

July 13, 2022

Eric Staley
City Water, Light & Power
3100 Stevenson Drive
2nd Floor Maintenance Building
Springfield, IL 62712
TEL: (217) 757-8610
FAX: (217) 757-8615



Illinois	100226
Kansas	E-10374
Louisiana	05002
Louisiana	05003
Oklahoma	9978

RE: Ash Pond Monitoring Wells

WorkOrder: 22051753

Dear Eric Staley:

TEKLAB, INC received 15 samples on 6/2/2022 7:33:00 AM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. Unless otherwise documented within this report, Teklab Inc. analyzes samples utilizing the most current methods in compliance with 40CFR. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,



Shelly A. Hennessy
Project Manager
(618)344-1004 ex 36
SHennessy@teklabinc.com



Report Contents

<http://www.teklabinc.com/>

Client: City Water, Light & Power

Work Order: 22051753

Client Project: Ash Pond Monitoring Wells

Report Date: 13-Jul-22

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Client: City Water, Light & Power**Work Order:** 22051753**Client Project:** Ash Pond Monitoring Wells**Report Date:** 13-Jul-22**Abbr Definition**

* Analytes on report marked with an asterisk are not NELAP accredited

CCV Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.

CRQL A Client Requested Quantitation Limit is a reporting limit that varies according to customer request. The CRQL may not be less than the MDL.

DF Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilution factors.

DNI Did not ignite

DUP Laboratory duplicate is a replicate aliquot prepared under the same laboratory conditions and independently analyzed to obtain a measure of precision.

ICV Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.

IDPH IL Dept. of Public Health

LCS Laboratory control sample is a sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes and analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system.

LCSD Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).

MBLK Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses.

MDL "The method detection limit is defined as the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results."

MS Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request).

MSD Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).

MW Molecular weight

NC Data is not acceptable for compliance purposes

ND Not Detected at the Reporting Limit

NELAP NELAP Accredited

PQL Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions.

RL The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.

RPD Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request).

SPK The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes.

Surr Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples.

TIC Tentatively identified compound: Analytes tentatively identified in the sample by using a library search. Only results not in the calibration standard will be reported as tentatively identified compounds. Results for tentatively identified compounds that are not present in the calibration standard, but are assigned a specific chemical name based upon the library search, are calculated using total peak areas from reconstructed ion chromatograms and a response factor of one. The nearest Internal Standard is used for the calculation. The results of any TICs must be considered estimated, and are flagged with a "T". If the estimated result is above the calibration range it is flagged "ET"

TNTC Too numerous to count (> 200 CFU)

Client: City Water, Light & Power

Work Order: 22051753

Client Project: Ash Pond Monitoring Wells

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Qualifiers

- | | |
|---|--|
| # - Unknown hydrocarbon | B - Analyte detected in associated Method Blank |
| C - RL shown is a Client Requested Quantitation Limit | E - Value above quantitation range |
| H - Holding times exceeded | I - Associated internal standard was outside method criteria |
| J - Analyte detected below quantitation limits | M - Manual Integration used to determine area response |
| ND - Not Detected at the Reporting Limit | R - RPD outside accepted recovery limits |
| S - Spike Recovery outside recovery limits | T - TIC(Tentatively identified compound) |
| X - Value exceeds Maximum Contaminant Level | |



Case Narrative

<http://www.teklabinc.com/>

Client: City Water, Light & Power

Work Order: 22051753

Client Project: Ash Pond Monitoring Wells

Report Date: 13-Jul-22

Cooler Receipt Temp: 2.0 °C

An employee of Teklab, Inc. collected the sample(s).

Radium-226 and Radium-228 analysis was performed by Summit Environmental Technologies, Inc. See attached report for results.

Locations

Collinsville

Address 5445 Horseshoe Lake Road
Collinsville, IL 62234-7425
Phone (618) 344-1004
Fax (618) 344-1005
Email jhriley@teklabinc.com

Collinsville Air

Address 5445 Horseshoe Lake Road
Collinsville, IL 62234-7425
Phone (618) 344-1004
Fax (618) 344-1005
Email EHurley@teklabinc.com

Springfield

Address 3920 Pintail Dr
Springfield, IL 62711-9415
Phone (217) 698-1004
Fax (217) 698-1005
Email KKlostermann@teklabinc.com

Chicago

Address 1319 Butterfield Rd.
Downers Grove, IL 60515
Phone (630) 324-6855
Fax
Email arenner@teklabinc.com

Kansas City

Address 8421 Nieman Road
Lenexa, KS 66214
Phone (913) 541-1998
Fax (913) 541-1998
Email jhriley@teklabinc.com

Client: City Water, Light & Power**Work Order:** 22051753**Client Project:** Ash Pond Monitoring Wells**Report Date:** 13-Jul-22

State	Dept	Cert #	NELAP	Exp Date	Lab
Illinois	IEPA	100226	NELAP	1/31/2023	Collinsville
Kansas	KDHE	E-10374	NELAP	4/30/2023	Collinsville
Louisiana	LDEQ	05002	NELAP	6/30/2023	Collinsville
Louisiana	LDEQ	05003	NELAP	6/30/2023	Collinsville
Oklahoma	ODEQ	9978	NELAP	8/31/2022	Collinsville
Arkansas	ADEQ	88-0966		3/14/2023	Collinsville
Illinois	IDPH	17584		5/31/2023	Collinsville
Iowa	IDNR	430		6/1/2024	Collinsville
Kentucky	UST	0073		1/31/2023	Collinsville
Missouri	MDNR	00930		5/31/2023	Collinsville
Missouri	MDNR	930		1/31/2025	Collinsville

Client: City Water, Light & Power
 Client Project: Ash Pond Monitoring Wells
 Lab ID: 22051753-001
 Matrix: GROUNDWATER

Work Order: 22051753
 Report Date: 13-Jul-22
 Client Sample ID: RW-3
 Collection Date: 06/01/2022 13:45

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		495.49	ft	1	06/01/2022 13:45	R313064
Depth to water	*	-5.00		6.50	ft	1	06/01/2022 13:45	R313064
Depth to water from measuring point	*	0		9.20	ft	1	06/01/2022 13:45	R313064
Elevation of groundwater surface	*	0		530.30	ft	1	06/01/2022 13:45	R313064
Measuring Point Elevation	*	0		539.50	ft	1	06/01/2022 13:45	R313064
Measuring Point Height Above Land Surface	*	0		2.70	ft	1	06/01/2022 13:45	R313064
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		< 1.0	NTU	1	06/01/2022 13:45	R313064
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		56.5	°F	1	06/01/2022 13:45	R313064
SW-846 9040B								
pH, Field	*	1.00		7.20		1	06/01/2022 13:45	R313064
SW-846 9050A								
Spec. Conductance, Field	*	1.00		783	µmhos/cm @25C	1	06/01/2022 13:45	R313064
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	20		428	mg/L	1	06/02/2022 12:01	R312777
SW-846 9036 (TOTAL)								
Sulfate	NELAP	20		< 20	mg/L	2	06/07/2022 13:55	R312927
<i>Elevated reporting limit due to matrix interference.</i>								
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		0.49	mg/L	1	06/08/2022 9:27	R312973
SW-846 9251 (TOTAL)								
Chloride	NELAP	1		31	mg/L	1	06/07/2022 13:29	R312931
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		0.138	mg/L	1	06/03/2022 14:21	193267
Barium	NELAP	0.0025		0.148	mg/L	1	06/03/2022 14:21	193267
Beryllium	NELAP	0.0005		< 0.0005	mg/L	1	06/03/2022 14:21	193267
Boron	NELAP	0.0200		0.174	mg/L	1	06/03/2022 14:21	193267
Cadmium	NELAP	0.0020		< 0.0020	mg/L	1	06/03/2022 14:21	193267
Calcium	NELAP	0.100		71.7	mg/L	1	06/03/2022 14:21	193267
Chromium	NELAP	0.0050		< 0.0050	mg/L	1	06/03/2022 14:21	193267
Cobalt	NELAP	0.0050		< 0.0050	mg/L	1	06/03/2022 14:21	193267
Lead	NELAP	0.0150		< 0.0150	mg/L	1	06/03/2022 14:21	193267
Lithium	NELAP	0.0050		0.0064	mg/L	1	06/03/2022 14:21	193267
Molybdenum	NELAP	0.0100		0.0106	mg/L	1	06/03/2022 14:21	193267
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		< 0.0010	mg/L	5	06/03/2022 22:17	193267
Selenium	NELAP	0.0010		< 0.0010	mg/L	5	06/03/2022 22:17	193267
Thallium	NELAP	0.0020		< 0.0020	mg/L	5	06/03/2022 22:17	193267
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		< 0.00020	mg/L	1	06/03/2022 10:29	193269
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		See attached	pci/L	1	06/20/2022 0:00	R314337
Radium-228	*	0		See attached	pci/L	1	06/20/2022 0:00	R314337

Client: City Water, Light & Power
 Client Project: Ash Pond Monitoring Wells
 Lab ID: 22051753-002
 Matrix: GROUNDWATER

Work Order: 22051753
 Report Date: 13-Jul-22
 Client Sample ID: AP-1
 Collection Date: 05/31/2022 13:30

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		504.29	ft	1	05/31/2022 13:30	R313064
Depth to water	*	-5.00		7.41	ft	1	05/31/2022 13:30	R313064
Depth to water from measuring point	*	0		9.68	ft	1	05/31/2022 13:30	R313064
Elevation of groundwater surface	*	0		525.69	ft	1	05/31/2022 13:30	R313064
Measuring Point Elevation	*	0		535.37	ft	1	05/31/2022 13:30	R313064
Measuring Point Height Above Land Surface	*	0		2.27	ft	1	05/31/2022 13:30	R313064
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		9.4	NTU	1	05/31/2022 13:30	R313064
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		57.6	°F	1	05/31/2022 13:30	R313064
SW-846 9040B								
pH, Field	*	1.00		6.58		1	05/31/2022 13:30	R313064
SW-846 9050A								
Spec. Conductance, Field	*	1.00		1700	µmhos/cm @25C	1	05/31/2022 13:30	R313064
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	20		1550	mg/L	1	06/02/2022 12:02	R312777
SW-846 9036 (TOTAL)								
Sulfate	NELAP	200		791	mg/L	20	06/07/2022 14:12	R312927
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		0.21	mg/L	1	06/08/2022 9:29	R312973
SW-846 9251 (TOTAL)								
Chloride	NELAP	2		59	mg/L	2	06/07/2022 14:06	R312931
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		< 0.0250	mg/L	1	06/03/2022 14:23	193267
Barium	NELAP	0.0025		0.309	mg/L	1	06/03/2022 14:23	193267
Beryllium	NELAP	0.0005		< 0.0005	mg/L	1	06/03/2022 14:23	193267
Boron	NELAP	0.400		23.1	mg/L	20	06/06/2022 19:53	193267
Cadmium	NELAP	0.0020		< 0.0020	mg/L	1	06/03/2022 14:23	193267
Calcium	NELAP	0.100		243	mg/L	1	06/03/2022 14:23	193267
Chromium	NELAP	0.0050		< 0.0050	mg/L	1	06/03/2022 14:23	193267
Cobalt	NELAP	0.0050		< 0.0050	mg/L	1	06/03/2022 14:23	193267
Lead	NELAP	0.0150		< 0.0150	mg/L	1	06/03/2022 14:23	193267
Lithium	NELAP	0.0050		0.0096	mg/L	1	06/03/2022 14:23	193267
Molybdenum	NELAP	0.0100		< 0.0100	mg/L	1	06/03/2022 14:23	193267
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		< 0.0010	mg/L	5	06/03/2022 22:23	193267
Selenium	NELAP	0.0010		< 0.0010	mg/L	5	06/03/2022 22:23	193267
Thallium	NELAP	0.0020		< 0.0020	mg/L	5	06/03/2022 22:23	193267
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		< 0.00020	mg/L	1	06/03/2022 10:31	193269
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		See attached	pci/L	1	06/20/2022 0:00	R314337
Radium-228	*	0		See attached	pci/L	1	06/20/2022 0:00	R314337

Client: City Water, Light & Power
 Client Project: Ash Pond Monitoring Wells
 Lab ID: 22051753-003
 Matrix: GROUNDWATER

Work Order: 22051753
 Report Date: 13-Jul-22
 Client Sample ID: AP-2
 Collection Date: 05/31/2022 12:12

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		514.77	ft	1	05/31/2022 12:12	R313064
Depth to water	*	-5.00		5.46	ft	1	05/31/2022 12:12	R313064
Depth to water from measuring point	*	0		7.96	ft	1	05/31/2022 12:12	R313064
Elevation of groundwater surface	*	0		528.14	ft	1	05/31/2022 12:12	R313064
Measuring Point Elevation	*	0		536.10	ft	1	05/31/2022 12:12	R313064
Measuring Point Height Above Land Surface	*	0		2.50	ft	1	05/31/2022 12:12	R313064
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		8.9	NTU	1	05/31/2022 12:12	R313064
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		54.9	°F	1	05/31/2022 12:12	R313064
SW-846 9040B								
pH, Field	*	1.00		6.43		1	05/31/2022 12:12	R313064
SW-846 9050A								
Spec. Conductance, Field	*	1.00		1430	µmhos/cm @25C	1	05/31/2022 12:12	R313064
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	20		1270	mg/L	1	06/02/2022 12:02	R312777
SW-846 9036 (TOTAL)								
Sulfate	NELAP	200		532	mg/L	20	06/07/2022 14:20	R312927
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		0.24	mg/L	1	06/08/2022 9:31	R312973
SW-846 9251 (TOTAL)								
Chloride	NELAP	1		35	mg/L	1	06/07/2022 14:14	R312931
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		< 0.0250	mg/L	1	06/03/2022 14:24	193267
Barium	NELAP	0.0025		0.0730	mg/L	1	06/03/2022 14:24	193267
Beryllium	NELAP	0.0005		< 0.0005	mg/L	1	06/03/2022 14:24	193267
Boron	NELAP	0.0200		4.25	mg/L	1	06/03/2022 14:24	193267
Cadmium	NELAP	0.0020		< 0.0020	mg/L	1	06/03/2022 14:24	193267
Calcium	NELAP	0.100		236	mg/L	1	06/03/2022 14:24	193267
Chromium	NELAP	0.0050		< 0.0050	mg/L	1	06/03/2022 14:24	193267
Cobalt	NELAP	0.0050		0.0089	mg/L	1	06/03/2022 14:24	193267
Lead	NELAP	0.0150		< 0.0150	mg/L	1	06/03/2022 14:24	193267
Lithium	NELAP	0.0050		0.0056	mg/L	1	06/03/2022 14:24	193267
Molybdenum	NELAP	0.0100		< 0.0100	mg/L	1	06/03/2022 14:24	193267
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		< 0.0010	mg/L	5	06/03/2022 22:28	193267
Selenium	NELAP	0.0010		< 0.0010	mg/L	5	06/03/2022 22:28	193267
Thallium	NELAP	0.0020		< 0.0020	mg/L	5	06/03/2022 22:28	193267
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		< 0.00020	mg/L	1	06/03/2022 10:34	193269
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		See attached	pci/L	1	06/20/2022 0:00	R314337
Radium-228	*	0		See attached	pci/L	1	06/20/2022 0:00	R314337

Client: City Water, Light & Power
 Client Project: Ash Pond Monitoring Wells
 Lab ID: 22051753-004
 Matrix: GROUNDWATER

Work Order: 22051753
 Report Date: 13-Jul-22
 Client Sample ID: AP-3
 Collection Date: 05/31/2022 11:47

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		514.45	ft	1	05/31/2022 11:47	R313064
Depth to water	*	-5.00		7.94	ft	1	05/31/2022 11:47	R313064
Depth to water from measuring point	*	0		9.64	ft	1	05/31/2022 11:47	R313064
Elevation of groundwater surface	*	0		525.76	ft	1	05/31/2022 11:47	R313064
Measuring Point Elevation	*	0		535.40	ft	1	05/31/2022 11:47	R313064
Measuring Point Height Above Land Surface	*	0		1.70	ft	1	05/31/2022 11:47	R313064
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		4.1	NTU	1	05/31/2022 11:47	R313064
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		55.2	°F	1	05/31/2022 11:47	R313064
SW-846 9040B								
pH, Field	*	1.00		6.58		1	05/31/2022 11:47	R313064
SW-846 9050A								
Spec. Conductance, Field	*	1.00		1070	µmhos/cm @25C	1	05/31/2022 11:47	R313064
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	20		942	mg/L	1	06/02/2022 12:02	R312777
SW-846 9036 (TOTAL)								
Sulfate	NELAP	100		408	mg/L	10	06/07/2022 14:27	R312927
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		0.24	mg/L	1	06/08/2022 9:33	R312973
SW-846 9251 (TOTAL)								
Chloride	NELAP	1		42	mg/L	1	06/07/2022 14:22	R312931
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		< 0.0250	mg/L	1	06/03/2022 14:26	193267
Barium	NELAP	0.0025		0.0849	mg/L	1	06/03/2022 14:26	193267
Beryllium	NELAP	0.0005		< 0.0005	mg/L	1	06/03/2022 14:26	193267
Boron	NELAP	0.0200		14.7	mg/L	1	06/03/2022 14:26	193267
Cadmium	NELAP	0.0020		< 0.0020	mg/L	1	06/03/2022 14:26	193267
Calcium	NELAP	0.100		152	mg/L	1	06/03/2022 14:26	193267
Chromium	NELAP	0.0050		< 0.0050	mg/L	1	06/03/2022 14:26	193267
Cobalt	NELAP	0.0050		< 0.0050	mg/L	1	06/03/2022 14:26	193267
Lead	NELAP	0.0150		< 0.0150	mg/L	1	06/03/2022 14:26	193267
Lithium	NELAP	0.0050		< 0.0050	mg/L	1	06/03/2022 14:26	193267
Molybdenum	NELAP	0.0100		< 0.0100	mg/L	1	06/03/2022 14:26	193267
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		< 0.0010	mg/L	5	06/03/2022 22:34	193267
Selenium	NELAP	0.0010		< 0.0010	mg/L	5	06/03/2022 22:34	193267
Thallium	NELAP	0.0020		< 0.0020	mg/L	5	06/03/2022 22:34	193267
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		< 0.00020	mg/L	1	06/03/2022 10:36	193269
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		See attached	pci/L	1	06/20/2022 0:00	R314337
Radium-228	*	0		See attached	pci/L	1	06/20/2022 0:00	R314337

Client: City Water, Light & Power
 Client Project: Ash Pond Monitoring Wells
 Lab ID: 22051753-005
 Matrix: GROUNDWATER

Work Order: 22051753
 Report Date: 13-Jul-22
 Client Sample ID: AP-4
 Collection Date: 05/31/2022 16:28

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		498.79	ft	1	05/31/2022 16:28	R313064
Depth to water	*	-5.00		3.78	ft	1	05/31/2022 16:28	R313064
Depth to water from measuring point	*	0		9.08	ft	1	05/31/2022 16:28	R313064
Elevation of groundwater surface	*	0		550.12	ft	1	05/31/2022 16:28	R313064
Measuring Point Elevation	*	0		559.20	ft	1	05/31/2022 16:28	R313064
Measuring Point Height Above Land Surface	*	0		5.30	ft	1	05/31/2022 16:28	R313064
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		61	NTU	1	05/31/2022 16:28	R313064
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		60.8	°F	1	05/31/2022 16:28	R313064
SW-846 9040B								
pH, Field	*	1.00		6.86		1	05/31/2022 16:28	R313064
SW-846 9050A								
Spec. Conductance, Field	*	1.00		829	µmhos/cm @25C	1	05/31/2022 16:28	R313064
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	20		516	mg/L	1	06/02/2022 12:03	R312777
SW-846 9036 (TOTAL)								
Sulfate	NELAP	10		< 10	mg/L	1	06/07/2022 14:46	R312927
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		0.15	mg/L	1	06/08/2022 9:35	R312973
SW-846 9251 (TOTAL)								
Chloride	NELAP	1		16	mg/L	1	06/07/2022 14:46	R312931
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		< 0.0250	mg/L	1	06/03/2022 14:28	193267
Barium	NELAP	0.0025		0.422	mg/L	1	06/03/2022 14:28	193267
Beryllium	NELAP	0.0005		< 0.0005	mg/L	1	06/03/2022 14:28	193267
Boron	NELAP	0.0200		0.0968	mg/L	1	06/06/2022 19:50	193267
Cadmium	NELAP	0.0020		< 0.0020	mg/L	1	06/03/2022 14:28	193267
Calcium	NELAP	0.100		122	mg/L	1	06/03/2022 14:28	193267
Chromium	NELAP	0.0050		< 0.0050	mg/L	1	06/03/2022 14:28	193267
Cobalt	NELAP	0.0050		< 0.0050	mg/L	1	06/03/2022 14:28	193267
Lead	NELAP	0.0150		< 0.0150	mg/L	1	06/03/2022 14:28	193267
Lithium	NELAP	0.0050		0.0092	mg/L	1	06/03/2022 14:28	193267
Molybdenum	NELAP	0.0100		< 0.0100	mg/L	1	06/03/2022 14:28	193267
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		< 0.0010	mg/L	5	06/03/2022 22:39	193267
Selenium	NELAP	0.0010		< 0.0010	mg/L	5	06/03/2022 22:39	193267
Thallium	NELAP	0.0020		< 0.0020	mg/L	5	06/03/2022 22:39	193267
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		< 0.00020	mg/L	1	06/03/2022 11:30	193269
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		See attached	pci/L	1	06/28/2022 0:00	R314337
Radium-228	*	0		See attached	pci/L	1	06/28/2022 0:00	R314337

Client: City Water, Light & Power
 Client Project: Ash Pond Monitoring Wells
 Lab ID: 22051753-006
 Matrix: GROUNDWATER

Work Order: 22051753
 Report Date: 13-Jul-22
 Client Sample ID: AP-5
 Collection Date: 05/31/2022 16:55

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		552.63	ft	1	05/31/2022 16:55	R313064
Depth to water	*	-5.00		7.75	ft	1	05/31/2022 16:55	R313064
Depth to water from measuring point	*	0		10.05	ft	1	05/31/2022 16:55	R313064
Elevation of groundwater surface	*	0		573.85	ft	1	05/31/2022 16:55	R313064
Measuring Point Elevation	*	0		583.90	ft	1	05/31/2022 16:55	R313064
Measuring Point Height Above Land Surface	*	0		2.30	ft	1	05/31/2022 16:55	R313064
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		2.0	NTU	1	05/31/2022 16:55	R313064
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		55.2	°F	1	05/31/2022 16:55	R313064
SW-846 9040B								
pH, Field	*	1.00		7.17		1	05/31/2022 16:55	R313064
SW-846 9050A								
Spec. Conductance, Field	*	1.00		513	µmhos/cm @25C	1	05/31/2022 16:55	R313064
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	20		354	mg/L	1	06/02/2022 12:03	R312777
SW-846 9036 (TOTAL)								
Sulfate	NELAP	10		35	mg/L	1	06/07/2022 14:54	R312927
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		0.38	mg/L	1	06/08/2022 9:37	R312973
SW-846 9251 (TOTAL)								
Chloride	NELAP	1		2	mg/L	1	06/07/2022 14:54	R312931
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		< 0.0250	mg/L	1	06/03/2022 14:30	193267
Barium	NELAP	0.0025		0.0345	mg/L	1	06/03/2022 14:30	193267
Beryllium	NELAP	0.0005		< 0.0005	mg/L	1	06/03/2022 14:30	193267
Boron	NELAP	0.0200		0.0341	mg/L	1	06/03/2022 14:30	193267
Cadmium	NELAP	0.0020		< 0.0020	mg/L	1	06/03/2022 14:30	193267
Calcium	NELAP	0.100		74.3	mg/L	1	06/03/2022 14:30	193267
Chromium	NELAP	0.0050		< 0.0050	mg/L	1	06/03/2022 14:30	193267
Cobalt	NELAP	0.0050		< 0.0050	mg/L	1	06/03/2022 14:30	193267
Lead	NELAP	0.0150		< 0.0150	mg/L	1	06/03/2022 14:30	193267
Lithium	NELAP	0.0050		< 0.0050	mg/L	1	06/03/2022 14:30	193267
Molybdenum	NELAP	0.0100		< 0.0100	mg/L	1	06/03/2022 14:30	193267
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		< 0.0010	mg/L	5	06/03/2022 22:45	193267
Selenium	NELAP	0.0010		< 0.0010	mg/L	5	06/03/2022 22:45	193267
Thallium	NELAP	0.0020		< 0.0020	mg/L	5	06/03/2022 22:45	193267
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		< 0.00020	mg/L	1	06/03/2022 10:50	193269
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		See attached	pci/L	1	06/28/2022 0:00	R314337
Radium-228	*	0		See attached	pci/L	1	06/28/2022 0:00	R314337

Client: City Water, Light & Power
 Client Project: Ash Pond Monitoring Wells
 Lab ID: 22051753-007
 Matrix: GROUNDWATER

Work Order: 22051753
 Report Date: 13-Jul-22
 Client Sample ID: AP-6
 Collection Date: 05/31/2022 14:22

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		498.20	ft	1	05/31/2022 14:22	R313064
Depth to water	*	-5.00		5.38	ft	1	05/31/2022 14:22	R313064
Depth to water from measuring point	*	0		7.80	ft	1	05/31/2022 14:22	R313064
Elevation of groundwater surface	*	0		530.02	ft	1	05/31/2022 14:22	R313064
Measuring Point Elevation	*	0		537.82	ft	1	05/31/2022 14:22	R313064
Measuring Point Height Above Land Surface	*	0		2.42	ft	1	05/31/2022 14:22	R313064
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		5.4	NTU	1	05/31/2022 14:22	R313064
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		57.2	°F	1	05/31/2022 14:22	R313064
SW-846 9040B								
pH, Field	*	1.00		7.11		1	05/31/2022 14:22	R313064
SW-846 9050A								
Spec. Conductance, Field	*	1.00		664	µmhos/cm @25C	1	05/31/2022 14:22	R313064
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	20		458	mg/L	1	06/02/2022 12:03	R312777
SW-846 9036 (TOTAL)								
Sulfate	NELAP	10		< 10	mg/L	1	06/07/2022 15:02	R312927
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		0.55	mg/L	1	06/08/2022 9:39	R312973
SW-846 9251 (TOTAL)								
Chloride	NELAP	1		38	mg/L	1	06/07/2022 15:02	R312931
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		< 0.0250	mg/L	1	06/03/2022 14:31	193267
Barium	NELAP	0.0025		0.141	mg/L	1	06/03/2022 14:31	193267
Beryllium	NELAP	0.0005		< 0.0005	mg/L	1	06/03/2022 14:31	193267
Boron	NELAP	0.0200		0.275	mg/L	1	06/03/2022 14:31	193267
Cadmium	NELAP	0.0020		< 0.0020	mg/L	1	06/03/2022 14:31	193267
Calcium	NELAP	0.100		66.2	mg/L	1	06/03/2022 14:31	193267
Chromium	NELAP	0.0050		< 0.0050	mg/L	1	06/03/2022 14:31	193267
Cobalt	NELAP	0.0050		< 0.0050	mg/L	1	06/03/2022 14:31	193267
Lead	NELAP	0.0150		< 0.0150	mg/L	1	06/03/2022 14:31	193267
Lithium	NELAP	0.0050		0.0079	mg/L	1	06/03/2022 14:31	193267
Molybdenum	NELAP	0.0100		< 0.0100	mg/L	1	06/03/2022 14:31	193267
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		< 0.0010	mg/L	5	06/03/2022 22:50	193267
Selenium	NELAP	0.0010		< 0.0010	mg/L	5	06/03/2022 22:50	193267
Thallium	NELAP	0.0020		< 0.0020	mg/L	5	06/03/2022 22:50	193267
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		< 0.00020	mg/L	1	06/03/2022 10:52	193269
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		See attached	pci/L	1	06/28/2022 0:00	R314337
Radium-228	*	0		See attached	pci/L	1	06/28/2022 0:00	R314337

Client: City Water, Light & Power
 Client Project: Ash Pond Monitoring Wells
 Lab ID: 22051753-008
 Matrix: GROUNDWATER

Work Order: 22051753
 Report Date: 13-Jul-22
 Client Sample ID: AP-7
 Collection Date: 06/01/2022 10:19

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		496.50	ft	1	06/01/2022 10:19	R313064
Depth to water	*	-5.00		7.24	ft	1	06/01/2022 10:19	R313064
Depth to water from measuring point	*	0		9.90	ft	1	06/01/2022 10:19	R313064
Elevation of groundwater surface	*	0		529.12	ft	1	06/01/2022 10:19	R313064
Measuring Point Elevation	*	0		539.02	ft	1	06/01/2022 10:19	R313064
Measuring Point Height Above Land Surface	*	0		2.66	ft	1	06/01/2022 10:19	R313064
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		6.8	NTU	1	06/01/2022 10:19	R313064
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		55.9	°F	1	06/01/2022 10:19	R313064
SW-846 9040B								
pH, Field	*	1.00		6.92		1	06/01/2022 10:19	R313064
SW-846 9050A								
Spec. Conductance, Field	*	1.00		923	µmhos/cm @25C	1	06/01/2022 10:19	R313064
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	20		480	mg/L	1	06/02/2022 12:04	R312777
SW-846 9036 (TOTAL)								
Sulfate	NELAP	10		< 10	mg/L	1	06/09/2022 9:39	R313062
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		0.56	mg/L	1	06/08/2022 9:41	R312973
SW-846 9251 (TOTAL)								
Chloride	NELAP	2		66	mg/L	2	06/07/2022 15:10	R312931
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		0.0468	mg/L	1	06/03/2022 14:33	193267
Barium	NELAP	0.0025		0.130	mg/L	1	06/03/2022 14:33	193267
Beryllium	NELAP	0.0005		< 0.0005	mg/L	1	06/03/2022 14:33	193267
Boron	NELAP	0.0200		0.339	mg/L	1	06/03/2022 14:33	193267
Cadmium	NELAP	0.0020		< 0.0020	mg/L	1	06/03/2022 14:33	193267
Calcium	NELAP	0.100		64.9	mg/L	1	06/03/2022 14:33	193267
Chromium	NELAP	0.0050		< 0.0050	mg/L	1	06/03/2022 14:33	193267
Cobalt	NELAP	0.0050		< 0.0050	mg/L	1	06/03/2022 14:33	193267
Lead	NELAP	0.0150		< 0.0150	mg/L	1	06/03/2022 14:33	193267
Lithium	NELAP	0.0050		0.0079	mg/L	1	06/03/2022 14:33	193267
Molybdenum	NELAP	0.0100		< 0.0100	mg/L	1	06/03/2022 14:33	193267
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		< 0.0010	mg/L	5	06/03/2022 22:56	193267
Selenium	NELAP	0.0010		< 0.0010	mg/L	5	06/03/2022 22:56	193267
Thallium	NELAP	0.0020		< 0.0020	mg/L	5	06/03/2022 22:56	193267
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		< 0.00020	mg/L	1	06/03/2022 10:54	193269
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		See attached	pci/L	1	06/29/2022 0:00	R314337
Radium-228	*	0		See attached	pci/L	1	06/29/2022 0:00	R314337

Client: City Water, Light & Power
 Client Project: Ash Pond Monitoring Wells
 Lab ID: 22051753-009
 Matrix: GROUNDWATER

Work Order: 22051753
 Report Date: 13-Jul-22
 Client Sample ID: AP-8
 Collection Date: 05/31/2022 13:57

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		497.60	ft	1	05/31/2022 13:57	R313064
Depth to water	*	-5.00		2.13	ft	1	05/31/2022 13:57	R313064
Depth to water from measuring point	*	0		5.03	ft	1	05/31/2022 13:57	R313064
Elevation of groundwater surface	*	0		532.17	ft	1	05/31/2022 13:57	R313064
Measuring Point Elevation	*	0		537.20	ft	1	05/31/2022 13:57	R313064
Measuring Point Height Above Land Surface	*	0		2.90	ft	1	05/31/2022 13:57	R313064
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		3.0	NTU	1	05/31/2022 13:57	R313064
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		56.7	°F	1	05/31/2022 13:57	R313064
SW-846 9040B								
pH, Field	*	1.00		6.90		1	05/31/2022 13:57	R313064
SW-846 9050A								
Spec. Conductance, Field	*	1.00		864	µmhos/cm @25C	1	05/31/2022 13:57	R313064
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	20		552	mg/L	1	06/02/2022 12:04	R312777
SW-846 9036 (TOTAL)								
Sulfate	NELAP	10		< 10	mg/L	1	06/07/2022 15:17	R312927
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		0.31	mg/L	1	06/08/2022 9:51	R312973
SW-846 9251 (TOTAL)								
Chloride	NELAP	1		28	mg/L	1	06/07/2022 15:18	R312931
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		0.0352	mg/L	1	06/03/2022 14:35	193267
Barium	NELAP	0.0025		0.356	mg/L	1	06/03/2022 14:35	193267
Beryllium	NELAP	0.0005		< 0.0005	mg/L	1	06/03/2022 14:35	193267
Boron	NELAP	0.0200		0.0877	mg/L	1	06/03/2022 14:35	193267
Cadmium	NELAP	0.0020		< 0.0020	mg/L	1	06/03/2022 14:35	193267
Calcium	NELAP	0.100		96.5	mg/L	1	06/03/2022 14:35	193267
Chromium	NELAP	0.0050		< 0.0050	mg/L	1	06/03/2022 14:35	193267
Cobalt	NELAP	0.0050		< 0.0050	mg/L	1	06/03/2022 14:35	193267
Lead	NELAP	0.0150		< 0.0150	mg/L	1	06/03/2022 14:35	193267
Lithium	NELAP	0.0050		0.0065	mg/L	1	06/03/2022 14:35	193267
Molybdenum	NELAP	0.0100		< 0.0100	mg/L	1	06/03/2022 14:35	193267
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		< 0.0010	mg/L	5	06/03/2022 23:40	193267
Selenium	NELAP	0.0010		< 0.0010	mg/L	5	06/03/2022 23:40	193267
Thallium	NELAP	0.0020		< 0.0020	mg/L	5	06/03/2022 23:40	193267
CCV recovered outside the upper control limits for Se and Tl. Sample results are below the reporting limit. Data is reportable per the TNI standard.								
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		< 0.00020	mg/L	1	06/03/2022 10:56	193269
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		See attached	pci/L	1	06/28/2022 0:00	R314337
Radium-228	*	0		See attached	pci/L	1	06/28/2022 0:00	R314337

Client: City Water, Light & Power
 Client Project: Ash Pond Monitoring Wells
 Lab ID: 22051753-010
 Matrix: GROUNDWATER

Work Order: 22051753
 Report Date: 13-Jul-22
 Client Sample ID: AP-9
 Collection Date: 06/01/2022 10:47

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		501.80	ft	1	06/01/2022 10:47	R313064
Depth to water	*	-5.00		8.51	ft	1	06/01/2022 10:47	R313064
Depth to water from measuring point	*	0		11.61	ft	1	06/01/2022 10:47	R313064
Elevation of groundwater surface	*	0		528.69	ft	1	06/01/2022 10:47	R313064
Measuring Point Elevation	*	0		540.30	ft	1	06/01/2022 10:47	R313064
Measuring Point Height Above Land Surface	*	0		3.10	ft	1	06/01/2022 10:47	R313064
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		220	NTU	1	06/01/2022 10:47	R313064
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		56.7	°F	1	06/01/2022 10:47	R313064
SW-846 9040B								
pH, Field	*	1.00		6.63		1	06/01/2022 10:47	R313064
SW-846 9050A								
Spec. Conductance, Field	*	1.00		1130	µmhos/cm @25C	1	06/01/2022 10:47	R313064
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	20		618	mg/L	1	06/03/2022 8:44	R312832
SW-846 9036 (TOTAL)								
Sulfate	NELAP	50		57	mg/L	5	06/07/2022 15:47	R312927
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		0.23	mg/L	1	06/08/2022 9:53	R312973
SW-846 9251 (TOTAL)								
Chloride	NELAP	5		64	mg/L	5	06/07/2022 15:47	R312931
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		< 0.0250	mg/L	1	06/03/2022 14:47	193267
Barium	NELAP	0.0025		0.399	mg/L	1	06/03/2022 14:47	193267
Beryllium	NELAP	0.0005		< 0.0005	mg/L	1	06/03/2022 14:47	193267
Boron	NELAP	0.0200		0.122	mg/L	1	06/03/2022 14:47	193267
Cadmium	NELAP	0.0020		< 0.0020	mg/L	1	06/03/2022 14:47	193267
Calcium	NELAP	0.100	S	112	mg/L	1	06/03/2022 14:47	193267
Chromium	NELAP	0.0050		< 0.0050	mg/L	1	06/03/2022 14:47	193267
Cobalt	NELAP	0.0050		< 0.0050	mg/L	1	06/03/2022 14:47	193267
Lead	NELAP	0.0150		0.0168	mg/L	1	06/03/2022 14:47	193267
Lithium	NELAP	0.0050		0.0073	mg/L	1	06/03/2022 14:47	193267
Molybdenum	NELAP	0.0100		< 0.0100	mg/L	1	06/03/2022 14:47	193267
<i>Matrix spike control limits for Ca are not applicable due to high sample/spike ratio.</i>								
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		< 0.0010	mg/L	5	06/04/2022 0:07	193267
Selenium	NELAP	0.0010		< 0.0010	mg/L	5	06/04/2022 0:07	193267
Thallium	NELAP	0.0020		< 0.0020	mg/L	5	06/04/2022 0:07	193267
<i>CCV recovered outside the upper control limits for Se and Tl. Sample results are below the reporting limit. Data is reportable per the TNI standard.</i>								
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		< 0.00020	mg/L	1	06/03/2022 10:59	193269
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		See attached	pci/L	1	06/28/2022 0:00	R314337



Laboratory Results

<http://www.teklabinc.com/>

Client: City Water, Light & Power
Client Project: Ash Pond Monitoring Wells
Lab ID: 22051753-010
Matrix: GROUNDWATER

Work Order: 22051753
Report Date: 13-Jul-22
Client Sample ID: AP-9
Collection Date: 06/01/2022 10:47

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
EPA 903.0/904.0, RADIUM 226/228								
Radium-228	*	0		See attached	pCi/L	1	06/28/2022 0:00	R314337

Client: City Water, Light & Power
 Client Project: Ash Pond Monitoring Wells
 Lab ID: 22051753-011
 Matrix: GROUNDWATER

Work Order: 22051753
 Report Date: 13-Jul-22
 Client Sample ID: AP-10
 Collection Date: 05/31/2022 13:01

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		499.43	ft	1	05/31/2022 13:01	R313064
Depth to water	*	-5.00		0.52	ft	1	05/31/2022 13:01	R313064
Depth to water from measuring point	*	0		3.62	ft	1	05/31/2022 13:01	R313064
Elevation of groundwater surface	*	0		533.88	ft	1	05/31/2022 13:01	R313064
Measuring Point Elevation	*	0		537.50	ft	1	05/31/2022 13:01	R313064
Measuring Point Height Above Land Surface	*	0		3.10	ft	1	05/31/2022 13:01	R313064
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		23	NTU	1	05/31/2022 13:01	R313064
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		56.5	°F	1	05/31/2022 13:01	R313064
SW-846 9040B								
pH, Field	*	1.00		6.69		1	05/31/2022 13:01	R313064
SW-846 9050A								
Spec. Conductance, Field	*	1.00		1100	µmhos/cm @25C	1	05/31/2022 13:01	R313064
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	20		752	mg/L	1	06/03/2022 8:44	R312832
SW-846 9036 (TOTAL)								
Sulfate	NELAP	50		86	mg/L	5	06/07/2022 15:55	R312927
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		0.35	mg/L	1	06/08/2022 9:55	R312973
SW-846 9251 (TOTAL)								
Chloride	NELAP	1		29	mg/L	1	06/07/2022 15:50	R312931
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		< 0.0250	mg/L	1	06/03/2022 14:52	193267
Barium	NELAP	0.0025		0.571	mg/L	1	06/03/2022 14:52	193267
Beryllium	NELAP	0.0005		< 0.0005	mg/L	1	06/03/2022 14:52	193267
Boron	NELAP	0.0200		3.58	mg/L	1	06/03/2022 14:52	193267
Cadmium	NELAP	0.0020		< 0.0020	mg/L	1	06/03/2022 14:52	193267
Calcium	NELAP	0.100		141	mg/L	1	06/03/2022 14:52	193267
Chromium	NELAP	0.0050		< 0.0050	mg/L	1	06/03/2022 14:52	193267
Cobalt	NELAP	0.0050		< 0.0050	mg/L	1	06/03/2022 14:52	193267
Lead	NELAP	0.0150		< 0.0150	mg/L	1	06/03/2022 14:52	193267
Lithium	NELAP	0.0050		0.0100	mg/L	1	06/03/2022 14:52	193267
Molybdenum	NELAP	0.0100		< 0.0100	mg/L	1	06/03/2022 14:52	193267
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		< 0.0010	mg/L	5	06/03/2022 23:45	193267
Selenium	NELAP	0.0010		< 0.0010	mg/L	5	06/03/2022 23:45	193267
Thallium	NELAP	0.0020		< 0.0020	mg/L	5	06/03/2022 23:45	193267
CCV recovered outside the upper control limits for Se and Tl. Sample results are below the reporting limit. Data is reportable per the TNI standard.								
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		< 0.00020	mg/L	1	06/03/2022 11:01	193269
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		See attached	pci/L	1	06/28/2022 0:00	R314337
Radium-228	*	0		See attached	pci/L	1	06/28/2022 0:00	R314337

Client: City Water, Light & Power
 Client Project: Ash Pond Monitoring Wells
 Lab ID: 22051753-012
 Matrix: GROUNDWATER

Work Order: 22051753
 Report Date: 13-Jul-22
 Client Sample ID: AP-11
 Collection Date: 06/01/2022 13:02

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		515.15	ft	1	06/01/2022 13:02	R313064
Depth to water	*	-5.00		10.40	ft	1	06/01/2022 13:02	R313064
Depth to water from measuring point	*	0		13.20	ft	1	06/01/2022 13:02	R313064
Elevation of groundwater surface	*	0		524.90	ft	1	06/01/2022 13:02	R313064
Measuring Point Elevation	*	0		538.10	ft	1	06/01/2022 13:02	R313064
Measuring Point Height Above Land Surface	*	0		2.80	ft	1	06/01/2022 13:02	R313064
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		4.3	NTU	1	06/01/2022 13:02	R313064
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		53.8	°F	1	06/01/2022 13:02	R313064
SW-846 9040B								
pH, Field	*	1.00		6.51		1	06/01/2022 13:02	R313064
SW-846 9050A								
Spec. Conductance, Field	*	1.00		1300	µmhos/cm @25C	1	06/01/2022 13:02	R313064
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	20		778	mg/L	1	06/03/2022 8:44	R312832
SW-846 9036 (TOTAL)								
Sulfate	NELAP	20		88	mg/L	2	06/07/2022 15:58	R312927
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		0.22	mg/L	1	06/08/2022 9:57	R312973
SW-846 9251 (TOTAL)								
Chloride	NELAP	5		119	mg/L	5	06/07/2022 16:03	R312931
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		< 0.0250	mg/L	1	06/03/2022 14:54	193267
Barium	NELAP	0.0025		0.152	mg/L	1	06/03/2022 14:54	193267
Beryllium	NELAP	0.0005		< 0.0005	mg/L	1	06/03/2022 14:54	193267
Boron	NELAP	0.0200		0.271	mg/L	1	06/06/2022 19:52	193267
Cadmium	NELAP	0.0020		< 0.0020	mg/L	1	06/03/2022 14:54	193267
Calcium	NELAP	0.100		149	mg/L	1	06/03/2022 14:54	193267
Chromium	NELAP	0.0050		< 0.0050	mg/L	1	06/03/2022 14:54	193267
Cobalt	NELAP	0.0050		< 0.0050	mg/L	1	06/03/2022 14:54	193267
Lead	NELAP	0.0150		< 0.0150	mg/L	1	06/03/2022 14:54	193267
Lithium	NELAP	0.0050		< 0.0050	mg/L	1	06/03/2022 14:54	193267
Molybdenum	NELAP	0.0100		< 0.0100	mg/L	1	06/03/2022 14:54	193267
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		< 0.0010	mg/L	5	06/03/2022 23:51	193267
Selenium	NELAP	0.0010		< 0.0010	mg/L	5	06/03/2022 23:51	193267
Thallium	NELAP	0.0020		< 0.0020	mg/L	5	06/03/2022 23:51	193267
<i>CCV recovered outside the upper control limits for Se and Tl. Sample results are below the reporting limit. Data is reportable per the TNI standard.</i>								
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		< 0.00020	mg/L	1	06/03/2022 11:03	193269
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		See attached	pci/L	1	06/29/2022 0:00	R314337
Radium-228	*	0		See attached	pci/L	1	06/29/2022 0:00	R314337

Client: City Water, Light & Power
 Client Project: Ash Pond Monitoring Wells
 Lab ID: 22051753-013
 Matrix: GROUNDWATER

Work Order: 22051753
 Report Date: 13-Jul-22
 Client Sample ID: AP-12
 Collection Date: 06/01/2022 12:34

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		510.30	ft	1	06/01/2022 12:34	R313064
Depth to water	*	-5.00		11.37	ft	1	06/01/2022 12:34	R313064
Depth to water from measuring point	*	0		14.27	ft	1	06/01/2022 12:34	R313064
Elevation of groundwater surface	*	0		526.43	ft	1	06/01/2022 12:34	R313064
Measuring Point Elevation	*	0		540.70	ft	1	06/01/2022 12:34	R313064
Measuring Point Height Above Land Surface	*	0		2.90	ft	1	06/01/2022 12:34	R313064
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		400	NTU	1	06/01/2022 12:34	R313064
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		56.8	°F	1	06/01/2022 12:34	R313064
SW-846 9040B								
pH, Field	*	1.00		6.44		1	06/01/2022 12:34	R313064
SW-846 9050A								
Spec. Conductance, Field	*	1.00		2200	µmhos/cm @25C	1	06/01/2022 12:34	R313064
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	20		1600	mg/L	1	06/03/2022 8:45	R312832
SW-846 9036 (TOTAL)								
Sulfate	NELAP	200		678	mg/L	20	06/07/2022 16:11	R312927
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		0.19	mg/L	1	06/08/2022 9:59	R312973
SW-846 9251 (TOTAL)								
Chloride	NELAP	5		162	mg/L	5	06/07/2022 16:06	R312931
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		< 0.0250	mg/L	1	06/03/2022 14:55	193267
Barium	NELAP	0.0025		0.101	mg/L	1	06/03/2022 14:55	193267
Beryllium	NELAP	0.0005		0.0005	mg/L	1	06/03/2022 14:55	193267
Boron	NELAP	0.0200		< 0.0200	mg/L	1	06/03/2022 14:55	193267
Cadmium	NELAP	0.0020		< 0.0020	mg/L	1	06/03/2022 14:55	193267
Calcium	NELAP	0.100		287	mg/L	1	06/03/2022 14:55	193267
Chromium	NELAP	0.0050		0.0119	mg/L	1	06/03/2022 14:55	193267
Cobalt	NELAP	0.0050		0.0077	mg/L	1	06/03/2022 14:55	193267
Lead	NELAP	0.0150		< 0.0150	mg/L	1	06/03/2022 14:55	193267
Lithium	NELAP	0.0050		0.0141	mg/L	1	06/03/2022 14:55	193267
Molybdenum	NELAP	0.0100		< 0.0100	mg/L	1	06/03/2022 14:55	193267
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		< 0.0010	mg/L	5	06/03/2022 23:56	193267
Selenium	NELAP	0.0010		< 0.0010	mg/L	5	06/03/2022 23:56	193267
Thallium	NELAP	0.0020		< 0.0020	mg/L	5	06/03/2022 23:56	193267
<i>CCV recovered outside the upper control limits for Se and Tl. Sample results are below the reporting limit. Data is reportable per the TNI standard.</i>								
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		< 0.00020	mg/L	1	06/03/2022 11:10	193269
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		See attached	pci/L	1	07/11/2022 0:00	R314337
Radium-228	*	0		See attached	pci/L	1	07/11/2022 0:00	R314337

Client: City Water, Light & Power
 Client Project: Ash Pond Monitoring Wells
 Lab ID: 22051753-014
 Matrix: GROUNDWATER

Work Order: 22051753
 Report Date: 13-Jul-22
 Client Sample ID: AP-13
 Collection Date: 06/01/2022 12:04

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		511.00	ft	1	06/01/2022 12:04	R313064
Depth to water	*	-5.00		12.50	ft	1	06/01/2022 12:04	R313064
Depth to water from measuring point	*	0		15.90	ft	1	06/01/2022 12:04	R313064
Elevation of groundwater surface	*	0		526.10	ft	1	06/01/2022 12:04	R313064
Measuring Point Elevation	*	0		542.00	ft	1	06/01/2022 12:04	R313064
Measuring Point Height Above Land Surface	*	0		3.40	ft	1	06/01/2022 12:04	R313064
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		130	NTU	1	06/01/2022 12:04	R313064
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		58.5	°F	1	06/01/2022 12:04	R313064
SW-846 9040B								
pH, Field	*	1.00		6.59		1	06/01/2022 12:04	R313064
SW-846 9050A								
Spec. Conductance, Field	*	1.00		897	µmhos/cm @25C	1	06/01/2022 12:04	R313064
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	20		530	mg/L	1	06/03/2022 8:45	R312832
SW-846 9036 (TOTAL)								
Sulfate	NELAP	50		135	mg/L	5	06/07/2022 16:19	R312927
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		0.24	mg/L	1	06/08/2022 10:01	R312973
SW-846 9251 (TOTAL)								
Chloride	NELAP	1		27	mg/L	1	06/07/2022 16:14	R312931
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		< 0.0250	mg/L	1	06/03/2022 14:57	193267
Barium	NELAP	0.0025		0.161	mg/L	1	06/03/2022 14:57	193267
Beryllium	NELAP	0.0005		< 0.0005	mg/L	1	06/03/2022 14:57	193267
Boron	NELAP	0.0200		0.0375	mg/L	1	06/03/2022 14:57	193267
Cadmium	NELAP	0.0020		< 0.0020	mg/L	1	06/03/2022 14:57	193267
Calcium	NELAP	0.100		105	mg/L	1	06/03/2022 14:57	193267
Chromium	NELAP	0.0050		< 0.0050	mg/L	1	06/03/2022 14:57	193267
Cobalt	NELAP	0.0050		< 0.0050	mg/L	1	06/03/2022 14:57	193267
Lead	NELAP	0.0150		< 0.0150	mg/L	1	06/03/2022 14:57	193267
Lithium	NELAP	0.0050		0.0114	mg/L	1	06/03/2022 14:57	193267
Molybdenum	NELAP	0.0100		< 0.0100	mg/L	1	06/03/2022 14:57	193267
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		< 0.0010	mg/L	5	06/04/2022 0:02	193267
Selenium	NELAP	0.0010		< 0.0010	mg/L	5	06/04/2022 0:02	193267
Thallium	NELAP	0.0020		< 0.0020	mg/L	5	06/04/2022 0:02	193267
<i>CCV recovered outside the upper control limits for Se and Tl. Sample results are below the reporting limit. Data is reportable per the TNI standard.</i>								
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		< 0.00020	mg/L	1	06/03/2022 11:12	193269
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		See attached	pci/L	1	07/11/2022 0:00	R314337
Radium-228	*	0		See attached	pci/L	1	07/11/2022 0:00	R314337

Client: City Water, Light & Power
 Client Project: Ash Pond Monitoring Wells
 Lab ID: 22051753-015
 Matrix: GROUNDWATER

Work Order: 22051753
 Report Date: 13-Jul-22
 Client Sample ID: AP-14
 Collection Date: 05/31/2022 15:43

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		508.40	ft	1	05/31/2022 15:43	R313064
Depth to water	*	-5.00		-1.00	ft	1	05/31/2022 15:43	R313064
Depth to water from measuring point	*	0		1.80	ft	1	05/31/2022 15:43	R313064
Elevation of groundwater surface	*	0		537.80	ft	1	05/31/2022 15:43	R313064
Measuring Point Elevation	*	0		539.60	ft	1	05/31/2022 15:43	R313064
Measuring Point Height Above Land Surface	*	0		2.80	ft	1	05/31/2022 15:43	R313064
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		18	NTU	1	05/31/2022 15:43	R313064
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		56.1	°F	1	05/31/2022 15:43	R313064
SW-846 9040B								
pH, Field	*	1.00		6.95		1	05/31/2022 15:43	R313064
SW-846 9050A								
Spec. Conductance, Field	*	1.00		1400	µmhos/cm @25C	1	05/31/2022 15:43	R313064
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	20		1340	mg/L	1	06/03/2022 8:45	R312832
SW-846 9036 (TOTAL)								
Sulfate	NELAP	200		681	mg/L	20	06/07/2022 16:43	R312927
SW-846 9214 (TOTAL)								
Fluoride	NELAP	0.10		0.30	mg/L	1	06/08/2022 10:03	R312973
SW-846 9251 (TOTAL)								
Chloride	NELAP	2		52	mg/L	2	06/07/2022 16:38	R312931
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Arsenic	NELAP	0.0250		< 0.0250	mg/L	1	06/03/2022 14:59	193267
Barium	NELAP	0.0025		0.0343	mg/L	1	06/03/2022 14:59	193267
Beryllium	NELAP	0.0005		< 0.0005	mg/L	1	06/03/2022 14:59	193267
Boron	NELAP	0.400		23.3	mg/L	20	06/06/2022 19:55	193267
Cadmium	NELAP	0.0020		< 0.0020	mg/L	1	06/03/2022 14:59	193267
Calcium	NELAP	0.100		215	mg/L	1	06/03/2022 14:59	193267
Chromium	NELAP	0.0050		< 0.0050	mg/L	1	06/03/2022 14:59	193267
Cobalt	NELAP	0.0050		< 0.0050	mg/L	1	06/03/2022 14:59	193267
Lead	NELAP	0.0150		0.0189	mg/L	1	06/06/2022 17:58	193267
Lithium	NELAP	0.0050		0.0066	mg/L	1	06/03/2022 14:59	193267
Molybdenum	NELAP	0.0100		< 0.0100	mg/L	1	06/03/2022 14:59	193267
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		< 0.0010	mg/L	5	06/04/2022 1:03	193267
Selenium	NELAP	0.0010		< 0.0010	mg/L	5	06/04/2022 1:03	193267
Thallium	NELAP	0.0020		< 0.0020	mg/L	5	06/04/2022 1:03	193267
<i>CCV recovered outside the upper control limits Se and TI. Sample results are below the reporting limit. Data is reportable per the TNI standard.</i>								
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		< 0.00020	mg/L	1	06/03/2022 11:14	193269
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		See attached	pci/L	1	07/11/2022 0:00	R314337
Radium-228	*	0		See attached	pci/L	1	07/11/2022 0:00	R314337



Receiving Check List

<http://www.teklabinc.com/>

Client: City Water, Light & Power

Work Order: 22051753

Client Project: Ash Pond Monitoring Wells

Report Date: 13-Jul-22

Carrier: Joe Riley

Received By: EAH

Completed by:

Reviewed by:

On:

On:

02-Jun-22

06-Jun-22

Payton Yoch

Shelly A. Hennessy

Pages to follow:

Chain of custody

2

Extra pages included

43

Shipping container/cooler in good condition?

Yes ☒

No ☐

Not Present ☐

Temp °C 2.0

Type of thermal preservation?

None ☐

Ice ☒

Blue Ice ☐

Dry Ice ☐

Chain of custody present?

Yes ☒

No ☐

Chain of custody signed when relinquished and received?

Yes ☒

No ☐

Chain of custody agrees with sample labels?

Yes ☒

No ☐

Samples in proper container/bottle?

Yes ☒

No ☐

Sample containers intact?

Yes ☒

No ☐

Sufficient sample volume for indicated test?

Yes ☒

No ☐

All samples received within holding time?

Yes ☒

No ☐

Reported field parameters measured:

Field ☐

Lab ☐

NA ☒

Container/Temp Blank temperature in compliance?

Yes ☒

No ☐

When thermal preservation is required, samples are compliant with a temperature between 0.1°C - 6.0°C, or when samples are received on ice the same day as collected.

Water – at least one vial per sample has zero headspace?

Yes ☐

No ☐

No VOA vials ☒

Water - TOX containers have zero headspace?

Yes ☐

No ☐

No TOX containers ☒

Water - pH acceptable upon receipt?

Yes ☐

No ☒

NA ☐

NPDES/CWA TCN interferences checked/treated in the field?

Yes ☐

No ☐

NA ☒

Any No responses must be detailed below or on the COC.

pH strip 78198 - pyoch - 6/2/2022 8:57:41 AM

Additional Nitric Acid (82107) was needed for all 2L bottles (Radium 226-228) upon arrival at the laboratory. - pyoch - 6/2/2022 8:57:57 AM

CHAIN OF CUSTODY

Pg 1 of 2 Workorder # 22051753

TEKLAB INC, 5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Client: <u>City Water, Light & Power</u> Address: <u>3100 Stevenson Drive, 2nd Floor Maintenance Building</u> City/State/Zip: <u>Springfield IL 62712</u> Contact: <u>Eric Staley</u> Phone: <u>(217) 757-8610</u> Email: <u>eric.staley@cwlp.com</u> Fax: _____				Samples on: ☒ ICE ☐ BLUE ICE ☐ NO ICE <u>2.0</u> °C Preserved in: ☐ LAB ☐ FIELD <u>FOR LAB USE ONLY</u> <u>1765</u> LAB NOTES: <u>ph 7.198, Added HNO3 (82107) to all</u> <u>2 liters, let 6-6-22</u>																																	
Are these samples known to be involved in litigation? If yes, a surcharge will apply: ☐ Yes ☒ No Are these samples known to be hazardous? ☐ Yes ☒ No Are there any required reporting limits to be met on the requested analysis? If yes, please provide limits in the comment section: ☒ Yes ☒ No Permit on file				Client Comments: <u>TELE 6-6-22</u> *elevations, pH, conductivity, temperature **Sb Se TI (ICPMS) As Ba Be B Cd Ca Cr Co Pb Li Hg Mo Quarterly monitoring																																	
PROJECT NAME/NUMBER <u>Ash Pond Monitoring Wells</u>		SAMPLE COLLECTOR'S NAME <u>J. RILEY</u>		# and Type of Containers <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>UNP</th> <th>HNO3</th> <th>NaOH</th> <th>H2SO4</th> <th>HCL</th> <th>MeOH</th> <th>NaHSO4</th> <th>TSP</th> <th>Other</th> </tr> <tr> <td>1</td> <td>3</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>		UNP	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	TSP	Other	1	3								INDICATE ANALYSIS REQUESTED <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>Field Turbidity</th> <th>Radium-226</th> <th>Radium-228</th> <th>Metals (T)**</th> <th>of F SO4 TDS (T)</th> <th>Field parameters*</th> </tr> <tr> <td>☒</td> <td>☒</td> <td>☒</td> <td>☒</td> <td>☒</td> <td>☒</td> </tr> </table>		Field Turbidity	Radium-226	Radium-228	Metals (T)**	of F SO4 TDS (T)	Field parameters*	☒	☒	☒	☒	☒	☒
UNP	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	TSP	Other																													
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Field Turbidity	Radium-226	Radium-228	Metals (T)**	of F SO4 TDS (T)	Field parameters*																																
☒	☒	☒	☒	☒	☒																																
RESULTS REQUESTED ☒ Standard ☐ 12 Day (100% Surcharge) ☐ Other ☐ 3 Day (50% Surcharge)		BILLING INSTRUCTIONS																																			
Lab Use Only	Sample ID	Date/Time Sampled	Matrix																																		
<u>22051753-001</u>	<u>RW-3</u>	<u>06/01/22 1345</u>	<u>Groundwater</u>	1	3																																
<u>002</u>	<u>AP-1</u>	<u>05/31/22 1330</u>	<u>Groundwater</u>	1	3																																
<u>003</u>	<u>AP-2</u>	<u>1212</u>	<u>Groundwater</u>	1	3																																
<u>004</u>	<u>AP-3</u>	<u>1147</u>	<u>Groundwater</u>	1	3																																
<u>005</u>	<u>AP-4</u>	<u>1628</u>	<u>Groundwater</u>	1	3																																
<u>006</u>	<u>AP-5</u>	<u>1655</u>	<u>Groundwater</u>	1	3																																
<u>007</u>	<u>AP-6</u>	<u>1422</u>	<u>Groundwater</u>	1	3																																
<u>008</u>	<u>AP-7</u>	<u>06/01/22 1018</u>	<u>Groundwater</u>	1	3																																
<u>009</u>	<u>AP-8</u>	<u>05/31/22 1357</u>	<u>Groundwater</u>	1	3																																
<u>010</u>	<u>AP-9</u>	<u>06/01/22 1047</u>	<u>Groundwater</u>	1	3																																
<u>011</u>	<u>AP-10</u>	<u>05/31/22 1301</u>	<u>Groundwater</u>	1	3																																
Relinquished By <u>[Signature]</u>		Date/Time <u>06/02/22 0733</u>		Received By <u>[Signature]</u>																																	
Date/Time _____		Date/Time _____		Date/Time _____																																	

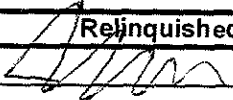
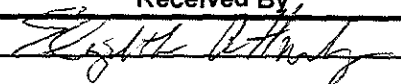
*The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client. See www.teklabinc.com for terms and conditions

PH 7.198

CHAIN OF CUSTODY

Pg 2 of 2 Workorder # 22051753

TEKLAB INC, 5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

Client: <u>City Water, Light & Power</u> Address: <u>3100 Stevenson Drive, 2nd Floor Maintenance Building</u> City/State/Zip: <u>Springfield IL 62712</u> Contact: <u>Eric Staley</u> Phone: <u>(217) 757-8610</u> Email: <u>eric.staley@cwlp.com</u> Fax: _____				Samples on: ☐ ICE ☐ BLUE ICE ☐ NO ICE _____ °C Preserved in: ☐ LAB ☐ FIELD <u>FOR LAB USE ONLY</u> LAB NOTES: _____																																		
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RESULTS REQUESTED ☒ Standard ☐ 1-2 Day (100% Surcharge) ☐ Other _____ ☐ 3 Day (50% Surcharge)		BILLING INSTRUCTIONS _____																																				
Lab Use Only	Sample ID	Date/Time Sampled	Matrix																																			
22051753-012	AP-11	06/01/22 1302	Groundwater	1	3																																	
013	AP-12	06/01/22 1234	Groundwater	1	3																																	
014	AP-13	06/01/22 1204	Groundwater	1	3																																	
015	AP-14	05/31/22 1543	Groundwater	1	3																																	
			Groundwater																																			
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Relinquished By 		Date/Time <u>06/02/22 0733</u>		Received By 		Date/Time <u>6/2/22 0733</u>																																

*The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client. See www.teklabinc.com for terms and conditions



Summit Environmental Technologies, Inc.
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: <http://www.settek.com>

July 12, 2022

Shelly Hennessy
TEKLAB Inc,
5445 Horseshoe lake Road
Collinsville, IL 62234
TEL:
FAX:
RE: 22051753

Order No.: 22060560

Dear Shelly Hennessy:

Summit Environmental Technologies, Inc. received 15 sample(s) on 6/8/2022 for the analyses presented in the following report.

There were no problems with the analytical events associated with this report unless noted in the Case Narrative.

Quality control data is within laboratory defined or method specified acceptance limits except where noted.

If you have any questions regarding these tests results, please feel free to call the laboratory.

Sincerely,

Jennifer Woolf

Project Manager

3310 Win St.
Cuyahoga Falls, Ohio 44223

Arkansas 88-0735, California 2943, Colorado, Connecticut PH-0108, Florida NELAC E87688, Idaho OH00923, Illinois 200061, Indiana C-OH-13, Kansas E-10347, Kentucky (Underground Storage Tank) 3, Kentucky 90146, Maryland 339, Michigan 9988, Minnesota 1780279, Nevada OH009232020-1, New Hampshire 2996, New Jersey OH006, New York 11777, North Carolina 39705 and 631, North Dakota R-201, Ohio DW, Ohio VAP CL0052, Oklahoma 2019-155, Oregon OH200001, Pennsylvania 011, Rhode Island LA000317, South Carolina 92016001, Texas T104704466-19-16, Utah OH009232020-12, Virginia VELAP 10381, West Virginia 9957C



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Website: <http://www.settek.com>

Case Narrative

WO#: 22060560
Date: 7/12/2022

CLIENT: TEKLAB Inc,
Project: 22051753

WorkOrder Narrative:

22060560: This report in its entirety consists of the following documents: Cover Letter, Case Narrative, Analytical Results, QC Summary Report, Applicable Accreditation Information, Chain-of-Custody, Cooler Receipt Form, and other applicable forms as necessary. All documents contain the Summit Environmental Technologies, Inc., Work Order Number assigned to this report.

Summit Environmental Technologies, Inc., holds the accreditations/certifications listed at the bottom of the cover letter that may or may not pertain to this report. Please refer to the "Accreditation Program Analytes Report" for accredited analytes list.

The information contained in this analytical report is the sole property of Summit Environmental Technologies, Inc. and that of the customer. It cannot be reproduced in any form without the consent of Summit Environmental Technologies, Inc. or the customer for which this report was issued. The results contained in this report are only representative of the samples received. Conditions can vary at different times and at different sampling conditions. Summit Environmental Technologies, Inc. is not responsible for use or interpretation of the data included herein.

All results for Solid Samples are reported on an "as received" or "wet weight" basis unless indicated as "dry weight" using the "-dry" designation on the reporting units.

This report is believed to meet all of the requirements of the accrediting agency, where applicable. Any comments or problems with the analytical events associated with this report are noted below.

Analytical Run Comments:

145867: 22060887-001A is 22060877-001a in attached spreadsheet

Analytical Sequence Sample Notes:

22060560-013A Radium-228_NPW(904.0): Sample and Sample Duplicate exhibited high RPD for Radium-228 due to possible sample matrix interference.

Original

These commonly used Qualifiers and Acronyms may or may not be present in this report.

Qualifiers

U	The compound was analyzed for but was not detected above the MDL.
J	The reported value is greater than the Method Detection Limit but less than the Reporting Limit.
H	The hold time for sample preparation and/or analysis was exceeded. Not Clean Water Act compliant.
D	The result is reported from a dilution.
E	The result exceeded the linear range of the calibration or is estimated due to interference.
MC	The result is below the Minimum Compound Limit.
*	The result exceeds the Regulatory Limit or Maximum Contamination Limit.
m	Manual integration was used to determine the area response.
d	Manual integration in which peak was deleted
N	The result is presumptive based on a Mass Spectral library search assuming a 1:1 response.
P	The second column confirmation exceeded 25% difference.
C	The result has been confirmed by GC/MS.
X	The result was not confirmed when GC/MS Analysis was performed.
B	The analyte was detected in the Method Blank at a concentration greater than the RL.
MB+	The analyte was detected in the Method Blank at a concentration greater than the MDL.
G	The ICB or CCB contained reportable amounts of analyte.
QC-/+	The CCV recovery failed low (-) or high (+).
R/QDR	The RPD was outside of accepted recovery limits.
QL-/+	The LCS or LCSD recovery failed low (-) or high (+).
QLR	The LCS/LCSD RPD was outside of accepted recovery limits.
QM-/+	The MS or MSD recovery failed low (-) or high (+).
QMR	The MS/MSD RPD was outside of accepted recovery limits.
QV-/+	The ICV recovery failed low (-) or high (+).
S	The spike result was outside of accepted recovery limits.
W	Samples were received outside temperature limits (0° – 6° C). Not Clean Water Act compliant.
Z	Deviation; A deviation from the method was performed; Please refer to the Case Narrative for additional information

Acronyms

ND	Not Detected	RL	Reporting Limit
QC	Quality Control	MDL	Method Detection Limit
MB	Method Blank	LOD	Level of Detection
LCS	Laboratory Control Sample	LOQ	Level of Quantitation
LCSD	Laboratory Control Sample Duplicate	PQL	Practical Quantitation Limit
QCS	Quality Control Sample	CRQL	Contract Required Quantitation Limit
DUP	Duplicate	PL	Permit Limit
MS	Matrix Spike	RegLvl	Regulatory Limit
MSD	Matrix Spike Duplicate	MCL	Maximum Contamination Limit
RPD	Relative Percent Different	MinCL	Minimum Compound Limit
ICV	Initial Calibration Verification	RA	Reanalysis
ICB	Initial Calibration Blank	RE	Reextraction
CCV	Continuing Calibration Verification	TIC	Tentatively Identified Compound
CCB	Continuing Calibration Blank	RT	Retention Time
RLC	Reporting Limit Check	CF	Calibration Factor

This list of Qualifiers and Acronyms reflects the most commonly utilized Qualifiers and Acronyms for reporting. Please refer to the Analytical Notes in the Case Narrative for any Qualifiers or Acronyms that do not appear in this list or for additional information regarding the use of these Qualifiers on reported data.



Summit Environmental Technologies, Inc.
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: <http://www.settek.com>

Workorder Sample Summary

WO#: 22060560
12-Jul-22

CLIENT: TEKLAB Inc,
Project: 22051753

Lab SampleID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
22060560-001	22051753-001		6/1/2022 1:45:00 PM	6/8/2022 4:00:00 PM	Non-Potable Water
22060560-002	22051753-002		5/31/2022 1:30:00 PM	6/8/2022 4:00:00 PM	Non-Potable Water
22060560-003	22051753-003		5/31/2022 12:12:00 PM	6/8/2022 4:00:00 PM	Non-Potable Water
22060560-004	22051753-004		5/31/2022 11:47:00 AM	6/8/2022 4:00:00 PM	Non-Potable Water
22060560-005	22051753-005		5/31/2022 4:28:00 PM	6/8/2022 4:00:00 PM	Non-Potable Water
22060560-006	22051753-006		5/31/2022 4:55:00 PM	6/8/2022 4:00:00 PM	Non-Potable Water
22060560-007	22051753-007		5/31/2022 2:22:00 PM	6/8/2022 4:00:00 PM	Non-Potable Water
22060560-008	22051753-008		6/1/2022 10:19:00 AM	6/8/2022 4:00:00 PM	Non-Potable Water
22060560-009	22051753-009		5/31/2022 1:57:00 PM	6/8/2022 4:00:00 PM	Non-Potable Water
22060560-010	22051753-010		6/1/2022 10:47:00 AM	6/8/2022 4:00:00 PM	Non-Potable Water
22060560-011	22051753-011		5/31/2022 1:01:00 PM	6/8/2022 4:00:00 PM	Non-Potable Water
22060560-012	22051753-012		6/1/2022 1:02:00 PM	6/8/2022 4:00:00 PM	Non-Potable Water
22060560-013	22051753-013		6/1/2022 12:34:00 PM	6/8/2022 4:00:00 PM	Non-Potable Water
22060560-014	22051753-014		6/1/2022 12:04:00 PM	6/8/2022 4:00:00 PM	Non-Potable Water
22060560-015	22051753-015		5/31/2022 3:43:00 PM	6/8/2022 4:00:00 PM	Non-Potable Water



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Website: <http://www.settek.com>

DATES REPORT

WO#: 22060560
12-Jul-22

Client: TEKLAB Inc,
Project: 22051753

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
22060560-001A	22051753-001	6/1/2022 1:45:00 PM	Non-Potable Water	Radium-226 (EPA 903.0)		6/15/2022 2:39:00 PM	6/21/2022 9:38:00 AM
				Radium-228 (EPA 904.0)		6/15/2022 2:39:00 PM	6/20/2022 2:31:00 PM
22060560-002A	22051753-002	5/31/2022 1:30:00 PM		Radium-226 (EPA 903.0)		6/15/2022 2:39:00 PM	6/21/2022 9:38:00 AM
				Radium-228 (EPA 904.0)		6/15/2022 2:39:00 PM	6/20/2022 2:31:00 PM
22060560-003A	22051753-003	5/31/2022 12:12:00 PM		Radium-226 (EPA 903.0)		6/15/2022 2:39:00 PM	6/21/2022 9:38:00 AM
				Radium-228 (EPA 904.0)		6/15/2022 2:39:00 PM	6/20/2022 2:31:00 PM
22060560-004A	22051753-004	5/31/2022 11:47:00 AM		Radium-226 (EPA 903.0)		6/15/2022 2:39:00 PM	6/21/2022 9:38:00 AM
				Radium-228 (EPA 904.0)		6/15/2022 2:39:00 PM	6/20/2022 2:31:00 PM
22060560-005A	22051753-005	5/31/2022 4:28:00 PM		Radium-226 (EPA 903.0)		6/20/2022 9:25:00 AM	6/29/2022 9:21:00 AM
				Radium-228 (EPA 904.0)		6/20/2022 9:25:00 AM	6/28/2022 2:04:00 PM
22060560-006A	22051753-006	5/31/2022 4:55:00 PM		Radium-226 (EPA 903.0)		6/20/2022 9:25:00 AM	6/29/2022 9:21:00 AM
				Radium-228 (EPA 904.0)		6/20/2022 9:25:00 AM	6/28/2022 2:04:00 PM
22060560-007A	22051753-007	5/31/2022 2:22:00 PM		Radium-226 (EPA 903.0)		6/20/2022 9:25:00 AM	6/29/2022 9:21:00 AM
				Radium-228 (EPA 904.0)		6/20/2022 9:25:00 AM	6/28/2022 2:04:00 PM
22060560-008A	22051753-008	6/1/2022 10:19:00 AM		Radium-226 (EPA 903.0)		6/20/2022 9:25:00 AM	6/29/2022 9:21:00 AM
				Radium-228 (EPA 904.0)		7/5/2022 2:13:00 PM	7/8/2022 3:48:00 PM
				Radium-228 (EPA 904.0)		6/20/2022 9:25:00 AM	6/28/2022 2:04:00 PM
22060560-009A	22051753-009	5/31/2022 1:57:00 PM		Radium-226 (EPA 903.0)		6/20/2022 9:25:00 AM	6/29/2022 9:21:00 AM
				Radium-228 (EPA 904.0)		6/20/2022 9:25:00 AM	6/28/2022 2:04:00 PM
22060560-010A	22051753-010	6/1/2022 10:47:00 AM		Radium-226 (EPA 903.0)		6/20/2022 9:25:00 AM	6/29/2022 9:21:00 AM
				Radium-228 (EPA 904.0)		6/20/2022 9:25:00 AM	6/28/2022 2:04:00 PM
22060560-011A	22051753-011	5/31/2022 1:01:00 PM		Radium-226 (EPA 903.0)		6/20/2022 9:25:00 AM	6/29/2022 9:21:00 AM
				Radium-228 (EPA 904.0)		6/20/2022 9:25:00 AM	6/28/2022 2:04:00 PM

Original



Summit Environmental Technologies, Inc.
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Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: <http://www.settek.com>

DATES REPORT

WO#: 22060560

12-Jul-22

Client: TEKLAB Inc,

Project: 22051753

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
22060560-012A	22051753-012	6/1/2022 1:02:00 PM	Non-Potable Water	Radium-226 (EPA 903.0)		6/20/2022 9:25:00 AM	6/29/2022 9:21:00 AM
				Radium-228 (EPA 904.0)		6/20/2022 9:25:00 AM	6/28/2022 2:04:00 PM
				Radium-228 (EPA 904.0)		7/5/2022 2:13:00 PM	7/8/2022 3:48:00 PM
22060560-013A	22051753-013	6/1/2022 12:34:00 PM		Radium-226 (EPA 903.0)		7/5/2022 11:10:00 AM	7/12/2022 10:23:00 AM
				Radium-228 (EPA 904.0)		7/5/2022 11:10:00 AM	7/11/2022 3:26:00 PM
22060560-014A	22051753-014	6/1/2022 12:04:00 PM		Radium-226 (EPA 903.0)		7/5/2022 11:10:00 AM	7/12/2022 10:23:00 AM
				Radium-228 (EPA 904.0)		7/5/2022 11:10:00 AM	7/11/2022 3:26:00 PM
22060560-015A	22051753-015	5/31/2022 3:43:00 PM		Radium-226 (EPA 903.0)		7/5/2022 11:10:00 AM	7/12/2022 10:23:00 AM
				Radium-228 (EPA 904.0)		7/5/2022 11:10:00 AM	7/11/2022 3:26:00 PM

Original



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Analytical Report

(consolidated)

WO#: 22060560

Date Reported: 7/12/2022

CLIENT: TEKLAB Inc,

Collection Date: 6/1/2022 1:45:00 PM

Project: 22051753

Lab ID: 22060560-001

Matrix: NON-POTABLE WATER

Client Sample ID: 22051753-001

Analyses	Result	PQL	Qual	Units	Uncertainty	DF	Date Analyzed
RADIUM-226 (EPA 903.0)				E903.0	E903-904	Analyst: HDJ	
Radium-226	ND	1.00		pCi/L	± 0.08	1	6/21/2022 9:38:00 AM
Yield	1.00					1	6/21/2022 9:38:00 AM
RADIUM-228 (EPA 904.0)				E904.0	E903-904	Analyst: HDJ	
Radium-228	ND	1.00		pCi/L	± 0.47	1	6/20/2022 2:31:00 PM
Yield	1.00					1	6/20/2022 2:31:00 PM

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
	MC	Value is below Minimum Compound Limit.	N	Tentatively identified compounds
	ND	Not Detected	OG1	
	P	Second column confirmation exceeds	PL	Permit Limit



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Analytical Report

(consolidated)

WO#: 22060560

Date Reported: 7/12/2022

CLIENT: TEKLAB Inc,
Project: 22051753
Lab ID: 22060560-002
Client Sample ID: 22051753-002

Collection Date: 5/31/2022 1:30:00 PM

Matrix: NON-POTABLE WATER

Analyses	Result	PQL	Qual	Units	Uncertainty	DF	Date Analyzed
RADIUM-226 (EPA 903.0)				E903.0	E903-904	Analyst: HDJ	
Radium-226	ND	1.00		pCi/L	± 0.08	1	6/21/2022 9:38:00 AM
Yield	1.00					1	6/21/2022 9:38:00 AM
RADIUM-228 (EPA 904.0)				E904.0	E903-904	Analyst: HDJ	
Radium-228	ND	1.00		pCi/L	± 0.45	1	6/20/2022 2:31:00 PM
Yield	1.00					1	6/20/2022 2:31:00 PM

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
	MC	Value is below Minimum Compound Limit.	N	Tentatively identified compounds
	ND	Not Detected	OG1	
	P	Second column confirmation exceeds	PL	Permit Limit



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Analytical Report

(consolidated)

WO#: 22060560

Date Reported: 7/12/2022

CLIENT: TEKLAB Inc,

Collection Date: 5/31/2022 12:12:00 PM

Project: 22051753

Lab ID: 22060560-003

Matrix: NON-POTABLE WATER

Client Sample ID: 22051753-003

Analyses	Result	PQL	Qual	Units	Uncertainty	DF	Date Analyzed
RADIUM-226 (EPA 903.0)				E903.0	E903-904	Analyst: HDJ	
Radium-226	ND	1.00		pCi/L	± 0.12	1	6/21/2022 9:38:00 AM
Yield	0.970					1	6/21/2022 9:38:00 AM
RADIUM-228 (EPA 904.0)				E904.0	E903-904	Analyst: HDJ	
Radium-228	ND	1.00		pCi/L	± 0.43	1	6/20/2022 2:31:00 PM
Yield	0.940					1	6/20/2022 2:31:00 PM

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
	MC	Value is below Minimum Compound Limit.	N	Tentatively identified compounds
	ND	Not Detected	OG1	
	P	Second column confirmation exceeds	PL	Permit Limit



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Analytical Report

(consolidated)

WO#: 22060560

Date Reported: 7/12/2022

CLIENT: TEKLAB Inc,

Collection Date: 5/31/2022 11:47:00 AM

Project: 22051753

Lab ID: 22060560-004

Matrix: NON-POTABLE WATER

Client Sample ID: 22051753-004

Analyses	Result	PQL	Qual	Units	Uncertainty	DF	Date Analyzed
RADIUM-226 (EPA 903.0)				E903.0	E903-904	Analyst: HDJ	
Radium-226	ND	1.00		pCi/L	± 0.1	1	6/21/2022 9:38:00 AM
Yield	1.00					1	6/21/2022 9:38:00 AM
RADIUM-228 (EPA 904.0)				E904.0	E903-904	Analyst: HDJ	
Radium-228	ND	1.00		pCi/L	± 0.56	1	6/20/2022 2:31:00 PM
Yield	1.00					1	6/20/2022 2:31:00 PM

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
	MC	Value is below Minimum Compound Limit.	N	Tentatively identified compounds
	ND	Not Detected	OG1	
	P	Second column confirmation exceeds	PL	Permit Limit



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Analytical Report

(consolidated)

WO#: 22060560

Date Reported: 7/12/2022

CLIENT: TEKLAB Inc, **Collection Date:** 5/31/2022 4:28:00 PM
Project: 22051753
Lab ID: 22060560-005 **Matrix:** NON-POTABLE WATER
Client Sample ID: 22051753-005

Analyses	Result	PQL	Qual	Units	Uncertainty	DF	Date Analyzed
RADIUM-226 (EPA 903.0)				E903.0	E903-904	Analyst: HDJ	
Radium-226	ND	1.00		pCi/L	± 0.19	1	6/29/2022 9:21:00 AM
Yield	1.00					1	6/29/2022 9:21:00 AM
RADIUM-228 (EPA 904.0)				E904.0	E903-904	Analyst: HDJ	
Radium-228	ND	1.00		pCi/L	± 0.49	1	6/28/2022 2:04:00 PM
Yield	1.00					1	6/28/2022 2:04:00 PM

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
	MC	Value is below Minimum Compound Limit.	N	Tentatively identified compounds
	ND	Not Detected	OG1	
	P	Second column confirmation exceeds	PL	Permit Limit



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Analytical Report

(consolidated)

WO#: 22060560

Date Reported: 7/12/2022

CLIENT: TEKLAB Inc, Collection Date: 5/31/2022 4:55:00 PM
Project: 22051753
Lab ID: 22060560-006 Matrix: NON-POTABLE WATER
Client Sample ID: 22051753-006

Analyses	Result	PQL	Qual	Units	Uncertainty	DF	Date Analyzed
RADIUM-226 (EPA 903.0)				E903.0	E903-904	Analyst: HDJ	
Radium-226	ND	1.00		pCi/L	± 0.1	1	6/29/2022 9:21:00 AM
Yield	1.00					1	6/29/2022 9:21:00 AM
RADIUM-228 (EPA 904.0)				E904.0	E903-904	Analyst: HDJ	
Radium-228	1.45	1.00		pCi/L	± 0.6	1	6/28/2022 2:04:00 PM
Yield	1.00					1	6/28/2022 2:04:00 PM

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
	MC	Value is below Minimum Compound Limit.	N	Tentatively identified compounds
	ND	Not Detected	OG1	
	P	Second column confirmation exceeds	PL	Permit Limit



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Analytical Report

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WO#: 22060560

Date Reported: 7/12/2022

CLIENT: TEKLAB Inc, Collection Date: 5/31/2022 2:22:00 PM
Project: 22051753
Lab ID: 22060560-007 Matrix: NON-POTABLE WATER
Client Sample ID: 22051753-007

Analyses	Result	PQL	Qual	Units	Uncertainty	DF	Date Analyzed
RADIUM-226 (EPA 903.0)				E903.0	E903-904	Analyst: HDJ	
Radium-226	ND	1.00		pCi/L	± 0.14	1	6/29/2022 9:21:00 AM
Yield	1.00					1	6/29/2022 9:21:00 AM
RADIUM-228 (EPA 904.0)				E904.0	E903-904	Analyst: HDJ	
Radium-228	1.20	1.00		pCi/L	± 0.55	1	6/28/2022 2:04:00 PM
Yield	1.00					1	6/28/2022 2:04:00 PM

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
	MC	Value is below Minimum Compound Limit.	N	Tentatively identified compounds
	ND	Not Detected	OG1	
	P	Second column confirmation exceeds	PL	Permit Limit



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Analytical Report

(consolidated)

WO#: 22060560

Date Reported: 7/12/2022

CLIENT: TEKLAB Inc, Collection Date: 6/1/2022 10:19:00 AM
Project: 22051753
Lab ID: 22060560-008 Matrix: NON-POTABLE WATER
Client Sample ID: 22051753-008

Analyses	Result	PQL	Qual	Units	Uncertainty	DF	Date Analyzed
RADIUM-226 (EPA 903.0)				E903.0	E903-904	Analyst: HDJ	
Radium-226	ND	1.00		pCi/L	± 0.14	1	6/29/2022 9:21:00 AM
Yield	1.00					1	6/29/2022 9:21:00 AM
RADIUM-228 (EPA 904.0)				E904.0	E903-904	Analyst: HDJ	
Radium-228	ND	1.00		pCi/L	± 0.68	1	7/8/2022 3:48:00 PM
Yield	1.00					1	7/8/2022 3:48:00 PM

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
	MC	Value is below Minimum Compound Limit.	N	Tentatively identified compounds
	ND	Not Detected	OG1	
	P	Second column confirmation exceeds	PL	Permit Limit



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Analytical Report

(consolidated)

WO#: 22060560

Date Reported: 7/12/2022

CLIENT: TEKLAB Inc,

Collection Date: 5/31/2022 1:57:00 PM

Project: 22051753

Lab ID: 22060560-009

Matrix: NON-POTABLE WATER

Client Sample ID: 22051753-009

Analyses	Result	PQL	Qual	Units	Uncertainty	DF	Date Analyzed
RADIUM-226 (EPA 903.0)				E903.0	E903-904	Analyst: HDJ	
Radium-226	ND	1.00		pCi/L	± 0.2	1	6/29/2022 9:21:00 AM
Yield	1.00					1	6/29/2022 9:21:00 AM
RADIUM-228 (EPA 904.0)				E904.0	E903-904	Analyst: HDJ	
Radium-228	1.16	1.00		pCi/L	± 0.61	1	6/28/2022 2:04:00 PM
Yield	0.980					1	6/28/2022 2:04:00 PM

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
	MC	Value is below Minimum Compound Limit.	N	Tentatively identified compounds
	ND	Not Detected	OG1	
	P	Second column confirmation exceeds	PL	Permit Limit



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Analytical Report

(consolidated)

WO#: 22060560

Date Reported: 7/12/2022

CLIENT: TEKLAB Inc, Collection Date: 6/1/2022 10:47:00 AM
Project: 22051753
Lab ID: 22060560-010 Matrix: NON-POTABLE WATER
Client Sample ID: 22051753-010

Analyses	Result	PQL	Qual	Units	Uncertainty	DF	Date Analyzed
RADIUM-226 (EPA 903.0)				E903.0	E903-904	Analyst: HDJ	
Radium-226	ND	1.00		pCi/L	± 0.14	1	6/29/2022 9:21:00 AM
Yield	1.00					1	6/29/2022 9:21:00 AM
RADIUM-228 (EPA 904.0)				E904.0	E903-904	Analyst: HDJ	
Radium-228	ND	1.00		pCi/L	± 0.5	1	6/28/2022 2:04:00 PM
Yield	0.900					1	6/28/2022 2:04:00 PM

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
	MC	Value is below Minimum Compound Limit.	N	Tentatively identified compounds
	ND	Not Detected	OG1	
	P	Second column confirmation exceeds	PL	Permit Limit



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Analytical Report

(consolidated)

WO#: 22060560

Date Reported: 7/12/2022

CLIENT: TEKLAB Inc, **Collection Date:** 5/31/2022 1:01:00 PM
Project: 22051753
Lab ID: 22060560-011 **Matrix:** NON-POTABLE WATER
Client Sample ID: 22051753-011

Analyses	Result	PQL	Qual	Units	Uncertainty	DF	Date Analyzed
RADIUM-226 (EPA 903.0)				E903.0	E903-904	Analyst: HDJ	
Radium-226	ND	1.00		pCi/L	± 0.21	1	6/29/2022 9:21:00 AM
Yield	1.00					1	6/29/2022 9:21:00 AM
RADIUM-228 (EPA 904.0)				E904.0	E903-904	Analyst: HDJ	
Radium-228	ND	1.00		pCi/L	± 0.55	1	6/28/2022 2:04:00 PM
Yield	0.930					1	6/28/2022 2:04:00 PM

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
	MC	Value is below Minimum Compound Limit.	N	Tentatively identified compounds
	ND	Not Detected	OG1	
	P	Second column confirmation exceeds	PL	Permit Limit



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Analytical Report

(consolidated)

WO#: 22060560

Date Reported: 7/12/2022

CLIENT: TEKLAB Inc,

Collection Date: 6/1/2022 1:02:00 PM

Project: 22051753

Lab ID: 22060560-012

Matrix: NON-POTABLE WATER

Client Sample ID: 22051753-012

Analyses	Result	PQL	Qual	Units	Uncertainty	DF	Date Analyzed
RADIUM-226 (EPA 903.0)				E903.0	E903-904	Analyst: HDJ	
Radium-226	ND	1.00		pCi/L	± 0.12	1	6/29/2022 9:21:00 AM
Yield	1.00					1	6/29/2022 9:21:00 AM
RADIUM-228 (EPA 904.0)				E904.0	E903-904	Analyst: HDJ	
Radium-228	ND	1.00		pCi/L	± 0.73	1	7/8/2022 3:48:00 PM
Yield	1.00					1	7/8/2022 3:48:00 PM

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
	MC	Value is below Minimum Compound Limit.	N	Tentatively identified compounds
	ND	Not Detected	OG1	
	P	Second column confirmation exceeds	PL	Permit Limit



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Analytical Report

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WO#: 22060560

Date Reported: 7/12/2022

CLIENT: TEKLAB Inc, Collection Date: 6/1/2022 12:34:00 PM
Project: 22051753
Lab ID: 22060560-013 Matrix: NON-POTABLE WATER
Client Sample ID: 22051753-013

Analyses	Result	PQL	Qual	Units	Uncertainty	DF	Date Analyzed
RADIUM-226 (EPA 903.0)				E903.0	E903-904	Analyst: HDJ	
Radium-226	ND	1.00		pCi/L	± 0.18	1	7/12/2022 10:23:00 AM
Yield	1.00					1	7/12/2022 10:23:00 AM
RADIUM-228 (EPA 904.0)				E904.0	E903-904	Analyst: HDJ	
Radium-228	1.46	1.00	QDR	pCi/L	± 0.6	1	7/11/2022 3:26:00 PM
Yield	1.00					1	7/11/2022 3:26:00 PM

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
	MC	Value is below Minimum Compound Limit.	N	Tentatively identified compounds
	ND	Not Detected	OG1	
	P	Second column confirmation exceeds	PL	Permit Limit



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Analytical Report

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WO#: 22060560

Date Reported: 7/12/2022

CLIENT: TEKLAB Inc, Collection Date: 6/1/2022 12:04:00 PM
Project: 22051753
Lab ID: 22060560-014 Matrix: NON-POTABLE WATER
Client Sample ID: 22051753-014

Analyses	Result	PQL	Qual	Units	Uncertainty	DF	Date Analyzed
RADIUM-226 (EPA 903.0)				E903.0	E903-904	Analyst: HDJ	
Radium-226	ND	1.00		pCi/L	± 0.16	1	7/12/2022 10:23:00 AM
Yield	1.00					1	7/12/2022 10:23:00 AM
RADIUM-228 (EPA 904.0)				E904.0	E903-904	Analyst: HDJ	
Radium-228	ND	1.00		pCi/L	± 0.49	1	7/11/2022 3:26:00 PM
Yield	1.00					1	7/11/2022 3:26:00 PM

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
	MC	Value is below Minimum Compound Limit.	N	Tentatively identified compounds
	ND	Not Detected	OG1	
	P	Second column confirmation exceeds	PL	Permit Limit



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Analytical Report

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WO#: 22060560

Date Reported: 7/12/2022

CLIENT: TEKLAB Inc, Collection Date: 5/31/2022 3:43:00 PM
Project: 22051753
Lab ID: 22060560-015 Matrix: NON-POTABLE WATER
Client Sample ID: 22051753-015

Analyses	Result	PQL	Qual	Units	Uncertainty	DF	Date Analyzed
RADIUM-226 (EPA 903.0)				E903.0	E903-904	Analyst: HDJ	
Radium-226	ND	1.00		pCi/L	± 0.09	1	7/12/2022 10:23:00 AM
Yield	1.00					1	7/12/2022 10:23:00 AM
RADIUM-228 (EPA 904.0)				E904.0	E903-904	Analyst: HDJ	
Radium-228	1.35	1.00		pCi/L	± 0.6	1	7/11/2022 3:26:00 PM
Yield	1.00					1	7/11/2022 3:26:00 PM

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
	MC	Value is below Minimum Compound Limit.	N	Tentatively identified compounds
	ND	Not Detected	OG1	
	P	Second column confirmation exceeds	PL	Permit Limit



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QC SUMMARY REPORT

WO#: 22060560
12-Jul-22

Client: TEKLAB Inc,
Project: 22051753

BatchID: 57497

Sample ID: MB-57497	SampType: MBLK	TestCode: Radium-228_ Units: pCi/L				Prep Date: 6/15/2022				RunNo: 145859		
Client ID: PBW	Batch ID: 57497	TestNo: E904.0		E903-904		Analysis Date: 6/20/2022				SeqNo: 3856765		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Radium-228	ND	1.00		0	0							
Yield	1.00			0	0							

Sample ID: LCS-57497	SampType: LCS	TestCode: Radium-228_ Units: pCi/L				Prep Date: 6/15/2022			RunNo: 145859		
Client ID: LCSW	Batch ID: 57497	TestNo: E904.0		E903-904		Analysis Date: 6/20/2022			SeqNo: 3856766		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	4.01	1.00	5.000	0	80.2	70	130				
Yield	1.00			0	0						

Sample ID: LCSD-57497	SampType: LCSD	TestCode: Radium-228_ Units: pCi/L				Prep Date: 6/15/2022			RunNo: 145859		
Client ID: LCSS02	Batch ID: 57497	TestNo: E904.0		E903-904		Analysis Date: 6/20/2022			SeqNo: 3856767		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	3.82	1.00	5.000	0	76.4	70	130	4.010	4.85	20	
Yield	1.00			0	0			1.000	0		

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range H Holding times for preparation or analy
J Analyte detected below quantitation limits M Manual Integration used to determine area response MC Value is below Minimum Compound
ND Not Detected OG1 P Second column confirmation exceeds
PL Permit Limit R RPD outside accepted recovery limits RL Reporting Detection Limit

Original



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QC SUMMARY REPORT

WO#: 22060560
12-Jul-22

Client: TEKLAB Inc,
Project: 22051753

BatchID: 57497

Sample ID: RLC-57497	SampType: RLC	TestCode: Radium-228_ Units: pCi/L				Prep Date: 6/15/2022			RunNo: 145859		
Client ID: BatchQC	Batch ID: 57497	TestNo: E904.0		E903-904		Analysis Date: 6/20/2022			SeqNo: 3856769		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	1.41	1.00	1.000	0	141	50	150				
Yield	1.00			0	0						

Sample ID: RLCD-57497	SampType: RLC	TestCode: Radium-228_ Units: pCi/L				Prep Date: 6/15/2022			RunNo: 145859		
Client ID: BatchQC	Batch ID: 57497	TestNo: E904.0		E903-904		Analysis Date: 6/20/2022			SeqNo: 3856770		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00	1.000	0	90.0	50	150				
Yield	1.00			0	0						

Sample ID: 22060815-001ADUP	SampType: DUP	TestCode: Radium-228_	Units: pCi/L	Prep Date: 6/15/2022	RunNo: 145859						
Client ID: BatchQC	Batch ID: 57497	TestNo: E904.0	E903-904	Analysis Date: 6/20/2022	SeqNo: 3856777						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0			0	0	20	
Yield	1.00			0	0			1.000	0		

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range H Holding times for preparation or analy
J Analyte detected below quantitation limits M Manual Integration used to determine area response MC Value is below Minimum Compound
ND Not Detected OG1 P Second column confirmation exceeds
PL Permit Limit R RPD outside accepted recovery limits RL Reporting Detection Limit

Original



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Website: <http://www.settek.com>

QC SUMMARY REPORT

WO#: 22060560
12-Jul-22

Client: TEKLAB Inc,
Project: 22051753

BatchID: 57497

Sample ID: 22060655-001AMS		SampType: MS		TestCode: Radium-228_		Units: pCi/L		Prep Date: 6/15/2022			RunNo: 145859		
Client ID: BatchQC		Batch ID: 57497		TestNo: E904.0		E903-904		Analysis Date: 6/20/2022			SeqNo: 3856778		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228		6.31		1.00	5.000	1.750	91.2	70	130				
Yield		1.00				1.000	0						

Sample ID: 22060818-001ADUP	SampType: DUP	TestCode: Radium-228_	Units: pCi/L	Prep Date: 6/15/2022	RunNo: 145859						
Client ID: BatchQC	Batch ID: 57497	TestNo: E904.0	E903-904	Analysis Date: 6/20/2022	SeqNo: 3856781						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0			0	0	20	R
Yield	1.00			0	0			1.000	0		

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analy
J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response	MC	Value is below Minimum Compound
ND	Not Detected	OG1		P	Second column confirmation exceeds
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

Original



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QC SUMMARY REPORT

WO#: 22060560
12-Jul-22

Client: TEKLAB Inc,
Project: 22051753

BatchID: 57497

Sample ID: MB-57497	SampType: MBLK	TestCode: Radium-226_ Units: pCi/L				Prep Date: 6/15/2022				RunNo: 145867		
Client ID: PBW	Batch ID: 57497	TestNo: E903.0		E903-904		Analysis Date: 6/21/2022				SeqNo: 3856875		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Radium-226	ND	1.00										
Yield	1.00											

Sample ID: LCS-57497	SampType: LCS	TestCode: Radium-226_ Units: pCi/L				Prep Date: 6/15/2022				RunNo: 145867		
Client ID: LCSW	Batch ID: 57497	TestNo: E903.0		E903-904		Analysis Date: 6/21/2022				SeqNo: 3856876		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Radium-226	5.93	1.00	5.000	0	119	70	130					

Sample ID: LCSD-57497	SampType: LCSD	TestCode: Radium-226_ Units: pCi/L				Prep Date: 6/15/2022			RunNo: 145867		
Client ID: LCSS02	Batch ID: 57497	TestNo: E903.0		E903-904		Analysis Date: 6/21/2022			SeqNo: 3856877		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	4.99	1.00	5.000	0	99.8	70	130	5.930	17.2	20	

Sample ID: RLC-57497	SampType: RLC	TestCode: Radium-226_	Units: pCi/L	Prep Date: 6/15/2022	RunNo: 145867						
Client ID: BatchQC	Batch ID: 57497	TestNo: E903.0	E903-904	Analysis Date: 6/21/2022	SeqNo: 3856879						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analy
	J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response	MC	Value is below Minimum Compound
	ND	Not Detected	OG1		P	Second column confirmation exceeds
	PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

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QC SUMMARY REPORT

WO#: 22060560
12-Jul-22

Client: TEKLAB Inc,
Project: 22051753

BatchID: 57497

Sample ID: RLC-57497	SampType: RLC	TestCode: Radium-226_ Units: pCi/L				Prep Date: 6/15/2022			RunNo: 145867		
Client ID: BatchQC	Batch ID: 57497	TestNo: E903.0		E903-904		Analysis Date: 6/21/2022			SeqNo: 3856879		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00	1.000	0	91.0	50	150				

Sample ID: RLCD-57497	SampType: RLC	TestCode: Radium-226_ Units: pCi/L				Prep Date: 6/15/2022			RunNo: 145867		
Client ID: BatchQC	Batch ID: 57497	TestNo: E903.0		E903-904		Analysis Date: 6/21/2022			SeqNo: 3856880		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00	1.000	0	64.0	50	150				

Sample ID: 22060655-001AMS												SampType: MS		TestCode: Radium-226_			Units: pCi/L		Prep Date: 6/15/2022			RunNo: 145867		
Client ID: BatchQC			Batch ID: 57497			TestNo: E903.0			E903-904			Analysis Date: 6/21/2022			SeqNo: 3856881									
Analyte			Result			PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val		%RPD	RPDLimit	Qual							
Radium-226			4.99			1.00	5.000	0		99.8	70	130												

Sample ID: 22060815-001ADUP	SampType: DUP	TestCode: Radium-226_	Units: pCi/L	Prep Date: 6/15/2022	RunNo: 145867						
Client ID: BatchQC	Batch ID: 57497	TestNo: E903.0	E903-904	Analysis Date: 6/21/2022	SeqNo: 3856886						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00						0	0	20	R

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analy
J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response	MC	Value is below Minimum Compound
ND	Not Detected	OG1		P	Second column confirmation exceeds
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

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QC SUMMARY REPORT

WO#: 22060560
12-Jul-22

Client: TEKLAB Inc,
Project: 22051753

BatchID: 57497

Sample ID: 22060815-001ADUP	SampType: DUP	TestCode: Radium-226_	Units: pCi/L	Prep Date: 6/15/2022	RunNo: 145867						
Client ID: BatchQC	Batch ID: 57497	TestNo: E903.0	E903-904	Analysis Date: 6/21/2022	SeqNo: 3856886						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Yield	1.00							1.000	0	0	

Sample ID: 22060818-001ADUP	SampType: DUP	TestCode: Radium-226_	Units: pCi/L	Prep Date: 6/15/2022	RunNo: 145867						
Client ID: BatchQC	Batch ID: 57497	TestNo: E903.0	E903-904	Analysis Date: 6/21/2022	SeqNo: 3856890						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00						0	0	20	
Yield	1.00							1.000	0	0	

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analy
	J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response	MC	Value is below Minimum Compound
	ND	Not Detected	OG1		P	Second column confirmation exceeds
	PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

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QC SUMMARY REPORT

WO#: 22060560
12-Jul-22

Client: TEKLAB Inc,
Project: 22051753

BatchID: 57568

Sample ID: MB-57568	SampType: MBLK	TestCode: Radium-228_ Units: pCi/L				Prep Date: 6/20/2022				RunNo: 146400		
Client ID: PBW	Batch ID: 57568	TestNo: E904.0		E903-904		Analysis Date: 6/28/2022				SeqNo: 3872590		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Radium-228	ND	1.00		0	0							
Yield	1.00			0	0							

Sample ID: LCS-57568	SampType: LCS	TestCode: Radium-228_ Units: pCi/L				Prep Date: 6/20/2022			RunNo: 146400		
Client ID: LCSW	Batch ID: 57568	TestNo: E904.0		E903-904		Analysis Date: 6/28/2022			SeqNo: 3872591		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	5.51	1.00	5.000	0	110	70	130				QLR
Yield	1.00			0	0						

Sample ID: LCSD-57568	SampType: LCSD	TestCode: Radium-228_ Units: pCi/L				Prep Date: 6/20/2022			RunNo: 146400		
Client ID: LCSS02	Batch ID: 57568	TestNo: E904.0		E903-904		Analysis Date: 6/28/2022			SeqNo: 3872592		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	3.83	1.00	5.000	0	76.6	70	130	5.510	36.0	20	R
Yield	1.00			0	0			1.000	0		

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range H Holding times for preparation or analy
J Analyte detected below quantitation limits M Manual Integration used to determine area response MC Value is below Minimum Compound
ND Not Detected OG1 P Second column confirmation exceeds
PL Permit Limit R RPD outside accepted recovery limits RL Reporting Detection Limit

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QC SUMMARY REPORT

WO#: 22060560
12-Jul-22

Client: TEKLAB Inc,
Project: 22051753

BatchID: 57568

Sample ID: RLC-57568	SampType: RLC	TestCode: Radium-228_ Units: pCi/L				Prep Date: 6/20/2022			RunNo: 146400		
Client ID: BatchQC	Batch ID: 57568	TestNo: E904.0		E903-904		Analysis Date: 6/28/2022			SeqNo: 3872594		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00	1.000	0	68.0	50	150				
Yield	1.00			0	0						

Sample ID: 22060953-001AMS	SampType: MS	TestCode: Radium-228_ Units: pCi/L				Prep Date: 6/20/2022			RunNo: 146400		
Client ID: BatchQC	Batch ID: 57568	TestNo: E904.0		E903-904		Analysis Date: 6/28/2022			SeqNo: 3872596		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	3.81	1.00	5.000	0	76.2	70	130				
Yield	1.00			1.000	0						

Sample ID: 22061131-001ADUP	SampType: DUP	TestCode: Radium-228_	Units: pCi/L	Prep Date: 6/20/2022	RunNo: 146400						
Client ID: BatchQC	Batch ID: 57568	TestNo: E904.0	E903-904	Analysis Date: 6/28/2022	SeqNo: 3872599						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0			0	0	20	R
Yield	1.00			0	0			1.000	0		

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analy
J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response	MC	Value is below Minimum Compound
ND	Not Detected	OG1		P	Second column confirmation exceeds
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

Original



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QC SUMMARY REPORT

WO#: 22060560
12-Jul-22

Client: TEKLAB Inc,
Project: 22051753

BatchID: 57568

Sample ID: 22061131-002ADUP		SampType: DUP	TestCode: Radium-228_ Units: pCi/L			Prep Date: 6/20/2022			RunNo: 146400		
Client ID: BatchQC		Batch ID: 57568	TestNo: E904.0		E903-904	Analysis Date: 6/28/2022			SeqNo: 3872602		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	1.56	1.00		0	0			1.510	3.26	20	
Yield	1.00			0	0			1.000	0		

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analy
	J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response	MC	Value is below Minimum Compound
	ND	Not Detected	OG1		P	Second column confirmation exceeds
	PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

Original



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QC SUMMARY REPORT

WO#: 22060560
12-Jul-22

Client: TEKLAB Inc,
Project: 22051753

BatchID: 57568

Sample ID: MB-57568	SampType: MBLK	TestCode: Radium-226_ Units: pCi/L				Prep Date: 6/20/2022				RunNo: 146405		
Client ID: PBW	Batch ID: 57568	TestNo: E903.0		E903-904		Analysis Date: 6/29/2022				SeqNo: 3872696		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Radium-226	ND	1.00										
Yield	1.00											

Sample ID: LCS-57568	SampType: LCS	TestCode: Radium-226_ Units: pCi/L				Prep Date: 6/20/2022				RunNo: 146405		
Client ID: LCSW	Batch ID: 57568	TestNo: E903.0		E903-904		Analysis Date: 6/29/2022				SeqNo: 3872697		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Radium-226	5.31	1.00	5.000	0	106	70	130					

Sample ID: LCSD-57568	SampType: LCSD	TestCode: Radium-226_ Units: pCi/L				Prep Date: 6/20/2022			RunNo: 146405		
Client ID: LCSS02	Batch ID: 57568	TestNo: E903.0		E903-904		Analysis Date: 6/29/2022			SeqNo: 3872698		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	6.39	1.00	5.000	0	128	70	130	5.310	18.5	20	

Sample ID: RLC-57568	SampType: RLC	TestCode: Radium-226_	Units: pCi/L	Prep Date: 6/20/2022	RunNo: 146405						
Client ID: BatchQC	Batch ID: 57568	TestNo: E903.0	E903-904	Analysis Date: 6/29/2022	SeqNo: 3872700						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analy
	J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response	MC	Value is below Minimum Compound
	ND	Not Detected	OG1		P	Second column confirmation exceeds
	PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

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QC SUMMARY REPORT

WO#: 22060560
12-Jul-22

Client: TEKLAB Inc,
Project: 22051753

BatchID: 57568

Sample ID: RLC-57568	SampType: RLC	TestCode: Radium-226_	Units: pCi/L	Prep Date: 6/20/2022	RunNo: 146405						
Client ID: BatchQC	Batch ID: 57568	TestNo: E903.0	E903-904	Analysis Date: 6/29/2022	SeqNo: 3872700						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00	1.000	0	93.0	50	150				

Sample ID: RLCD-57568	SampType: RLC	TestCode: Radium-226_ Units: pCi/L				Prep Date: 6/20/2022			RunNo: 146405		
Client ID: BatchQC	Batch ID: 57568	TestNo: E903.0		E903-904		Analysis Date: 6/29/2022			SeqNo: 3872701		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	1.07	1.00	1.000	0	107	50	150				

Sample ID: 22060953-001AMS		SampType: MS		TestCode: Radium-226_ Units: pCi/L		Prep Date: 6/20/2022			RunNo: 146405				
Client ID: BatchQC		Batch ID: 57568		TestNo: E903.0 E903-904		Analysis Date: 6/29/2022			SeqNo: 3875994				
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226		5.07		1.00	5.000	0	101	70	130				

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analy
	J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response	MC	Value is below Minimum Compound
	ND	Not Detected	OG1		P	Second column confirmation exceeds
	PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

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QC SUMMARY REPORT

WO#: 22060560
12-Jul-22

Client: TEKLAB Inc,
Project: 22051753

BatchID: 57915

Sample ID: 22060560-015AMS	SampType: MS	TestCode: Radium-228_ Units: pCi/L				Prep Date: 7/5/2022				RunNo: 146893		
Client ID: 22051753-015	Batch ID: 57915	TestNo: E904.0		E903-904		Analysis Date: 7/11/2022				SeqNo: 3890091		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Radium-228	6.34	1.00	5.000	1.350	99.8	70	130					
Yield	1.00			1.000	0							

Sample ID: 22060560-013ADUP	SampType: DUP	TestCode: Radium-228_	Units: pCi/L	Prep Date: 7/5/2022	RunNo: 146893						
Client ID: 22051753-013	Batch ID: 57915	TestNo: E904.0	E903-904	Analysis Date: 7/11/2022	SeqNo: 3890098						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0			1.460	200	30	R
Yield	1.00			0	0			1.000	0		

Sample ID: 22060560-014ADUP	SampType: DUP	TestCode: Radium-228_	Units: pCi/L	Prep Date: 7/5/2022	RunNo: 146893						
Client ID: 22051753-014	Batch ID: 57915	TestNo: E904.0	E903-904	Analysis Date: 7/11/2022	SeqNo: 3890100						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0			0	0	30	
Yield	1.00			0	0			1.000	0		

Qualifiers: B Analyte detected in the associated Method Blank
J Analyte detected below quantitation limits
ND Not Detected
PL Permit Limit
E Value above quantitation range
M Manual Integration used to determine area response
OG1
R RPD outside accepted recovery limits
H Holding times for preparation or analy
MC Value is below Minimum Compound
P Second column confirmation exceeds
RL Reporting Detection Limit

Original



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QC SUMMARY REPORT

WO#: 22060560
12-Jul-22

Client: TEKLAB Inc,
Project: 22051753

BatchID: 57915

Sample ID: MB-57915	SampType: MBLK	TestCode: Radium-228_ Units: pCi/L				Prep Date: 7/5/2022				RunNo: 146893		
Client ID: PBW	Batch ID: 57915	TestNo: E904.0		E903-904		Analysis Date: 7/11/2022				SeqNo: 3890085		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Radium-228	ND	1.00		0	0							
Yield	1.00			0	0							

Sample ID: LCS-57915	SampType: LCS	TestCode: Radium-228_ Units: pCi/L				Prep Date: 7/5/2022				RunNo: 146893		
Client ID: LCSW	Batch ID: 57915	TestNo: E904.0		E903-904		Analysis Date: 7/11/2022				SeqNo: 3890086		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Radium-228	4.90	1.00	5.000	0	98.0	70	130				QLR	
Yield	1.00			0	0							

Sample ID: LCSD-57915	SampType: LCSD	TestCode: Radium-228_ Units: pCi/L				Prep Date: 7/5/2022			RunNo: 146893		
Client ID: LCSS02	Batch ID: 57915	TestNo: E904.0		E903-904		Analysis Date: 7/11/2022			SeqNo: 3890087		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	6.04	1.00	5.000	0	121	70	130	4.900	20.8	20	R
Yield	1.00			0	0			1.000	0		

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range H Holding times for preparation or analy
J Analyte detected below quantitation limits M Manual Integration used to determine area response MC Value is below Minimum Compound
ND Not Detected OG1 P Second column confirmation exceeds
PL Permit Limit R RPD outside accepted recovery limits RL Reporting Detection Limit

Original



Summit Environmental Technologies, Inc.
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: <http://www.settek.com>

QC SUMMARY REPORT

WO#: 22060560
12-Jul-22

Client: TEKLAB Inc,
Project: 22051753

BatchID: 57915

Sample ID: RLC-57915	SampType: RLC	TestCode: Radium-228_ Units: pCi/L				Prep Date: 7/5/2022			RunNo: 146893		
Client ID: BatchQC	Batch ID: 57915	TestNo: E904.0		E903-904		Analysis Date: 7/11/2022			SeqNo: 3890089		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00	1.000	0	86.0	50	150				
Yield	1.00			0	0						

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analy
	J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response	MC	Value is below Minimum Compound
	ND	Not Detected	OG1		P	Second column confirmation exceeds
	PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

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QC SUMMARY REPORT

WO#: 22060560

12-Jul-22

Client: TEKLAB Inc,

Project: 22051753

BatchID: 57915

Sample ID: 22060560-015AMS	SampType: MS	TestCode: Radium-226_ Units: pCi/L				Prep Date: 7/5/2022			RunNo: 146899		
Client ID: 22051753-015	Batch ID: 57915	TestNo: E903.0		E903-904		Analysis Date: 7/12/2022			SeqNo: 3890536		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	4.33	1.00	5.000	0	86.6	70	130				

Sample ID: 22060560-013ADUP	SampType: DUP	TestCode: Radium-226_	Units: pCi/L	Prep Date: 7/5/2022	RunNo: 146899						
Client ID: 22051753-013	Batch ID: 57915	TestNo: E903.0	E903-904	Analysis Date: 7/12/2022	SeqNo: 3890543						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00						0	0	30	
Yield	1.00							1.000	0	0	

Sample ID: 22060560-014ADUP	SampType: DUP	TestCode: Radium-226_	Units: pCi/L	Prep Date: 7/5/2022	RunNo: 146899						
Client ID: 22051753-014	Batch ID: 57915	TestNo: E903.0	E903-904	Analysis Date: 7/12/2022	SeqNo: 3890545						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	ND	1.00						0	0	30	
Yield	1.00							1.000	0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analy
J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response	MC	Value is below Minimum Compound
ND	Not Detected	OG1		P	Second column confirmation exceeds
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

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QC SUMMARY REPORT

WO#: 22060560
12-Jul-22

Client: TEKLAB Inc,
Project: 22051753

BatchID: 57915

Sample ID: MB-57915	SampType: MBLK	TestCode: Radium-226_	Units: pCi/L	Prep Date: 7/5/2022	RunNo: 146899
Client ID: PBW	Batch ID: 57915	TestNo: E903.0	E903-904	Analysis Date: 7/12/2022	SeqNo: 3890530
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Radium-226	ND	1.00			
Yield	1.00				

Sample ID: LCS-57915	SampType: LCS	TestCode: Radium-226_	Units: pCi/L	Prep Date: 7/5/2022	RunNo: 146899
Client ID: LCSW	Batch ID: 57915	TestNo: E903.0	E903-904	Analysis Date: 7/12/2022	SeqNo: 3890531
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Radium-226	5.04	1.00	5.000	0	101 70 130

Sample ID: LCSD-57915	SampType: LCSD	TestCode: Radium-226_	Units: pCi/L	Prep Date: 7/5/2022	RunNo: 146899
Client ID: LCSS02	Batch ID: 57915	TestNo: E903.0	E903-904	Analysis Date: 7/12/2022	SeqNo: 3890532
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Radium-226	5.44	1.00	5.000	0	109 70 130 5.040 7.63 20

Sample ID: RLC-57915	SampType: RLC	TestCode: Radium-226_	Units: pCi/L	Prep Date: 7/5/2022	RunNo: 146899
Client ID: BatchQC	Batch ID: 57915	TestNo: E903.0	E903-904	Analysis Date: 7/12/2022	SeqNo: 3890534
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range H Holding times for preparation or analy
J Analyte detected below quantitation limits M Manual Integration used to determine area response MC Value is below Minimum Compound
ND Not Detected OG1 P Second column confirmation exceeds
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QC SUMMARY REPORT

WO#: 22060560
12-Jul-22

Client: TEKLAB Inc,
Project: 22051753

BatchID: 57915

Sample ID: RLC-57915	SampType: RLC	TestCode: Radium-226_ Units: pCi/L				Prep Date: 7/5/2022			RunNo: 146899		
Client ID: BatchQC	Batch ID: 57915	TestNo: E903.0		E903-904		Analysis Date: 7/12/2022			SeqNo: 3890534		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	1.20	1.00	1.000	0	120	50	150				

Sample ID: RLCD-57915	SampType: RLC	TestCode: Radium-226_ Units: pCi/L				Prep Date: 7/5/2022			RunNo: 146899		
Client ID: BatchQC	Batch ID: 57915	TestNo: E903.0		E903-904		Analysis Date: 7/12/2022			SeqNo: 3890535		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	1.14	1.00	1.000	0	114	50	150				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analy
J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response	MC	Value is below Minimum Compound
ND	Not Detected	OG1		P	Second column confirmation exceeds
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

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QC SUMMARY REPORT

WO#: 22060560
12-Jul-22

Client: TEKLAB Inc,
Project: 22051753

BatchID: 57916

Sample ID: MB-57916	SampType: MBLK	TestCode: Radium-228_ Units: pCi/L				Prep Date: 7/5/2022				RunNo: 146844		
Client ID: PBW	Batch ID: 57916	TestNo: E904.0		E903-904		Analysis Date: 7/8/2022				SeqNo: 3888527		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Radium-228	ND	1.00		0	0							
Yield	1.00			0	0							

Sample ID: LCS-57916	SampType: LCS	TestCode: Radium-228_ Units: pCi/L				Prep Date: 7/5/2022			RunNo: 146844		
Client ID: LCSW	Batch ID: 57916	TestNo: E904.0		E903-904		Analysis Date: 7/8/2022			SeqNo: 3888528		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	3.67	1.00	5.000	0	73.4	70	130				
Yield	1.00			0	0						

Sample ID: LCSD-57916	SampType: LCSD	TestCode: Radium-228_ Units: pCi/L				Prep Date: 7/5/2022			RunNo: 146844		
Client ID: LCSS02	Batch ID: 57916	TestNo: E904.0		E903-904		Analysis Date: 7/8/2022			SeqNo: 3888529		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	3.81	1.00	5.000	0	76.2	70	130	3.670	3.74	20	
Yield	1.00			0	0			1.000	0		

Qualifiers: B Analyte detected in the associated Method Blank E Value above quantitation range H Holding times for preparation or analy
J Analyte detected below quantitation limits M Manual Integration used to determine area response MC Value is below Minimum Compound
ND Not Detected OG1 P Second column confirmation exceeds
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QC SUMMARY REPORT

WO#: 22060560
12-Jul-22

Client: TEKLAB Inc,
Project: 22051753

BatchID: 57916

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analy
J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response	MC	Value is below Minimum Compound
ND	Not Detected	OG1		P	Second column confirmation exceeds
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

Original

TEKLAB, INC. Chain of Custody

5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005

22060580

Are the samples chilled? YES ☐ NO ☒ With: ☐ Ice ☐ Blue Ice ☐ Preserved in: ☐ Lab ☐ Field

Teklab Inc
5445 Horseshoe Lake Road
Collinsville, IL 62234

Cooler Temp: Sampler: Joseph Riley

QC Level: 2

Project#: 22051753

Comments: Please issue reports and invoices via email only

Please analyze for Radium 226/228 on your standard turn around time.

Samples collected from an IL site.

Batch QC is required for all analyses requested. EDD requested...

Contact: Shelly Hennessy Email: shennessy@TekLabInc.com
Standard TAT Billing/PO: 32888

Phone: (618) 344-1004

PLEASE NOTE

NELAP accreditation is required on the requested analytes and must be documented as such on the final report. If your laboratory does not currently hold a NELAP accreditation for the requested method and/or analytes, please contact Teklab immediately. If your laboratory loses accreditation or is suspended for any analyte/method during the life of the contract, you must contact Teklab immediately. Any changes to analysis/methods must be approved by Teklab, Inc.

Lab Use	Sample ID	Sample Date/Time	Preservative	Matrix
CPM 13, 17	22051753-001	6/1/22 1345	HNO3	Groundwater
20, 23	22051753-002	5/31/22 1330	HNO3	Groundwater
27, 25	22051753-003	5/31/22 1212	HNO3	Groundwater
23, 28	22051753-004	5/31/22 1147	HNO3	Groundwater
20, 26	22051753-005	5/31/22 1628	HNO3	Groundwater
16, 21	22051753-006	5/31/22 1655	HNO3	Groundwater
16, 18	22051753-007	5/31/22 1422	HNO3	Groundwater
33, 39	22051753-008	6/1/22 1019	HNO3	Groundwater
23, 28	22051753-009	5/31/22 1357	HNO3	Groundwater
20, 21	22051753-010	6/1/22 1047	HNO3	Groundwater
37, 41	22051753-011	5/31/22 1301	HNO3	Groundwater

Relinquished By: Shelly Hennessy (618) 344-1004 Received By: Shelly Hennessy Date/Time: 06/08/22 1600

19.7-0.1-19.6 FedEx cooler 1600 2 cont PC Sample
Teklab maintains a strict policy of client confidentiality and as such does not provide client/sampler information without proper authorization, and proprietary rights, Teklab, Inc. protects clients' confidential information as directed by local, state or federal laws. (Teklab QAM Section 9.1, TNI V1 M2 Section 4.1.5 c)

Sample Log-In Check List

Client Name: **TEK-IL-62234-A**

Work Order Number: **22060560**

RcptNo: **1**

Logged by: **Anthony W. Britton** 6/8/2022 4:00:00 PM

Anthony Britton

Completed By: **Anthony W. Britton** 6/9/2022 9:11:31 AM

Anthony Britton

Reviewed By: **Jennifer Woolf** 6/10/2022 6:39:39 PM

Jennifer Woolf

Chain of Custody

1. Were seals intact? Yes ☒ No ☐ Not Present ☐
2. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
3. How was the sample delivered? FedEx

Log In

4. Coolers are present? Yes ☐ No ☒ NA ☐
5. Was an attempt made to cool the samples? Yes ☐ No ☒ NA ☐
6. Were all samples received at a temperature of >0° C to 6.0°C Yes ☐ No ☒ NA ☐
- Not required**
7. Sample(s) in proper container(s)? Yes ☒ No ☐
8. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
9. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
10. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
11. Is the headspace in the VOA vials less than 1/4 inch or 6 mm? Yes ☐ No ☐ No VOA Vials ☒
12. Were any sample containers received broken? Yes ☐ No ☒
13. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
14. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
15. Is it clear what analyses were requested? Yes ☒ No ☐
16. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐

Special Handling (if applicable)

17. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified:		Date:	
By Whom:		Via:	☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding:			
Client Instructions:			

18. Additional remarks:

Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
box	19.6	Good	Not Present			