U	ug/L	10	2/03/21 11:17	2/10/21 12:42	EPA 6010
7439-89-6	Iron	100	U	ug/L	100	2/03/21 11:17	2/10/21 12:42	EPA 6010
7439-92-1	Lead	0.50	U	ug/L	0.50	2/03/21 11:21	2/17/21 15:34	EPA 200 8
7439-95-4	MagnesiuW	250	U	ug/L	250	2/03/21 11:17	2/10/21 12:42	EPA 6010
7439-96-5	Manganese	5.0	U	ug/L	5.0	2/03/21 11:17	2/10/21 12:42	EPA 6010
7439-98-7	MolybdenuW	10	U	ug/L	10	2/03/21 11:17	2/10/21 12:42	EPA 6010
7440-02-0	Nickel	10	U	ug/L	10	2/03/21 11:17	2/10/21 12:42	EPA 6010
7440-09-7	PotassiuW	1000	U	ug/L	1000	2/03/21 11:17	2/10/21 12:42	EPA 6010
7782-49-2	SeleniuW	1.0	U	ug/L	1.0	2/03/21 11:21	2/17/21 15:34	EPA 200 8
7440-22-4	Silver	5.0	U	ug/L	5.0	2/03/21 11:17	2/10/21 12:42	EPA 6010
7440-23-5	SodiuW	43000		ug/L	1000	2/03/21 11:17	2/10/21 12:42	EPA 6010
7440-24-6	StrontiuW	5.0	U	ug/L	5.0	2/03/21 11:17	2/10/21 12:42	EPA 6010
7440-28-0	ThalliuW	0.50	U	ug/L	0.50	2/03/21 11:21	2/17/21 15:34	EPA 200 8
7440-31-5	Tin	15	U	ug/L	15	2/03/21 11:17	2/10/21 12:42	EPA 6010
7440-32-6	TitaniuW	5.0	U	ug/L	5.0	2/03/21 11:17	2/10/21 12:42	EPA 6010
7440-62-2	VanadiuW	5.0	U	ug/L	5.0	2/03/21 11:17	2/10/21 12:42	EPA 6010
7440-65-5	YttriuW	3.0	U	ug/L	3.0	2/03/21 11:17	2/10/21 12:42	EPA 6010
7440-66-6	Zinc	10	U	ug/L	10	2/03/21 11:17	2/10/21 12:42	EPA 6010

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 21-0027
Project: 21-0089, Ore Knob FY21 mob2 - Reported by Floyd Wellborn

Total Metals

Project: 21-0089, Ore Knob FY21 mob2

Sample ID: PW710-0121FS
Station ID: OK710
Lab ID: E210502-02
Matrix: Potable Water

Date Collected: 1/25/21 15:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7429-90-5	AluWinuW	100	U	ug/L	100	2/03/21 11:17	2/10/21 12:45	EPA 6010
7440-36-0	AntiWony	0.50	U	ug/L	0.50	2/03/21 11:21	2/17/21 15:40	EPA 200 8
7440-38-2	Arsenic	0.50	U	ug/L	0.50	2/03/21 11:21	2/17/21 15:40	EPA 200 8
7440-39-3	mariuW	5.0	U	ug/L	5.0	2/03/21 11:17	2/10/21 12:45	EPA 6010
7440-41-7	merylliuW	3.0	U	ug/L	3.0	2/03/21 11:17	2/10/21 12:45	EPA 6010
7440-43-9	CadWiuW	0.25	U	ug/L	0.25	2/03/21 11:21	2/17/21 15:40	EPA 200 8
7440-70-2	CalciuW	250	U	ug/L	250	2/03/21 11:17	2/10/21 12:45	EPA 6010
7440-47-3	ChroWiuW	5.0	U	ug/L	5.0	2/03/21 11:17	2/10/21 12:45	EPA 6010
7440-48-4	Cobalt	5.0	U	ug/L	5.0	2/03/21 11:17	2/10/21 12:45	EPA 6010
7440-50-8	Copper	10	U	ug/L	10	2/03/21 11:17	2/10/21 12:45	EPA 6010
7439-89-6	Iron	100	U	ug/L	100	2/03/21 11:17	2/10/21 12:45	EPA 6010
7439-92-1	Lead	0.50	U	ug/L	0.50	2/03/21 11:21	2/17/21 15:40	EPA 200 8
7439-95-4	MagnesiuW	250	U	ug/L	250	2/03/21 11:17	2/10/21 12:45	EPA 6010
7439-96-5	Manganese	5.0	U	ug/L	5.0	2/03/21 11:17	2/10/21 12:45	EPA 6010
7439-98-7	MolybdenuW	10	U	ug/L	10	2/03/21 11:17	2/10/21 12:45	EPA 6010
7440-02-0	Nickel	10	U	ug/L	10	2/03/21 11:17	2/10/21 12:45	EPA 6010
7440-09-7	PotassiuW	1000	U	ug/L	1000	2/03/21 11:17	2/10/21 12:45	EPA 6010
7782-49-2	SeleniuW	1.0	U	ug/L	1.0	2/03/21 11:21	2/17/21 15:40	EPA 200 8
7440-22-4	Silver	5.0	U	ug/L	5.0	2/03/21 11:17	2/10/21 12:45	EPA 6010
7440-23-5	SodiuW	45000	J, QM-1	ug/L	1000	2/03/21 11:17	2/10/21 12:45	EPA 6010
7440-24-6	StrontiuW	5.0	U	ug/L	5.0	2/03/21 11:17	2/10/21 12:45	EPA 6010
7440-28-0	ThalliuW	0.50	U	ug/L	0.50	2/03/21 11:21	2/17/21 15:40	EPA 200 8
7440-31-5	Tin	15	U	ug/L	15	2/03/21 11:17	2/10/21 12:45	EPA 6010
7440-32-6	TitaniuW	5.0	U	ug/L	5.0	2/03/21 11:17	2/10/21 12:45	EPA 6010
7440-62-2	VanadiuW	5.0	U	ug/L	5.0	2/03/21 11:17	2/10/21 12:45	EPA 6010
7440-65-5	YttriuW	3.0	U	ug/L	3.0	2/03/21 11:17	2/10/21 12:45	EPA 6010
7440-66-6	Zinc	10	U	ug/L	10	2/03/21 11:17	2/10/21 12:45	EPA 6010

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
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980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 21-0027
Project: 21-0089, Ore Knob FY21 mob2 - Reported by Floyd Wellborn

Total Metals

Project: 21-0089, Ore Knob FY21 mob2

Sample ID: PW710-0121R
Station ID: OK710
Lab ID: E210502-03
Matrix: Potable Water

Date Collected: 1/25/21 15:35

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
7429-90-5	AluWinuW	100	U	ug/L	100	2/03/21 11:17	2/10/21 12:53	EPA 6010
7440-36-0	AntiWony	0.50	U	ug/L	0.50	2/03/21 11:21	2/17/21 16:11	EPA 200 8
7440-38-2	Arsenic	0.50	U	ug/L	0.50	2/03/21 11:21	2/17/21 16:11	EPA 200 8
7440-39-3	mariuW	5.0	U	ug/L	5.0	2/03/21 11:17	2/10/21 12:53	EPA 6010
7440-41-7	merylliuW	3.0	U	ug/L	3.0	2/03/21 11:17	2/10/21 12:53	EPA 6010
7440-43-9	CadWiuW	0.25	U	ug/L	0.25	2/03/21 11:21	2/17/21 16:11	EPA 200 8
7440-70-2	CalciuW	700		ug/L	250	2/03/21 11:17	2/10/21 12:53	EPA 6010
7440-47-3	ChroWiuW	5.0	U	ug/L	5.0	2/03/21 11:17	2/10/21 12:53	EPA 6010
7440-48-4	Cobalt	5.0	U	ug/L	5.0	2/03/21 11:17	2/10/21 12:53	EPA 6010
7440-50-8	Copper	10	U	ug/L	10	2/03/21 11:17	2/10/21 12:53	EPA 6010
7439-89-6	Iron	100	U	ug/L	100	2/03/21 11:17	2/10/21 12:53	EPA 6010
7439-92-1	Lead	0.50	U	ug/L	0.50	2/03/21 11:21	2/17/21 16:11	EPA 200 8
7439-95-4	MagnesiuW	250	U	ug/L	250	2/03/21 11:17	2/10/21 12:53	EPA 6010
7439-96-5	Manganese	42		ug/L	5.0	2/03/21 11:17	2/10/21 12:53	EPA 6010
7439-98-7	MolybdenuW	10	U	ug/L	10	2/03/21 11:17	2/10/21 12:53	EPA 6010
7440-02-0	Nickel	10	U	ug/L	10	2/03/21 11:17	2/10/21 12:53	EPA 6010
7440-09-7	PotassiuW	1000	U	ug/L	1000	2/03/21 11:17	2/10/21 12:53	EPA 6010
7782-49-2	SeleniuW	1.0	U	ug/L	1.0	2/03/21 11:21	2/17/21 16:11	EPA 200 8
7440-22-4	Silver	5.0	U	ug/L	5.0	2/03/21 11:17	2/10/21 12:53	EPA 6010
7440-23-5	SodiuW	3300		ug/L	1000	2/03/21 11:17	2/10/21 12:53	EPA 6010
7440-24-6	StrontiuW	5.0	U	ug/L	5.0	2/03/21 11:17	2/10/21 12:53	EPA 6010
7440-28-0	ThalliuW	0.50	U	ug/L	0.50	2/03/21 11:21	2/17/21 16:11	EPA 200 8
7440-31-5	Tin	15	U	ug/L	15	2/03/21 11:17	2/10/21 12:53	EPA 6010
7440-32-6	TitaniuW	5.0	U	ug/L	5.0	2/03/21 11:17	2/10/21 12:53	EPA 6010
7440-62-2	VanadiuW	5.0	U	ug/L	5.0	2/03/21 11:17	2/10/21 12:53	EPA 6010
7440-65-5	YttriuW	3.0	U	ug/L	3.0	2/03/21 11:17	2/10/21 12:53	EPA 6010
7440-66-6	Zinc	10	U	ug/L	10	2/03/21 11:17	2/10/21 12:53	EPA 6010

Total Metals (TMTL) - Quality Control

US-EPA, Region 4, LSASD

Analyte	Result	Reporting LiWit	Units	Spike Level	Source Result	%REC	%REC LiWits	RPD	RPD LiWit	Notes
Batch 2102015 - M 200.2 Metals Water										
Blank (2102015-BLK1)				Prepared: 02/03/21 Analyzed: 02/10/21						
EPA 6010										
AluWinuW	U	100	ug/L							U
mariuW	U	5 0	"							U
merylliuW	U	3 0	"							U
CalciuW	U	250	"							U
ChroWiuW	U	5 0	"							U
Cobalt	U	5 0	"							U
Copper	U	10	"							U
Iron	U	100	"							U
MagnesiuW	U	250	"							U
Manganese	U	5 0	"							U
MolybdenuW	U	10	"							U
Nickel	U	10	"							U
PotassiuW	U	1000	"							U
Silver	U	5 0	"							U
SodiuW	U	1000	"							U
StrontiuW	U	5 0	"							U
Tin	U	15	"							U
TitaniuW	U	5 0	"							U
VanadiuW	U	5 0	"							U
YttriuW	U	3 0	"							U
Zinc	U	10	"							U
LCS (2102015-BS1)				Prepared: 02/03/21 Analyzed: 02/10/21						
EPA 6010										
AluWinuW	4744 6	100	ug/L	5000 0		94 9	85-115			
mariuW	202 17	5 0	"	200 00		101	85-115			
merylliuW	48 888	3 0	"	50 000		97 8	85-115			
CalciuW	4778 8	250	"	5000 0		95 6	85-115			
ChroWiuW	189 23	5 0	"	200 00		94 6	85-115			
Cobalt	96 553	5 0	"	100 00		96 6	85-115			
Copper	105 67	10	"	100 00		106	85-115			
Iron	5038 8	100	"	5000 0		101	85-115			
MagnesiuW	4810 6	250	"	5000 0		96 2	85-115			
Manganese	492 50	5 0	"	500 00		98 5	85-115			
MolybdenuW	98 541	10	"	100 00		98 5	85-115			
Nickel	198 16	10	"	200 00		99 1	85-115			
PotassiuW	9495 0	1000	"	10000		95 0	85-115			
Silver	97 929	5 0	"	100 00		97 9	85-115			
SodiuW	9689 9	1000	"	10000		96 9	85-115			

Total Metals (TMTL) - Quality Control

US-EPA, Region 4, LSASD

Analyte	Result	Reporting LiWt	Units	Spike Level	Source Result	%REC	%REC LiWts	RPD	RPD LiWt	Notes
Batch 2102015 - M 200.2 Metals Water										
LCS (2102015-BS1)				Prepared: 02/03/21 Analyzed: 02/10/21						
StrontiuW	99 121	5 0	ug/L	100 00		99 1	85-115			
Tin	96 936	15	"	100 00		96 9	85-115			
TitaniuW	101 81	5 0	"	100 00		102	85-115			
VanadiuW	98 131	5 0	"	100 00		98 1	85-115			
YttriuW	96 284	3 0	"	100 00		96 3	85-115			
Zinc	199 34	10	"	200 00		99 7	85-115			
Matrix Spike (2102015-MS1)		**Source: E210502-02**		Prepared: 02/03/21 Analyzed: 02/10/21						
EPA 6010										
AluWinuW	4641 6	100	ug/L	5000 0	U	92 8	75-125			
mariuW	199 23	5 0	"	200 00	1 2320	99 0	75-125			
merylliuW	49 159	3 0	"	50 000	U	98 3	75-125			
CalciuW	4854 3	250	"	5000 0	127 90	94 5	75-125			
ChroWiuW	189 28	5 0	"	200 00	U	94 6	75-125			
Cobalt	95 743	5 0	"	100 00	U	95 7	75-125			
Copper	102 42	10	"	100 00	U	102	75-125			
Iron	4988 1	100	"	5000 0	U	99 8	75-125			
MagnesiuW	4734 2	250	"	5000 0	U	94 7	75-125			
Manganese	492 67	5 0	"	500 00	4 3983	97 7	75-125			
MolybdenuW	98 501	10	"	100 00	U	98 5	75-125			
Nickel	196 34	10	"	200 00	U	98 2	75-125			
PotassiuW	9233 8	1000	"	10000	U	92 3	75-125			
Silver	99 976	5 0	"	100 00	U	100	75-125			
SodiuW	53562	1000	"	10000	44696	88 7	75-125			
StrontiuW	96 403	5 0	"	100 00	U	96 4	75-125			
Tin	92 344	15	"	100 00	U	92 3	75-125			
TitaniuW	98 300	5 0	"	100 00	0 56697	97 7	75-125			
VanadiuW	97 638	5 0	"	100 00	U	97 6	75-125			
YttriuW	95 326	3 0	"	100 00	U	95 3	75-125			
Zinc	204 87	10	"	200 00	1 3610	102	75-125			

Total Metals (TMTL) - Quality Control

US-EPA, Region 4, LSASD

Analyte	Result	Reporting LiWt	Units	Spike Level	Source Result	%REC	%REC LiWts	RPD	RPD LiWt	Notes
Batch 2102015 - M 200.2 Metals Water										
Matrix Spike Dup (2102015-MSD1)		**Source: E210502-02**		Prepared: 02/03/21 Analyzed: 02/10/21						
EPA 6010										
AluWinuW	4562 7	100	ug/L	5000 0	U	91 3	75-125	1 71	20	
mariuW	201 32	5 0	"	200 00	1 2320	100	75-125	1 04	20	
merylliuW	49 312	3 0	"	50 000	U	98 6	75-125	0 311	20	
CalciuW	4893 9	250	"	5000 0	127 90	95 3	75-125	0 813	20	
ChroWiuW	188 63	5 0	"	200 00	U	94 3	75-125	0 348	20	
Cobalt	94 833	5 0	"	100 00	U	94 8	75-125	0 955	20	
Copper	100 58	10	"	100 00	U	101	75-125	1 81	20	
Iron	4969 7	100	"	5000 0	U	99 4	75-125	0 369	20	
MagnesiuW	4687 9	250	"	5000 0	U	93 8	75-125	0 982	20	
Manganese	492 48	5 0	"	500 00	4 3983	97 6	75-125	0 0399	20	
MolybdenuW	97 950	10	"	100 00	U	97 9	75-125	0 561	20	
Nickel	194 99	10	"	200 00	U	97 5	75-125	0 689	20	
PotassiuW	9104 6	1000	"	10000	U	91 0	75-125	1 41	20	
Silver	99 712	5 0	"	100 00	U	99 7	75-125	0 265	20	
SodiuW	51588	1000	"	10000	44696	68 9	75-125	3 75	20	QM-1
StrontiuW	93 603	5 0	"	100 00	U	93 6	75-125	2 95	20	
Tin	92 163	15	"	100 00	U	92 2	75-125	0 196	20	
TitaniuW	97 475	5 0	"	100 00	0 56697	96 9	75-125	0 843	20	
VanadiuW	96 508	5 0	"	100 00	U	96 5	75-125	1 16	20	
YttriuW	94 099	3 0	"	100 00	U	94 1	75-125	1 30	20	
Zinc	205 75	10	"	200 00	1 3610	102	75-125	0 428	20	
MRL Verification (2102015-PS1)				Prepared: 02/03/21 Analyzed: 02/10/21						
EPA 6010										
AluWinuW	97 987	100	ug/L	100 00		98 0	70-130			MRL-2, U
mariuW	4 6326	5 0	"	5 0000		92 7	70-130			MRL-2, U
merylliuW	2 8218	3 0	"	3 0000		94 1	70-130			MRL-2, U
CalciuW	238 76	250	"	250 00		95 5	70-130			MRL-2, U
ChroWiuW	5 0446	5 0	"	5 0000		101	70-130			MRL-2
Cobalt	4 6950	5 0	"	5 0000		93 9	70-130			MRL-2, U
Copper	11 998	10	"	10 000		120	70-130			MRL-2
Iron	96 194	100	"	100 00		96 2	70-130			MRL-2, U
MagnesiuW	241 38	250	"	250 00		96 6	70-130			MRL-2, U
Manganese	4 8312	5 0	"	5 0000		96 6	70-130			MRL-2, U

Total Metals (TMTL) - Quality Control

US-EPA, Region 4, LSASD

Analyte	Result	Reporting LiWit	Units	Spike Level	Source Result	%REC	%REC LiWits	RPD	RPD LiWit	Notes
Batch 2102015 - M 200.2 Metals Water										
MRL Verification (2102015-PS1)				Prepared: 02/03/21 Analyzed: 02/10/21						
MolybdenuW	9 3473	10	ug/L	10 000		93 5	70-130			MRL-2, U
Nickel	9 6065	10	"	10 000		96 1	70-130			MRL-2, U
PotassiuW	915 19	1000	"	1000 0		91 5	70-130			MRL-2, U
Silver	5 0687	5 0	"	5 0000		101	70-130			MRL-2
SodiuW	884 90	1000	"	1000 0		88 5	70-130			MRL-2, U
StrontiuW	4 6636	5 0	"	5 0000		93 3	70-130			MRL-2, U
Tin	12 915	15	"	15 000		86 1	70-130			MRL-2, U
TitaniuW	4 8204	5 0	"	5 0000		96 4	70-130			MRL-2, U
VanadiuW	4 9448	5 0	"	5 0000		98 9	70-130			MRL-2, U
YttriuW	3 0655	3 0	"	3 0000		102	70-130			MRL-2
Zinc	9 4013	10	"	10 000		94 0	70-130			MRL-2, U
Batch 2103030 - M 200.2 Metals Water										
Blank (2103030-BLK1)				Prepared: 02/03/21 Analyzed: 02/17/21						
EPA 200.8										
AntiWony	U	0 50	ug/L							U
Arsenic	U	0 50	"							U
CadWiuW	U	0 25	"							U
Lead	U	0 50	"							U
SeleniuW	U	1 0	"							m-3, U
ThalliuW	U	0 50	"							U
LCS (2103030-BS1)				Prepared: 02/03/21 Analyzed: 02/17/21						
EPA 200.8										
AntiWony	192 55	0 50	ug/L	200 00		96 3	85-115			
Arsenic	211 63	0 50	"	200 00		106	85-115			
CadWiuW	49 154	0 25	"	50 000		98 3	85-115			
Lead	190 27	0 50	"	200 00		95 1	85-115			
SeleniuW	215 12	1 0	"	200 00		108	85-115			
ThalliuW	187 42	0 50	"	200 00		93 7	85-115			

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 21-0027
Project: 21-0089, Ore Knob FY21 mob2 - Reported by Floyd Wellborn

Total Metals (TMTL) - Quality Control
US-EPA, Region 4, LSASD

Analyte	Result	Reporting LiWt	Units	Spike Level	Source Result	%REC	%REC LiWts	RPD	RPD LiWt	Notes
Batch 2103030 - M 200.2 Metals Water										
LCS (2103030-BS2)				Prepared: 02/03/21 Analyzed: 02/17/21						
EPA 200.8										
AntiWony	190 20	2 5	ug/L	200 00		95 1	85-115			
Arsenic	184 42	2 5	"	200 00		92 2	85-115			
CadWiuW	47 558	1 2	"	50 000		95 1	85-115			
Lead	196 69	2 5	"	200 00		98 3	85-115			
SeleniuW	181 97	5 0	"	200 00		91 0	85-115			
ThalliuW	192 50	2 5	"	200 00		96 3	85-115			
Matrix Spike (2103030-MS1)		**Source: E210502-02RE1**		Prepared: 02/03/21 Analyzed: 02/17/21						
EPA 200.8										
AntiWony	192 15	0 50	ug/L	200 00	U	96 1	70-130			
Arsenic	207 22	0 50	"	200 00	U	104	70-130			
CadWiuW	47 052	0 25	"	50 000	U	94 1	70-130			
Lead	184 45	0 50	"	200 00	0 13311	92 2	70-130			
SeleniuW	193 41	1 0	"	200 00	U	96 7	70-130			
ThalliuW	180 33	0 50	"	200 00	U	90 2	70-130			
Matrix Spike (2103030-MS2)		**Source: E210502-02RE1**		Prepared: 02/03/21 Analyzed: 02/17/21						
EPA 200.8										
AntiWony	188 51	2 5	ug/L	200 00	U	94 3	70-130			
Arsenic	189 25	2 5	"	200 00	U	94 6	70-130			
CadWiuW	49 395	1 2	"	50 000	U	98 8	70-130			
Lead	191 55	2 5	"	200 00	U	95 8	70-130			
SeleniuW	186 82	5 0	"	200 00	U	93 4	70-130			
ThalliuW	186 54	2 5	"	200 00	U	93 3	70-130			
Matrix Spike Dup (2103030-MSD1)		**Source: E210502-02RE1**		Prepared: 02/03/21 Analyzed: 02/17/21						
EPA 200.8										
AntiWony	188 82	0 50	ug/L	200 00	U	94 4	70-130	1 75	20	
Arsenic	201 82	0 50	"	200 00	U	101	70-130	2 64	20	
CadWiuW	45 954	0 25	"	50 000	U	91 9	70-130	2 36	20	
Lead	177 13	0 50	"	200 00	0 13311	88 5	70-130	4 05	20	
SeleniuW	191 26	1 0	"	200 00	U	95 6	70-130	1 12	20	
ThalliuW	173 28	0 50	"	200 00	U	86 6	70-130	3 99	20	

Total Metals (TMTL) - Quality Control

US-EPA, Region 4, LSASD

Analyte	Result	Reporting LiWit	Units	Spike Level	Source Result	%REC	%REC LiWits	RPD	RPD LiWit	Notes
Batch 2103030 - M 200.2 Metals Water										
Matrix Spike Dup (2103030-MSD2)		**Source: E210502-02RE1**		Prepared: 02/03/21 Analyzed: 02/17/21						
EPA 200.8										
AntiWony	179 90	2 5	ug/L	200 00	U	89 9	70-130	4 67	20	
Arsenic	177 37	2 5	"	200 00	U	88 7	70-130	6 48	20	
CadWiuW	45 439	1 2	"	50 000	U	90 9	70-130	8 34	20	
Lead	182 27	2 5	"	200 00	U	91 1	70-130	4 97	20	
SeleniuW	177 96	5 0	"	200 00	U	89 0	70-130	4 86	20	
ThalliuW	178 28	2 5	"	200 00	U	89 1	70-130	4 53	20	
MRL Verification (2103030-PS1)				Prepared: 02/03/21 Analyzed: 02/17/21						
EPA 200.8										
AntiWony	0 59104	0 50	ug/L	0 50000		118	65-135			MRL-1
Arsenic	1 0182	0 50	"	1 0000		102	65-135			MRL-1
CadWiuW	0 52698	0 25	"	0 50000		105	65-135			MRL-1
Lead	1 0492	0 50	"	1 0000		105	65-135			MRL-1
SeleniuW	2 3564	1 0	"	2 0000		118	65-135			MRL-1
ThalliuW	0 51857	0 50	"	0 50000		104	65-135			MRL-1

Notes and Definitions for QC Samples

U	The analyte was not detected at or above the reporting liWit.
m-3	Level in blank does not iWpact data quality
MRL-1	MRL verification for Potable B ater Watrix (Drinking B ater)
MRL-2	MRL verification for Non-Potable B ater Watrix
QM-1	Matrix Spike Recovery less than Wethod control liWits

Appendix D

Logbook Scans

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United States Environmental Protection Agency
Region 4
Science and Ecosystem Support Division
980 College Station Road
Athens, Georgia 30605-2720

11/16
708
711
707
11/17
709
722
720 MS
736
703
713
727
713 MSD
723
739
706
11/18
729B
710
712 MS/D
702
11/19
762
737
724
752 MS/D
map 2
1/25/21
710

ORE KNOB MINE SITE ANNUAL PRIVATE WELL SAMPLING (FY21)
JEFFERSON, NORTH CAROLINA
SESD PROJECT ID #: 21-0027
BRIAN STRIGGOW, PROJECT LEADER

FIELD SAMPLING AND MEASUREMENT LOGBOOK

Book 1 **of** 2
Inclusive Dates: 11-16-20 → 1-25-21

List of personnel in logbook:

Name	Initials	Organization/Duties
B. Striggow	BCS	,Team Leader
M. Grieve		

SESD Operating Procedures to be used at each station:

Measurement Procedures

SESDPROC-100-R4 Field pH Measurement
SESDPROC-101-R6 Field Specific Conductance Measurement
SESDPROC-102-R4 Field Temperature Measurement
SESDPROC-103-R4 Field Turbidity Measurement
SESDPROC-110-R4 Global Positioning System

Environmental/Waste Sampling Procedures

SESDPROC-305-R3 Potable Water Supply Sampling

Deviations or additional procedures used to be noted in logbook.

Instruments Used:

Date Range	Parameters (eg pH, cond, Temp)	Instrument #(eg 1,2,3)
11/16/20 →	Turb	1
11/16/20 →	ph SC Temp	2

NOTE: Key to instrument numbers and instrument calibration maintained in separate instrument calibration logbook.

General Notes, etc.

Station ID: OK708 Sample ID: PW708-1120F Date: 11-16-20

Sample Team: B Stringow or Init. _____

M. Grieve or Init. _____

_____ or Init. _____

Address/Home description: (b) (6) [redacted]

Other Procedures, if applicable: _____

Specific Sampling Procedure/Method Used: Purge + sample from basement kitchen tap

Description of Media/Sample: Clear odorless water

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

Treatment system (Brand/Model/Desc): Whirlpool

Programmed Hardness: 30 Salt Bin Level: 8

Purge Parameters (continue on grid below, if necessary)					
Time	pH (S.U.s)	Spec. Cond. (µmhos/cm)	Temp (° Cent.)	Turbididty (NTUs)	Notes
15:00					*Purge Started*
15:30	5.52	120.7	12.8	1.23	
15:40	5.49	120.1	12.9	0.76	
15:45	5.44	117.6	12.8	0.75	
15:45					*Sample Collection Time*

RO Sample Name: PW708-1120R RO Sample Time: _____

Time	pH (S.U.s)	Spec. Cond. (µmhos/cm)	Temp (° Cent.)	Turbididty (NTUs)	Notes
15:45					*Purge Started*
15:45	5.13	22.67	17.0	0.18	
15:50					*Sample Collection Time*

Field Split: *Yes / No* Split Sample ID, Time: _____

Analyte	Containers	Field	Split	RO	Preservation
Metals	1 Liter poly	1		1	HNO3, pH<2

MS/MSD? Y or N (circled above)

Notes: Turn on 2 water valves adjacent to sed filter in utility room off basement bath.
Purge + sample fm kitchen tap in basement
Opened w/ key fm M. Mullette. Relocked

Station ID: OK711 Sample ID: PW 711-0420F Date: 11-16-20

Sample Team: _____ or Init. BCS

M. Grieve or Init. _____

_____ or Init. _____

Address/Home description: (b) (6) [redacted]

Other Procedures, if applicable: _____

Specific Sampling Procedure/Method Used: Purge & sample fm kitchen tap

Description of Media/Sample: Clear odorless water

Other pertinent information (weather conditions, etc.): Sunny, cool

Treatment system (Brand/Model/Desc): Whirlpool

Programmed Hardness: 95 Salt Bin Level: 6/8

Purge Parameters (continue on grid below, if necessary)

Time	pH (S.U.s)	Spec. Cond. (µmhos/cm)	Temp (° Cent.)	Turbididty (NTUs)	Notes
16:05					*Purge Started*
16:10	4.93	815.5	13.6	0.19	
16:15	5.18	813.8	13.7	0.22	
16:20	5.28	774.1	13.5	0.19	
16:25	5.31	748.9	13.1	0.16	
16:30					*Sample Collection Time*

RO Sample Name: _____ **RO Sample Time:** _____

Time	pH (S.U.s)	Spec. Cond. (µmhos/cm)	Temp (° Cent.)	Turbididty (NTUs)	Notes
16:30					*Purge Started*
16:30	5.46	62.78	14.5	1.50	
16:35					*Sample Collection Time*

Field Split: *Yes / No* **Split Sample ID, Time:** _____

Analyte	Containers	Field	Split	RO	Preservation
Metals	1 Liter poly	/		/	HNO3, pH<2

MS/MSD? Y or N (circled above)

Notes: Home opened w/ key fm Mark Mullette. Locked up & key returned.

Station ID: OK707 Sample ID: PW707-1120F Date: 11-16-20

Sample Team: _____ or Init. BCS

M. Grieve or Init. _____

_____ or Init. _____

Address/Home description: (b) (6) [redacted]

Other Procedures, if applicable: _____

Specific Sampling Procedure/Method Used: Purge & Sample fm Kitchen Sink

Description of Media/Sample: Clear Odorless water

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

Treatment system (Brand/Model/Desc): MacClean

Programmed Hardness: _____ Salt Bin Level: ~ 1/3

Purge Parameters (continue on grid below, if necessary)

Time	pH (S.U.s)	Spec. Cond. (µmhos/cm)	Temp (° Cent.)	Turbididty (NTUs)	Notes
16:40					*Purge Started*
16:45	6.38	471.2	33.4	1.73	
16:50	6.45	473.1	33.7	0.50	Turn hot water off
16:55	6.42	475.9	16.9	0.32	
17:00	6.40	475.4	16.5	0.41	
17:05					*Sample Collection Time*

RO Sample Name: PW707-1120R **RO Sample Time:** _____

Time	pH (S.U.s)	Spec. Cond. (µmhos/cm)	Temp (° Cent.)	Turbididty (NTUs)	Notes
17:05					*Purge Started*
17:05	5.96	19.10	18.2	0.21	
17:10					*Sample Collection Time*

Field Split: *Yes / No* **Split Sample ID, Time:** _____

Analyte	Containers	Field	Split	RO	Preservation
Metals	1 Liter poly	/		/	HNO3, pH<2

MS/MSD? Y or N (circled above)

Notes: home in use

Station ID: OK709 Sample ID: PW709-1120F Date: 11-17-20

Sample Team: _____ or Init. BCS

M. Grieve or Init. _____

_____ or Init. _____

Address/Home description: _____

Other Procedures, if applicable: _____

Specific Sampling Procedure/Method Used: Purge & Sample for Kitchen tap

Description of Media/Sample: Clear odorless water

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

Treatment system (Brand/Model/Desc): Whirlpool

Programmed Hardness: 70 Salt Bin Level: 6/8

Purge Parameters (continue on grid below, if necessary)					
Time	pH (S.U.s)	Spec. Cond. (µmhos/cm)	Temp (° Cent.)	Turbididty (NTUs)	Notes
9:00					*Purge Started*
9:05	5.36	390.7	15.1	0.68	
9:10	5.12	390.4	14.3	0.73	
9:15	5.08	391.5	13.4	0.54	
9:20	5.02	395.6	13.0	0.56	
9:25					*Sample Collection Time*

RO Sample Name: _____ RO Sample Time: _____					
Time	pH (S.U.s)	Spec. Cond. (µmhos/cm)	Temp (° Cent.)	Turbididty (NTUs)	Notes
9:25					*Purge Started*
9:25	5.86	57.07	15.5	1.00	
9:30					*Sample Collection Time*

Field Split: *Yes / No* **Split Sample ID, Time:** _____

Analyte	Containers	Field	Split	RO	Preservation
Metals	1 Liter poly	1		1	HNO3, pH<2

MS/MSD? Y or N (circled above)

Notes: home in use

Station ID: OK722 Sample ID: PW722-1120 Date: 11-17-2

Sample Team: _____ or Init. BCS

M. Grieve orInit. _____

_____ or Init. _____

Address/Home description: (b) (6) [redacted]

Other Procedures, if applicable: _____

Specific Sampling Procedure/Method Used: Purge & Sample for Springhouse overflow

Description of Media/Sample: Clear odorless water

Other pertinent information (weather conditions, etc.): Cold windy, Sunny

Treatment system (Brand/Model/Desc): Whirlpool BCS 11-17

Programmed Hardness: 25 BCS 11-17 Salt Bin Level: 2/8

Purge Parameters (continue on grid below, if necessary)					
Time	pH (S.U.s)	Spec. Cond. (µmhos/cm)	Temp (° Cent.)	Turbididty (NTUs)	Notes
Constant					*Purge Started*
10:05	5.58	47.62	12.4	0.17	
10:10	5.74	46.21	12.5	0.16	
10:15	5.68	46.7	12.5	0.16	
10:20	5.65	46.15	12.6	0.16	
10:25					*Sample Collection Time*

RO Sample Name: _____ RO Sample Time: _____					
Time	pH (S.U.s)	Spec. Cond. (µmhos/cm)	Temp (° Cent.)	Turbididty (NTUs)	Notes
					Purge Started
					Sample Collection Time

Field Split: (Yes)/ No Split Sample ID, Time: PW722-1120S

Analyte	Containers	Field	Split	RO	Preservation
Metals	1 Liter poly	1	1		HNO3, pH<2

MS/MSD? Y or N (circled above)

Notes: Door found locked on 11-17. Will return. BCS 11-17

Station ID: OK720 **Sample ID:** PW720-1120 **Date:** 11-17-20

Sample Team: _____ **or Init.** BCS

M. Grieve **orInit.** _____

_____ **or Init.** _____

Address/Home description: (b) (6) [redacted]

Other Procedures, if applicable: _____

Specific Sampling Procedure/Method Used: Purge & Sample from outside tap

Description of Media/Sample: Clear odorless water

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

Treatment system (Brand/Model/Desc): _____

Programmed Hardness: _____ **Salt Bin Level:** _____

Purge Parameters (continue on grid below, if necessary)					
Time	**pH (S.U.s)**	**Spec. Cond. (µmhos/cm)**	**Temp (° Cent.)**	**Turbididty (NTUs)**	**Notes**
10:37					***Purge Started***
10:47	6.55	~~166.2~~ 171.9	12.5	0.16	
10:52	6.66	171.8	12.8	0.18	
10:57	6.70	171.6	12.9	0.38	
11:02	6.71	171.7	12.9	0.29	
11:05					***Sample Collection Time***

RO Sample Name: _____ RO Sample Time: _____					
Time	**pH (S.U.s)**	**Spec. Cond. (µmhos/cm)**	**Temp (° Cent.)**	**Turbididty (NTUs)**	**Notes**
					Purge Started
					Sample Collection Time

Field Split: *Yes / No* **Split Sample ID, Time:** _____

Analyte	Containers	Field	Split	RO	Preservation
Metals	**1 Liter poly**				**HNO3, pH<2**

MS/MSD? Y or N (circled above)

Notes: Home unoccupied

Station ID: OG 736 Sample ID: PW 736-1120 Date: 11-17-20

Sample Team: _____ or Init. BCS

M Greene or Init. _____

_____ or Init. _____

Address/Home description: (b) (6) [redacted]

Other Procedures, if applicable: _____

Specific Sampling Procedure/Method Used: Purge & Sample from wellhead hydrant

Description of Media/Sample: Clear odorless water

Other pertinent information (weather conditions, etc.): Cold, windy, snow

Treatment system (Brand/Model/Desc): n/a

Programmed Hardness: _____ Salt Bin Level: _____

Purge Parameters (continue on grid below, if necessary)					
Time	pH (S.U.s)	Spec. Cond. (µmhos/cm)	Temp (° Cent.)	Turbididty (NTUs)	Notes
11:11					*Purge Started*
11:16	5.67	48.41	13.8	0.20	
11:21	5.45	48.40	14.5	0.27	
11:26	5.45	48.25	14.0	0.37	
11:31	5.45	48.19	14.0	0.35	
11:35					*Sample Collection Time*

RO Sample Name: _____ RO Sample Time: _____

Time	pH (S.U.s)	Spec. Cond. (µmhos/cm)	Temp (° Cent.)	Turbididty (NTUs)	Notes
					Purge Started
					Sample Collection Time

Field Split: *Yes / No* **Split Sample ID, Time:** _____

Analyte	Containers	Field	Split	RO	Preservation
Metals	1 Liter poly	1			HNO3, pH<2

MS/MSD? Y or N (circled above)

Notes: Home occupied

Station ID: OK703 Sample ID: PW703-1120 Date: 11-17-20

Sample Team: _____ or Init. BCS

M. Greve orInit. _____

_____ or Init. _____

Address/Home description: (b) (6) [redacted]

Other Procedures, if applicable: _____

Specific Sampling Procedure/Method Used: Purge & Sample from Spring house overflow

Description of Media/Sample: Clear odorless water

Other pertinent information (weather conditions, etc.): Cool, windy

Treatment system (Brand/Model/Desc): na

Programmed Hardness: _____ Salt Bin Level: _____

Purge Parameters (continue on grid below, if necessary)					
Time	pH (S.U.s)	Spec. Cond. (µmhos/cm)	Temp (° Cent.)	Turbididty (NTUs)	Notes
11:51					*Purge Started*
11:53	6.13	46.91	12.1	0.13	
11:59	12:17 ~~5.70~~ 5.63	44.00	12.1	0.10	
12:04	5.52	43.84	12.3	0.10	
12:09	5.50	43.75	12.3	0.12	
12:10					*Sample Collection Time*

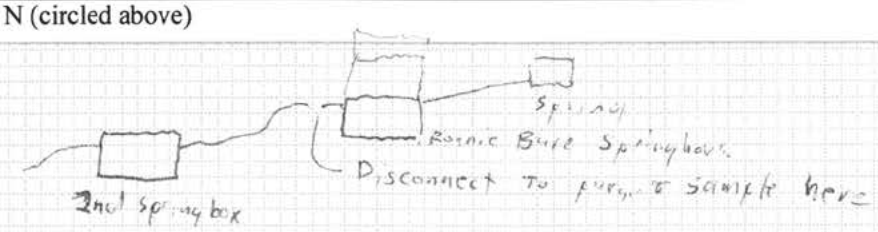
RO Sample Name: _____ RO Sample Time: _____					
Time	pH (S.U.s)	Spec. Cond. (µmhos/cm)	Temp (° Cent.)	Turbididty (NTUs)	Notes
					Purge Started
					Sample Collection Time

Field Split: *Yes / No* **Split Sample ID, Time:** _____

Analyte	Containers	Field	Split	RO	Preservation
Metals	1 Liter poly	1			HNO3, pH<2

MS/MSD? Y or N (circled above)

Notes:



Station ID: OK773 Sample ID: PW773-1120F Date: 11-17-20

Sample Team: _____ or Init. BCS

M. Brieve orInit. _____

_____ or Init. _____

Address/Home description: (b) (6) [redacted]

Other Procedures, if applicable: _____

Specific Sampling Procedure/Method Used: Purge & Sample from Kitchen tap

Description of Media/Sample: Clear odorless water

Other pertinent information (weather conditions, etc.): Cool Sunny but sample indoors

Treatment system (Brand/Model/Desc): Whirlpool

Programmed Hardness: 16 changed to 25 Salt Bin Level: 4/5

Purge Parameters (continue on grid below, if necessary)					
Time	pH (S.U.s)	Spec. Cond. (µmhos/cm)	Temp (° Cent.)	Turbididty (NTUs)	Notes
12:32					*Purge Started*
12:35	6.55	48.52	10.9	0.18	
12:40	6.49	49.01	11.2	0.16	
12:45	6.48	50.91	11.6	0.12	
12:50					*Sample Collection Time*

RO Sample Name: _____ RO Sample Time: _____

Time	pH (S.U.s)	Spec. Cond. (µmhos/cm)	Temp (° Cent.)	Turbididty (NTUs)	Notes
12:50					*Purge Started*
12:55	5.75	69.70	18.5	0.14	
12:55					*Sample Collection Time*

Field Split: *Yes / No* **Split Sample ID, Time:** _____

Analyte	Containers	Field	Split	RO	Preservation
Metals	1 Liter poly	/			HNO3, pH<2

MS/MSD? Y or N (circled above)

Notes: Home Occupied
Black welders state system, including RV, has been occasionally salty

Station ID: OK 727 **Sample ID:** PW727-1120 **Date:** 11-17-20

Sample Team: _____ **or Init.** BCS

M. Grieve **orInit.** _____

_____ **or Init.** _____

Address/Home description: (b) (6) [redacted]

Other Procedures, if applicable: _____

Specific Sampling Procedure/Method Used: Purge & sample from kitchen tap

Description of Media/Sample: Clear odorless water

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

Treatment system (Brand/Model/Desc): Whirlpool

Programmed Hardness: 35 **Salt Bin Level:** 5/8

Purge Parameters (continue on grid below, if necessary)

Time	pH (S.U.s)	Spec. Cond. (µmhos/cm)	Temp (° Cent.)	Turbididty (NTUs)	Notes
13:10					*Purge Started*
13:15	5.26	254.2	11.7	2.14	
13:20	5.31	257.6	11.6	0.74	
13:25	5.40	182.9	11.6	0.17	
13:30	5.41	187.1	11.7	0.10	
13:40	5.34	220.8	11.6	0.10	
13:45					*Sample Collection Time*

RO Sample Name: _____ **RO Sample Time:** _____

Time	pH (S.U.s)	Spec. Cond. (µmhos/cm)	Temp (° Cent.)	Turbididty (NTUs)	Notes
13:45					*Purge Started*
13:49	5.47	41.51	12.7	0.11	
13:50					*Sample Collection Time*

Field Split: *Yes / No* **Split Sample ID, Time:** _____

Analyte	Containers	Field	Split	RO	Preservation
Metals	1 Liter poly	1		1	HNO3, pH<2

MS/MSD? Y or N (circled above)

Notes: Home unoccupied. Left yesterday. Home devoid of furnishings. Access w/ lockbox. Turn on well pump to sample

Station ID: UK713 Sample ID: PW713-1120A Date: 11-17-20

Sample Team: _____ or Init. BCS

M. Green orInit. _____

_____ or Init. _____

Address/Home description: (b) (6) [redacted]

Other Procedures, if applicable: _____

Specific Sampling Procedure/Method Used: Purge + Sample fm wellhead tap

Description of Media/Sample: Clear odorless water

Other pertinent information (weather conditions, etc.): Sunny cool windy

Treatment system (Brand/Model/Desc): no

Programmed Hardness: _____ Salt Bin Level: _____

Purge Parameters (continue on grid below, if necessary)					
Time	pH (S.U.s)	Spec. Cond. (µmhos/cm)	Temp (° Cent.)	Turbididty (NTUs)	Notes
14:15					*Purge Started*
14:20	5.72	77.90	12.5	1.50	
14:25	5.69	77.53	12.5	1.92	
14:30	5.68	75.43	12.6	1.79	
14:35					*Sample Collection Time*

RO Sample Name: _____ RO Sample Time: _____					
Time	pH (S.U.s)	Spec. Cond. (µmhos/cm)	Temp (° Cent.)	Turbididty (NTUs)	Notes
					Purge Started
					Sample Collection Time

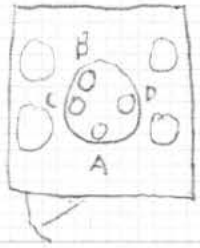
Field Split: *Yes / No* **Split Sample ID, Time:** _____

Analyte	Containers	Field	Split	RO	Preservation
Metals	1 Liter poly	1			HNO3, pH<2

BCS note

MS/MSD? Y or N (circled above)

Notes: well 'C' off



Station ID: OK713 **Sample ID:** PW713-1120B **Date:** 11-17-20

Sample Team: _____ **or Init.** BCC

M. Grieve **orInit.** _____

_____ **or Init.** _____

Address/Home description: _____

Other Procedures, if applicable: _____

Specific Sampling Procedure/Method Used: Purge & Sample from Wellhead

Description of Media/Sample: Clear Odorless Water

Other pertinent information (weather conditions, etc.): Cool, windy, sunny

Treatment system (Brand/Model/Desc): no

Programmed Hardness: _____ **Salt Bin Level:** _____

Purge Parameters (continue on grid below, if necessary)

Time	pH (S.U.s)	Spec. Cond. (µmhos/cm)	Temp (° Cent.)	Turbididty (NTUs)	Notes
14:35					*Purge Started*
14:40	5.65	71.16	12.6	1.16	
14:45	5.65	71.33	12.7	1.09	
14:50	5.65	71.38	12.7	0.82	
14:55					*Sample Collection Time*

RO Sample Name: _____ **RO Sample Time:** _____

Time	pH (S.U.s)	Spec. Cond. (µmhos/cm)	Temp (° Cent.)	Turbididty (NTUs)	Notes
					Purge Started
					Sample Collection Time

Field Split: (Yes) No **Split Sample ID, Time:** PW713-1120BS 15:00

Analyte	Containers	Field	Split	RO	Preservation
Metals	1 Liter poly	1	1		HNO3, pH<2

MS/MSD? Y or N (circled above)

Notes:

Station ID: OK713 **Sample ID:** PW713-1120D **Date:** 11-17-20

Sample Team: _____ **or Init.** BCS

M. Greve **orInit.** _____

_____ **or Init.** _____

Address/Home description: _____

Other Procedures, if applicable: _____

Specific Sampling Procedure/Method Used: Purge & sample from wellhead tap

Description of Media/Sample: Clear odorless water.

Other pertinent information (weather conditions, etc.): Cool, windy, sunny

Treatment system (Brand/Model/Desc): no

Programmed Hardness: _____ **Salt Bin Level:** _____

Purge Parameters (continue on grid below, if necessary)					
Time	**pH (S.U.s)**	**Spec. Cond. (µmhos/cm)**	**Temp (° Cent.)**	**Turbididty (NTUs)**	**Notes**
15:00					***Purge Started***
15:00	5.67	71.75	12.8	0.96	
15:05	5.67	71.81	12.8	0.91	
15:10	5.67	71.48	12.8	0.84	
15:15	5.68	71.45	12.8	0.87	
15:20					***Sample Collection Time***

RO Sample Name: _____ **RO Sample Time:** _____

Time	pH (S.U.s)	Spec. Cond. (µmhos/cm)	Temp (° Cent.)	Turbididty (NTUs)	Notes
					Purge Started
					Sample Collection Time

Field Split: *Yes / No* **Split Sample ID, Time:** _____

Analyte	Containers	Field	Split	RO	Preservation
Metals	1 Liter poly	1			HNO3, pH<2

MS/MSD? Y or N (circled above)

Notes:

Station ID: OK723 Sample ID: PW723-112017 Date: 11-17-20

Sample Team: _____ or Init. BCS

M. Grieve or Init. _____

_____ or Init. _____

Address/Home description: (b) (6) [redacted]

Other Procedures, if applicable: _____

Specific Sampling Procedure/Method Used: Purge & Sample fm Kitchen tap

Description of Media/Sample: Clear odorless water

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

Treatment system (Brand/Model/Desc): Whirlpool

Programmed Hardness: 25 Salt Bin Level: 5/8

Purge Parameters (continue on grid below, if necessary)

Time	pH (S.U.s)	Spec. Cond. (µmhos/cm)	Temp (° Cent.)	Turbididty (NTUs)	Notes
15:35					*Purge Started*
15:40	5.49	657.6	10.2	0.57	
15:45	5.30	655.1	10.0	0.36	
15:50	5.32	655.0	9.9	0.16	
15:55	5.27	652.6	10.9	0.17	
16:00					*Sample Collection Time*

RO Sample Name: _____ **RO Sample Time:** _____

Time	pH (S.U.s)	Spec. Cond. (µmhos/cm)	Temp (° Cent.)	Turbididty (NTUs)	Notes
16:00					*Purge Started*
16:00	5.74	55.70	17.7	0.17	
16:05					*Sample Collection Time*

Field Split: *Yes / No* **Split Sample ID, Time:** _____

Analyte	Containers	Field	Split	RO	Preservation
Metals	1 Liter poly	1		1	HNO3, pH<2

MS/MSD? Y or N (circled above)

Notes:

Station ID: OK739 Sample ID: PW739-1120F Date: 11-17-20

Sample Team: _____ or Init. BCC

M. Grove or Init. _____

_____ or Init. _____

Address/Home description: (b) (6) [redacted]

Other Procedures, if applicable: _____

Specific Sampling Procedure/Method Used: Purge & Sample fm kitchen tap

Description of Media/Sample: Clear odorless water

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

Treatment system (Brand/Model/Desc): Whirlpool

Programmed Hardness: 35 Salt Bin Level: 8/8

Purge Parameters (continue on grid below, if necessary)					
Time	pH (S.U.s)	Spec. Cond. (µmhos/cm)	Temp (° Cent.)	Turbididty (NTUs)	Notes
16:12					*Purge Started*
16:15	6.59	717.3	13.2	0.86	
16:20	6.62	714.3	13.1	0.73	
16:25	6.63	712.6	12.3	0.75	
16:30					*Sample Collection Time*

RO Sample Name: _____ RO Sample Time: _____					
Time	pH (S.U.s)	Spec. Cond. (µmhos/cm)	Temp (° Cent.)	Turbididty (NTUs)	Notes
16:30					*Purge Started*
16:30	6.13	51.13	19.0	0.14	
16:35					*Sample Collection Time*

Field Split: *Yes / No* **Split Sample ID, Time:** _____

Analyte	Containers	Field	Split	RO	Preservation
Metals	1 Liter poly	/		/	HNO3, pH<2

MS/MSD? Y or N (circled above)

Notes: Access home fm locking

Station ID: OK 706 **Sample ID:** PW 706 - 1120 F **Date:** 11-17-20

Sample Team: _____ **or Init.** BCS

M. Grieve **orInit.** _____

_____ **or Init.** _____

Address/Home description: _____

Other Procedures, if applicable: _____

Specific Sampling Procedure/Method Used: Purge & Sample fm tap on side of treatment shed

Description of Media/Sample: Clear odorless water

Other pertinent information (weather conditions, etc.): Cold, windy

Treatment system (Brand/Model/Desc): Whirlpool

Programmed Hardness: 100 **Salt Bin Level:** 6/8

Purge Parameters (continue on grid below, if necessary)

Time	pH (S.U.s)	Spec. Cond. (µmhos/cm)	Temp (° Cent.)	Turbididty (NTUs)	Notes
16:45					*Purge Started*
16:50	5.76	356.9	8.5	5.88	
16:55	5.70	355.7	8.2	0.71	
17:00	5.68	354.7	9.9	0.97	
17:05	5.69	354.1	10.5	0.97	
17:10					*Sample Collection Time*

RO Sample Name: _____ **RO Sample Time:** _____

Time	pH (S.U.s)	Spec. Cond. (µmhos/cm)	Temp (° Cent.)	Turbididty (NTUs)	Notes
1210					*Purge Started*
17:10	5.90	26.01	11.8	0.09	
17:15					*Sample Collection Time*

Field Split: *Yes / No* **Split Sample ID, Time:** _____

Analyte	Containers	Field	Split	RO	Preservation
Metals	1 Liter poly	1		1	HNO3, pH<2

MS/MSD? Y or N (circled above)

Notes: James Drake not home. Collect 'F' sample initially fm outside tap. 17:10 James Drake arrives home - RO sample collected

Station ID: OK779B Sample ID: PW779B-1120 Date: 11/18/20

Sample Team: _____ or Init. BCS

M. Grieve or Init. _____

_____ or Init. _____

Address/Home description: (b) (6) [redacted]

Other Procedures, if applicable: _____

Specific Sampling Procedure/Method Used: Purge & Sample from yard hydrant

Description of Media/Sample: Clear odorless water.

Other pertinent information (weather conditions, etc.): Cold, Sunny

Treatment system (Brand/Model/Desc): _____

Programmed Hardness: _____ Salt Bin Level: _____

Purge Parameters (continue on grid below, if necessary)

Time	pH (S.U.s)	Spec. Cond. (µmhos/cm)	Temp (° Cent.)	Turbididty (NTUs)	Notes
10:35					*Purge Started*
10:40	6.61	153.4	11.4	2.10	
10:45	6.85	153.6	11.4	2.02	
10:50	7.00	153.6	11.4	1.83	
11:00	7.17	153.7	11.4	1.78	
11:05	7.24	153.7	11.3	1.56	
11:10					*Sample Collection Time*

RO Sample Name: _____ **RO Sample Time:** _____

Time	pH (S.U.s)	Spec. Cond. (µmhos/cm)	Temp (° Cent.)	Turbididty (NTUs)	Notes
					Purge Started
					Sample Collection Time

Field Split: (Yes) / No **Split Sample ID, Time:** PW779B-11205 11:15

Analyte	Containers	Field	Split	RO	Preservation
Metals	1 Liter poly	1	1		HNO3, pH<2

MS/MSD? Y or N (circled above)

Notes: Home occupied. Softener not use

Station ID: OK710 Sample ID: PW710-1120F Date: 11-18-20

Sample Team: _____ or Init. BCS

M. Grieve or Init. _____

_____ or Init. _____

Address/Home description: (b) (6) [redacted]

Other Procedures, if applicable: _____

Specific Sampling Procedure/Method Used: Purge & Sample from kitchen tap

Description of Media/Sample: Clear odorless water

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

Treatment system (Brand/Model/Desc): Whirlpool

Programmed Hardness: 40 Salt Bin Level: 1/8

Purge Parameters (continue on grid below, if necessary)					
Time	pH (S.U.s)	Spec. Cond. (µmhos/cm)	Temp (° Cent.)	Turbididty (NTUs)	Notes
12:07					*Purge Started*
12:10	6.12	230.5	13.8	0.65	
12:15	6.02	233.7	13.4	0.27	
12:20	5.99	234.9	13.1	0.26	
12:25	5.99	235.2	12.8	0.21	
12:30					*Sample Collection Time*

RO Sample Name: PW710-1120R RO Sample Time: _____					
Time	pH (S.U.s)	Spec. Cond. (µmhos/cm)	Temp (° Cent.)	Turbididty (NTUs)	Notes
12:30					*Purge Started*
12:30	5.79	24.07	16.8	0.13	
12:35					*Sample Collection Time*

Field Split: *Yes / (No)* Split Sample ID, Time: _____

Analyte	Containers	Field	Split	RO	Preservation
Metals	1 Liter poly	1		1	HNO3, pH<2

MS/MSD? Y or N (circled above)

Notes: Home Occupied

MS/MSD

Station ID: OK712 **Sample ID:** PW712-1120 F **Date:** 11-18-20

Sample Team: _____ **or Init.** BCS

Mr Grieve **orInit.** _____

_____ **or Init.** _____

Address/Home description: (b) (6) [redacted]

Other Procedures, if applicable: _____

Specific Sampling Procedure/Method Used: Purge & Sample fm Kitchen Tap

Description of Media/Sample: Clear odorless water

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

Treatment system (Brand/Model/Desc): Whirlpool

Programmed Hardness: 25 **Salt Bin Level:** 7/8

Purge Parameters (continue on grid below, if necessary)

Time	pH (S.U.s)	Spec. Cond. (µmhos/cm)	Temp (° Cent.)	Turbididty (NTUs)	Notes
12:50					*Purge Started*
12:55	6.69	181.6	11.6	4.34	
13:00	6.50	181.3	11.7	1.84	
13:05	642	181.9	11.7	1.51	
	Water sputtering, decided to sample				
13:10					*Sample Collection Time*

RO Sample Name: _____ **RO Sample Time:** _____

Time	pH (S.U.s)	Spec. Cond. (µmhos/cm)	Temp (° Cent.)	Turbididty (NTUs)	Notes
13:10					*Purge Started*
13:10	6.5.93	23.41	15.6	0.27	
13:15					*Sample Collection Time*

Field Split: *Yes / No* **Split Sample ID, Time:** _____

Analyte	Containers	Field	Split	RO	Preservation
Metals	1 Liter poly	/		/	HNO3, pH<2

MS/MSD? Y or N (circled above)

Notes: Enter house w/ key in key safe Ms Tripp directed us to. Turn on pump to sample, drain most pressure off system after turning pump off to depart. Home locked
Air sputtering fm tap throughout purge.

Station ID: OK702 Sample ID: PW 702-1120F Date: 11-18-20

Sample Team: _____ or Init. BCS

M. Grieve or Init. _____

_____ or Init. _____

Address/Home description: (b) (6) [redacted]

Other Procedures, if applicable: _____

Specific Sampling Procedure/Method Used: Purge & Sample fm Kitchen tap

Description of Media/Sample: Clear odorless water

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

Treatment system (Brand/Model/Desc): Rain soft

Programmed Hardness: _____ Salt Bin Level: Block Salt 1' fm top

Purge Parameters (continue on grid below, if necessary)

Time	pH (S.U.s)	Spec. Cond. (µmhos/cm)	Temp (° Cent.)	Turbididty (NTUs)	Notes
13:20					*Purge Started*
13:25	5.68	830.6	13.4	0.26	
13:30	5.57	828.8	13.3	0.23	
13:35	5.53	827.5	12.9	0.21	
13:40	5.49	826.8	12.4	0.31	
13:45	5.49	825.3	12.2	0.15	
13:50					*Sample Collection Time*

RO Sample Name: _____ **RO Sample Time:** _____

Time	pH (S.U.s)	Spec. Cond. (µmhos/cm)	Temp (° Cent.)	Turbididty (NTUs)	Notes
13:50					*Purge Started*
13:50	5.91	60.31	18.3	0.17	
13:55					*Sample Collection Time*

Field Split: *Yes / No* **Split Sample ID, Time:** _____

Analyte	Containers	Field	Split	RO	Preservation
Metals	1 Liter poly	/		/	HNO3, pH<2

MS/MSD? Y or N (circled above)

Notes:

Station ID: OK762 Sample ID: PW762-1120F Date: 11-19-20

Sample Team: _____ or Init. BCS

Mr. Grieve or Init. _____

_____ or Init. _____

Address/Home description: (b) (6) [redacted]

Other Procedures, if applicable: _____

Specific Sampling Procedure/Method Used: Purge & Sample from Kitchen tap

Description of Media/Sample: clear colorless water.

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

Treatment system (Brand/Model/Desc): Evolve

Programmed Hardness: 20 Salt Bin Level: Full

Purge Parameters (continue on grid below, if necessary)					
Time	pH (S.U.s)	Spec. Cond. (µmhos/cm)	Temp (° Cent.)	Turbididty (NTUs)	Notes
9:01					*Purge Started*
9:05	6.09	746.8	12.9	0.16	
9:10	5.59	746.6	12.9	0.13	
9:15	5.44	745.8	12.7	0.15	
9:20	5.38	745.2	12.7	0.11	
9:25	5.38	745.1	12.7	~~0.11~~ 0.19 11-19-20	
9:30					*Sample Collection Time*

RO Sample Name: PW762-1120R RO Sample Time: _____

Time	pH (S.U.s)	Spec. Cond. (µmhos/cm)	Temp (° Cent.)	Turbididty (NTUs)	Notes
9:30					*Purge Started*
9:30	5.77	91.82	16.0	0.18	
9:35					*Sample Collection Time*

Field Split: *Yes / No* **Split Sample ID, Time:** _____

Analyte	Containers	Field	Split	RO	Preservation
Metals	1 Liter poly	/		/	HNO3, pH<2

MS/MSD? Y or N (circled above)

Notes: Seasonal home occupied for 2 days
homeowner says water was red tap on arrival
tm

OKT37

Station ID: PW BCS 11-19 **Sample ID:** PW737 **Date:** 11-19-20

Sample Team: _____ **or Init.** BCS

M. Grieve **orInit.** _____

_____ **or Init.** _____

Address/Home description: (b) (6) [redacted]

Other Procedures, if applicable: _____

Specific Sampling Procedure/Method Used: Purge & Sample fm Kitchen tap

Description of Media/Sample: Clear odorless water

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

Treatment system (Brand/Model/Desc): Whirlpool

Programmed Hardness: 50 **Salt Bin Level:** 6/8

Purge Parameters (continue on grid below, if necessary)

Time	pH (S.U.s)	Spec. Cond. (µmhos/cm)	Temp (° Cent.)	Turbididty (NTUs)	Notes
9:48					*Purge Started*
9:50	6.76	740.5	17.4	0.28	
9:55	6.83	728.1	12.3	0.30	
10:00	6.85	763.3	11.8	0.30	
10:05	6.89	753.7	11.7	0.23	
10:10					*Sample Collection Time*

RO Sample Name: PW737-1120R **RO Sample Time:** _____

Time	pH (S.U.s)	Spec. Cond. (µmhos/cm)	Temp (° Cent.)	Turbididty (NTUs)	Notes
10:10					*Purge Started*
10:10	6.66	36.96	14.2	0.23	
10:15					*Sample Collection Time*

Field Split: *Yes / No* **Split Sample ID, Time:** _____

Analyte	Containers	Field	Split	RO	Preservation
Metals	1 Liter poly	1		1	HNO3, pH<2

MS/MSD? Y or N (circled above)

Notes:

Station ID: OK774 **Sample ID:** PW774-1120 **Date:** 11-19-20

Sample Team: _____ **or Init.** BCS

M. Geare **orInit.** _____

_____ **or Init.** _____

Address/Home description: (b) (6) [redacted]

Other Procedures, if applicable: _____

Specific Sampling Procedure/Method Used: Purge & Sample fm kitchen Tap.

Description of Media/Sample: Clear odorless water

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

Treatment system (Brand/Model/Desc): Evolve

Programmed Hardness: 20 **Salt Bin Level:** ~ 1/3

Purge Parameters (continue on grid below, if necessary)

Time	pH (S.U.s)	Spec. Cond. (µmhos/cm)	Temp (° Cent.)	Turbididty (NTUs)	Notes
10:15					***Purge Started***
10:20	7.10	530.1	12.0	0.26	
10:25	7.14	528.6	11.9	0.28	
10:30	7.18	526.4	11.9	0.34	
10:35	7.22	526.3	11.9	0.23	
11:00					***Sample Collection Time***

RO Sample Name: PW774-1120R **RO Sample Time:** _____

Time	pH (S.U.s)	Spec. Cond. (µmhos/cm)	Temp (° Cent.)	Turbididty (NTUs)	Notes
11:00					***Purge Started***
11:00	7.23	14.71	8.8	0.54	
11:10					***Sample Collection Time***

Field Split: *Yes / No* **Split Sample ID, Time:** _____

Analyte	Containers	Field	Split	RO	Preservation
Metals	1 Liter poly	1		1	HNO3, pH<2

MS/MSD? Y or N (circled above)

Notes: Softener Power off on arrival
Ms Meneily had turned pump power on in unoccupied home this morning. Turn Power to softener on to check Settings

Station ID: OK750 **Sample ID:** PW750-1120 F **Date:** 11-19-20

Sample Team: _____ **or Init.** BCS

M. Grieve **orInit.** _____

_____ **or Init.** _____

Address/Home description: (b) (6) [redacted]

Other Procedures, if applicable: _____

Specific Sampling Procedure/Method Used: Purge & sample fm kitchen wash basin

Description of Media/Sample: Clear odorless water

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

Treatment system (Brand/Model/Desc): Whirlpool X3

Programmed Hardness: 85/85/85 **Salt Bin Level:** 3/5/4

Purge Parameters (continue on grid below, if necessary)

Time	pH (S.U.s)	Spec. Cond. (µmhos/cm)	Temp (° Cent.)	Turbididty (NTUs)	Notes
10:58					***Purge Started***
11:00	6.66	646.5	14.2	0.09	
11:05	6.46	646.0	14.0	0.16	
11:10	6.38	647.5	14.4	0.12	
11:15	6.34	642.9	14.9	0.71	
11:20					***Sample Collection Time***

RO Sample Name: _____ **RO Sample Time:** _____

Time	pH (S.U.s)	Spec. Cond. (µmhos/cm)	Temp (° Cent.)	Turbididty (NTUs)	Notes
11:20					***Purge Started***
11:20	6.13	30.12	18.6	0.19	
11:25					***Sample Collection Time***

Field Split: *Yes / No* **Split Sample ID, Time:** _____

Analyte	Containers	Field	Split	RO	Preservation
Metals	1 Liter poly	1		3	HNO3, pH<2

MS/MSD? (Y) or N (circled above) 'F' Sample

Notes: Last day of occupancy

	pH	Cond	T	Turb.	Time
R2	6.10	75.62	15.3	0.17	11:30
R3	5.99	55.22	17.2	0.10	

Sample Times
PW 750-1120 R2 11:30
PW 750-1120 R3:

Parking

Station ID: OK710 Sample ID: PW710-0121F (MS/MSD) Date: 1/25/21

Sample Team: B. Stringow or Init. _____

M. Grieve orInit. _____

_____ or Init. _____

Address/Home description: (b) (6) [redacted]

Other Procedures, if applicable: _____

Specific Sampling Procedure/Method Used: Purge & Sample from Kitchen Tap

Description of Media/Sample: Clear odorless water

Other pertinent information (weather conditions, etc.): Sample indoors

Treatment system (Brand/Model/Desc): Evolve

Programmed Hardness: 40 Salt Bin Level: Full

Purge Parameters (continue on grid below, if necessary)					
Time	pH (S.U.s)	Spec. Cond. (µmhos/cm)	Temp (° Cent.)	Turbididty (NTUs)	Notes
3:04 pm					*Purge Started*
3:10	6.04	236.5	11.4	0.49	
3:15	5.63	244.9	11.4	0.06	
3:20	5.61	246.1	10.9	0.07	
3:25	5.63	246.7	10.4	0.32	
3:25 pm					*Sample Collection Time*

RO Sample Name: PW710-0121R RO Sample Time: 3:35 pm					
Time	pH (S.U.s)	Spec. Cond. (µmhos/cm)	Temp (° Cent.)	Turbididty (NTUs)	Notes
4:33					*Purge Started*
15:30	~~16.3~~ 7.20 BS	26.05	16.3	0.35	
					Sample Collection Time

Field Split: (Yes) No Split Sample ID, Time: PW710-0121FS 15:30

Analyte	Containers	Field	Split	RO	Preservation
Metals	1 Liter poly				HNO3, pH<2

MS/MSD? (Y) or N (circled above)

Notes:

Station ID:_____ **Sample ID:**_____ **Date:**_____

Sample Team: _____ **or Init.** _____

_____ **orInit.** _____

_____ **or Init.** _____

Address/Home description: _____

Other Procedures, if applicable:_____

_____

Specific Sampling Procedure/Method Used:_____

_____

Description of Media/Sample:_____

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

Treatment system (Brand/Model/Desc):_____

Programmed Hardness:_____ **Salt Bin Level:**_____

Purge Parameters (continue on grid below, if necessary)					
Time	**pH (S.U.s)**	**Spec. Cond. (µmhos/cm)**	**Temp (° Cent.)**	**Turbididty (NTUs)**	**Notes**
					Purge Started
					Sample Collection Time

End of Log

RO Sample Name:_____ RO Sample Time:_____					
Time	**pH (S.U.s)**	**Spec. Cond. (µmhos/cm)**	**Temp (° Cent.)**	**Turbididty (NTUs)**	**Notes**
					Purge Started
					Sample Collection Time

Field Split: *Yes / No* **Split Sample ID, Time:** _____

Analyte	Containers	Field	Split	RO	Preservation
Metals	1 Liter poly				HNO3, pH<2

MS/MSD? Y or N (circled above)

Notes:

United States Environmental Protection Agency
Region 4
Science and Ecosystem Support Division
980 College Station Road
Athens, Georgia 30605-2720

ORE KNOB MINE SITE POTABLE WATER SAMPLING(FY21)
JEFFERSON, NORTH CAROLINA
SESD PROJECT ID #: 21-0027
BRIAN STRIGGOW, PROJECT LEADER

Instrument Calibration Logbook

Book 2 **of** 2

Inclusive Dates: 11-16-20 → 1-25-21

List of personnel in logbook:

Name	Initials	Organization/Duties
Brian Striggow	BCS	Project Leader, Team Leader
Malcolm Grieve		Sampler

SESD Operating Procedures to be used:

Measurement and Calibration Procedures:

SESDPROC-100-R4 Field pH Measurement
SESDPROC-101-R6 Field Specific Conductance Measurement
SESDPROC-102-R5 Field Temperature Measurement
SESDPROC-103-R4 Field Turbidity Measurement

Deviations or additional procedures used to be noted in logbook.

Instrument Assignments:

Date Range	Parameters (eg pH, cond, Temp)	Instrument #s	Assigned To

Notes:

Sample Custody or additional notes (ice checks, shipments, etc.)

Instrument Calibration Log Date: 11/16/20

BCS 11-17

Circle applicable measurement

Instrument #2 (pH, SC, Turbidity, Temperature) SESD ID No 090611-06 Calibrator's Init. BCS

Instrument #1 (pH, SC, Turbidity, Temperature) SESD ID No 020314-06 BCS

Instrument _____ (pH, SC, Turbidity, Temperature) SESD ID No _____ _____

Instrument _____ (pH, SC, Turbidity, Temperature) SESD ID No _____ _____

Instrument _____ (pH, SC, Turbidity, Temperature) SESD ID No _____ _____

Instrument _____ (pH, SC, Turbidity, Temperature) SESD ID No _____ _____

Calibration Standards:

Standard	Value	Manufacturer:	Lot# :	Expiration:
pH	4	Oakton	2911B05	11/21
pH	7	"	2911867	10/21
pH	10	"	2911927	5/21
Conductivity low	1413	Thermo	xsiA	8/21
Conductivity high				
Turbidity set #		Hach	A9301 (10, 20) A9294 (100)	Jan 21
Turbidity set #				
NIST Thermometer				

Notes:

Calibration: **Date** 11/16/20 **Time** 15:00 **End Check Time** 19:00

Instrument #	Parameter	Standard Value	Pre-cal Reading:	Calibration/ Verification:	Post-cal Reading:	End of Day Check:
1	pH	4	4.08	4.00	4.07	4.04
1	pH	7	7.12	7.06	7.15	7.02
1	pH	10	10.14	9	9.97	9.98
1	Cond	1413	1362	1413 (.989)	1425	1477
1	Cond					
1	Temp	NIST: 18.3	18.7		18.7	NIST: 17.0 /Instr.: 16.5
2	Turbidity	10		10.2		
2	Turbidity	20		19.9		
2	Turbidity	100		98.1		
3	pH	4				
3	pH	7				
3	pH	10				
3	Cond					
3	Cond					
3	Temp					
4	Turbidity					
4	Turbidity					
4	Turbidity					

Notes:

Circle applicable measurement

Calibrator's Init.

Instrument _____(pH, SC, Turbidity, Temperature) SESD ID No _____ _____

Instrument _____(pH, SC, Turbidity, Temperature) SESD ID No _____ _____

Instrument _____(pH, SC, Turbidity, Temperature) SESD ID No _____ _____

Instrument _____(pH, SC, Turbidity, Temperature) SESD ID No _____ _____

Instrument _____(pH, SC, Turbidity, Temperature) SESD ID No _____ _____

Instrument _____(pH, SC, Turbidity, Temperature) SESD ID No _____ _____

Calibration Standards:

Standard	Value	Manufacturer:	Lot# :	Expiration:
pH	4			
pH	7			
pH	10			
Conductivity low				
Conductivity high				
Turbidity set #				
Turbidity set #				
NIST Thermometer				

as per page

Notes:

Calibration: **Date** 11/17/20 **Time** 7:10 **End Check Time** 19:00

Instrument #	Parameter	Standard Value	Pre-cal Reading:	Calibration/ Verification:	Post-cal Reading:	End of Day Check:
1	pH	4	4.02	4.01	4.03	4.04
1	pH	7	7.04	7.01	7.02	7.04
1	pH	10	9.95	s=99.8%	9.97	9.99
1	Cond	1413	1472	1413	1414	1449
1	~~Cond~~					
1	Temp	NIST:22.6	/	22.3 →	22.3	NIST:14.3/Instr::14.4
2	Turbidity	~~9.72~~ 10		9.82	10.3	
2	Turbidity	20.0		20.0	19.8	
2	Turbidity	100		101	99.9	
3	pH	4				
3	pH	7				
3	pH	10				
3	Cond					
3	Cond					
3	Temp					
4	Turbidity					
4	Turbidity					
4	Turbidity					

DI = 0.72

DI = 0.78

Notes:

Instrument Calibration Log Date:_____

11/18/20

Circle applicable measurement

Calibrator's Init.

Instrument _____ (pH, SC, Turbidity, Temperature) SESD ID No _____ _____

Instrument _____ (pH, SC, Turbidity, Temperature) SESD ID No _____ _____

Instrument _____ (pH, SC, Turbidity, Temperature) SESD ID No _____ _____

Instrument _____ (pH, SC, Turbidity, Temperature) SESD ID No _____ _____

Instrument _____ (pH, SC, Turbidity, Temperature) SESD ID No _____ _____

Instrument _____ (pH, SC, Turbidity, Temperature) SESD ID No _____ _____

Calibration Standards:

Standard	Value	Manufacturer:	Lot# :	Expiration:
pH	4			
pH	7			
pH	10			
Conductivity low				
Conductivity high				
Turbidity set #				
Turbidity set #				
NIST Thermometer				

See Page

Notes:

Calibration: **Date** 11-18-20 **Time** 7:00 **End Check Time** _____

Instrument #	Parameter	Standard Value	Pre-cal Reading:	Calibration/ Verification:	Post-cal Reading:	End of Day Check:
1	pH	4	4.06	4.01	4.03	4.05
1	pH	7	7.11	7.01	7.01	7.04
1	pH	10	10.08	S=100.3	9.96	9.97
1	Cond	1413	1410	1413	1416	1453
1	Cond					
1	Temp	NIST: 22.3	22.2		22.2	NIST: 19.2 /Instr.: 19.0
2	Turbidity	10		9.65	/	10.1
2	Turbidity	20		19.6	/	19.6
2	Turbidity	100		96.8	/	95.5
3	pH	4				
3	pH	7				
3	pH	10				
3	Cond					
3	Cond					
3	Temp					
4	Turbidity					
4	Turbidity					
4	Turbidity					

Pi = 0.91

Pi = 0.38

Notes:

Instrument Calibration Log Date: _____

Circle applicable measurement

Calibrator's Init.

Instrument _____ (pH, SC, Turbidity, Temperature) SESD ID No _____ _____

Instrument _____ (pH, SC, Turbidity, Temperature) SESD ID No _____ _____

Instrument _____ (pH, SC, Turbidity, Temperature) SESD ID No _____ _____

Instrument _____ (pH, SC, Turbidity, Temperature) SESD ID No _____ _____

Instrument _____ (pH, SC, Turbidity, Temperature) SESD ID No _____ _____

Instrument _____ (pH, SC, Turbidity, Temperature) SESD ID No _____ _____

Calibration Standards:

Standard	Value	Manufacturer:	Lot#:	Expiration:
pH	4			
pH	7			
pH	10			
Conductivity low				
Conductivity high				
Turbidity set #				
Turbidity set #				
NIST Thermometer				

See Page 4

Notes:

Calibration: **Date** 11/19/20 **Time** 6:00 **End Check Time** _____

Instrument #	Parameter	Standard Value	Pre-cal Reading:	Calibration/ Verification:	Post-cal Reading:	End of Day Check:
1	pH	4	4.02	4.01	4.03	4.01
1	pH	7	7.00	7.01	7.01	7.03
1	pH	10	9.92	S=100.4	9.93	9.98
1	Cond					
1	Cond	1413	1426	1413 (0.477)	1416	1436
1	Temp	NIST:22.9	23.0	→	23.0	NIST:16.4/Instr::16.2
2	Turbidity	10		/	9.98	9.91
2	Turbidity	20			19.8	20.1
2	Turbidity	100			98.1	98.0
3	pH	4				
3	pH	7				
3	pH	10				
3	Cond					
3	Cond					
3	Temp					
4	Turbidity					
4	Turbidity					
4	Turbidity					

DI = 0.49

DI = 0.55

Notes:

1/25/21

Circle applicable measurement

Calibrator's Init.

Instrument BCS 1/25 ~~#1~~ #2 (pH, SC, Turbidity, Temperature) SESD ID No 092715-03 BS

Instrument ~~#2~~ #1 (pH, SC, Turbidity, Temperature) SESD ID No 020314-04 BCS

Instrument _____ (pH, SC, Turbidity, Temperature) SESD ID No _____ _____

Instrument _____ (pH, SC, Turbidity, Temperature) SESD ID No _____ _____

Instrument _____ (pH, SC, Turbidity, Temperature) SESD ID No _____ _____

Instrument _____ (pH, SC, Turbidity, Temperature) SESD ID No _____ _____

Calibration Standards:

Standard	Value	Manufacturer:	Lot# :	Expiration:
pH	4	Oakton	2911B05	11/21
pH	7	Oakton	2911967	10/21
pH	10	Oakton	2911927	5/21
Conductivity low				5/21
Conductivity high	1413	Thermo	X51A	BN 8/21
Turbidity set #		10 Hach	A9301	1/21
Turbidity set #		20 Hach	A9301	1/21
NIST Thermometer	/	#111413-01		1/20/22
Turb 100	100	Hach	A9294	1/21

Notes:

Calibration: **Date** 1/25/21 **Time** 13:30 **End Check Time** 18:00

Instrument #	Parameter	Standard Value	Pre-cal Reading:	Calibration/ Verification:	Post-cal Reading:	End of Day Check:	
1	pH	4	4.11	4.00	3.98	3.97	slope = 99.9%
1	pH	7	7.10	7.02	6.96	6.97	
1	pH	10	10.09	/	9.92	9.98	
1	Cond						
1	Cond	1413	1350	1413	1427	1480	cell .469
1	Temp	NIST: 17.9	17.5		17.5	NIST 14.3 /Instr: 14.5	
2	Turbidity	10		10.0	9.96	9.75	DI = 0.09
2	Turbidity	20		/	19.4	19.4	End DI = 0.1
2	Turbidity	100		/	97.5	98.0	
3	pH	4					
3	pH	7					
3	pH	10					
3	Cond						
3	Cond						
3	Temp						
4	Turbidity						
4	Turbidity						
4	Turbidity						

Notes:

Circle applicable measurement

Calibrator's Init.

Instrument _____ (pH, SC, Turbidity, Temperature) SESD ID No _____ _____

Instrument _____ (pH, SC, Turbidity, Temperature) SESD ID No _____ _____

Instrument _____ (pH, SC, Turbidity, Temperature) SESD ID No _____ _____

Instrument _____ (pH, SC, Turbidity, Temperature) SESD ID No _____ _____

Instrument _____ (pH, SC, Turbidity, Temperature) SESD ID No _____ _____

Instrument _____ (pH, SC, Turbidity, Temperature) SESD ID No _____ _____

Calibration Standards:

Standard	Value	Manufacturer:	Lot# :	Expiration:
pH	4			
pH	7			
pH	10			
Conductivity low				
Conductivity high				
Turbidity set #				
Turbidity set #				
NIST Thermometer				

End of Logbook

Notes:

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Appendix E

Chain of Custody Scans

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E204907

USEPA Region 4 COC (REGION COPY)
COC #: 11/19/20-0012
CarrierName:
AirbillNo:

CHAIN OF CUSTODY RECORD
Ore Knob Mine Site 2017 PW
Project Number: ~~20-0012~~ RB 11/19
Cooler #: 21-0027

No: 11/19/20-0012
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
PW713-1120BS		Potable Water/ Striggow, Brian	Grab	TMTL	A (HNO3 pH<2) (1) ✓	OK713	11/17/2020 15:00	Field Sample
PW722-1120S		Potable Water/ Striggow, Brian	Grab	TMTL	A (HNO3 pH<2) (1) ✓	OK722	11/17/2020 10:30	Field Sample
PW779B-1120S		Potable Water/ Striggow, Brian	Grab	TMTL	A (HNO3 pH<2) (1) ✓	OK779B	11/18/2020 11:15	Field Sample
PW702-1120F		Potable Water/ Striggow, Brian	Grab	TMTL	A (HNO3 pH<2) (1) ✓	OK702	11/18/2020 13:50	Field Sample
PW702-1120R		Potable Water/ Striggow, Brian	Grab	TMTL	A (HNO3 pH<2) (1) ✓	OK702	11/18/2020 13:55	Field Sample
PW706-1120R		Potable Water/ Striggow, Brian	Grab	TMTL	A (HNO3 pH<2) (1) ✓	OK706	11/17/2020 17:15	Field Sample
PW707-1120R		Potable Water/ Striggow, Brian	Grab	TMTL	A (HNO3 pH<2) (1) ✓	OK707	11/16/2020 17:10	Field Sample
PW708-1120R		Potable Water/ Striggow, Brian	Grab	TMTL	A (HNO3 pH<2) (1) ✓	OK708	11/16/2020 15:50	Field Sample
PW709-1120R		Potable Water/ Striggow, Brian	Grab	TMTL	A (HNO3 pH<2) (1) ✓	OK709	11/17/2020 09:30 09:25	Field Sample
PW710-1120F		Potable Water/ Striggow, Brian	Grab	TMTL	A (HNO3 pH<2) (1) ✓	OK710	11/18/2020 12:30	Field Sample

Sample(s) to be used for Lab QC: PW709-1120R Tag A

Shipment for Case Complete? N
Samples Transferred From Chain of Custody #

Analysis Key: TMTL=(TMTL) Total Metals (Superfund, RCRA)

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
Deliver	[signature] EPA	7-19-20 17:45	RMBeall EPA LSASD LSB	12-2-20 0800	Good

E204907

USEPA Region 4 COC (REGION COPY)

COC #: 11/19/20-0012

CarrierName:

AirbillNo:

CHAIN OF CUSTODY RECORD

Ore Knob Mine Site 2017 PW

Project Number: ~~20-0012~~ 21-0027

Cooler #:

No: 11/19/20-0012

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
PW710-1120R		Potable Water/ Striggow, Brian	Grab	TMTL	A (HNO3 pH<2) (1) ✓	OK710	11/18/2020 12:35	Field Sample
PW711-1120F		Potable Water/ Striggow, Brian	Grab	TMTL	A (HNO3 pH<2) (1) ✓	OK711	11/16/2020 16:30	Field Sample
PW711-1120R		Potable Water/ Striggow, Brian	Grab	TMTL	A (HNO3 pH<2) (1) ✓	OK711	11/16/2020 16:35	Field Sample
PW712-1120F		Potable Water/ Striggow, Brian	Grab	TMTL	A (HNO3 pH<2) (1) ✓	OK712	11/18/2020 13:10	Field Sample
PW712-1120R		Potable Water/ Striggow, Brian	Grab	TMTL	A (HNO3 pH<2) (1) ✓	OK712	11/18/2020 13:15	Field Sample
PW713-1120A		Potable Water/ Striggow, Brian	Grab	TMTL	A (HNO3 pH<2) (1) ✓	OK713	11/17/2020 14:35	Field Sample
PW713-1120B		Potable Water/ Striggow, Brian	Grab	TMTL	A (HNO3 pH<2) (1) ✓	OK713	11/17/2020 14:55	Field Sample
PW713-1120D		Potable Water/ Striggow, Brian	Grab	TMTL	A (HNO3 pH<2) (1) ✓	OK713	11/17/2020 15:20	Field Sample
PW722-1120		Potable Water/ Striggow, Brian	Grab	TMTL	A (HNO3 pH<2) (1) ✓	OK722	11/17/2020 10:25	Field Sample
PW723-1120F		Potable Water/ Striggow, Brian	Grab	TMTL	A (HNO3 pH<2) (1) ✓	OK723	11/17/2020 16:00	Field Sample

Sample(s) to be used for Lab QC: PW712-1120F Tag A

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: TMTL=(TMTL) Total Metals (Superfund, RCRA)

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
Deliver	[signature] EPA	11-19-20 17:45	RMBeall EPA LSASD LSB	12-2-20 0800	Good

E204907

USEPA Region 4 COC (REGION COPY)
COC #: 11/19/20-0012
CarrierName:
AirbillNo:

CHAIN OF CUSTODY RECORD
Ore Knob Mine Site 2017 PW
Project Number: ~~20-0012~~ AB
Cooler #: 21-0027

No: 11/19/20-0012
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
PW723-1120R		Potable Water/ Striggow, Brian	Grab	TMTL	A (HNO3 pH<2) (1) ✓	OK723	11/17/2020 16:05	Field Sample
PW727-1120F		Potable Water/ Striggow, Brian	Grab	TMTL	A (HNO3 pH<2) (1) ✓	OK727	11/17/2020 13:45 1340	Field Sample
PW727-1120R		Potable Water/ Striggow, Brian	Grab	TMTL	A (HNO3 pH<2) (1) ✓	OK727	11/17/2020 13:50 1343	Field Sample
PW736-1120, R		Potable Water/ Striggow, Brian	Grab	TMTL	A (HNO3 pH<2) (1) ✓	OK736	11/17/2020 14:35 1135	Field Sample
PW737-1120F		Potable Water/ Striggow, Brian	Grab	TMTL	A (HNO3 pH<2) (1) ✓	OK737	11/19/2020 10:10	Field Sample
PW737-1120R		Potable Water/ Striggow, Brian	Grab	TMTL	A (HNO3 pH<2) (1) ✓	OK737	11/19/2020 10:15	Field Sample
PW739-1120F		Potable Water/ Striggow, Brian	Grab	TMTL	A (HNO3 pH<2) (1) ✓	OK739	11/17/2020 16:30	Field Sample
PW739-1120R		Potable Water/ Striggow, Brian	Grab	TMTL	A (HNO3 pH<2) (1) ✓	OK739	11/17/2020 16:35	Field Sample
PW750-1120F		Potable Water/ Striggow, Brian	Grab	TMTL	A (HNO3 pH<2) (1) ✓	OK750	11/19/2020 11:20	Field Sample
PW750-1120R1		Potable Water/ Striggow, Brian	Grab	TMTL	A (HNO3 pH<2) (1) ✓	OK750	11/19/2020 11:25	Field Sample

Shipment for Case Complete? N
Samples Transferred From Chain of Custody #

Sample(s) to be used for Lab QC: PW750-1120F Tag A

Analysis Key: TMTL=(TMTL) Total Metals (Superfund, RCRA)

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
Deliver	[signature] EPA	11-19-20 12:45	[signature] EPA LSASD LSB	12-2-20 0800	Good

E204907

USEPA Region 4 COC (REGION COPY)

COC #: 11/19/20-0012
CarrierName:
AirbillNo:

CHAIN OF CUSTODY RECORD

Ore Knob Mine Site 2017 PW
Project Number: ~~20-0012~~ Aug 14, 2020
Cooler #: 21-0027

No: 11/19/20-0012

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
PW750-1120R2		Potable Water/ Striggow, Brian	Grab	TMTL	A (HNO3 pH<2) (1) ✓	OK750	11/19/2020 11:30	Field Sample
PW750-1120R3		Potable Water/ Striggow, Brian	Grab	TMTL	A (HNO3 pH<2) (1) ✓	OK750	11/19/2020 11:35	Field Sample
PW762-1120F		Potable Water/ Striggow, Brian	Grab	TMTL	A (HNO3 pH<2) (1) ✓	OK762	11/19/2020 09:30	Field Sample
PW762-1120R		Potable Water/ Striggow, Brian	Grab	TMTL	A (HNO3 pH<2) (1) ✓	OK762	11/19/2020 09:35	Field Sample
PW773-1120F		Potable Water/ Striggow, Brian	Grab	TMTL	A (HNO3 pH<2) (1) ✓	OK773	11/17/2020 12:50	Field Sample
PW773-1120R		Potable Water/ Striggow, Brian	Grab	TMTL	A (HNO3 pH<2) (1) ✓	OK773	11/17/2020 12:50 1255	Field Sample
PW774-1120F		Potable Water/ Striggow, Brian	Grab	TMTL	A (HNO3 pH<2) (1) ✓	OK774	11/19/2020 11:00	Field Sample
PW774-1120R		Potable Water/ Striggow, Brian	Grab	TMTL	A (HNO3 pH<2) (1) ✓	OK774	11/19/2020 11:10 1105	Field Sample
PW779B-1120		Potable Water/ Striggow, Brian	Grab	TMTL	A (HNO3 pH<2) (1) ✓	OK779B	11/18/2020 11:10	Field Sample

Shipment for Case Complete? N
Samples Transferred From Chain of Custody #

Special Instructions:

Analysis Key: TMTL=(TMTL) Total Metals (Superfund, RCRA)

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
Delivered	[signature] EPA	11-19-20 12:45	[signature] EPA LSASD LSB	12-2-20 0800	GOOD

E210502

USEPA Region 4 COC (REGION COPY)

COC #: 01/25/21-0016

CarrierName:

AirbillNo:

CHAIN OF CUSTODY RECORD

Ore Knob Mine Site 2017 PW

Project Number: 21-0089

Cooler #:

No: 01/25/21-0016

Lab: Region 4 Lab

Lab Contact: Mike Beall

Lab Phone: 706-355-8856

LSASD Project ID: 21-0027

Sample Identifier	CLP Sample No.	Media/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	Sample Type
-01 PW710-0121F		Potable Water/ Striggow, Brian	Grab	TMTL	A (HNO3 pH<2) (1) ✓	OK710	01/25/2021 15:25	Field Sample
-02 PW710-0121FS		Potable Water/ Striggow, Brian	Grab	TMTL	A (HNO3 pH<2) (1) ✓	OK710	01/25/2021 15:30	Field Sample
-03 PW710-0121R		Potable Water/ Striggow, Brian	Grab	TMTL	A (HNO3 pH<2) (1) ✓	OK710	01/25/2021 15:35	Field Sample

Sample(s) to be used for Lab QC: PW710-0121F Tag A

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: TMTL=(TMTL) Total Metals (Superfund, RCRA)

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
Relinquished	Malcolm Grove LSASD	1/26/21 13:30	KnBeall EPA LSASD LSB	1-27-21 0800	OK

End Of Report