City Water, Light & Power
FGDS Development Unit 2 Landfill

Annual Groundwater Monitoring and Corrective Action Report
40 CFR Part 257
Year Ending December 31, 2025

January 2026

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1. INTRODUCTION

Pursuant to 40 CFR §257.90(e), provided herein is the 2025 Annual Groundwater Monitoring and Corrective Action Report for the year ending December 31, 2025.

The CWLP Flue Gas Desulfurization System (FGDS) Development Unit 2 Landfill is located north of the former Lakeside Power Generating Station and Dallman Power Generating Station, and east of the CCR surface impoundments, in the eastern one-half of Section 12, Township 15 North, Range 5 West, Springfield, Illinois (Figure 1).

Unit 2 encompasses approximately 22.3 acres and is located immediately east of the Dallman Ash Pond. Currently, only Cell 3, consisting of approximately 3.5 acres, has been developed and is active. No other portions of Unit 2 have been developed or used for the storage or disposal of coal combustion residual (CCR) material. Unit 2 was designed and permitted in accordance with Ill. Adm. Code 814, Subpart C (Standards for Existing Units Accepting Chemical or Putrescible Wastes That May Remain Open for More Than Seven Years). Cell 3 is operated and monitored in accordance with these same requirements, which are based on the Resource Conservation and Recovery Act (RCRA) Subtitle D standards (40 CFR Part 258 – Criteria for Municipal Solid Waste Landfills).

The groundwater monitoring program (GMP), which complies with 40 CFR §§ 257.90 through 257.98, was revised pursuant to the January 14, 2025 Consent Agreement and Final Order (CAFO). The revised GMP was posted to the CCR website in February 2025. The Unit 2 Landfill GMP includes five groundwater monitoring wells, consisting of one upgradient well (R101) and four downgradient wells (AW-2, P07D, G121, and G122).

CWLP recalculated background concentrations and groundwater protection standards (GWPS) for Appendix III and Appendix IV constituents at the Unit 2 Landfill. These recalculated values were presented in the June 13, 2025 Updated Sampling Report/Confirmatory Sampling Report. In accordance with Paragraph 284 of the CAFO, the revised background concentrations and GWPS were retroactively applied to groundwater data collected in October 2023, throughout calendar year 2024, and during background sampling conducted in 2025.

A report documenting statistically significant increases (SSIs) of Appendix III constituents and the statistically significant level (SSL) exceedance of the Appendix IV constituent arsenic (total) at wells AW-2, P07D, and G121 was submitted on June 13, 2025, and posted to the CCR website. An alternate source demonstration (ASD) addressing the arsenic SSL at these wells was submitted on September 11, 2025. USEPA initially denied the Unit 2 Landfill ASD, and CWLP subsequently objected, thereby initiating the Informal Dispute Resolution process as outlined in the CAFO.

Status of the Groundwater Monitoring and Corrective Action Programs

Pursuant to 40 CFR 257.90(e)(6), the annual report shall provide an overview of the current status of groundwater monitoring and corrective action programs for the subject CCR unit, to include (in italics):

1. *At the start of the current annual reporting period, whether the CCR unit was operating under the detection monitoring program in §257.94 or the assessment monitoring program in §257.95;*

CWLP started the 2025 reporting period for the Unit 2 Landfill under the detection monitoring program requirements of §257.94.

2. *At the end of the current annual reporting period, whether the CCR unit was operating under the detection monitoring program in §257.94 and the assessment monitoring pursuant to §257.95;*

CWLP ended the 2025 reporting period under the assessment monitoring program requirements of *§257.94.*

3. *If it was determined that there was a statistically significant increase over background for one or more constituents listed in Appendix III to this part pursuant to §257.94(e):*

    a. *Identify those constituents listed in Appendix III to this part and the names of the monitoring wells associated with such an increase; and*

The analytical results from the 2025 groundwater sampling events are summarized in Table 1, and confirmed exceedances are summarized in Table 2.

As discussed above, background concentrations for the Appendix III parameters were recalculated using site-specific data and statistical methods consistent with the requirements of 40 CFR § 257.93. The recalculated site-specific background concentrations are summarized below, along with the associated monitoring wells exhibiting statistically significant increases.

Appendix III Parameter	***Units***	***MCL[1]***	***Site Specific Background***	***Final GWPS***
Boron, total	*mg/L*	*NA*	*0.13375*	*0.13375*
Calcium, total	*mg/L*	*NA*	*172.04*	*172.04*
Chloride, total	*mg/L*	*NA*	*114.35*	*114.35*
Fluoride, total	*mg/L*	*4*	*0.5*	*4*
pH	*s.u.*	*NA*	*6.34-7.33*	*6.34-7.33*
Sulfate, total	*mg/L*	*NA*	*279.78*	*279.78*
TDS	*mg/L*	*NA*	*1024.52*	*1024.52*

Notes: 1 - 40 CFR 141

The Appendix III constituents that exhibited an SSI during 2024 are as follows:

Appendix III Parameter	***R101***	***AW-2***	***P07D***	***G121***	***G122***
Boron, total		*X*	*X*	*X*	*X*
Calcium, total			*X*	*X*	*X*
Sulfate, total			*X*	*X*	*X*
TDS				*X*	*X*

b. *Provide the date when the assessment monitoring program was initiated for the CCR unit.*

Assessment monitoring was initiated on June 9, 2025

4. *If it was determined that there was a statistically significant level above the groundwater protection standard for one or more constituents listed in Appendix IV to this part pursuant to §257.95(g) include all of the following:*

   a. *Identify those constituents listed in Appendix IV to this part and the names of the monitoring wells associated with such an increase;*

The 2025 groundwater analytical results are summarized in Table 1, and GWPS exceedances are summarized in Table 2.

As discussed previously, background concentrations for the Appendix IV constituents were recalculated using site-specific data and statistical methods consistent with the requirements of 40 CFR § 257.93. The applicable maximum contaminant levels (MCLs) and published groundwater protection standards (GWPSs) are provided below. In accordance with the CCR Rule, where background concentrations exceed the published MCLs or GWPSs, site-specific GWPSs were developed based on background concentrations.

Appendix IV Parameter	***Units***	***MCL[1]***	***Published GWPS[2]***	***Site Specific Background***	***Final GWPS***
Antimony, total	*mg/L*	*0.006*	*NA*	*0.001*	*0.006*
Arsenic, total	*mg/L*	*0.01*	*NA*	*0.001*	*0.01*
Barium, total	*mg/L*	*2*	*NA*	*0.06236*	*2*
Beryllium, total	*mg/L*	*0.004*	*NA*	*0.0005*	*0.004*
Cadmium, total	*mg/L*	*0.005*	*NA*	*0.005*	*0.005*
Chromium, total	*mg/L*	*0.1*	*NA*	*0.005*	*0.1*
Cobalt, total	*mg/L*	*NA*	*0.006*	*0.005*	*0.006*

Appendix IV Parameter	Units	MCL[1]	Published GWPS[2]	Site Specific Background	Final GWPS
Lead, total	*mg/L*	*NA*	*0.015*	*0.0075*	*0.015*
Lithium	*mg/L*	*NA*	*0.04*	*0.0524*	*0.0524*
Mercury, total	*mg/L*	*0.002*	*NA*	*0.0002*	*0.002*
Molybdenum	*mg/L*	*NA*	*0.1*	*0.01*	*0.1*
Radium-226+228	*pCi/L*	*5*	*NA*	*2.34*	*5*
Selenium, total	*mg/L*	*0.05*	*NA*	*0.001*	*0.05*
Thallium	*mg/L*	*0.002*	*NA*	*0.002*	*0.002*

Notes:
1 - 40 CFR 141
2 - Published GWPS based upon 40 CFR 257.95(h)(2)

Exceedances of the total arsenic groundwater protection standard (0.01 mg/L) were observed at downgradient groundwater monitoring wells AW-2, P07D, and G121.

Appendix IV Parameter	R101	AW-2	P07D	G121	G122
Arsenic, total		X	X	X	

b. *Provide the date when the assessment of corrective measures was initiated for the CCR unit;*

An alternate source demonstration (ASD) addressing the arsenic statistically significant level (SSL) at monitoring wells AW-2, P07D, and G121 was submitted on September 11, 2025. USEPA initially denied the Unit 2 Landfill ASD, and CWLP subsequently objected, thereby initiating the Informal Dispute Resolution process as outlined in the Consent Agreement and Final Order (CAFO). CWLP and USEPA continue to work collaboratively through the review of the ASD.

c. *Provide the date when the public meeting was held for the assessment of corrective measures for the CCR unit; and*

No public meeting was held in 2025.

d. *Provide the date when the assessment of corrective measures was completed for the CCR unit.*

No assessment of corrective measures was completed in 2025.

5. *Whether a remedy was selected pursuant to §257.97 during the current annual reporting period, and if so, the date of remedy selection; and*

No remedy was selected pursuant to §257.97 during the current reporting period.

6. *Whether remedial activities were initiated or are ongoing pursuant to §257.98 during the current annual reporting period.*

No remedial activities were initiated or are ongoing during the current reporting period.

2. GROUNDWATER MONITORING PROGRAM

The Unit 2 Landfill groundwater monitoring network, established pursuant to 40 CFR § 257.91, consists of one upgradient monitoring well (R101) and four downgradient monitoring wells (AW-2, P07D, G121, and G122). This 2025 Annual Groundwater Monitoring and Corrective Action Report addresses data collected from these monitoring wells.

3. 40 CFR 257.90(e): KEY ACTIONS COMPLETED, PROBLEMS ENCOUNTERED, AND KEY ACTIVITIES FOR 2025

3.1 Key Actions Completed

The following items identify key actions that occurred in 2025 specifically related to the Groundwater Monitoring Program.

3.1.1 Initiation of Detection Monitoring

CWLP initiated detection monitoring at the Unit 2 Landfill in accordance with 40 CFR § 257.90(b) in October 2023. Groundwater samples were collected on a quarterly basis throughout 2024 and continued quarterly through the second quarter of 2025 for Appendix III and Appendix IV constituents at both background and downgradient monitoring wells. Beginning in the third quarter of 2025, groundwater sampling at the Unit 2 Landfill transitioned to a semiannual frequency.

3.1.2 Establishment of a Groundwater Monitoring Program

The groundwater monitoring program (GMP) was revised pursuant to the January 14, 2025 Consent Agreement and Final Order (CAFO) and was posted to the CCR website in February 2025. The Unit 2 Landfill GMP includes five groundwater monitoring wells, consisting of one upgradient well (R101) and four downgradient wells (AW-2, P07D, G121, and G122).

3.2 Problems Encountered

No problems were encountered in 2025.

3.3 Key Activities for Upcoming Year (2026)

CWLP and USEPA continue to work toward resolution of the Alternate Source Demonstration submitted on September 11, 2025. CWLP will continue to collect semiannual groundwater samples from the Unit 2 Landfill monitoring wells through 2026.

During a teleconference on December 15, 2025, USEPA staff verbally indicated that monitoring well R101 was not appropriate for use as a background well. On January 22, 2026, CWLP proposed the installation of one or more monitoring wells between the Unit 2 Landfill and the adjacent upgradient Dallman Ash Pond to establish new background values and GWPS for Unit 2. If approved by USEPA, the ASD will no longer be necessary.

CWLP will update the Flow Path Analysis for the Unit 2 Landfill in 2026 to confirm that the groundwater monitoring network includes an appropriate number of wells, with appropriate spacing, to adequately monitor all potential contaminant migration pathways.

4. 40 CFR 257.90(e)(1) – (5)

Additional requirements for the Annual Groundwater Monitoring and Corrective Action Report are specified in 40 CFR § 257.90(e)(1)–(5). Each requirement is reproduced below, followed by the corresponding response.

1. *A map, aerial image, or diagram showing the CCR unit and all background (or upgradient) and downgradient monitoring wells, to include the well identification numbers that are part of the groundwater monitoring program for the CCR unit.*

A map of the key features required above is provided as Figure 2 to this annual report.

2. *Identification of any monitoring wells that were installed or decommissioned during the preceding year, along with a narrative description of why those actions were taken.*

No wells were installed or decommissioned from the 40 CFR Part 257 groundwater monitoring system in 2025.

3. *In addition to all the monitoring data obtained under §257.90 through §257.98, a summary including the number of groundwater samples that were collected for analysis for each background and downgradient well, the dates the samples were collected, and whether the sample was required by the detection monitoring or assessment monitoring programs.*

Tabulated data for detection monitoring conducted in 2025 are provided in Table 1. Samples were collected during the first and second quarters of 2025 to obtain the eight independent samples

required from each well. Beginning in the third quarter of 2025, groundwater samples were collected on a semiannual basis. Laboratory analytical reports for all samples are provided in Attachment 1.

4. *A narrative discussion of any transition between monitoring programs including the dates of the transition and the identification of the constituent(s) that necessitated the initiation of assessment monitoring.*

The transition between detection and assessment monitoring occurred in June 2025 based on the SSL discussed in Section 1 above.

5. *Other information required to be included in the annual report as specified in §257.90 through §257.98.*

   a. *Alternative monitoring frequency certification in accordance with §257.94(d)(3) and §257.95(c)(3).*

No alternative monitoring frequency has been requested or implemented. Therefore, no certification is required.

   b. *Any alternate source demonstration completed in response to any statistically significant increases completed during the previous year in accordance with §257.94(e)(2) and §257.95(g)(3)(ii).*

An Alternate Source Demonstration (ASD) for the statistically significant level (SSL) of total arsenic at wells AW-2, P07D, and G121 was prepared and posted on September 11, 2025. CWLP and USEPA are currently working to resolve the ASD.

   c. *Assessment of corrective measures completed during the previous year in accordance with §257.96(a).*

No assessment of corrective measures was completed in 2025.

5. CONCLUSION

The CWLP Flue Gas Desulfurization System (FGDS) Development Unit 2 Landfill operated under the detection monitoring program through May 2025. Assessment monitoring was initiated in June 2025 in response to the statistically significant increase (SSI) of total arsenic at wells AW-2, P07D, and G121. An alternate source demonstration (ASD) for the arsenic SSI at these wells was submitted on September 11, 2025. USEPA initially denied the Unit 2 Landfill ASD, and CWLP subsequently objected, initiating the Informal Dispute Resolution process as outlined in the

Consent Agreement and Final Order (CAFO). USEPA has agreed that the use of well R101 as a background well is inappropriate and has recommended the installation of one or more monitoring wells north of G120, between the Dallman Ash Pond and Unit 2, for the purpose of establishing new background concentrations.

In 2026, CWLP plans to continue semiannual detection monitoring, address background well and GWPS issues through the Informal Dispute Resolution process (including the potential installation of additional background monitoring wells as suggested by USEPA) and update the Groundwater Flow Path Analysis to confirm the adequacy of the monitoring network. These activities will support the final establishment of background concentrations and GWPS, enabling statistical evaluations and potential program transitions in accordance with 40 CFR Part 257, Subpart D.

This report fulfills the requirements of 40 CFR § 257.90(e) for the calendar year ending December 31, 2025.

TABLES

TABLE 1:
2025 GROUNDWATER ANALYTICAL RESULTS SUMMARY TABLE

City Water, Light and Power
FGDS Unit 2 Landfill
2025 Groundwater Analytical Summary Data

Well_ID	Parameter	Units	40 CFR 257	MCL 40 CFR 141	Background	2025-Q1		2025-Q2		2025-Q3	2025-Q4
						Feb-25	Mar-25	Apr-25	May-25	25-Aug	Nov-25
Appendix III											
AW-2	Boron, total	mg/L	--	--	**0.13375**	1.48	1.9	1.77	3.05	3.08	
R101	Boron, total	mg/L	--	--	**0.13375**	0.125	0.134	0.124	0.116	0.127	
G121	Boron, total	mg/L	--	--	**0.13375**	3.54	3.05	3.65	3.93	3.21	
G122	Boron, total	mg/L	--	--	**0.13375**	10.3	10.9	12	11.1	12.5	
P07D	Boron, total	mg/L	--	--	**0.13375**	5.26	5.65	5.22	5.28	5.54	
AW-2	Calcium, total	mg/L	--	--	**172.04**	111	128	115	148	157	
R101	Calcium, total	mg/L	--	--	**172.04**	159	166	152	163	159	
G121	Calcium, total	mg/L	--	--	**172.04**	169	186	173	185	194	
G122	Calcium, total	mg/L	--	--	**172.04**	220	250	241	230	258	
P07D	Calcium, total	mg/L	--	--	**172.04**	179	195	175	187	194	
AW-2	Chloride, total	mg/L	--	--	**114.35**	19.5	21.2	21.2	29.5	26	
R101	Chloride, total	mg/L	--	--	**114.35**	98.4	101	103	109	105	
G121	Chloride, total	mg/L	--	--	**114.35**	28	28.8	28.1	29.9	28.9	
G122	Chloride, total	mg/L	--	--	**114.35**	35	34.5	36.4	37.4	37.3	
P07D	Chloride, total	mg/L	--	--	**114.35**	31.4	31.7	31.9	33.5	31.8	
AW-2	Fluoride, total	mg/L	**4**	--	0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	
R101	Fluoride, total	mg/L	**4**	--	0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	
G121	Fluoride, total	mg/L	**4**	--	0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	
G122	Fluoride, total	mg/L	**4**	--	0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	
P07D	Fluoride, total	mg/L	**4**	--	0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	
AW-2	pH	s.u.	--	--	**6.34 - 7.33**	7.05	7.01	6.81	6.89	6.87	6.82
R101	pH	s.u.	--	--	**6.34 - 7.33**	7.07	7.03	6.86	6.79	6.69	7.49
G121	pH	s.u.	--	--	**6.34 - 7.33**	6.95	7	6.65	6.79	6.76	6.76
G122	pH	s.u.	--	--	**6.34 - 7.33**	6.75	6.76	6.54	6.74	6.71	6.86
P07D	pH	s.u.	--	--	**6.34 - 7.33**	6.78	6.84	6.7	6.72	6.67	
AW-2	Sulfate, total	mg/L	--	--	**279.78**	53.7	66.1	65.8	146	131	
R101	Sulfate, total	mg/L	--	--	**279.78**	254	263	256	272	264	
G121	Sulfate, total	mg/L	--	--	**279.78**	314	281	310	328	344	
G122	Sulfate, total	mg/L	--	--	**279.78**	510	499	537	526	552	
P07D	Sulfate, total	mg/L	--	--	**279.78**	287	298	283	307	324	
AW-2	Total Dissolved Solids	mg/L	--	--	**1024.52**	588	632	650	810	832	812
R101	Total Dissolved Solids	mg/L	--	--	**1024.52**	940	888	956	902	970	930
G121	Total Dissolved Solids	mg/L	--	--	**1024.52**	1240	1710	1240	1210	1250	1110
G122	Total Dissolved Solids	mg/L	--	--	**1024.52**	1320	2000	1200	1480	1570	1430
P07D	Total Dissolved Solids	mg/L	--	--	**1024.52**	990	990	1160	1110	1180	

City Water, Light and Power
FGDS Unit 2 Landfill
2025 Groundwater Analytical Summary Data

Well_ID	Parameter	Units	40 CFR 257	MCL 40 CFR 141	Background	2025-Q1		2025-Q2		2025-Q3	2025-Q4
						Feb-25	Mar-25	Apr-25	May-25	25-Aug	Nov-25
Appendix IV											
AW-2	Antimony, total	mg/L	**0.006**	--	0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	
R101	Antimony, total	mg/L	**0.006**	--	0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	
G121	Antimony, total	mg/L	**0.006**	--	0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.002	
G122	Antimony, total	mg/L	**0.006**	--	0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	
P07D	Antimony, total	mg/L	**0.006**	--	0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	
AW-2	Arsenic, total	mg/L	**0.01**	--	0.001	0.0017	0.0012	0.0014	0.0166	0.011	
R101	Arsenic, total	mg/L	**0.01**	--	0.001	< 0.001	< 0.001	< 0.001	0.0011	< 0.001	
G121	Arsenic, total	mg/L	**0.01**	--	0.001	0.0169	< 0.001	0.0145	0.018	0.0044	
G122	Arsenic, total	mg/L	**0.01**	--	0.001	0.001	0.0016	0.0032	0.0027	0.0029	
P07D	Arsenic, total	mg/L	**0.01**	--	0.001	0.0276	0.0292	0.0262	0.0324	0.0255	
AW-2	Barium, total	mg/L	**2**	--	0.06236	0.283	0.316	0.299	0.647	0.604	
R101	Barium, total	mg/L	**2**	--	0.06236	0.0086	0.0254	0.0101	0.149	0.0156	
G121	Barium, total	mg/L	**2**	--	0.06236	0.56	0.274	0.573	0.641	0.354	
G122	Barium, total	mg/L	**2**	--	0.06236	0.22	0.524	0.491	0.456	0.466	
P07D	Barium, total	mg/L	**2**	--	0.06236	0.913	0.943	0.847	0.827	0.789	
AW-2	Beryllium, total	mg/L	**0.004**	--	0.0005	< 0.0005	< 0.0005	< 0.0005	0.0006	< 0.0005	
R101	Beryllium, total	mg/L	**0.004**	--	0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	
G121	Beryllium, total	mg/L	**0.004**	--	0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	
G122	Beryllium, total	mg/L	**0.004**	--	0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	
P07D	Beryllium, total	mg/L	**0.004**	--	0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	
AW-2	Cadmium, total	mg/L	**0.005**	--	0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	
R101	Cadmium, total	mg/L	**0.005**	--	0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	
G121	Cadmium, total	mg/L	**0.005**	--	0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	
G122	Cadmium, total	mg/L	**0.005**	--	0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	
P07D	Cadmium, total	mg/L	**0.005**	--	0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	
AW-2	Chromium, total	mg/L	**0.1**	--	0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	
R101	Chromium, total	mg/L	**0.1**	--	0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	
G121	Chromium, total	mg/L	**0.1**	--	0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	
G122	Chromium, total	mg/L	**0.1**	--	0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	
P07D	Chromium, total	mg/L	**0.1**	--	0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	
AW-2	Cobalt, total	mg/L	--	**0.006**	0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	
R101	Cobalt, total	mg/L	--	**0.006**	0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	
G121	Cobalt, total	mg/L	--	**0.006**	0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	
G122	Cobalt, total	mg/L	--	**0.006**	0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	
P07D	Cobalt, total	mg/L	--	**0.006**	0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	
AW-2	Lead, total	mg/L	--	**0.015**	0.0075	< 0.0075	< 0.0075	< 0.0075	< 0.001	< 0.0075	
R101	Lead, total	mg/L	--	**0.015**	0.0075	< 0.0075	< 0.0075	< 0.0075	0.0043	< 0.0075	
G121	Lead, total	mg/L	--	**0.015**	0.0075	< 0.0075	< 0.0075	< 0.0075	0.0023	< 0.0075	
G122	Lead, total	mg/L	--	**0.015**	0.0075	< 0.0075	< 0.0075	< 0.0075	< 0.001	< 0.0075	
P07D	Lead, total	mg/L	--	**0.015**	0.0075	< 0.0075	< 0.0075	< 0.0075	< 0.0075	< 0.0075	

City Water, Light and Power
FGDS Unit 2 Landfill
2025 Groundwater Analytical Summary Data

Well_ID	Parameter	Units	40 CFR 257	MCL 40 CFR 141	Background	2025-Q1		2025-Q2		2025-Q3	2025-Q4
						Feb-25	Mar-25	Apr-25	May-25	25-Aug	Nov-25
Appendix IV (cont.)											
AW-2	Lithium	mg/L	--	0.04	**0.0524**	0.0051	0.0053	0.0054	0.0062	0.0062	
R101	Lithium	mg/L	--	0.04	**0.0524**	0.0135	0.015	0.0156	0.0194	0.0194	
G121	Lithium	mg/L	--	0.04	**0.0524**	0.008	0.0073	0.0068	0.007	0.007	
G122	Lithium	mg/L	--	0.04	**0.0524**	0.0091	0.007	0.0062	0.0062	0.0062	
P07D	Lithium	mg/L	--	0.04	**0.0524**	0.0081	0.0081	0.0076	0.0099	0.0099	
AW-2	Mercury, total	mg/L	**0.002**	--	0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	
R101	Mercury, total	mg/L	**0.002**	--	0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	
G121	Mercury, total	mg/L	**0.002**	--	0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	
G122	Mercury, total	mg/L	**0.002**	--	0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	
P07D	Mercury, total	mg/L	**0.002**	--	0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	
AW-2	Molybdenum, total	mg/L	--	**0.1**	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	
R101	Molybdenum, total	mg/L	--	**0.1**	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	
G121	Molybdenum, total	mg/L	--	**0.1**	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	
G122	Molybdenum, total	mg/L	--	**0.1**	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	
P07D	Molybdenum, total	mg/L	--	**0.1**	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	
AW-2	Radium-226 + Radium-228	pCi/L	**5**	--	2.34	< 2	< 2	< 2	< 2	< 2	
R101	Radium-226 + Radium-228	pCi/L	**5**	--	2.34	< 2	< 2	< 2	< 2	< 2	
G121	Radium-226 + Radium-228	pCi/L	**5**	--	2.34	1.97	< 2	1	< 2	2.68	
G122	Radium-226 + Radium-228	pCi/L	**5**	--	2.34	< 2	< 2	< 2	< 2	< 2	
P07D	Radium-226 + Radium-228	pCi/L	**5**	--	2.34	2.49	1.73	< 2	1.22	< 2	
AW-2	Selenium, total	mg/L	**0.05**	--	0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	
R101	Selenium, total	mg/L	**0.05**	--	0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	
G121	Selenium, total	mg/L	**0.05**	--	0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	
G122	Selenium, total	mg/L	**0.05**	--	0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	
P07D	Selenium, total	mg/L	**0.05**	--	0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	
AW-2	Thallium, total	mg/L	**0.002**	--	**0.002**	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	
R101	Thallium, total	mg/L	**0.002**	--	**0.002**	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	
G121	Thallium, total	mg/L	**0.002**	--	**0.002**	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	
G122	Thallium, total	mg/L	**0.002**	--	**0.002**	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	
P07D	Thallium, total	mg/L	**0.002**	--	**0.002**	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	

Notes:

1. A shaded value indicates an exceedance of the higher of the MCL and the Background. The comparison value that was used is in bold font.

2. The 40 CFR 257 list requires Radium-226 and Radium-228 combined. The established MCL is for the combined parameters. However, these parameters require two separate analysis and have been reported separately by the analytical laboratory The sum of the values has been provided and compared to the MCL. Background values have been calculated for the individual parameters (Radium-226 = 1.41 pCi/L and Radium-228 =2.38 pCi/L).

TABLE 2:
2025 GROUNDWATER ANALYTICAL RESULTS EXCEEDANCE SUMMARY TABLE

City Water, Light and Power
FGDS Unit 2 Landfill
2025 Groundwater Exceedances

Well_ID	Parameter	Units	40 CFR 257	MCL 40 CFR 141	Background	2025-Q1		2025-Q2		2025-Q3	2025-Q4
						Feb-25	Mar-25	Apr-25	May-25	25-Aug	Nov-25
Appendix III											
AW-2	Boron, total	mg/L	--	--	**0.13375**	1.48	1.9	1.77	3.05	3.08	
R101	Boron, total	mg/L	--	--	**0.13375**	0.125	0.134	0.124	0.116	0.127	
G121	Boron, total	mg/L	--	--	**0.13375**	3.54	3.05	3.65	3.93	3.21	
G122	Boron, total	mg/L	--	--	**0.13375**	10.3	10.9	12	11.1	12.5	
P07D	Boron, total	mg/L	--	--	**0.13375**	5.26	5.65	5.22	5.28	5.54	
G121	Calcium, total	mg/L	--	--	**172.04**	169	186	173	185	194	
G122	Calcium, total	mg/L	--	--	**172.04**	220	250	241	230	258	
P07D	Calcium, total	mg/L	--	--	**172.04**	179	195	175	187	194	
R101	pH	s.u.	--	--	**6.34 - 7.33**	7.07	7.03	6.86	6.79	6.69	7.49
G121	Sulfate, total	mg/L	--	--	**279.78**	314	281	310	328	344	
G122	Sulfate, total	mg/L	--	--	**279.78**	510	499	537	526	552	
P07D	Sulfate, total	mg/L	--	--	**279.78**	287	298	283	307	324	
G121	Total Dissolved Solids	mg/L	--	--	**1024.52**	1240	1710	1240	1210	1250	1110
G122	Total Dissolved Solids	mg/L	--	--	**1024.52**	1320	2000	1200	1480	1570	1430
P07D	Total Dissolved Solids	mg/L	--	--	**1024.52**	990	990	1160	1110	1180	
Appendix IV											
AW-2	Arsenic, total	mg/L	**0.01**	--	0.001	0.0017	0.0012	0.0014	0.0166	0.011	
G121	Arsenic, total	mg/L	**0.01**	--	0.001	0.0169	< 0.001	0.0145	0.018	0.0044	
P07D	Arsenic, total	mg/L	**0.01**	--	0.001	0.0276	0.0292	0.0262	0.0324	0.0255	

Notes:

1. A shaded value indicates an exceedance of the higher of the MCL and the Background. The comparison value that was used is in bold font.

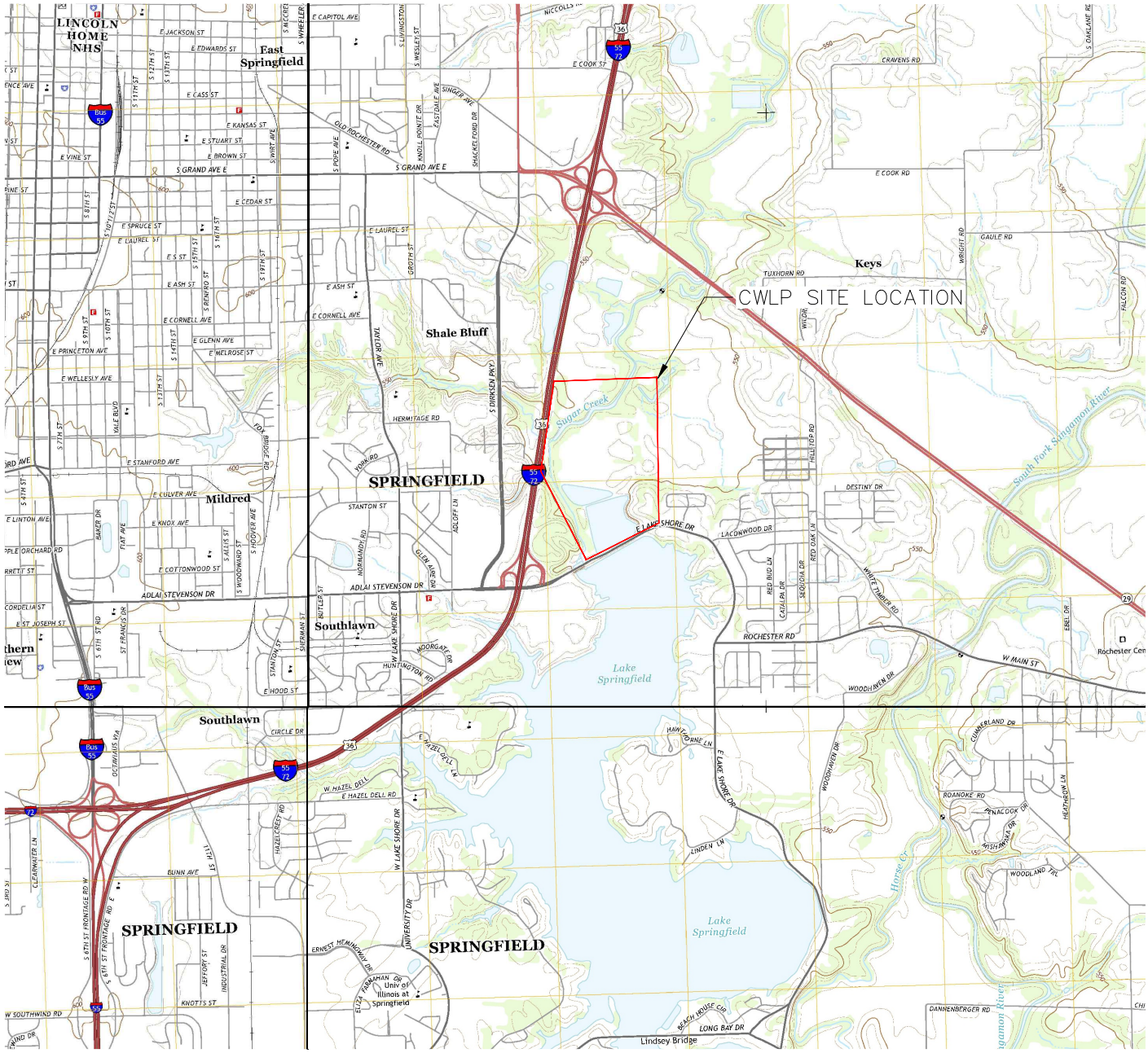
2. The 40 CFR 257 list requires Radium-226 and Radium-228 combined. The established MCL is for the combined parameters. However, these parameters require two separate analysis and have been reported separately by the analytical laboratory. The sum of the values has been provided and compared to the MCL. Background values have been calculated for the individual parameters (Radium-226 = 1.41 pCi/L and Radium-228 =2.38 pCi/L).

FIGURES:

Figure 1 – Site Map

Figure 2 – Site Details

J:\S\Springfield CWLP\CWLP Ash Pond\DWG\2025\Annual Consolidation Report\Site Map.dwg Tab: Layout1



N

0 200 4000 8000

SCALE: IN FEET

NOTE:
BACKGROUND IMAGE COURTESY OF
UNITED STATES GEOLOGICAL SURVEY.

ANDREWS ENGINEERING
3300 GINGER CREEK DRIVE
SPRINGFIELD, ILLINOIS 62711-7233
PH (217) 787-2334 WWW.ANDREWS-ENG.COM
PONTIAC, IL • LOMBARD, IL • INDIANAPOLIS, IN • WARRENTON, MO

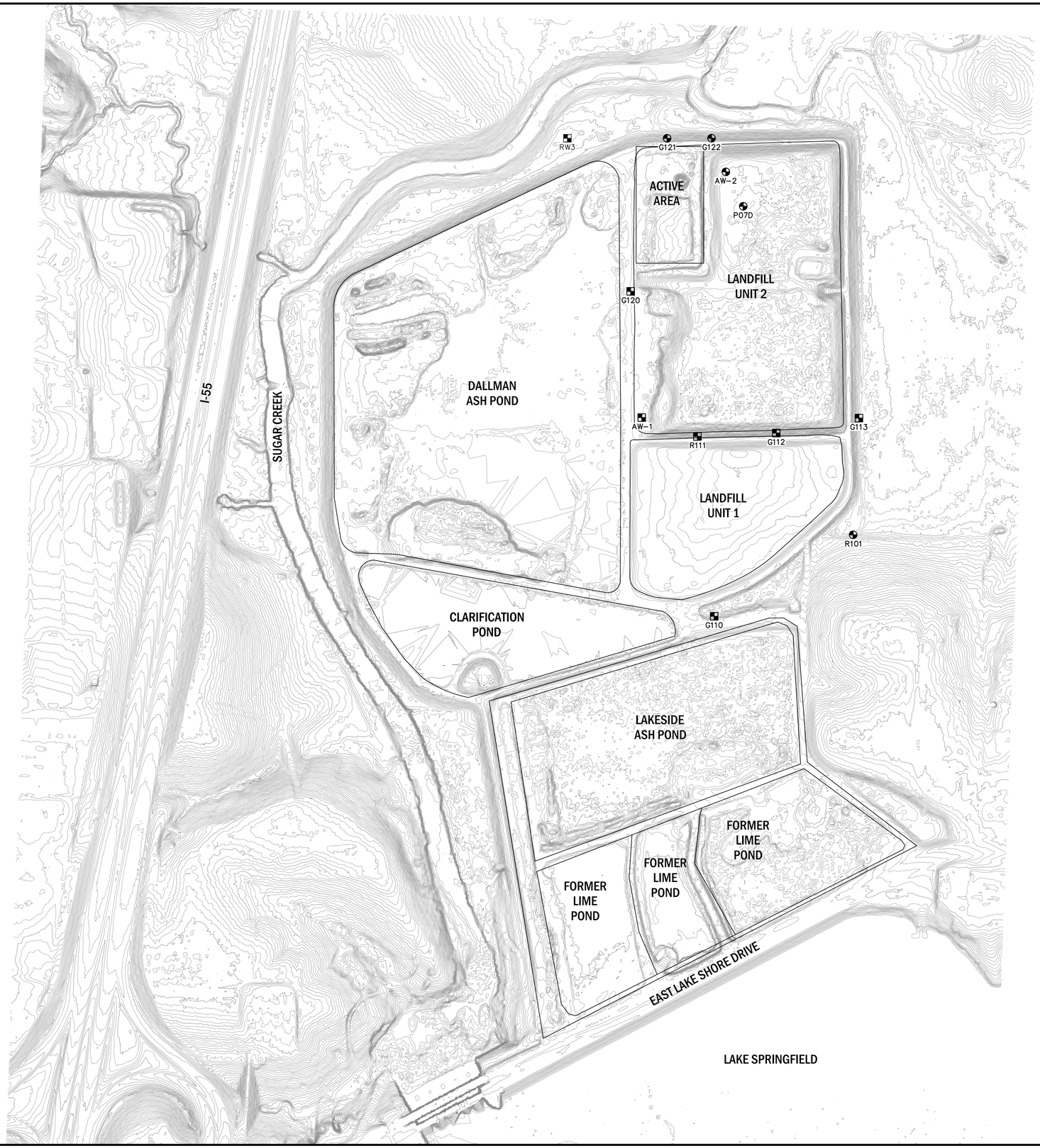
APPROVED BY: MTH | DESIGNED BY: MTH | DRAWN BY: BCK

SITE LOCATION

PLANS PREPARED FOR
CITY WATER, LIGHT, AND POWER
SPRINGFIELD, SANGAMON COUNTY, ILLINOIS

DATE: DECEMBER 2025
PROJECT ID: 250289/0005
SHEET NUMBER:

FIG. 1



LEGEND

- 40 CFR 257 GROUNDWATER MONITORING WELL
- PIEZOMETER (FOR GROUNDWATER ELEVATIONS ONLY)

NOTES

1. LIDAR DATA DERIVED FROM USGS WEBSITE (FLIGHT DATE: OCTOBER 15, 2018).

N

0 200 400 800

SCALE: IN FEET

NO.	DATE	REVISION DESCRIPTION	BY

ANDREWS ENGINEERING
3300 GINGER CREEK DRIVE
SPRINGFIELD, ILLINOIS 62711-7233
PH (217) 787-2334 WWW.ANDREWS-ENG.COM
PONTIAC, IL • LOMBARD, IL • INDIANAPOLIS, IN • WARRENTON, MO

DESIGNED BY: MTH | DRAWN BY: BCK | APPROVED BY: BJH

SITE DETAILS MAP

PREPARED FOR
CITY WATER, LIGHT, AND POWER
SPRINGFIELD, SANGAMON COUNTY, ILLINOIS

DATE: JANUARY 2026

PROJECT ID: 230339/0022

SHEET NUMBER:

FIG 2

Tab: SITE DETAILS MAP Last Saved: January 14, 2026, by Ben Korpus Plotted: Wednesday, January 14, 2026 11:21:33 AM
J:\S\Springfield CWLP\CWLP Ash Pond\DWG\2025\Site Detail Map 01242025.dwg

ATTACHMENT

ATTACHMENT 1:

2025 GROUNDWATER MONITORING REPORTS AND FIELD LOGS OF 2025 SAMPLING EVENTS

March 31, 2025

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
Illinois	1004652024-2
Kansas	E-10374
Louisiana	05002
Louisiana	05003
Oklahoma	9978

RE: FGDS Landfill **WorkOrder:** 25020750

Dear Eric Staley:

TEKLAB, INC received 12 samples on 2/21/2025 12:22:00 PM 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

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

Report Contents

Client: City Water, Light & Power
Work Order: 25020750
Client Project: FGDS Landfill
Report Date: 31-Mar-25

This reporting package includes the following:

Cover Letter	1
Report Contents	2
Definitions	3
Case Narrative	5
Accreditations	6
Laboratory Results	7
Receiving Check List	19
Chain of Custody	Appended

Client: City Water, Light & Power **Work Order:** 25020750

Client Project: FGDS Landfill **Report Date:** 31-Mar-25

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: 25020750
Client Project: FGDS Landfill
Report Date: 31-Mar-25

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: 25020750
Client Project: FGDS Landfill
Report Date: 31-Mar-25

Cooler Receipt Temp: 9.9 °C

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

Radium 226/228 analysis was performed by Alliance Technical Group. 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

Springfield

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

Kansas City

Address 8421 Nieman Road
Lenexa, KS 66214
Phone (913) 541-1998
Fax (913) 541-1998
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

Chicago

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

Client: City Water, Light & Power

Work Order: 25020750

Client Project: FGDS Landfill

Report Date: 31-Mar-25

State	Dept	Cert #	NELAP	Exp Date	Lab
Illinois	IEPA	100226	NELAP	1/31/2026	Collinsville
Illinois	IEPA	1004652024-2	NELAP	4/30/2026	Collinsville
Kansas	KDHE	E-10374	NELAP	4/30/2025	Collinsville
Louisiana	LDEQ	05002	NELAP	6/30/2025	Collinsville
Louisiana	LDEQ	05003	NELAP	6/30/2025	Collinsville
Oklahoma	ODEQ	9978	NELAP	8/31/2025	Collinsville
Arkansas	ADEQ	88-0966		3/14/2026	Collinsville
Illinois	IDPH	17584		5/31/2025	Collinsville
Iowa	IDNR	430		6/1/2026	Collinsville
Kentucky	KWLCP	KY98050		12/31/2025	Collinsville
Kentucky	KWLCP	KY98006		12/31/2025	Collinsville
Kentucky	UST	0073		1/31/2026	Collinsville
Mississippi	MSDH			4/30/2025	Collinsville
Missouri	MDNR	930		1/31/2028	Collinsville
Missouri	MDNR	00930		10/31/2026	Collinsville

Client: City Water, Light & Power **Work Order:** 25020750

Client Project: FGDS Landfill **Report Date:** 31-Mar-25

Lab ID: 25020750-001 **Client Sample ID:** R101

Matrix: GROUNDWATER **Collection Date:** 02/21/2025 10:20

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**511.53**	ft	1	02/21/2025 10:20	R360884
Depth to water	*	-5.00		**4.09**	ft	1	02/21/2025 10:20	R360884
Depth to water from measuring point	*	0		**6.89**	ft	1	02/21/2025 10:20	R360884
Elevation of groundwater surface	*	0		**539.91**	ft	1	02/21/2025 10:20	R360884
Measuring Point Elevation	*	0		**546.80**	ft	1	02/21/2025 10:20	R360884
Measuring Point Height Above Land Surface	*	0		**2.80**	ft	1	02/21/2025 10:20	R360884
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**3.1**	NTU	1	02/21/2025 10:20	R360884
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**49.0**	°F	1	02/21/2025 10:20	R360884
SW-846 9040B								
pH, Field	*	1.00		**7.07**		1	02/21/2025 10:20	R360884
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**680**	µmhos/cm @25C	1	02/21/2025 10:20	R360884
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	20		**940**	mg/L	1	02/24/2025 14:54	R360789
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	02/21/2025 21:22	R360629
Chloride	NELAP	5.00		**98.4**	mg/L	10	02/21/2025 21:22	R360629
Sulfate	NELAP	10.0		**254**	mg/L	10	02/21/2025 21:22	R360629
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.0086**	mg/L	1	02/24/2025 10:03	235106
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	02/24/2025 10:03	235106
Boron	NELAP	0.0200		**0.125**	mg/L	1	02/24/2025 10:03	235106
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	02/24/2025 10:03	235106
Calcium	NELAP	0.100	S	**159**	mg/L	1	02/24/2025 10:03	235106
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	02/24/2025 10:03	235106
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	02/24/2025 10:03	235106
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	02/24/2025 10:03	235106
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	02/24/2025 10:03	235106
Matrix spike control limits are not applicable due to high sample/spike ratio.								
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	02/24/2025 14:57	235106
Arsenic	NELAP	0.0010		**< 0.0010**	mg/L	5	02/24/2025 14:57	235106
Lithium	*	0.0030		**0.0135**	mg/L	5	02/25/2025 11:22	235106
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	02/25/2025 11:22	235106
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	02/24/2025 14:57	235106
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	02/25/2025 10:03	235158
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	03/25/2025 0:00	R362556
Radium-228	*	0		**See Attached**	pci/L	1	03/25/2025 0:00	R362556

Client: City Water, Light & Power **Work Order:** 25020750

Client Project: FGDS Landfill **Report Date:** 31-Mar-25

Lab ID: 25020750-007 **Client Sample ID:** G121

Matrix: GROUNDWATER **Collection Date:** 02/20/2025 13:25

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**497.04**	ft	1	02/20/2025 13:25	R360884
Depth to water	*	-5.00		**26.38**	ft	1	02/20/2025 13:25	R360884
Depth to water from measuring point	*	0		**28.25**	ft	1	02/20/2025 13:25	R360884
Elevation of groundwater surface	*	0		**527.35**	ft	1	02/20/2025 13:25	R360884
Measuring Point Elevation	*	0		**555.60**	ft	1	02/20/2025 13:25	R360884
Measuring Point Height Above Land Surface	*	0		**1.87**	ft	1	02/20/2025 13:25	R360884
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**30**	NTU	1	02/20/2025 13:25	R360884
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**54.8**	°F	1	02/20/2025 13:25	R360884
SW-846 9040B								
pH, Field	*	1.00		**6.95**		1	02/20/2025 13:25	R360884
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1570**	µmhos/cm @25C	1	02/20/2025 13:25	R360884
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	200		**1240**	mg/L	10	02/21/2025 14:58	R360717
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	02/21/2025 14:22	R360629
Chloride	NELAP	5.00		**28.0**	mg/L	10	02/21/2025 14:22	R360629
Sulfate	NELAP	10.0		**314**	mg/L	10	02/21/2025 14:22	R360629
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.560**	mg/L	1	02/24/2025 11:12	235055
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	02/24/2025 11:12	235055
Boron	NELAP	0.0200		**3.54**	mg/L	1	02/24/2025 11:12	235055
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	02/24/2025 11:12	235055
Calcium	NELAP	0.100		**169**	mg/L	1	02/24/2025 11:12	235055
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	02/24/2025 11:12	235055
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	02/24/2025 11:12	235055
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	02/24/2025 11:12	235055
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	02/24/2025 11:12	235055
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	02/24/2025 10:13	235055
Arsenic	NELAP	0.0010		**0.0169**	mg/L	5	02/25/2025 11:05	235055
Lithium	*	0.0030		**0.0080**	mg/L	5	02/24/2025 10:13	235055
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	02/24/2025 10:13	235055
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	02/25/2025 11:05	235055
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	02/21/2025 14:41	235075
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	03/21/2025 0:00	R362556
Radium-228	*	0		**See Attached**	pci/L	1	03/21/2025 0:00	R362556

Client: City Water, Light & Power **Work Order:** 25020750

Client Project: FGDS Landfill **Report Date:** 31-Mar-25

Lab ID: 25020750-008 **Client Sample ID:** G122

Matrix: GROUNDWATER **Collection Date:** 02/20/2025 13:39

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**505.11**	ft	1	02/20/2025 13:39	R360884
Depth to water	*	-5.00		**27.98**	ft	1	02/20/2025 13:39	R360884
Depth to water from measuring point	*	0		**29.72**	ft	1	02/20/2025 13:39	R360884
Elevation of groundwater surface	*	0		**524.68**	ft	1	02/20/2025 13:39	R360884
Measuring Point Elevation	*	0		**554.40**	ft	1	02/20/2025 13:39	R360884
Measuring Point Height Above Land Surface	*	0		**1.74**	ft	1	02/20/2025 13:39	R360884
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**14**	NTU	1	02/20/2025 13:39	R360884
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**50.2**	°F	1	02/20/2025 13:39	R360884
SW-846 9040B								
pH, Field	*	1.00		**6.75**		1	02/20/2025 13:39	R360884
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1420**	µmhos/cm @25C	1	02/20/2025 13:39	R360884
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	25		**1320**	mg/L	1.25	02/21/2025 14:59	R360717
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	02/21/2025 15:09	R360629
Chloride	NELAP	5.00		**35.0**	mg/L	10	02/21/2025 15:09	R360629
Sulfate	NELAP	10.0		**510**	mg/L	10	02/21/2025 15:09	R360629
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.220**	mg/L	1	02/24/2025 11:13	235055
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	02/24/2025 11:13	235055
Boron	NELAP	0.0200		**10.3**	mg/L	1	02/24/2025 11:13	235055
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	02/24/2025 11:13	235055
Calcium	NELAP	0.100		**220**	mg/L	1	02/24/2025 11:13	235055
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	02/24/2025 11:13	235055
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	02/24/2025 11:13	235055
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	02/24/2025 11:13	235055
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	02/24/2025 11:13	235055
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	02/24/2025 10:18	235055
Arsenic	NELAP	0.0010		**0.0010**	mg/L	5	02/25/2025 11:11	235055
Lithium	*	0.0030		**0.0091**	mg/L	5	02/24/2025 10:18	235055
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	02/24/2025 10:18	235055
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	02/25/2025 11:11	235055
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	02/21/2025 14:44	235075
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	03/21/2025 0:00	R362556
Radium-228	*	0		**See Attached**	pci/L	1	03/21/2025 0:00	R362556

Client: City Water, Light & Power **Work Order:** 25020750

Client Project: FGDS Landfill **Report Date:** 31-Mar-25

Lab ID: 25020750-010 **Client Sample ID:** AW-2

Matrix: GROUNDWATER **Collection Date:** 02/20/2025 10:18

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**497.34**	ft	1	02/20/2025 10:18	R360884
Depth to water	*	-5.00		**1.23**	ft	1	02/20/2025 10:18	R360884
Depth to water from measuring point	*	0		**4.53**	ft	1	02/20/2025 10:18	R360884
Elevation of groundwater surface	*	0		**525.45**	ft	1	02/20/2025 10:18	R360884
Measuring Point Elevation	*	0		**529.98**	ft	1	02/20/2025 10:18	R360884
Measuring Point Height Above Land Surface	*	0		**3.30**	ft	1	02/20/2025 10:18	R360884
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**18**	NTU	1	02/20/2025 10:18	R360884
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**41.9**	°F	1	02/20/2025 10:18	R360884
SW-846 9040B								
pH, Field	*	1.00		**7.05**		1	02/20/2025 10:18	R360884
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**764**	µmhos/cm @25C	1	02/20/2025 10:18	R360884
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	20		**588**	mg/L	1	02/21/2025 15:00	R360717
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	02/21/2025 15:32	R360629
Chloride	NELAP	5.00		**19.5**	mg/L	10	02/21/2025 15:32	R360629
Sulfate	NELAP	10.0		**53.7**	mg/L	10	02/21/2025 15:32	R360629
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.283**	mg/L	1	02/24/2025 11:19	235055
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	02/24/2025 11:19	235055
Boron	NELAP	0.0200		**1.48**	mg/L	1	02/24/2025 11:19	235055
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	02/24/2025 11:19	235055
Calcium	NELAP	0.100		**111**	mg/L	1	02/24/2025 11:19	235055
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	02/24/2025 11:19	235055
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	02/24/2025 11:19	235055
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	02/24/2025 11:19	235055
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	02/24/2025 11:19	235055
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	02/24/2025 11:02	235055
Arsenic	NELAP	0.0010		**0.0017**	mg/L	5	02/25/2025 12:25	235055
Lithium	*	0.0030		**0.0051**	mg/L	5	02/25/2025 12:25	235055
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	02/24/2025 11:02	235055
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	02/25/2025 12:25	235055
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	02/21/2025 14:58	235075
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	03/21/2025 0:00	R362556
Radium-228	*	0		**See Attached**	pci/L	1	03/21/2025 0:00	R362556

Client: City Water, Light & Power **Work Order:** 25020750

Client Project: FGDS Landfill **Report Date:** 31-Mar-25

Lab ID: 25020750-012 **Client Sample ID:** P07D

Matrix: GROUNDWATER **Collection Date:** 02/20/2025 11:12

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**528.25**	ft	1	02/20/2025 11:12	R360884
Depth to water	*	-5.00		**1.49**	ft	1	02/20/2025 11:12	R360884
Depth to water from measuring point	*	0		**4.49**	ft	1	02/20/2025 11:12	R360884
Elevation of groundwater surface	*	0		**523.76**	ft	1	02/20/2025 11:12	R360884
Measuring Point Elevation	*	0		**528.25**	ft	1	02/20/2025 11:12	R360884
Measuring Point Height Above Land Surface	*	0		**3.00**	ft	1	02/20/2025 11:12	R360884
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**40**	NTU	1	02/20/2025 11:12	R360884
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**46.8**	°F	1	02/20/2025 11:12	R360884
SW-846 9040B								
pH, Field	*	1.00		**6.78**		1	02/20/2025 11:12	R360884
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1250**	µmhos/cm @25C	1	02/20/2025 11:12	R360884
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	50		**990**	mg/L	2.5	02/21/2025 15:01	R360717
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	02/21/2025 15:44	R360629
Chloride	NELAP	5.00		**31.4**	mg/L	10	02/21/2025 15:44	R360629
Sulfate	NELAP	10.0		**287**	mg/L	10	02/21/2025 15:44	R360629
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.913**	mg/L	1	02/24/2025 11:20	235055
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	02/24/2025 11:20	235055
Boron	NELAP	0.0200		**5.26**	mg/L	1	02/24/2025 11:20	235055
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	02/24/2025 11:20	235055
Calcium	NELAP	0.100		**179**	mg/L	1	02/24/2025 11:20	235055
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	02/24/2025 11:20	235055
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	02/24/2025 11:20	235055
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	02/24/2025 11:20	235055
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	02/24/2025 11:20	235055
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	02/24/2025 11:07	235055
Arsenic	NELAP	0.0010		**0.0276**	mg/L	5	02/25/2025 12:31	235055
Lithium	*	0.0030		**0.0081**	mg/L	5	02/25/2025 12:31	235055
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	02/24/2025 11:07	235055
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	02/25/2025 12:31	235055
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	02/21/2025 15:00	235075
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	03/21/2025 0:00	R362556
Radium-228	*	0		**See Attached**	pci/L	1	03/21/2025 0:00	R362556

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CHAIN OF CUSTODY

Pg 1 of 2 Workorder # 25020750

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

Client: City Water, Light & Power
Address: 3100 Stevenson Drive, 2nd Floor Maintenance Building
City/State/Zip: Springfield IL 62712
Contact: Eric Staley Phone: (217) 757-8610
Email: eric.staley@cwlp.com Fax:

Samples on: [X] ICE [ ] BLUE ICE [ ] NO ICE 9.9 - 11.5°C #5
Preserved in: [ ] LAB [X] FIELD
LAB NOTES: 101358 dm 2/18/25

FOR LAB USE ONLY

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:
*elevations, pH, conductivity, temperature
**Sb As Se Li Tl (ICPMS) Ba Be B Cd Ca Cr Co Pb Hg Mo
Quarterly monitoring 4Q2023-3Q2025
RW-3 report data from Ash Pond sampling event.

PROJECT NAME/NUMBER
FGDS Landfill

SAMPLE COLLECTOR'S NAME
Justin Colp

RESULTS REQUESTED
[✓] Standard [ ] 1-2 Day (100% Surcharge)
[ ] Other _____ [ ] 3 Day (50% Surcharge)

BILLING INSTRUCTIONS

Lab Use Only	Sample ID	Date/Time Sampled	Matrix	# and Type of Containers: UNP	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	TSP	Other	INDICATE ANALYSIS REQUESTED: Field parameters*	Cl F SO4 TDS (T)	Metals (T)**	Radium-226	Radium-228	Field Turbidity
25020750-001	R101		Groundwater	1	2								✓	✓	✓	✓	✓	✓
002	G110		Groundwater	1	2								✓	✓	✓	✓	✓	✓
003	R111		Groundwater	1	2								✓	✓	✓	✓	✓	✓
004	G112		Groundwater	1	2								✓	✓	✓	✓	✓	✓
005	G113		Groundwater	1	2								✓	✓	✓	✓	✓	✓
006	G120		Groundwater	1	2								✓	✓	✓	✓	✓	✓
007	G121		Groundwater	1	2								✓	✓	✓	✓	✓	✓
008	G122		Groundwater	1	2								✓	✓	✓	✓	✓	✓
009	AW-1		Groundwater	1	2								✓	✓	✓	✓	✓	✓
010	AW-2		Groundwater	1	2								✓	✓	✓	✓	✓	✓
011	RW-3	2-18-25 1700	Groundwater	0	0								✓	✓	✓	✓	✓	✓

Relinquished By	Date/Time	Received By	Date/Time
J. Colp	2-18-25 1500	Amber Quall	2/18/25 1500

*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

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CHAIN OF CUSTODY

Pg 1 of 2 Workorder # 25020750

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

Client: City Water, Light & Power
Address: 3100 Stevenson Drive, 2nd Floor Maintenance Building
City/State/Zip: Springfield IL 62712
Contact: Eric Staley Phone: (217) 757-8610
Email: eric.staley@cwlp.com Fax:

Samples on: [x] ICE [ ] BLUE ICE [ ] NO ICE 10.1 °C #9
Preserved in: [ ] LAB [x] FIELD FOR LAB USE ONLY
LAB NOTES: pH V 101358 EIC 2119 2025

Are these samples known to be involved in litigation? If yes, a surcharge will apply: [ ] Yes [x] No
Are these samples known to be hazardous? [ ] Yes [x] No
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section: [x] Yes [ ] No Permit on file

Client Comments:
*elevations, pH, conductivity, temperature
**Sb As Se Li Tl (ICPMS) Ba Be B Cd Ca Cr Co Pb Hg Mo
Quarterly monitoring 4Q2023-3Q2025
RW-3 report data from Ash Pond sampling event.

PROJECT NAME/NUMBER
FGDS Landfill

SAMPLE COLLECTOR'S NAME
Justin Gdp

RESULTS REQUESTED
[x] Standard [ ] 1-2 Day (100% Surcharge)
[ ] Other _____ [ ] 3 Day (50% Surcharge)

BILLING INSTRUCTIONS

Lab Use Only	Sample ID	Date/Time Sampled	Matrix	# and Type of Containers									INDICATE ANALYSIS REQUESTED																
				UNP	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	TSP	Other	Field parameters*	Cl F SO4 TDS (T)	Metals (T)**	Radium-226	Radium-228	Field Turbidity											
25020750-001	R101		Groundwater	1	2								✓	✓	✓	✓	✓	✓											
002	G110	2-19-25 / 1325	Groundwater	1	2								✓	✓	✓	✓	✓	✓											
003	R111		Groundwater	1	2								✓	✓	✓	✓	✓	✓											
004	G112		Groundwater	1	2								✓	✓	✓	✓	✓	✓											
005	G113		Groundwater	1	2								✓	✓	✓	✓	✓	✓											
006	G120		Groundwater	1	2								✓	✓	✓	✓	✓	✓											
007	G121		Groundwater	1	2								✓	✓	✓	✓	✓	✓											
008	G122		Groundwater	1	2								✓	✓	✓	✓	✓	✓											
009	AW-1		Groundwater	1	2								✓	✓	✓	✓	✓	✓											
010	AW-2		Groundwater	1	2								✓	✓	✓	✓	✓	✓											
011	RW-3		Groundwater	0	0								✓	✓	✓	✓	✓	✓											

Relinquished By	Date/Time	Received By	Date/Time
	2-19 / 1550		2/19/25 15:50

*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

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CHAIN OF CUSTODY

Pg 1 of 2 Workorder # 25020750

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

Client: City Water, Light & Power
Address: 3100 Stevenson Drive, 2nd Floor Maintenance Building
City/State/Zip: Springfield IL 62712
Contact: Eric Staley Phone: (217) 757-8610
Email: eric.staley@cwlp.com Fax:

Samples on: [x] ICE [ ] BLUE ICE [ ] NO ICE 5.7/5.9 °C #9
Preserved in: [x] LAB [ ] FIELD
FOR LAB USE ONLY
LAB NOTES: Added HNO3(102194) to G121 2 liter and AW-1 2 liter. PM V101358 EK 2/20/2025

Are these samples known to be involved in litigation? If yes, a surcharge will apply: [ ] Yes [x] No
Are these samples known to be hazardous? [ ] Yes [x] No
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section: [x] Yes [ ] No Permit on file

Client Comments:
*elevations, pH, conductivity, temperature
**Sb As Se Li Tl (ICPMS) Ba Be B Cd Ca Cr Co Pb Hg Mo
Quarterly monitoring 4Q2023-3Q2025
RW-3 report data from Ash Pond sampling event.

PROJECT NAME/NUMBER
FGDS Landfill

SAMPLE COLLECTOR'S NAME
Justin Culp

RESULTS REQUESTED
[x] Standard [ ] 1-2 Day (100% Surcharge)
[ ] Other _____ [ ] 3 Day (50% Surcharge)

BILLING INSTRUCTIONS

Lab Use Only	Sample ID	Date/Time Sampled	Matrix	# and Type of Containers: UNP	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	TSP	Other	INDICATE ANALYSIS REQUESTED: Field parameters*	Cl F SO4 TDS (T)	Metals (T)**	Radium-226	Radium-228	Field Turbidity
25020750-001	R101		Groundwater	1	2								✓	✓	✓	✓	✓	✓
002	G110		Groundwater	1	2								✓	✓	✓	✓	✓	✓
003	R111	2-20-25 / 1141	Groundwater	1	2								✓	✓	✓	✓	✓	✓
004	G112	2-20-25 / 1255	Groundwater	1	2								✓	✓	✓	✓	✓	✓
005	G113		Groundwater	1	2								✓	✓	✓	✓	✓	✓
006	G120		Groundwater	1	2								✓	✓	✓	✓	✓	✓
007	G121	2-20-25 / 1325	Groundwater	1	2								✓	✓	✓	✓	✓	✓
008	G122	2-20-25 / 1334	Groundwater	1	2								✓	✓	✓	✓	✓	✓
009	AW-1	2-20-25 / 1221	Groundwater	1	2								✓	✓	✓	✓	✓	✓
010	AW-2	2-20-25 / 1018	Groundwater	1	2								✓	✓	✓	✓	✓	✓
011	RW-3		Groundwater	0	0								✓	✓	✓	✓	✓	✓

Relinquished By	Date/Time	Received By	Date/Time
	2-20 / 1555		2/20/25 1555

*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

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CHAIN OF CUSTODY

Pg 2 of 2 Workorder # 25020750

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

Client: City Water, Light & Power
Address: 3100 Stevenson Drive, 2nd Floor Maintenance Building
City/State/Zip: Springfield IL 62712
Contact: Eric Staley Phone: (217) 757-8610
Email: eric.staley@cwlp.com Fax:

Samples on: ☐ ICE ☐ BLUE ICE ☐ NO ICE _____ °C
Preserved in: ☐ LAB ☐ FIELD FOR LAB USE ONLY
LAB NOTES:

Client Comments:
*elevations, pH, conductivity, temperature
**Sb As Se Li Tl (ICPMS) Ba Be B Cd Ca Cr Co Pb Hg Mo
Quarterly monitoring 4Q2023-3Q2025

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

PROJECT NAME/NUMBER: FGDS Landfill
SAMPLE COLLECTOR'S NAME: Justin Colp

RESULTS REQUESTED
☑ Standard ☐ 1-2 Day (100% Surcharge)
☐ Other _____ ☐ 3 Day (50% Surcharge)

BILLING INSTRUCTIONS

Lab Use Only	Sample ID	Date/Time Sampled	Matrix	# and Type of Containers: UNP	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	TSP	Other	INDICATE ANALYSIS REQUESTED: Field parameters*	Cl F SO4 TDS (T)	Metals (T)**	Radium-226	Radium-228	Field Turbidity
25020750 02	P07D	2-20-25 / 1112	Groundwater	1	2								✔	✔	✔	✔	✔	✔
			Groundwater															
			Groundwater															
			Groundwater															
			Groundwater															
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			Groundwater															
			Groundwater															
			Groundwater															
			Groundwater															

Relinquished By	Date/Time	Received By	Date/Time
	2-20 / 1555		2/20/25 1555

*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

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CHAIN OF CUSTODY

Pg 1 of 2 Workorder # 25020750

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

Client: City Water, Light & Power
Address: 3100 Stevenson Drive, 2nd Floor Maintenance Building
City/State/Zip: Springfield IL 62712
Contact: Eric Staley Phone: (217) 757-8610
Email: eric.staley@cwlp.com Fax:

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

Samples on: ☒ ICE ☐ BLUE ICE ☐ NO ICE 5,5 °C #9
Preserved in: ☒ LAB ☐ FIELD FOR LAB USE ONLY
LAB NOTES: Added HNO3 (102194) to G113 and G120. PhV98858, 101358 EK 2/21/2025

Client Comments:
*elevations, pH, conductivity, temperature
**Sb As Se Li Tl (ICPMS) Ba Be B Cd Ca Cr Co Pb Hg Mo
Quarterly monitoring 4Q2023-3Q2025
RW-3 report data from Ash Pond sampling event.

PROJECT NAME/NUMBER
FGDS Landfill

SAMPLE COLLECTOR'S NAME
Justin Colp

RESULTS REQUESTED
☑ Standard ☐ 1-2 Day (100% Surcharge)
☐ Other ☐ 3 Day (50% Surcharge)

BILLING INSTRUCTIONS

Lab Use Only	Sample ID	Date/Time Sampled	Matrix	# and Type of Containers: UNP	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	TSP	Other	INDICATE ANALYSIS REQUESTED: Field parameters*	Cl F SO4 TDS (T)	Metals (T)**	Radium-226	Radium-228	Field Turbidity
25020750-001	R101	2-21-25 / 1020	Groundwater	1	2								✔	✔	✔	✔	✔	✔
002	G110		Groundwater	1	2								✔	✔	✔	✔	✔	✔
003	R111		Groundwater	1	2								✔	✔	✔	✔	✔	✔
004	G112		Groundwater	1	2								✔	✔	✔	✔	✔	✔
005	G113	2-21-25 / 0942	Groundwater	1	2								✔	✔	✔	✔	✔	✔
006	G120	2-21-25 / 0936	Groundwater	1	2								✔	✔	✔	✔	✔	✔
007	G121		Groundwater	1	2								✔	✔	✔	✔	✔	✔
008	G122		Groundwater	1	2								✔	✔	✔	✔	✔	✔
009	AW-1		Groundwater	1	2								✔	✔	✔	✔	✔	✔
010	AW-2		Groundwater	1	2								✔	✔	✔	✔	✔	✔
011	RW-3		Groundwater	0	0								✔	✔	✔	✔	✔	✔

Relinquished By	Date/Time	Received By	Date/Time
Tracy Carrell	2/21/25 1222	Emily Kosakoski	2/21/2025 1222

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Field Data Sheet

Project Name:	FGDS LF	**Monitoring Point:**	R101
Project Location:	Springfield, IL	**Sample ID:**	001
W.O. Number (s):	25020750	**Date (s):**	2/21/2025

Field Team Members

Name: Tracy Carroll Affiliation: TekLab, Inc.

Name: Danny Crump Affiliation: TekLab, Inc.

Weather Conditions

Temp: 15 °F Wind Direction: ☐ N ☐ S ☑ E ☐ EW ☐ SW ☐ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy Sky: ☑ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

Well Pad	Good
Casing	Good
Protective Casing	Good
Reference Mark/Identification	Yes

Locks	Yes	No
Protective Casing		X
Well		X

Groundwater Level Measurements

Date/Time Measured: 2/21/2025 9:52

Static Water Level: 6.89 feet below TOC

Total Depth: 35.27 feet below TOC

Water Column: 28.38 feet

Purging Activities

Purged By: TC Purge Date: 2/21/2025

Purge Method: Peristaltic Pump Well Diameter: 4"

Purge Volume Calculation (L): 28.38 ft. x 0.022 = 0.62 L x 3 Vol. = 1.86 L **Based on Low-Flow (3/8" discharge)*

Actual Purge Volume (L): 8.00 L

Physical appearance of purge water: Clear Odor: None Color: None

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
9:54	0.0	308	purge start time						
10:02	2.5	↓	7.01	681.10	9.04	7.11	68.90	5.04	
10:05	3.4		7.03	681.10	8.94	6.96	69.60	6.98	
10:08	4.3		7.04	680.60	9.10	6.78	70.30	5.30	
10:11	5.2		7.05	680.30	9.12	6.57	71.10	3.96	
10:14	6.2		7.06	681.50	9.11	6.44	71.80	3.31	
10:17	7.1		7.07	681.00	8.82	6.31	72.70	3.08	
10:20	8.0		7.07	679.80	9.47	6.27	73.10	3.06	

Sampling Activities

Sampled By: TC Sample Date/Time: 2/21/2025 10:20

Sample Method: Low Flow Sample Equipment: Peristaltic Pump

Sample Parameters: 7.07 pH 679.80 Spec. Cond. 9.47 Temp

Field Filtered: Yes Filter Type: Inline Disposable

Water Level: 10.02 feet below TOC Drawdown: 3.13 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 210756

Form Completed By: Tracy Carroll **Date:** 2/21/2025

Field Data Sheet

Project Name: FGDS LF
Project Location: Springfield, IL
W.O. Number (s): 25020750
Monitoring Point: G110
Sample ID: 002
Date (s): 2/19/2025

Field Team Members

Name: Justin Colp — Affiliation: TekLab, Inc.
Name: Payton Yoch — Affiliation: TekLab, Inc.

Weather Conditions

Temp: 16 °F — Wind Direction: ☐ N ☑ S ☐ E ☐ EW ☐ SW ☐ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy — Sky: ☐ Clear ☐ Partly Cloudy ☑ Cloudy

Well Observations

Well Pad	Good
Casing	Good
Protective Casing	Good
Reference Mark/Identification	Yes

Locks	Yes	No
Protective Casing		X
Well		X

Groundwater Level Measurements

Date/Time Measured: 2/19/2025 13:10
Static Water Level: 24.40 feet below TOC
Total Depth: 57.15 feet below TOC
Water Column: 32.75 feet

Purging Activities

Purged By: JC — Purge Date: 2/19/2025
Purge Method: Peristaltic Pump — Well Diameter: 2"
Purge Volume Calculation (L): 32.75 ft. x 0.022 = 0.72 L x 3 Vol. = 2.16 L **Based on Low-Flow (3/8" discharge)*
Actual Purge Volume (L): 4.00 L
Physical appearance of purge water: Clear — Odor: None — Color: none

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
13:10	0.0	267	purge start time						
13:16	1.6	↓	6.81	695.30	11.06	1.69	-80.60	2.57	
13:19	2.4		6.81	694.80	11.20	1.54	-84.90	2.32	
13:22	3.2		6.80	694.80	11.05	1.41	-87.40	2.86	
13:25	4.0		6.80	693.10	11.20	1.33	-89.00	4.16	

Sampling Activities

Sampled By: JC — Sample Date/Time: 2/19/2025 13:25
Sample Method: Low Flow — Sample Equipment: Peristaltic Pump
Sample Parameters: 6.80 pH — 693.10 Spec. Cond. — 11.20 Temp
Field Filtered: Yes — Filter Type: Inline Disposable
Water Level: 24.48 feet below TOC — Drawdown: 0.08 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 50115

Form Completed By: Justin Colp — **Date:** 2/19/2025

Field Data Sheet

Project Name:	FGDS LF	**Monitoring Point:**	R111
Project Location:	Springfield, IL	**Sample ID:**	003
W.O. Number (s):	25020750	**Date (s):**	2/20/2025

Field Team Members

Name: Justin Colp — Affiliation: TekLab, Inc.

Name: Payton Yoch — Affiliation: TekLab, Inc.

Weather Conditions

Temp: 11 °F — Wind Direction: ☐ N ☑ S ☐ E ☐ EW ☐ SW ☐ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy — Sky: ☑ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

		Locks	Yes	No
Well Pad	Good			
Casing	Good	Protective Casing		X
Protective Casing	Good	Well		X
Reference Mark/Identification	Yes			

Groundwater Level Measurements

Date/Time Measured: 2/20/2025 11:26

Static Water Level: 25.04 feet below TOC

Total Depth: 55.75 feet below TOC

Water Column: 30.71 feet

Purging Activities

Purged By: JC — Purge Date: 2/20/2025

Purge Method: Peristaltic Pump — Well Diameter: 2"

Purge Volume Calculation (L): 30.71 ft. x 0.022 = 0.68 L x 3 Vol. = 2.04 L **Based on Low-Flow (3/8" discharge)*

Actual Purge Volume (L): 3.00 L

Physical appearance of purge water: Clear — Odor: None — Color: none

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
11:27	0.0	214	purge start time						
11:32	1.1	↓	6.94	851.90	8.56	1.64	-103.20	6.33	
11:35	1.7		6.92	806.60	8.51	1.39	-107.50	4.95	
11:38	2.4		6.89	895.30	8.40	1.29	-109.10	3.74	
11:41	3.0		6.86	1,087.10	8.21	1.23	-109.20	3.75	

Sampling Activities

Sampled By: JC — Sample Date/Time: 2/20/2025 11:41

Sample Method: Low Flow — Sample Equipment: Peristaltic Pump

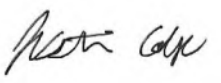
Sample Parameters: 6.86 pH — 1,087.10 Spec. Cond. — 8.21 Temp

Field Filtered: Yes — Filter Type: Inline Disposable

Water Level: 25.18 feet below TOC — Drawdown: 0.14 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 50115

Form Completed By:  **Date:** 2/20/2025

Field Data Sheet

Project Name:	FGDS LF	**Monitoring Point:**	G112
Project Location:	Springfield, IL	**Sample ID:**	004
W.O. Number (s):	25020750	**Date (s):**	2/20/2025

Field Team Members

Name: Justin Colp — Affiliation: TekLab, Inc.

Name: Payton Yoch — Affiliation: TekLab, Inc.

Weather Conditions

Temp: 17 °F — Wind Direction: ☐ N ☑ S ☐ E ☐ EW ☐ SW ☐ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy — Sky: ☑ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

		Locks	Yes	No
Well Pad	Good			
Casing	Good	Protective Casing		X
Protective Casing	Good	Well		X
Reference Mark/Identification	Yes			

Groundwater Level Measurements

Date/Time Measured: 2/20/2025 12:38

Static Water Level: 28.49 feet below TOC

Total Depth: 58.81 feet below TOC

Water Column: 30.32 feet

Purging Activities

Purged By: JC — Purge Date: 2/20/2025

Purge Method: Peristaltic Pump — Well Diameter: 2"

Purge Volume Calculation (L): 30.32 ft. x 0.022 = 0.67 L x 3 Vol. = 2.01 L **Based on Low-Flow (3/8" discharge)*

Actual Purge Volume (L): 3.00 L

Physical appearance of purge water: Clear — Odor: None — Color: none

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
12:40	0.0	200	purge start time						
12:46	1.2	↓	7.06	1,328.20	8.92	2.09	-120.20	4.12	
12:49	1.8		7.06	1,336.20	8.54	2.39	-124.20	3.97	
12:52	2.4		7.07	1,342.30	8.55	2.47	-124.60	4.26	
12:55	3.0		7.07	1,363.10	8.65	2.50	-123.60	3.81	

Sampling Activities

Sampled By: JC — Sample Date/Time: 2/20/2025 12:55

Sample Method: Low Flow — Sample Equipment: Peristaltic Pump

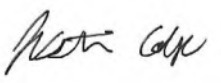
Sample Parameters: 7.07 pH — 1,363.10 Spec. Cond. — 8.65 Temp

Field Filtered: Yes — Filter Type: Inline Disposable

Water Level: 28.49 feet below TOC — Drawdown: 0.00 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 50115

Form Completed By:  **Date:** 2/20/2025

Field Data Sheet

Project Name:	FGDS LF	**Monitoring Point:**	G113
Project Location:	Springfield, IL	**Sample ID:**	005
W.O. Number (s):	25020750	**Date (s):**	2/21/2025

Field Team Members

Name: Justin Colp Affiliation: TekLab, Inc.

Name: Payton Yoch Affiliation: TekLab, Inc.

Weather Conditions

Temp: 15 °F Wind Direction: ☐ N ☐ S ☑ E ☐ EW ☐ SW ☐ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy Sky: ☑ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

Well Pad	Good
Casing	Good
Protective Casing	Good
Reference Mark/Identification	Yes

Locks	Yes	No
Protective Casing		X
Well		X

Groundwater Level Measurements

Date/Time Measured: 2/21/2025 9:11

Static Water Level: 5.01 feet below TOC

Total Depth: 12.85 feet below TOC

Water Column: 7.84 feet

Purging Activities

Purged By: JC Purge Date: 2/21/2025

Purge Method: Peristaltic Pump Well Diameter: 2"

Purge Volume Calculation (L): 7.84 ft. x 0.022 = 0.17 L x 3 Vol. = 0.51 L **Based on Low-Flow (3/8" discharge)*

Actual Purge Volume (L): 2.50 L

Physical appearance of purge water: Cloudy Odor: None Color: lt brown

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
9:27	0.0	167	purge start time						
9:30	0.5	↓	6.55	1,694.40	5.46	2.95	-105.30	84.13	
9:33	1.0		6.47	1,683.60	4.66	1.88	-96.90	82.59	
9:36	1.5		6.43	1,681.50	4.84	1.65	-98.10	59.92	
9:39	2.0		6.41	1,680.30	5.12	1.48	-100.40	59.73	
9:42	2.5		6.40	1,688.90	5.02	1.32	-102.50	68.40	

Sampling Activities

Sampled By: JC Sample Date/Time: 2/21/2025 9:42

Sample Method: Low Flow Sample Equipment: Peristaltic Pump

Sample Parameters: 6.40 pH 1,688.90 Spec. Cond. 5.02 Temp

Field Filtered: Yes Filter Type: Inline Disposable

Water Level: 7.45 feet below TOC Drawdown: 2.44 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 50115

Form Completed By: Justin Colp **Date:** 2/21/2025

Field Data Sheet

Project Name:	FGDS LF	**Monitoring Point:**	G120
Project Location:	Springfield, IL	**Sample ID:**	006
W.O. Number (s):	25020750	**Date (s):**	2/21/2025

Field Team Members

Name: Brett Gillihan Affiliation: TekLab, Inc.

Name: Danny Crump Affiliation: TekLab, Inc.

Weather Conditions

Temp: 15 °F Wind Direction: ☐ N ☐ S ☑ E ☐ EW ☐ SW ☐ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy Sky: ☑ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

Well Pad	Good
Casing	Good
Protective Casing	Good
Reference Mark/Identification	Yes

Locks	Yes	No
Protective Casing		X
Well		X

Groundwater Level Measurements

Date/Time Measured: 2/21/2025 9:15

Static Water Level: 15.89 feet below TOC

Total Depth: 50.37 feet below TOC

Water Column: 34.48 feet

Purging Activities

Purged By: BG Purge Date: 2/21/2025

Purge Method: Submersible Pump Well Diameter: 2"

Purge Volume Calculation (L): 34.48 ft. x 0.022 = 0.76 L x 3 Vol. = 2.28 L **Based on Low-Flow (3/8" discharge)*

Actual Purge Volume (L): 6.00 L

Physical appearance of purge water: Slightly cloudy Odor: Moderate Color: Clear

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
9:15	0.0	286	purge start time						
9:24	2.6	↓	6.68	1,927.00	11.01	3.56	-117.50	72.51	
9:27	3.4		6.66	1,924.20	13.36	2.96	-123.80	21.63	
9:30	4.3		6.66	1,923.00	13.29	2.61	-127.10	12.70	
9:33	5.1		6.66	1,921.80	13.29	2.37	-128.90	13.74	
9:36	6.0		6.66	1,914.80	13.23	2.20	-130.40	16.78	

Sampling Activities

Sampled By: BG Sample Date/Time: 2/21/2025 9:36

Sample Method: Low Flow Sample Equipment: Submersible Pump

Sample Parameters: 6.66 pH 1,914.80 Spec. Cond. 13.23 Temp

Field Filtered: Yes Filter Type: Inline Disposable

Water Level: 16.34 feet below TOC Drawdown: 0.45 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 210756

Form Completed By: Brett Gillihan **Date:** 2/21/2025

Field Data Sheet

Project Name:	FGDS LF	**Monitoring Point:**	G121
Project Location:	Springfield, IL	**Sample ID:**	007
W.O. Number (s):	25020750	**Date (s):**	2/20/2025

Field Team Members

Name: Brett Gillihan Affiliation: TekLab, Inc.

Name: Danny Crump Affiliation: TekLab, Inc.

Weather Conditions

Temp: 17 °F Wind Direction: ☐ N ☐ S ☐ E ☐ EW ☐ SW ☐ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy Sky: ☑ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

			Yes	No
Well Pad	Good	**Locks**		
Casing	Good	Protective Casing		X
Protective Casing	Good	Well		X
Reference Mark/Identification	Yes			

Groundwater Level Measurements

Date/Time Measured: 2/21/2025 13:01

Static Water Level: 28.25 feet below TOC

Total Depth: 58.56 feet below TOC

Water Column: 30.31 feet

Purging Activities

Purged By: BG Purge Date: 2/20/2025

Purge Method: Submersible Pump Well Diameter: 2"

Purge Volume Calculation (L): 30.31 ft. x 0.022 = 0.67 L x 3 Vol. = 2.01 L **Based on Low-Flow (3/8" discharge)*

Actual Purge Volume (L): 10.00 L

Physical appearance of purge water: Cloudy Odor: None Color: Clear

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
13:01	0.0	417	purge start time						
13:13	5.0	↓	6.95	1,563.90	12.00	3.36	-117.40	41.75	
13:16	6.3		6.95	1,579.30	12.12	2.80	-121.70	27.75	
13:19	7.5		6.95	1,565.20	12.25	2.47	-123.30	33.21	
13:22	8.8		6.95	1,564.30	12.48	2.19	-126.30	30.81	
13:25	10.0		6.95	1,565.50	12.64	1.97	-128.70	30.48	

Sampling Activities

Sampled By: BG Sample Date/Time: 2/20/2025 13:25

Sample Method: Low Flow Sample Equipment: Submersible Pump

Sample Parameters: 6.95 pH 1,565.50 Spec. Cond. 12.64 Temp

Field Filtered: Yes Filter Type: Inline Disposable

Water Level: 29.31 feet below TOC Drawdown: 1.06 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 210756

Form Completed By: Brett Gillihan **Date:** 2/20/2025

Field Data Sheet

Project Name: FGDS LF
Project Location: Springfield, IL
W.O. Number (s): 25020750
Monitoring Point: G122
Sample ID: 008
Date (s): 2/20/2025

Field Team Members

Name: Justin Colp Affiliation: TekLab, Inc.
Name: Payton Yoch Affiliation: TekLab, Inc.

Weather Conditions

Temp: 18 °F Wind Direction: ☐ N ☑ S ☐ E ☐ EW ☐ SW ☐ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy Sky: ☑ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

Well Pad	Good
Casing	Good
Protective Casing	Good
Reference Mark/Identification	Yes

Locks	Yes	No
Protective Casing		X
Well		X

Groundwater Level Measurements

Date/Time Measured: 2/20/2025 13:21
Static Water Level: 29.72 feet below TOC
Total Depth: 49.29 feet below TOC
Water Column: 19.57 feet

Purging Activities

Purged By: JC Purge Date: 2/20/2025
Purge Method: Peristaltic Pump Well Diameter: 2"
Purge Volume Calculation (L): 19.57 ft. x 0.022 = 0.43 L x 3 Vol. = 1.29 L **Based on Low-Flow (3/8" discharge)*
Actual Purge Volume (L): 4.00 L
Physical appearance of purge water: Slightly cloudy Odor: None Color: none

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
13:21	0.0	222	purge start time						
13:24	0.7	↓	6.95	1,403.30	11.69	3.44	-26.40	13.20	
13:27	1.3		6.84	1,426.70	10.26	2.18	-15.00	13.16	
13:30	2.0		6.80	1,417.30	10.09	1.92	-9.40	12.82	
13:33	2.7		6.78	1,421.70	10.05	1.78	-6.40	12.78	
13:36	3.3		6.76	1,419.90	10.15	1.56	-4.50	13.40	
13:39	4.0		6.75	1,424.40	10.11	1.48	-3.20	14.15	

Sampling Activities

Sampled By: JC Sample Date/Time: 2/20/2025 13:39
Sample Method: Low Flow Sample Equipment: Peristaltic Pump
Sample Parameters: 6.75 pH 1,424.40 Spec. Cond. 10.11 Temp
Field Filtered: Yes Filter Type: Inline Disposable
Water Level: 29.76 feet below TOC Drawdown: 0.04 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 50115

Form Completed By: Justin Colp **Date:** 2/20/2025

Field Data Sheet

Project Name: FGDS LF
Project Location: Springfield, IL
W.O. Number (s): 25020750
Monitoring Point: AW-1
Sample ID: 009
Date (s): 2/20/2025

Field Team Members

Name: Justin Colp — Affiliation: TekLab, Inc.
Name: Payton Yoch — Affiliation: TekLab, Inc.

Weather Conditions

Temp: 15 °F — Wind Direction: ☐ N ☑ S ☐ E ☐ EW ☐ SW ☐ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy — Sky: ☑ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

Well Pad	Good
Casing	Good
Protective Casing	Good
Reference Mark/Identification	Yes

Locks	Yes	No
Protective Casing		X
Well		X

Groundwater Level Measurements

Date/Time Measured: 2/20/2025 12:06
Static Water Level: 13.45 feet below TOC
Total Depth: 54.81 feet below TOC
Water Column: 41.36 feet

Purging Activities

Purged By: JC — Purge Date: 2/20/2025
Purge Method: Peristaltic Pump — Well Diameter: 2"
Purge Volume Calculation (L): 41.36 ft. x 0.022 = 0.91 L x 3 Vol. = 2.73 L **Based on Low-Flow (3/8" discharge)*
Actual Purge Volume (L): 3.00 L
Physical appearance of purge water: Clear — Odor: None — Color: none

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
12:07	0.0	214	purge start time						
12:15	1.7	↓	6.66	1,309.30	8.60	5.87	-75.60	9.62	
12:18	2.4		6.65	1,312.30	8.97	6.03	-77.20	8.26	
12:21	3.0		6.64	1,313.90	9.02	6.19	-78.20	8.45	

Sampling Activities

Sampled By: JC — Sample Date/Time: 2/20/2025 12:21
Sample Method: Low Flow — Sample Equipment: Peristaltic Pump
Sample Parameters: 6.64 pH — 1,313.90 Spec. Cond. — 9.02 Temp
Field Filtered: Yes — Filter Type: Inline Disposable
Water Level: 15.57 feet below TOC — Drawdown: 2.12 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 50115

Form Completed By: Justin Colp — **Date:** 2/20/2025

Field Data Sheet

Project Name:	FGDS LF	**Monitoring Point:**	AW-2
Project Location:	Springfield, IL	**Sample ID:**	010
W.O. Number (s):	25020750	**Date (s):**	2/20/2025

Field Team Members

Name: Justin Colp — Affiliation: TekLab, Inc.

Name: Payton Yoch — Affiliation: TekLab, Inc.

Weather Conditions

Temp: 6 °F — Wind Direction: ☐ N ☑ S ☐ E ☐ EW ☐ SW ☐ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy — Sky: ☑ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

Well Pad	Good
Casing	Good
Protective Casing	Good
Reference Mark/Identification	Yes

Locks	Yes	No
Protective Casing		X
Well		X

Groundwater Level Measurements

Date/Time Measured: 2/20/2025 9:42

Static Water Level: 4.53 feet below TOC

Total Depth: 32.64 feet below TOC

Water Column: 28.11 feet

Purging Activities

Purged By: JC — Purge Date: 2/20/2025

Purge Method: Peristaltic Pump — Well Diameter: 2"

Purge Volume Calculation (L): 28.11 ft. x 0.022 = 0.62 L x 3 Vol. = 1.86 L **Based on Low-Flow (3/8" discharge)*

Actual Purge Volume (L): 6.00 L

Physical appearance of purge water: Clear — Odor: None — Color: none

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
9:53	0.0	240	purge start time						
9:57	1.0	↓	7.08	771.10	5.54	2.16	47.20	37.34	
10:00	1.7		7.05	764.70	4.92	1.87	35.40	40.57	
10:03	2.4		7.05	763.70	5.38	1.63	18.90	30.93	
10:06	3.1		7.05	764.50	5.25	1.51	7.50	25.69	
10:09	3.8		7.05	765.40	5.92	1.38	4.20	26.14	
10:12	4.6		7.05	767.40	5.19	1.34	1.30	17.26	
10:15	5.3		7.05	766.70	5.52	1.29	0.40	13.58	
10:18	6.0		7.05	763.60	5.52	1.27	-0.10	17.95	

Sampling Activities

Sampled By: JC — Sample Date/Time: 2/20/2025 10:18

Sample Method: Low Flow — Sample Equipment: Peristaltic Pump

Sample Parameters: 7.05 pH — 763.60 Spec. Cond. — 5.52 Temp

Field Filtered: Yes — Filter Type: Inline Disposable

Water Level: 5.49 feet below TOC — Drawdown: 0.96 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 50115

Form Completed By: Justin Colp — **Date:** 2/20/2025

Field Data Sheet

Project Name:	FGDS LF	**Monitoring Point:**	RW-3
Project Location:	Springfield, IL	**Sample ID:**	011
W.O. Number (s):	25020750	**Date (s):**	2/18/2025

Field Team Members

Name: Justin Colp Affiliation: TekLab, Inc.

Name: Payton Yoch Affiliation: TekLab, Inc.

Weather Conditions

Temp: 8 °F Wind Direction: ☐ N ☑ S ☐ E ☐ EW ☐ SW ☐ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy Sky: ☐ Clear ☐ Partly Cloudy ☑ Cloudy

Well Observations

Well Pad	Good
Casing	Good
Protective Casing	Good
Reference Mark/Identification	No

Locks	Yes	No
Protective Casing		X
Well		X

Groundwater Level Measurements

Date/Time Measured: 2/18/2025 11:44

Static Water Level: 9.56 feet below TOC

Total Depth: 44.01 feet below TOC

Water Column: 34.45 feet

Purging Activities

Purged By: JC Purge Date: 2/18/2025

Purge Method: Bladder Pump Well Diameter: 2"

Purge Volume Calculation (L): 34.45 ft. x 0.022 = 0.76 L x 3 Vol. = 2.28 L **Based on Low-Flow (3/8" discharge)*

Actual Purge Volume (L): 5.00 L

Physical appearance of purge water: Slightly cloudy Odor: None Color: ltbrown

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
11:45	0.0	333	purge start time						
11:48	1.0	↓	7.08	616.30	11.66	1.23	-125.20	41.78	
11:51	2.0		7.08	629.50	11.89	0.70	-143.50	48.63	
11:54	3.0		7.09	631.70	11.94	0.58	-151.00	29.58	
11:57	4.0		7.10	629.70	11.94	0.54	-154.20	25.24	
12:00	5.0		7.10	622.80	11.96	0.54	-154.20	20.73	

Sampling Activities

Sampled By: JC Sample Date/Time: 2/18/2025 12:00

Sample Method: Low Flow Sample Equipment: Bladder Pump

Sample Parameters: 7.10 pH 622.80 Spec. Cond. 11.96 Temp

Field Filtered: Yes Filter Type: Inline Disposable

Water Level: 15.15 feet below TOC Drawdown: 5.59 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 50115

Form Completed By: Justin Colp **Date:** 2/18/2025

Field Data Sheet

Project Name:	FGDS LF	**Monitoring Point:**	P07D
Project Location:	Springfield, IL	**Sample ID:**	012
W.O. Number (s):	25020750	**Date (s):**	2/20/2025

Field Team Members

Name: Justin Colp Affiliation: TekLab, Inc.

Name: Payton Yoch Affiliation: TekLab, Inc.

Weather Conditions

Temp: 7 °F Wind Direction: ☐ N ☑ S ☐ E ☐ EW ☐ SW ☐ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy Sky: ☐ Clear ☐ Partly Cloudy ☑ Cloudy

Well Observations

			Yes	No
Well Pad	Good	**Locks**		
Casing	Good	Protective Casing		X
Protective Casing	Good	Well		X
Reference Mark/Identification	Yes			

Groundwater Level Measurements

Date/Time Measured: 2/20/2025 10:31

Static Water Level: 4.49 feet below TOC

Total Depth: 32.54 feet below TOC

Water Column: 28.05 feet

Purging Activities

Purged By: JC Purge Date: 2/20/2025

Purge Method: Peristaltic Pump Well Diameter: 2"

Purge Volume Calculation (L): 28.05 ft. x 0.022 = 0.62 L x 3 Vol. = 1.86 L **Based on Low-Flow (3/8" discharge)*

Actual Purge Volume (L): 7.00 L

Physical appearance of purge water: Slightly cloudy Odor: None Color: ltbrown

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
10:34	0.0	184	purge start time						
11:00	4.8	↓	6.77	1,251.80	8.06	1.22	-106.10	63.75	
11:03	5.3		6.78	1,248.00	7.78	1.21	-109.50	55.28	
11:06	5.9		6.77	1,250.70	7.60	1.08	-111.70	46.90	
11:09	6.4		6.77	1,251.50	8.27	1.01	-113.80	40.37	
11:12	7.0		6.78	1,252.30	8.21	0.99	-115.20	40.04	

Sampling Activities

Sampled By: JC Sample Date/Time: 2/20/2025 11:12

Sample Method: Low Flow Sample Equipment: Bladder Pump

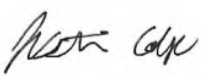
Sample Parameters: 7.10 pH 622.80 Spec. Cond. 11.96 Temp

Field Filtered: No Filter Type:

Water Level: 4.55 feet below TOC Drawdown: 0.06 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 50115

Form Completed By:  **Date:** 2/20/2025

Site Samping Event: FGDS Landfill
LIMS Workorder: 25020750
Technician(s): DC, JC, TC, BG, PY

Field Calibration Log(s)
CWLP- 1Q 2025

Field Temp SOP 1156 - SM 2550 B
Field pH SOP 1152 - SW-846 9040B - SM 4500-H B
Field Cond. SOP 1155 - SW-846 9050A - SM 2510 B

Field Meter ID: Pine 50115 Technician(s): justin colp Date: 2/18/2025

pH Standards	LIMS ID	Calibration reading	Date/Time
4.0 Buffer	wc230619c	4.00	2/18/25 9:30
7.0 Buffer	wc240913b	7.00	2/18/25 9:26
10.0 Buffer	wc240625b	10.00	2/18/25 9:34
LCS/CCV (7.0 Buffer)	wc240913c		

Conductivity Standard	LIMS ID	Reading	Date/Time
1,412 µS Std.	102040	1412	2/18/25 9:42

Turbidity Standard	LIMS ID	Reading	Date/Time
0 NTU (DI Water)	1	0.5	2/18/25 9:42
124 NTU	95834		

ORP Standard	LIMS ID/Lot#	Reading	Date/Time

D.O. Saturation	LIMS ID/Lot#	Reading	Date/Time
100%	N/A		

Sample ID	Sample Type	Date/Time	Temp. °C	pH S.U.	Conductivity µS	Turbidity NTU	ORP mV	D.O. %
LCS-1-JC	LCS	2/18/25 9:44	17.5	7.02	1,410	0.51		
CCV-1-JC	CCV	2/18/25 13:20	18.5	7.06	1,423	0.57		

Comments:

Field Meter ID: Pine 50115 Technician(s): justn colp Date: 2/19/2025

pH Standards	LIMS ID	Calibration reading	Date/Time
4.0 Buffer	wc230619c	4.00	2/19/25 10:31
7.0 Buffer	wc240913b	7.00	2/19/25 10:28
10.0 Buffer	wc240625b	10.00	2/19/25 10:36
LCS/CCV (7.0 Buffer)	wc240913c		

Conductivity Standard	LIMS ID	Reading	Date/Time
1,412 µS Std.	102040	1412	2/19/25 10:47

Turbidity Standard	LIMS ID	Reading	Date/Time
0 NTU (DI Water)	1	0.49	2/19/25 10:53
124 NTU	95834		

ORP Standard	LIMS ID/Lot#	Reading	Date/Time

D.O. Saturation	LIMS ID/Lot#	Reading	Date/Time
100%	N/A		

Sample ID	Sample Type	Date/Time	Temp. °C	pH S.U.	Conductivity µS	Turbidity NTU	ORP mV	D.O. %
LCS-2-JC	LCS	2/19/25 10:55	9.1	7.01	1,411	0.47		
CCV-2-JC	CCV	2/19/25 14:29	11.1	7.03	1,417	0.56		

Comments:

Site Samping Event: FGDS Landfill
LIMS Workorder: 25020750
Technician(s): DC, JC, TC, BG, PY

Field Calibration Log(s)
CWLP- 1Q 2025

Field Temp SOP 1156 - SM 2550 B
Field pH SOP 1152 - SW-846 9040B - SM 4500-H B
Field Cond. SOP 1155 - SW-846 9050A - SM 2510 B

Field Meter ID: Pine 50115 Technician(s): justin colp Date: 2/20/2025

pH Standards	LIMS ID	Calibration reading	Date/Time
4.0 Buffer	wc230619c	4.00	2/20/25 8:56
7.0 Buffer	wc240913b	7.00	2/20/25 8:51
10.0 Buffer	wc240625b	10.00	2/20/25 9:00
LCS/CCV (7.0 Buffer)	wc240913c		

Conductivity Standard	LIMS ID	Reading	Date/Time
1,412 µS Std.	102040	1412	2/20/25 9:06

Turbidity Standard	LIMS ID	Reading	Date/Time
0 NTU (DI Water)	1	0.5	2/20/25 9:06
124 NTU	95834		

ORP Standard	LIMS ID/Lot#	Reading	Date/Time

D.O. Saturation	LIMS ID/Lot#	Reading	Date/Time
100%	N/A		

Sample ID	Sample Type	Date/Time	Temp. °C	pH S.U.	Conductivity µS	Turbidity NTU	ORP mV	D.O. %
LCS-3-JC	LCS	2/20/25 9:08	9.3	6.99	1,415	0.5		
CCV-3-JC	CCV	2/20/25 13:42	10.4	7.02	1,426	0.54		

Comments:

Field Meter ID: Pine 50115 Technician(s): justin colp Date: 2/21/2025

pH Standards	LIMS ID	Calibration reading	Date/Time
4.0 Buffer	wc230619c	4.00	2/21/25 8:41
7.0 Buffer	wc240913b	7.00	2/21/25 8:37
10.0 Buffer	wc240625b	10.00	2/21/25 8:45
LCS/CCV (7.0 Buffer)	wc240913c		

Conductivity Standard	LIMS ID	Reading	Date/Time
1,412 µS Std.	102040	1412	2/21/25 8:53

Turbidity Standard	LIMS ID	Reading	Date/Time
0 NTU (DI Water)	1	0.6	2/21/25 8:53
124 NTU	95834		

ORP Standard	LIMS ID/Lot#	Reading	Date/Time

D.O. Saturation	LIMS ID/Lot#	Reading	Date/Time
100%	N/A		

Sample ID	Sample Type	Date/Time	Temp. °C	pH S.U.	Conductivity µS	Turbidity NTU	ORP mV	D.O. %
LCS-4-JC	LCS	2/21/25 8:55	9.4	7.02	1,413	0.62		
CCV-4-JC	CCV	2/21/25 10:30	9.7	7.02	1,418	0.61		

Comments:

Site Samping Event: FGDS Landfill
LIMS Workorder: 25020750
Technician(s): DC, JC, TC, BG, PY

Field Calibration Log(s)
CWLP- 1Q 2025

Field Temp SOP 1156 - SM 2550 B
Field pH SOP 1152 - SW-846 9040B - SM 4500-H B
Field Cond. SOP 1155 - SW-846 9050A - SM 2510 B

Field Meter ID: Pine 210756 Technician(s): Tracy Carroll Date: 2/19/2025

pH Standards	LIMS ID	Calibration reading	Date/Time
4.0 Buffer	WC230619C	4.01	2/19/25 11:14
7.0 Buffer	WC240913B	7.00	2/19/25 11:11
10.0 Buffer	WC240625B	10.00	2/19/25 11:19
LCS/CCV (7.0 Buffer)	WC240913C		

Conductivity Standard	LIMS ID	Reading	Date/Time
1,412 µS Std.	102040	1412	2/19/25 11:05

Turbidity Standard	LIMS ID	Reading	Date/Time
0 NTU (DI Water)	1		
124 NTU	95834		

ORP Standard	LIMS ID/Lot#	Reading	Date/Time

D.O. Saturation	LIMS ID/Lot#	Reading	Date/Time
100%	N/A		

Sample ID	Sample Type	Date/Time	Temp. °C	pH S.U.	Conductivity µS	Turbidity NTU	ORP mV	D.O. %
LCS-1-TC	LCS	2/19/25 11:21	0.3	7.06	1,413			
CCV-1-TC	CCV	2/19/25 14:27	13.7	7.08	1,321			

Comments:

Field Meter ID: Pine 210756 Technician(s): Tracy Carroll Date: 2/20/2025

pH Standards	LIMS ID	Calibration reading	Date/Time
4.0 Buffer	WC230619C	4.00	2/20/25 9:55
7.0 Buffer	WC240913B	7.00	2/20/25 9:49
10.0 Buffer	WC240625B	10.00	2/20/25 10:12
LCS/CCV (7.0 Buffer)	WC240913C		

Conductivity Standard	LIMS ID	Reading	Date/Time
1,412 µS Std.	102040	1412	2/20/25 10:13

Turbidity Standard	LIMS ID	Reading	Date/Time
0 NTU (DI Water)	1		
124 NTU	95834		

ORP Standard	LIMS ID/Lot#	Reading	Date/Time

D.O. Saturation	LIMS ID/Lot#	Reading	Date/Time
100%	N/A		

Sample ID	Sample Type	Date/Time	Temp. °C	pH S.U.	Conductivity µS	Turbidity NTU	ORP mV	D.O. %
LCS-2-TC	LCS	2/20/25 10:25	0.6	7.09	1,417			
CCV-2-TC	CCV	2/20/25 14:35	0.8	7.09	1,423			

Comments:

Site Samping Event: FGDS Landfill
LIMS Workorder: 25020750
Technician(s): DC, JC, TC, BG, PY

Field Calibration Log(s)
CWLP- 1Q 2025

Field Temp SOP 1156 - SM 2550 B
Field pH SOP 1152 - SW-846 9040B - SM 4500-H B
Field Cond. SOP 1155 - SW-846 9050A - SM 2510 B

Field Meter ID: Pine 210756 Technician(s): Tracy Carroll Date: 2/21/2025

pH Standards	LIMS ID	Calibration reading	Date/Time
4.0 Buffer	WC230619C	4.01	2/21/25 9:29
7.0 Buffer	WC240913B	7.00	2/21/25 9:21
10.0 Buffer	WC240625B	10.00	2/21/25 9:33
LCS/CCV (7.0 Buffer)	WC240913C		

Conductivity Standard	LIMS ID	Reading	Date/Time
1,412 µS Std.	102040	1412	2/21/25 9:41

Turbidity Standard	LIMS ID	Reading	Date/Time
0 NTU (DI Water)	1		
124 NTU	95834		

ORP Standard	LIMS ID/Lot#	Reading	Date/Time

D.O. Saturation	LIMS ID/Lot#	Reading	Date/Time
100%	N/A		

Sample ID	Sample Type	Date/Time	Temp. °C	pH S.U.	Conductivity µS	Turbidity NTU	ORP mV	D.O. %
LCS-3-TC	LCS	2/21/25 9:44	0.2	7.05	1,415			
CCV-3-TC	CCV	2/21/25 10:46	0.2	7.06	1,404			

Comments:

Alliance Technical Group - Akron
3310 Win St.
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Website: http://www.settek.com

March 31, 2025

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

RE: 25020750

Order No.: 25030052

Dear Shelly Hennessy:

Alliance Technical Group - Akron received 12 sample(s) on 2/27/2025 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

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Case Narrative

WO#: **25030052**
Date: **3/31/2025**

CLIENT: TEKLAB Inc,
Project: 25020750

WorkOrder Narrative:
25030052: 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 Alliance Technical Group Work Order Number assigned to this report.

Alliance Technical Group 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 Alliance Technical Group and that of the customer. It cannot be reproduced in any form without the consent of Alliance Technical Group 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. Alliance Technical Group 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 Sequence QC Notes:
LCS/LCSD-82663 Radium-228_DW(904.0): LCS/LCSD exhibited a high RPD, individually each LCS/LCSD meets the required criteria.

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Qualifiers and Acronyms

WO#: **25030052**
Date: **3/31/2025**

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.

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Workorder Sample Summary

WO#: **25030052**

31-Mar-25

CLIENT: TEKLAB Inc,
Project: 25020750

Lab SampleID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
25030052-001	25020750-001		2/21/2025 10:20:00 AM	2/27/2025 11:30:00 AM	Non-Potable Water
25030052-002	25020750-002		2/19/2025 1:25:00 PM	2/27/2025 11:30:00 AM	Non-Potable Water
25030052-003	25020750-003		2/20/2025 11:41:00 AM	2/27/2025 11:30:00 AM	Non-Potable Water
25030052-004	25020750-004		2/20/2025 12:55:00 PM	2/27/2025 11:30:00 AM	Non-Potable Water
25030052-005	25020750-005		2/21/2025 9:42:00 AM	2/27/2025 11:30:00 AM	Non-Potable Water
25030052-006	25020750-006		2/21/2025 9:36:00 AM	2/27/2025 11:30:00 AM	Non-Potable Water
25030052-007	25020750-007		2/20/2025 1:25:00 PM	2/27/2025 11:30:00 AM	Non-Potable Water
25030052-008	25020750-008		2/20/2025 1:39:00 PM	2/27/2025 11:30:00 AM	Non-Potable Water
25030052-009	25020750-009		2/20/2025 12:21:00 PM	2/27/2025 11:30:00 AM	Non-Potable Water
25030052-010	25020750-010		2/20/2025 10:18:00 AM	2/27/2025 11:30:00 AM	Non-Potable Water
25030052-011	25020750-011		2/18/2025 12:00:00 PM	2/27/2025 11:30:00 AM	Non-Potable Water
25030052-012	25020750-012		2/20/2025 11:12:00 AM	2/27/2025 11:30:00 AM	Non-Potable Water

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DATES REPORT

WO#: **25030052**

31-Mar-25

Client: TEKLAB Inc,

Project: 25020750

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
25030052-001A	25020750-001	2/21/2025 10:20:00 AM	Non-Potable Water	Radium-226 (EPA 903.0)		3/5/2025 10:47:15 AM	3/26/2025 9:39:00 AM
				Radium-228 (EPA 904.0)		3/5/2025 10:47:15 AM	3/25/2025 2:10:00 PM
25030052-002A	25020750-002	2/19/2025 1:25:00 PM		Radium-226 (EPA 903.0)		3/5/2025 10:47:15 AM	3/26/2025 9:39:00 AM
				Radium-228 (EPA 904.0)		3/5/2025 10:47:15 AM	3/25/2025 2:10:00 PM
25030052-003A	25020750-003	2/20/2025 11:41:00 AM		Radium-226 (EPA 903.0)		3/5/2025 10:47:15 AM	3/26/2025 9:39:00 AM
				Radium-228 (EPA 904.0)		3/5/2025 10:47:15 AM	3/25/2025 2:10:00 PM
25030052-004A	25020750-004	2/20/2025 12:55:00 PM		Radium-226 (EPA 903.0)		3/8/2025 1:30:00 PM	3/23/2025 1:04:00 PM
				Radium-228 (EPA 904.0)		3/8/2025 1:30:00 PM	3/21/2025 2:04:00 PM
25030052-005A	25020750-005	2/21/2025 9:42:00 AM		Radium-226 (EPA 903.0)		3/8/2025 1:30:00 PM	3/23/2025 1:04:00 PM
				Radium-228 (EPA 904.0)		3/8/2025 1:30:00 PM	3/21/2025 2:04:00 PM
25030052-006A	25020750-006	2/21/2025 9:36:00 AM		Radium-226 (EPA 903.0)		3/8/2025 1:30:00 PM	3/23/2025 1:04:00 PM
				Radium-228 (EPA 904.0)		3/8/2025 1:30:00 PM	3/21/2025 2:04:00 PM
25030052-007A	25020750-007	2/20/2025 1:25:00 PM		Radium-226 (EPA 903.0)		3/8/2025 1:30:00 PM	3/23/2025 1:04:00 PM
				Radium-228 (EPA 904.0)		3/8/2025 1:30:00 PM	3/21/2025 2:04:00 PM
25030052-008A	25020750-008	2/20/2025 1:39:00 PM		Radium-226 (EPA 903.0)		3/8/2025 1:30:00 PM	3/23/2025 1:04:00 PM
				Radium-228 (EPA 904.0)		3/8/2025 1:30:00 PM	3/21/2025 2:04:00 PM
25030052-009A	25020750-009	2/20/2025 12:21:00 PM		Radium-226 (EPA 903.0)		3/8/2025 1:30:00 PM	3/23/2025 1:04:00 PM
				Radium-228 (EPA 904.0)		3/8/2025 1:30:00 PM	3/21/2025 2:04:00 PM
25030052-010A	25020750-010	2/20/2025 10:18:00 AM		Radium-226 (EPA 903.0)		3/8/2025 1:30:00 PM	3/23/2025 1:04:00 PM
				Radium-228 (EPA 904.0)		3/8/2025 1:30:00 PM	3/21/2025 2:04:00 PM
25030052-011A	25020750-011	2/18/2025 12:00:00 PM		Radium-226 (EPA 903.0)		3/4/2025 11:20:02 AM	3/27/2025 10:25:00 AM
				Radium-228 (EPA 904.0)		3/4/2025 11:20:02 AM	3/26/2025 3:34:00 PM
25030052-012A	25020750-012	2/20/2025 11:12:00 AM		Radium-226 (EPA 903.0)		3/8/2025 1:30:00 PM	3/23/2025 1:04:00 PM

Original

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DATES REPORT

WO#: **25030052**

31-Mar-25

Client: TEKLAB Inc,

Project: 25020750

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
25030052-012A	25020750-012	2/20/2025 11:12:00 AM	Non-Potable Water	Radium-228 (EPA 904.0)		3/8/2025 1:30:00 PM	3/21/2025 2:04:00 PM

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Website: http://www.settek.com

Analytical Report

(consolidated)

WO#: **25030052**

Date Reported: **3/31/2025**

CLIENT: TEKLAB Inc,
Project: 25020750
Lab ID: 25030052-001
Client Sample ID: 25020750-001

Collection Date: 2/21/2025 10:20:00 AM
Matrix: NON-POTABLE WATER

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **HDJ**
Radium-226	ND	1.00		pCi/L	± 0.100	1	3/26/2025 9:39:00 AM
Yield	1.00					1	3/26/2025 9:39:00 AM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **HDJ**
Radium-228	ND	1.00		pCi/L	± 0.380	1	3/25/2025 2:10:00 PM
Yield	1.00					1	3/25/2025 2:10:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
R	RPD outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode
M	Manual Integration used to determine area response
PL	Permit Limit
RL	Reporting Detection Limit

Original

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Analytical Report

(consolidated)

WO#: **25030052**

Date Reported: **3/31/2025**

CLIENT: TEKLAB Inc,

Collection Date: 2/19/2025 1:25:00 PM

Project: 25020750

Lab ID: 25030052-002

Matrix: NON-POTABLE WATER

Client Sample ID: 25020750-002

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **HDJ**
Radium-226	ND	1.00		pCi/L	± 0.160	1	3/26/2025 9:39:00 AM
Yield	1.00					1	3/26/2025 9:39:00 AM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **HDJ**
Radium-228	ND	1.00		pCi/L	± 0.380	1	3/25/2025 2:10:00 PM
Yield	1.00					1	3/25/2025 2:10:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
R	RPD outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode
M	Manual Integration used to determine area response
PL	Permit Limit
RL	Reporting Detection Limit

Original

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Analytical Report

(consolidated)

WO#: **25030052**

Date Reported: **3/31/2025**

CLIENT: TEKLAB Inc,

Collection Date: 2/20/2025 11:41:00 AM

Project: 25020750

Lab ID: 25030052-003

Matrix: NON-POTABLE WATER

Client Sample ID: 25020750-003

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **HDJ**
Radium-226	ND	1.00		pCi/L	± 0.210	1	3/26/2025 9:39:00 AM
Yield	1.00					1	3/26/2025 9:39:00 AM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **HDJ**
Radium-228	ND	1.00		pCi/L	± 0.530	1	3/25/2025 2:10:00 PM
Yield	1.00					1	3/25/2025 2:10:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
R	RPD outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode
M	Manual Integration used to determine area response
PL	Permit Limit
RL	Reporting Detection Limit

Original

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Analytical Report

(consolidated)

WO#: **25030052**

Date Reported: **3/31/2025**

CLIENT: TEKLAB Inc,

Collection Date: 2/20/2025 12:55:00 PM

Project: 25020750

Lab ID: 25030052-004

Matrix: NON-POTABLE WATER

Client Sample ID: 25020750-004

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **HDJ**
Radium-226	ND	1.00		pCi/L	± 0.180	1	3/23/2025 1:04:00 PM
Yield	1.00					1	3/23/2025 1:04:00 PM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **HDJ**
Radium-228	ND	1.00		pCi/L	± 0.350	1	3/21/2025 2:04:00 PM
Yield	1.00					1	3/21/2025 2:04:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode		

Original

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Analytical Report

(consolidated)

WO#: **25030052**

Date Reported: **3/31/2025**

CLIENT: TEKLAB Inc,

Collection Date: 2/21/2025 9:42:00 AM

Project: 25020750

Lab ID: 25030052-005

Matrix: NON-POTABLE WATER

Client Sample ID: 25020750-005

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **HDJ**
Radium-226	ND	1.00		pCi/L	± 0.160	1	3/23/2025 1:04:00 PM
Yield	0.990					1	3/23/2025 1:04:00 PM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **HDJ**
Radium-228	ND	1.00		pCi/L	± 0.460	1	3/21/2025 2:04:00 PM
Yield	0.920					1	3/21/2025 2:04:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode		

Original

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Analytical Report

(consolidated)

WO#: **25030052**

Date Reported: **3/31/2025**

CLIENT: TEKLAB Inc,
Project: 25020750
Lab ID: 25030052-006
Client Sample ID: 25020750-006

Collection Date: 2/21/2025 9:36:00 AM
Matrix: NON-POTABLE WATER

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **HDJ**
Radium-226	2.75	1.00		pCi/L	± 0.360	1	3/23/2025 1:04:00 PM
Yield	1.00					1	3/23/2025 1:04:00 PM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **HDJ**
Radium-228	ND	1.00		pCi/L	± 0.470	1	3/21/2025 2:04:00 PM
Yield	1.00					1	3/21/2025 2:04:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode		

Original

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Analytical Report

(consolidated)

WO#: **25030052**

Date Reported: **3/31/2025**

CLIENT: TEKLAB Inc,

Collection Date: 2/20/2025 1:25:00 PM

Project: 25020750

Lab ID: 25030052-007

Matrix: NON-POTABLE WATER

Client Sample ID: 25020750-007

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **HDJ**
Radium-226	1.97	1.00		pCi/L	± 0.300	1	3/23/2025 1:04:00 PM
Yield	1.00					1	3/23/2025 1:04:00 PM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **HDJ**
Radium-228	ND	1.00		pCi/L	± 0.460	1	3/21/2025 2:04:00 PM
Yield	1.00					1	3/21/2025 2:04:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode		

Original

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Analytical Report

(consolidated)

WO#: **25030052**

Date Reported: **3/31/2025**

CLIENT: TEKLAB Inc,
Project: 25020750
Lab ID: 25030052-008
Client Sample ID: 25020750-008

Collection Date: 2/20/2025 1:39:00 PM
Matrix: NON-POTABLE WATER

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **HDJ**
Radium-226	ND	1.00		pCi/L	± 0.0800	1	3/23/2025 1:04:00 PM
Yield	1.00					1	3/23/2025 1:04:00 PM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **HDJ**
Radium-228	ND	1.00		pCi/L	± 0.280	1	3/21/2025 2:04:00 PM
Yield	1.00					1	3/21/2025 2:04:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
R	RPD outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode
M	Manual Integration used to determine area response
PL	Permit Limit
RL	Reporting Detection Limit

Original

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Analytical Report

(consolidated)

WO#: **25030052**

Date Reported: **3/31/2025**

CLIENT: TEKLAB Inc,
Project: 25020750
Lab ID: 25030052-009
Client Sample ID: 25020750-009

Collection Date: 2/20/2025 12:21:00 PM
Matrix: NON-POTABLE WATER

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **HDJ**
Radium-226	ND	1.00		pCi/L	± 0.200	1	3/23/2025 1:04:00 PM
Yield	1.00					1	3/23/2025 1:04:00 PM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **HDJ**
Radium-228	ND	1.00		pCi/L	± 0.500	1	3/21/2025 2:04:00 PM
Yield	1.00					1	3/21/2025 2:04:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
R	RPD outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode
M	Manual Integration used to determine area response
PL	Permit Limit
RL	Reporting Detection Limit

Original

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Analytical Report

(consolidated)

WO#: **25030052**

Date Reported: **3/31/2025**

CLIENT: TEKLAB Inc,

Collection Date: 2/20/2025 10:18:00 AM

Project: 25020750

Lab ID: 25030052-010

Matrix: NON-POTABLE WATER

Client Sample ID: 25020750-010

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **HDJ**
Radium-226	ND	1.00		pCi/L	± 0.110	1	3/23/2025 1:04:00 PM
Yield	1.00					1	3/23/2025 1:04:00 PM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **HDJ**
Radium-228	ND	1.00		pCi/L	± 0.290	1	3/21/2025 2:04:00 PM
Yield	1.00					1	3/21/2025 2:04:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
R	RPD outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode
M	Manual Integration used to determine area response
PL	Permit Limit
RL	Reporting Detection Limit

Original

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Analytical Report

(consolidated)

WO#: **25030052**

Date Reported: **3/31/2025**

CLIENT: TEKLAB Inc,
Project: 25020750
Lab ID: 25030052-011
Client Sample ID: 25020750-011

Collection Date: 2/18/2025 12:00:00 PM
Matrix: NON-POTABLE WATER

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **HDJ**
Radium-226	ND	1.30		pCi/L	± 0.110	1	3/27/2025 10:25:00 AM
Yield	1.00					1	3/27/2025 10:25:00 AM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **HDJ**
Radium-228	ND	1.30		pCi/L	± 0.440	1	3/26/2025 3:34:00 PM
Yield	0.780					1	3/26/2025 3:34:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
R	RPD outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode
M	Manual Integration used to determine area response
PL	Permit Limit
RL	Reporting Detection Limit

Original

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Analytical Report

(consolidated)

WO#: **25030052**

Date Reported: **3/31/2025**

CLIENT: TEKLAB Inc,
Collection Date: 2/20/2025 11:12:00 AM
Project: 25020750
Lab ID: 25030052-012
Matrix: NON-POTABLE WATER
Client Sample ID: 25020750-012

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **HDJ**
Radium-226	1.17	1.00		pCi/L	± 0.240	1	3/23/2025 1:04:00 PM
Yield	1.00					1	3/23/2025 1:04:00 PM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **HDJ**
Radium-228	1.32	1.00		pCi/L	± 0.500	1	3/21/2025 2:04:00 PM
Yield	1.00					1	3/21/2025 2:04:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
R	RPD outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode
M	Manual Integration used to determine area response
PL	Permit Limit
RL	Reporting Detection Limit

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QC SUMMARY REPORT

WO#: **25030052**

31-Mar-25

Client: TEKLAB Inc,
Project: 25020750 **BatchID:** **82663**

Sample ID: **MB-82663** SampType: **MBLK** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **3/4/2025** RunNo: **205809**
Client ID: **BatchQC** Batch ID: **82663** TestNo: **E904.0** **E903-904** Analysis Date: **3/26/2025** SeqNo: **5509486**

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-82663** SampType: **LCS** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **3/4/2025** RunNo: **205809**
Client ID: **BatchQC** Batch ID: **82663** TestNo: **E904.0** **E903-904** Analysis Date: **3/26/2025** SeqNo: **5509487**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	6.47	1.00	5.000	0	129	50	130				QLR
Yield	0.580			0	0						

Sample ID: **LCSD-82663** SampType: **LCSD** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **3/4/2025** RunNo: **205809**
Client ID: **BatchQC** Batch ID: **82663** TestNo: **E904.0** **E903-904** Analysis Date: **3/26/2025** SeqNo: **5509488**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	4.45	1.00	5.000	0	89.0	50	130	6.470	37.0	20	R
Yield	1.00			0	0			0.5800	53.2		

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode				

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QC SUMMARY REPORT

WO#: **25030052**

31-Mar-25

Client: TEKLAB Inc,
Project: 25020750 **BatchID:** **82663**

Sample ID: **25021873-001ADUP** SampType: **DUP** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **3/4/2025** RunNo: **205809**
Client ID: **BatchQC** Batch ID: **82663** TestNo: **E904.0** **E903-904** Analysis Date: **3/26/2025** SeqNo: **5509493**

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		

Sample ID: **25021875-001ADUP** SampType: **DUP** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **3/4/2025** RunNo: **205809**
Client ID: **BatchQC** Batch ID: **82663** TestNo: **E904.0** **E903-904** Analysis Date: **3/26/2025** SeqNo: **5509495**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	ND	1.00		0	0			1.260	200	20	R
Yield	1.00			0	0			1.000	0		

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode				

Original

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QC SUMMARY REPORT

WO#: **25030052**

31-Mar-25

Client: TEKLAB Inc,
Project: 25020750 **BatchID:** **82663**

Sample ID: **MB-82663**	SampType: **MBLK**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **3/4/2025**	RunNo: **205811**
Client ID: **BatchQC**	Batch ID: **82663**	TestNo: **E903.0**	**E903-904**	Analysis Date: **3/27/2025**	SeqNo: **5509528**

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-82663**	SampType: **LCS**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **3/4/2025**	RunNo: **205811**
Client ID: **BatchQC**	Batch ID: **82663**	TestNo: **E903.0**	**E903-904**	Analysis Date: **3/27/2025**	SeqNo: **5509529**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	3.65	1.00	5.000	0	73.0	70	130				QLR

Sample ID: **LCSD-82663**	SampType: **LCSD**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **3/4/2025**	RunNo: **205811**
Client ID: **BatchQC**	Batch ID: **82663**	TestNo: **E903.0**	**E903-904**	Analysis Date: **3/27/2025**	SeqNo: **5509530**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	4.97	1.00	5.000	0	99.4	70	130	3.650	30.6	20	R

Sample ID: **25021873-001ADUP**	SampType: **DUP**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **3/4/2025**	RunNo: **205811**
Client ID: **BatchQC**	Batch ID: **82663**	TestNo: **E903.0**	**E903-904**	Analysis Date: **3/27/2025**	SeqNo: **5509535**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode				

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QC SUMMARY REPORT

WO#: **25030052**

31-Mar-25

Client: TEKLAB Inc,
Project: 25020750 **BatchID:** **82663**

Sample ID: **25021873-001ADUP** SampType: **DUP** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **3/4/2025** RunNo: **205811**
Client ID: **BatchQC** Batch ID: **82663** TestNo: **E903.0** **E903-904** Analysis Date: **3/27/2025** SeqNo: **5509535**

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	

Sample ID: **25021875-001ADUP** SampType: **DUP** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **3/4/2025** RunNo: **205811**
Client ID: **BatchQC** Batch ID: **82663** TestNo: **E903.0** **E903-904** Analysis Date: **3/27/2025** SeqNo: **5509537**

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:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode				

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QC SUMMARY REPORT

WO#: **25030052**

31-Mar-25

Client: TEKLAB Inc,
Project: 25020750 **BatchID:** **82683**

Sample ID: **MB-82683**	SampType: **MBLK**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **3/5/2025**	RunNo: **205677**
Client ID: **BatchQC**	Batch ID: **82683**	TestNo: **E904.0**	**E903-904**	Analysis Date: **3/25/2025**	SeqNo: **5506861**

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-82683**	SampType: **LCS**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **3/5/2025**	RunNo: **205677**
Client ID: **BatchQC**	Batch ID: **82683**	TestNo: **E904.0**	**E903-904**	Analysis Date: **3/25/2025**	SeqNo: **5506862**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	3.54	1.00	5.000	0	70.8	50	130				
Yield	0.900			0	0						

Sample ID: **LCSD-82683**	SampType: **LCSD**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **3/5/2025**	RunNo: **205677**
Client ID: **BatchQC**	Batch ID: **82683**	TestNo: **E904.0**	**E903-904**	Analysis Date: **3/25/2025**	SeqNo: **5506863**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	3.35	1.00	5.000	0	67.0	50	130	3.540	5.52	20	
Yield	1.00			0	0			0.9000	10.5		

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode				

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QC SUMMARY REPORT

WO#: **25030052**

31-Mar-25

Client: TEKLAB Inc,
Project: 25020750 **BatchID:** **82683**

Sample ID: **25030002-001ADUP** SampType: **DUP** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **3/5/2025** RunNo: **205677**
Client ID: **BatchQC** Batch ID: **82683** TestNo: **E904.0** **E903-904** Analysis Date: **3/25/2025** SeqNo: **5506868**

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		

Sample ID: **25030004-001ADUP** SampType: **DUP** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **3/5/2025** RunNo: **205677**
Client ID: **BatchQC** Batch ID: **82683** TestNo: **E904.0** **E903-904** Analysis Date: **3/25/2025** SeqNo: **5506870**

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:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode				

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QC SUMMARY REPORT

WO#: **25030052**

31-Mar-25

Client: TEKLAB Inc,
Project: 25020750 **BatchID:** **82683**

Sample ID: **MB-82683**	SampType: **MBLK**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **3/5/2025**	RunNo: **205680**
Client ID: **BatchQC**	Batch ID: **82683**	TestNo: **E903.0**	**E903-904**	Analysis Date: **3/26/2025**	SeqNo: **5506940**

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-82683**	SampType: **LCS**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **3/5/2025**	RunNo: **205680**
Client ID: **BatchQC**	Batch ID: **82683**	TestNo: **E903.0**	**E903-904**	Analysis Date: **3/26/2025**	SeqNo: **5506941**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	4.48	1.00	5.000	0	89.6	70	130				

Sample ID: **LCSD-82683**	SampType: **LCSD**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **3/5/2025**	RunNo: **205680**
Client ID: **BatchQC**	Batch ID: **82683**	TestNo: **E903.0**	**E903-904**	Analysis Date: **3/26/2025**	SeqNo: **5506942**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	4.61	1.00	5.000	0	92.2	70	130	4.480	2.86	20	

Sample ID: **25030002-001ADUP**	SampType: **DUP**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **3/5/2025**	RunNo: **205680**
Client ID: **BatchQC**	Batch ID: **82683**	TestNo: **E903.0**	**E903-904**	Analysis Date: **3/26/2025**	SeqNo: **5506947**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode				

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QC SUMMARY REPORT

WO#: **25030052**

31-Mar-25

Client: TEKLAB Inc,
Project: 25020750 **BatchID:** **82683**

Sample ID: **25030002-001ADUP** SampType: **DUP** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **3/5/2025** RunNo: **205680**
Client ID: **BatchQC** Batch ID: **82683** TestNo: **E903.0** **E903-904** Analysis Date: **3/26/2025** SeqNo: **5506947**

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	

Sample ID: **25030004-001ADUP** SampType: **DUP** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **3/5/2025** RunNo: **205680**
Client ID: **BatchQC** Batch ID: **82683** TestNo: **E903.0** **E903-904** Analysis Date: **3/26/2025** SeqNo: **5506949**

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:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode				

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Website: http://www.settek.com

QC SUMMARY REPORT

WO#: **25030052**

31-Mar-25

Client: TEKLAB Inc,
Project: 25020750 **BatchID:** **82776**

Sample ID: **MB-82776**	SampType: **MBLK**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **3/8/2025**	RunNo: **205482**
Client ID: **BatchQC**	Batch ID: **82776**	TestNo: **E904.0**	**E903-904**	Analysis Date: **3/21/2025**	SeqNo: **5502453**

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-82776**	SampType: **LCS**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **3/8/2025**	RunNo: **205482**
Client ID: **BatchQC**	Batch ID: **82776**	TestNo: **E904.0**	**E903-904**	Analysis Date: **3/21/2025**	SeqNo: **5502454**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	3.46	1.00	5.000	0	69.2	50	130				
Yield	1.00			0	0						

Sample ID: **LCSD-82776**	SampType: **LCSD**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **3/8/2025**	RunNo: **205482**
Client ID: **BatchQC**	Batch ID: **82776**	TestNo: **E904.0**	**E903-904**	Analysis Date: **3/21/2025**	SeqNo: **5502455**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	4.00	1.00	5.000	0	80.0	50	130	3.460	14.5	20	
Yield	1.00			0	0			1.000	0		

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode				

Original

Alliance Technical Group - Akron
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

QC SUMMARY REPORT

WO#: **25030052**

31-Mar-25

Client: TEKLAB Inc,
Project: 25020750 **BatchID:** **82776**

Sample ID: **25030057-001ADUP** SampType: **DUP** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **3/8/2025** RunNo: **205482**
Client ID: **BatchQC** Batch ID: **82776** TestNo: **E904.0** **E903-904** Analysis Date: **3/21/2025** SeqNo: **5502474**

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		

Sample ID: **25030059-001ADUP** SampType: **DUP** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **3/8/2025** RunNo: **205482**
Client ID: **BatchQC** Batch ID: **82776** TestNo: **E904.0** **E903-904** Analysis Date: **3/21/2025** SeqNo: **5502476**

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:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode				

Original

Alliance Technical Group - Akron
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

QC SUMMARY REPORT

WO#: **25030052**

31-Mar-25

Client: TEKLAB Inc,
Project: 25020750 **BatchID:** **82776**

Sample ID: **MB-82776**	SampType: **MBLK**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **3/8/2025**	RunNo: **205492**
Client ID: **BatchQC**	Batch ID: **82776**	TestNo: **E903.0**	**E903-904**	Analysis Date: **3/23/2025**	SeqNo: **5502642**

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-82776**	SampType: **LCS**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **3/8/2025**	RunNo: **205492**
Client ID: **BatchQC**	Batch ID: **82776**	TestNo: **E903.0**	**E903-904**	Analysis Date: **3/23/2025**	SeqNo: **5502643**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	4.72	1.00	5.000	0	94.4	70	130				

Sample ID: **LCSD-82776**	SampType: **LCSD**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **3/8/2025**	RunNo: **205492**
Client ID: **BatchQC**	Batch ID: **82776**	TestNo: **E903.0**	**E903-904**	Analysis Date: **3/23/2025**	SeqNo: **5502644**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	5.29	1.00	5.000	0	106	70	130	4.720	11.4	20	

Sample ID: **25030057-001ADUP**	SampType: **DUP**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **3/8/2025**	RunNo: **205492**
Client ID: **BatchQC**	Batch ID: **82776**	TestNo: **E903.0**	**E903-904**	Analysis Date: **3/23/2025**	SeqNo: **5502658**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode				

Original

Alliance Technical Group - Akron
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

QC SUMMARY REPORT

WO#: **25030052**

31-Mar-25

Client: TEKLAB Inc,
Project: 25020750 **BatchID:** **82776**

Sample ID: **25030057-001ADUP** SampType: **DUP** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **3/8/2025** RunNo: **205492**
Client ID: **BatchQC** Batch ID: **82776** TestNo: **E903.0** **E903-904** Analysis Date: **3/23/2025** SeqNo: **5502658**

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
Yield	1.00							1.000	0	0	

Sample ID: **25030059-001ADUP** SampType: **DUP** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **3/8/2025** RunNo: **205492**
Client ID: **BatchQC** Batch ID: **82776** TestNo: **E903.0** **E903-904** Analysis Date: **3/23/2025** SeqNo: **5502660**

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:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode				

Original

TEKLAB, INC. Chain of Custody

25030052

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

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: Client | QC Level: 2

Comments: **Please Issue reports and invoices via email only**
Please analyze for Radium 226/228 per your usual methods.
Any changes to analysis/methods must be approved by Teklab, Inc. Batch QC is required.
Samples collected from an IL site.

Project# 25020750

Contact: Shelly Hennessy | Email: shennessy@TekLabInc.com
Requested Due Date: Standard TAT | Billing/PO: 38001 | Phone: (618) 344-1004 ext. 36

Report data from 25020749-001

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.

Lab Use	Sample ID	Sample Date/Time	Preservative	Matrix	Radium 226/228												
	25020750-001	2/21/25 1020	HNO3	Groundwater	✔	pH	1	CPM	28								
	25020750-002	2/19/25 1325	HNO3	Groundwater	✔		1		23								
	25020750-003	2/20/25 1141	HNO3	Groundwater	✔		1		52								
	25020750-004	2/20/25 1255	HNO3	Groundwater	✔		1		46								
	25020750-005	2/21/25 0942	HNO3	Groundwater	✔		1		30								
	25020750-006	2/21/25 ~~935~~ 0936	HNO3	Groundwater	✔		1		33								
	25020750-007	2/20/25 1325	HNO3	Groundwater	✔		1		38								
	25020750-008	2/20/25 1339	HNO3	Groundwater	✔		1		22								
	25020750-009	2/20/25 1221	HNO3	Groundwater	✔		1		28								
	25020750-010	2/20/25 1018	HNO3	Groundwater	✔		1		30								
	25020750-011	2/18/25 1200	HNO3	Groundwater	✔												

18.8-0.6 = 18.8 cs intact 02/25 - Fedex Box/cooler

*Relinquished By	Date/Time	Received By	Date/Time
[signature]		[signature]	02/27/25 1130

TEKLAB, INC. Chain of Custody

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

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: Client | QC Level: 2

Comments: **Please Issue reports and invoices via email only**
Please analyze for Radium 226/228 per your usual methods.
Any changes to analysis/methods must be approved by Teklab, Inc. Batch QC is required.
Samples collected from an IL site.

Project# 25020750

Contact: Shelly Hennessy | Email: shennessy@TekLabInc.com
Requested Due Date: Standard TAT | Billing/PO: 38001 | Phone: (618) 344-1004 ext.

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.

Lab Use	Sample ID	Sample Date/Time	Preservative	Matrix	Radium 226/228												
	25020750-012	2/20/25 1112	HNO3	Groundwater	✔	pH 1	CPM 52										
			Other	Aqueous													
			Other	Aqueous													
			Other	Aqueous													
			Other	Aqueous													
			Other	Aqueous													
			Other	Aqueous													
			Other	Aqueous													
			Other	Aqueous													
			Other	Aqueous													
			Other	Aqueous													

18.8-0.9=18.8, CS intact 02/25 - Fedex Box/cooler

*Relinquished By	Date/Time	Received By	Date/Time
[illegible]		[signature]	02/27/25 1130

Alliance Technical Group - Akron
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

Sample Log-In Check List

Client Name: TEK-IL-62234-A Work Order Number: 25030052 RcptNo: 1

Logged by:	Anthony W. Britton	2/27/2025 11:30:00 AM	Anthony Britton
Completed By:	Tegan A. Richards	3/1/2025 6:16:55 PM	Tegan Richards
Reviewed By:	Jennifer Woolf	3/3/2025 11:03:50 AM	Jennifer Woolf

Chain of Custody

1. Is Chain of Custody complete? Yes ☑ No ☐ Not Present ☐
2. How was the sample delivered? FedEx

Log In

3. Coolers are present? Yes ☑ No ☐ NA ☐
4. Shipping container/cooler in good condition? Yes ☑ No ☐
   Custody seals intact on shipping container/cooler? Yes ☑ No ☐ Not Present ☐
   No. Seal Date: 2/25/2025 Signed By:
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? Yes ☑ No ☐
    (Note discrepancies on chain of custody)
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? Yes ☑ No ☐
    (If no, notify customer for authorization.)

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:

Relinquish time & dare not included

Cooler Information

Cooler No	Temp ºC	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	18.8	Good	Yes		2/25/2025	

April 22, 2025

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
Illinois	1004652024-2
Kansas	E-10374
Louisiana	05002
Louisiana	05003
Oklahoma	9978

RE: FGDS Landfill **WorkOrder:** 25030753

Dear Eric Staley:

TEKLAB, INC received 9 samples on 3/18/2025 3:05:00 PM 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

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

Report Contents

Client: City Water, Light & Power
Work Order: 25030753
Client Project: FGDS Landfill
Report Date: 22-Apr-25

This reporting package includes the following:

Cover Letter	1
Report Contents	2
Definitions	3
Case Narrative	5
Accreditations	6
Laboratory Results	7
Receiving Check List	16
Chain of Custody	Appended

Client: City Water, Light & Power **Work Order:** 25030753

Client Project: FGDS Landfill **Report Date:** 22-Apr-25

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: 25030753
Client Project: FGDS Landfill
Report Date: 22-Apr-25

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: 25030753
Client Project: FGDS Landfill
Report Date: 22-Apr-25

Cooler Receipt Temp: 13.7 °C

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

Radium 226/228 analysis was performed by Alliance Technical Group. 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

Springfield

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

Kansas City

Address 8421 Nieman Road
Lenexa, KS 66214
Phone (913) 541-1998
Fax (913) 541-1998
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

Chicago

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

Client: City Water, Light & Power

Work Order: 25030753

Client Project: FGDS Landfill

Report Date: 22-Apr-25

State	Dept	Cert #	NELAP	Exp Date	Lab
Illinois	IEPA	100226	NELAP	1/31/2026	Collinsville
Illinois	IEPA	1004652024-2	NELAP	4/30/2026	Collinsville
Kansas	KDHE	E-10374	NELAP	4/30/2026	Collinsville
Louisiana	LDEQ	05002	NELAP	6/30/2025	Collinsville
Louisiana	LDEQ	05003	NELAP	6/30/2025	Collinsville
Oklahoma	ODEQ	9978	NELAP	8/31/2025	Collinsville
Arkansas	ADEQ	88-0966		3/14/2026	Collinsville
Illinois	IDPH	17584		5/31/2025	Collinsville
Iowa	IDNR	430		6/1/2026	Collinsville
Kentucky	KWLCP	KY98050		12/31/2025	Collinsville
Kentucky	KWLCP	KY98006		12/31/2025	Collinsville
Kentucky	UST	0073		1/31/2026	Collinsville
Mississippi	MSDH			4/30/2025	Collinsville
Missouri	MDNR	930		1/31/2028	Collinsville
Missouri	MDNR	00930		10/31/2026	Collinsville

Client: City Water, Light & Power **Work Order:** 25030753

Client Project: FGDS Landfill **Report Date:** 22-Apr-25

Lab ID: 25030753-005 **Client Sample ID:** R101

Matrix: GROUNDWATER **Collection Date:** 03/18/2025 13:03

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**511.53**	ft	1	03/18/2025 13:03	R362264
Depth to water	*	-5.00		**1.73**	ft	1	03/18/2025 13:03	R362264
Depth to water from measuring point	*	0		**4.53**	ft	1	03/18/2025 13:03	R362264
Elevation of groundwater surface	*	0		**542.27**	ft	1	03/18/2025 13:03	R362264
Measuring Point Elevation	*	0		**546.80**	ft	1	03/18/2025 13:03	R362264
Measuring Point Height Above Land Surface	*	0		**2.80**	ft	1	03/18/2025 13:03	R362264
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**28**	NTU	1	03/18/2025 13:03	R362264
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**56.1**	°F	1	03/18/2025 13:03	R362264
SW-846 9040B								
pH, Field	*	1.00		**7.03**		1	03/18/2025 13:03	R362264
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**2090**	µmhos/cm @25C	1	03/18/2025 13:03	R362264
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	20		**888**	mg/L	1	03/19/2025 13:53	R362089
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	03/19/2025 10:15	R362092
Chloride	NELAP	5.00		**101**	mg/L	10	03/19/2025 10:15	R362092
Sulfate	NELAP	10.0		**263**	mg/L	10	03/19/2025 10:15	R362092
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.0254**	mg/L	1	03/21/2025 16:42	236195
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	03/20/2025 15:41	236195
Boron	NELAP	0.0200		**0.134**	mg/L	1	03/21/2025 16:42	236195
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	03/20/2025 15:41	236195
Calcium	NELAP	0.100		**166**	mg/L	1	03/21/2025 16:42	236195
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	03/20/2025 15:41	236195
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	03/20/2025 15:41	236195
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	03/20/2025 15:41	236195
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	03/20/2025 15:41	236195
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	03/21/2025 14:53	236195
Arsenic	NELAP	0.0010		**< 0.0010**	mg/L	5	03/21/2025 14:53	236195
Lithium	*	0.0030		**0.0150**	mg/L	5	03/21/2025 14:53	236195
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	03/21/2025 14:53	236195
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	03/21/2025 14:53	236195
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	03/19/2025 16:42	236206
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	04/18/2025 0:00	R363684
Radium-228	*	0		**See Attached**	pci/L	1	04/18/2025 0:00	R363684

Client: City Water, Light & Power **Work Order:** 25030753

Client Project: FGDS Landfill **Report Date:** 22-Apr-25

Lab ID: 25030753-006 **Client Sample ID:** P07D

Matrix: GROUNDWATER **Collection Date:** 03/18/2025 11:39

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**528.25**	ft	1	03/18/2025 11:39	R362264
Depth to water	*	-5.00		**1.18**	ft	1	03/18/2025 11:39	R362264
Depth to water from measuring point	*	0		**4.18**	ft	1	03/18/2025 11:39	R362264
Elevation of groundwater surface	*	0		**524.07**	ft	1	03/18/2025 11:39	R362264
Measuring Point Elevation	*	0		**528.25**	ft	1	03/18/2025 11:39	R362264
Measuring Point Height Above Land Surface	*	0		**3.00**	ft	1	03/18/2025 11:39	R362264
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**20**	NTU	1	03/18/2025 11:39	R362264
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**55.4**	°F	1	03/18/2025 11:39	R362264
SW-846 9040B								
pH, Field	*	1.00		**6.84**		1	03/18/2025 11:39	R362264
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**2340**	µmhos/cm @25C	1	03/18/2025 11:39	R362264
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	50		**990**	mg/L	2.5	03/19/2025 13:52	R362089
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	03/19/2025 10:50	R362092
Chloride	NELAP	5.00		**31.7**	mg/L	10	03/19/2025 10:50	R362092
Sulfate	NELAP	10.0		**298**	mg/L	10	03/19/2025 10:50	R362092
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.943**	mg/L	1	03/21/2025 16:43	236195
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	03/20/2025 15:41	236195
Boron	NELAP	0.0200		**5.65**	mg/L	1	03/21/2025 16:43	236195
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	03/20/2025 15:41	236195
Calcium	NELAP	0.100		**195**	mg/L	1	03/21/2025 16:43	236195
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	03/20/2025 15:41	236195
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	03/20/2025 15:41	236195
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	03/20/2025 15:41	236195
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	03/20/2025 15:41	236195
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	03/21/2025 15:38	236195
Arsenic	NELAP	0.0010		**0.0292**	mg/L	5	03/21/2025 15:38	236195
Lithium	*	0.0030		**0.0081**	mg/L	5	03/24/2025 11:34	236195
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	03/21/2025 15:38	236195
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	03/21/2025 15:38	236195
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	03/19/2025 16:45	236206
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	04/18/2025 0:00	R363684
Radium-228	*	0		**See Attached**	pci/L	1	04/18/2025 0:00	R363684

Client: City Water, Light & Power **Work Order:** 25030753

Client Project: FGDS Landfill **Report Date:** 22-Apr-25

Lab ID: 25030753-007 **Client Sample ID:** AW-2

Matrix: GROUNDWATER **Collection Date:** 03/18/2025 11:14

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**497.34**	ft	1	03/18/2025 11:14	R362264
Depth to water	*	-5.00		**-0.31**	ft	1	03/18/2025 11:14	R362264
Depth to water from measuring point	*	0		**2.99**	ft	1	03/18/2025 11:14	R362264
Elevation of groundwater surface	*	0		**526.99**	ft	1	03/18/2025 11:14	R362264
Measuring Point Elevation	*	0		**529.98**	ft	1	03/18/2025 11:14	R362264
Measuring Point Height Above Land Surface	*	0		**3.30**	ft	1	03/18/2025 11:14	R362264
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**12**	NTU	1	03/18/2025 11:14	R362264
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**55.1**	°F	1	03/18/2025 11:14	R362264
SW-846 9040B								
pH, Field	*	1.00		**7.01**		1	03/18/2025 11:14	R362264
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1740**	µmhos/cm @25C	1	03/18/2025 11:14	R362264
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	20		**632**	mg/L	1	03/19/2025 13:52	R362089
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	03/19/2025 11:01	R362092
Chloride	NELAP	5.00		**21.2**	mg/L	10	03/19/2025 11:01	R362092
Sulfate	NELAP	10.0		**66.1**	mg/L	10	03/19/2025 11:01	R362092
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.316**	mg/L	1	03/21/2025 16:44	236195
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	03/20/2025 15:42	236195
Boron	NELAP	0.0200		**1.90**	mg/L	1	03/21/2025 16:44	236195
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	03/20/2025 15:42	236195
Calcium	NELAP	0.100		**128**	mg/L	1	03/21/2025 16:44	236195
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	03/20/2025 15:42	236195
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	03/20/2025 15:42	236195
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	03/20/2025 15:42	236195
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	03/20/2025 15:42	236195
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	03/21/2025 15:44	236195
Arsenic	NELAP	0.0010		**0.0012**	mg/L	5	03/21/2025 15:44	236195
Lithium	*	0.0030		**0.0053**	mg/L	5	03/24/2025 11:41	236195
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	03/21/2025 15:44	236195
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	03/21/2025 15:44	236195
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	03/19/2025 16:47	236206
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	04/18/2025 0:00	R363684
Radium-228	*	0		**See Attached**	pci/L	1	04/18/2025 0:00	R363684

Client: City Water, Light & Power **Work Order:** 25030753

Client Project: FGDS Landfill **Report Date:** 22-Apr-25

Lab ID: 25030753-008 **Client Sample ID:** G121

Matrix: GROUNDWATER **Collection Date:** 03/18/2025 13:31

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**497.04**	ft	1	03/18/2025 13:31	R362264
Depth to water	*	-5.00		**25.56**	ft	1	03/18/2025 13:31	R362264
Depth to water from measuring point	*	0		**27.43**	ft	1	03/18/2025 13:31	R362264
Elevation of groundwater surface	*	0		**528.17**	ft	1	03/18/2025 13:31	R362264
Measuring Point Elevation	*	0		**555.60**	ft	1	03/18/2025 13:31	R362264
Measuring Point Height Above Land Surface	*	0		**1.87**	ft	1	03/18/2025 13:31	R362264
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**11**	NTU	1	03/18/2025 13:31	R362264
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**58.8**	°F	1	03/18/2025 13:31	R362264
SW-846 9040B								
pH, Field	*	1.00		**7.00**		1	03/18/2025 13:31	R362264
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**2320**	µmhos/cm @25C	1	03/18/2025 13:31	R362264
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	20		**1710**	mg/L	1	03/19/2025 13:52	R362089
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	03/19/2025 11:13	R362092
Chloride	NELAP	5.00		**28.8**	mg/L	10	03/19/2025 11:13	R362092
Sulfate	NELAP	10.0		**281**	mg/L	10	03/19/2025 11:13	R362092
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.274**	mg/L	1	03/21/2025 16:44	236195
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	03/20/2025 15:43	236195
Boron	NELAP	0.0200		**3.05**	mg/L	1	03/21/2025 16:44	236195
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	03/20/2025 15:43	236195
Calcium	NELAP	0.100		**186**	mg/L	1	03/21/2025 16:44	236195
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	03/20/2025 15:43	236195
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	03/20/2025 15:43	236195
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	03/20/2025 15:43	236195
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	03/20/2025 15:43	236195
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	03/21/2025 15:49	236195
Arsenic	NELAP	0.0010		**< 0.0010**	mg/L	5	03/21/2025 15:49	236195
Lithium	*	0.0030		**0.0073**	mg/L	5	03/24/2025 11:47	236195
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	03/24/2025 11:47	236195
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	03/21/2025 15:49	236195
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	03/19/2025 16:49	236206
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	04/18/2025 0:00	R363684
Radium-228	*	0		**See Attached**	pci/L	1	04/18/2025 0:00	R363684

Client: City Water, Light & Power **Work Order:** 25030753

Client Project: FGDS Landfill **Report Date:** 22-Apr-25

Lab ID: 25030753-009 **Client Sample ID:** G122

Matrix: GROUNDWATER **Collection Date:** 03/18/2025 10:45

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**505.11**	ft	1	03/18/2025 10:45	R362264
Depth to water	*	-5.00		**27.45**	ft	1	03/18/2025 10:45	R362264
Depth to water from measuring point	*	0		**29.19**	ft	1	03/18/2025 10:45	R362264
Elevation of groundwater surface	*	0		**525.21**	ft	1	03/18/2025 10:45	R362264
Measuring Point Elevation	*	0		**554.40**	ft	1	03/18/2025 10:45	R362264
Measuring Point Height Above Land Surface	*	0		**1.74**	ft	1	03/18/2025 10:45	R362264
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**6.9**	NTU	1	03/18/2025 10:45	R362264
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**56.9**	°F	1	03/18/2025 10:45	R362264
SW-846 9040B								
pH, Field	*	1.00		**6.76**		1	03/18/2025 10:45	R362264
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**2750**	µmhos/cm @25C	1	03/18/2025 10:45	R362264
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	50		**2000**	mg/L	2.5	03/19/2025 13:52	R362089
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	03/19/2025 11:25	R362092
Chloride	NELAP	5.00		**34.5**	mg/L	10	03/19/2025 11:25	R362092
Sulfate	NELAP	10.0		**499**	mg/L	10	03/19/2025 11:25	R362092
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.524**	mg/L	1	03/21/2025 16:45	236195
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	03/20/2025 15:54	236195
Boron	NELAP	0.0200		**10.9**	mg/L	1	03/21/2025 16:45	236195
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	03/20/2025 15:54	236195
Calcium	NELAP	0.100		**250**	mg/L	1	03/21/2025 16:45	236195
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	03/20/2025 15:54	236195
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	03/20/2025 15:54	236195
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	03/20/2025 15:54	236195
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	03/20/2025 15:54	236195
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	03/21/2025 15:55	236195
Arsenic	NELAP	0.0010		**0.0016**	mg/L	5	03/21/2025 15:55	236195
Lithium	*	0.0030		**0.0070**	mg/L	5	03/24/2025 11:53	236195
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	03/24/2025 11:53	236195
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	03/21/2025 15:55	236195
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	03/19/2025 17:01	236206
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	04/18/2025 0:00	R363684
Radium-228	*	0		**See Attached**	pci/L	1	04/18/2025 0:00	R363684

Receiving Check List

http://www.teklabinc.com/

Client: City Water, Light & Power
Client Project: FGDS Landfill

Work Order: 25030753
Report Date: 22-Apr-25

Carrier: Daniel Crump

Received By: JMD

Completed by: Laura E Henson
On: 18-Mar-25

Reviewed by: Elizabeth A. Hurley
On: 18-Mar-25

Pages to follow: Chain of custody 1 Extra pages included 16

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐	Temp °C 13.7
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 #101358. - JD/lhenson - 3/18/2025 3:58:02 PM

Additional nitric acid (102194) was needed in G122 upon arrival at the laboratory. - JD/lhenson - 3/18/2025 3:58:18 PM

Drop off Location
☐ Downers Grove, IL ☐ Lenexa, KS
☐ Springfield, IL ☒ Collinsville, IL

CHAIN OF CUSTODY

pg. 1 of 1 Work order # 25030753

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

Client:	City Water, Light & Power		
Address:	3100 Stevenson Drive		
City / State / Zip	Springfield, IL 62712		
Contact:	Eric Staley	**Phone:**	(217) 757-8610
E-Mail:	eric.staley@cwlp.com	**Fax:**	

Samples on: ☒ ICE ☐ BLUE ICE ☐ NO ICE 13.7 °C LTG# 9

Preserved in: ☒ LAB ☐ FIELD

FOR LAB USE ONLY

Lab Notes: pH 101358 Added HNO3 (102194) 2/2 G122 IL SD 3/18/25

Are these samples known to be involved in litigation? If yes, a surcharge will apply ☐ Yes ☒ No

Are these samples known to be hazardous? If yes, include details of the hazard. ☐ 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 On file

Client Comments Report QC LVL:___

*Elevations, pH, conductivity, temperature

**Sb As Se Li Tl (ICPMS) Ba Be B Cd Ca Cr Co Pb Mo Hg

Project Name/Number: FGDS Landfill

Sample Collector's Name: Brett Gillihan

Results Requested (call for PFAS TAT and surcharges)
☒ Standard ☐ 1-2 Day (100% Surcharge)
☐ Date ____ ☐ 3 Day (50% Surcharge)

Billing/PO#

Lab Use Only	Sample Identification	Date/Time Sampled	# and Type of Containers: UNP	HNO3	MATRIX: Groundwater	As (T)-ICPMS	Cl SO4 TDS F (T)	Field parameters*	Field Turbidity	Metals (T)**	Radium-226/228
25030753 001	R111	3/18/25 1031		1	X	X					
002	G112	1107		1	X	X					
003	G120	1317		1	X	X					
004	P06D	1145		1	X	X					
005	R101	3-18-25 1303	1	3	X		X	X	X	X	X
006	P07D	1139	1	3	X		X	X	X	X	X
007	AW-2	1114	1	3	X		X	X	X	X	X
008	G121	1331	1	3	X		X	X	X	X	X
009	G122	1045	1	3	X		X	X	X	X	X

Relinquished By	Date/Time	Received By	Date/Time
	3-18 / 1505		3/18/25 15:05

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.

BottleOrder: 98070

Alliance Technical Group - Akron
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

April 22, 2025

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

RE: 25030753

Order No.: 25031749

Dear Shelly Hennessy:

Alliance Technical Group - Akron received 5 sample(s) on 3/21/2025 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,

Salwa Najjar

Project Manager

3310 Win St.
Cuyahoga Falls, Ohio 44223

Alliance Technical Group - Akron
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

Case Narrative

WO#: **25031749**
Date: **4/22/2025**

CLIENT: TEKLAB Inc,
Project: 25030753

WorkOrder Narrative:
25031749: 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 Alliance Technical Group Work Order Number assigned to this report.

Alliance Technical Group 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 results contained in this report are only representative of the samples received. Conditions can vary at different times and at different sampling conditions. Alliance Technical Group 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.

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Qualifiers and Acronyms

WO#: **25031749**
Date: **4/22/2025**

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.

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Workorder Sample Summary

WO#: **25031749**

22-Apr-25

CLIENT: TEKLAB Inc,
Project: 25030753

Lab SampleID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
25031749-001	25030753-005		3/18/2025 1:03:00 PM	3/21/2025 12:45:00 PM	Non-Potable Water
25031749-002	25030753-006		3/18/2025 11:39:00 AM	3/21/2025 12:45:00 PM	Non-Potable Water
25031749-003	25030753-007		3/18/2025 11:14:00 AM	3/21/2025 12:45:00 PM	Non-Potable Water
25031749-004	25030753-008		3/18/2025 1:31:00 PM	3/21/2025 12:45:00 PM	Non-Potable Water
25031749-005	25030753-009		3/18/2025 10:45:00 AM	3/21/2025 12:45:00 PM	Non-Potable Water

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DATES REPORT

WO#: **25031749**

22-Apr-25

Client: TEKLAB Inc,
Project: 25030753

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
25031749-001A	25030753-005	3/18/2025 1:03:00 PM	Non-Potable Water	Radium-226 (EPA 903.0)		4/14/2025 4:00:36 PM	4/21/2025 10:58:00 AM
				Radium-228 (EPA 904.0)		4/14/2025 4:00:36 PM	4/18/2025 2:20:00 PM
25031749-002A	25030753-006	3/18/2025 11:39:00 AM		Radium-226 (EPA 903.0)		4/14/2025 4:00:36 PM	4/21/2025 10:58:00 AM
				Radium-228 (EPA 904.0)		4/14/2025 4:00:36 PM	4/18/2025 2:20:00 PM
25031749-003A	25030753-007	3/18/2025 11:14:00 AM		Radium-226 (EPA 903.0)		4/14/2025 4:00:36 PM	4/21/2025 10:58:00 AM
				Radium-228 (EPA 904.0)		4/14/2025 4:00:36 PM	4/18/2025 2:20:00 PM
25031749-004A	25030753-008	3/18/2025 1:31:00 PM		Radium-226 (EPA 903.0)		4/14/2025 4:00:36 PM	4/21/2025 10:58:00 AM
				Radium-228 (EPA 904.0)		4/14/2025 4:00:36 PM	4/18/2025 2:20:00 PM
25031749-005A	25030753-009	3/18/2025 10:45:00 AM		Radium-226 (EPA 903.0)		4/14/2025 4:00:36 PM	4/21/2025 10:58:00 AM
				Radium-228 (EPA 904.0)		4/14/2025 4:00:36 PM	4/18/2025 2:20:00 PM

Original

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Analytical Report

(consolidated)

WO#: **25031749**

Date Reported: **4/22/2025**

CLIENT: TEKLAB Inc,
Collection Date: 3/18/2025 1:03:00 PM
Project: 25030753
Lab ID: 25031749-001
Matrix: NON-POTABLE WATER
Client Sample ID: 25030753-005

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **HDJ**
Radium-226	ND	1.00		pCi/L	± 0.0300	1	4/21/2025 10:58:00 AM
Yield	1.00					1	4/21/2025 10:58:00 AM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **HDJ**
Radium-228	ND	1.00		pCi/L	± 0.380	1	4/18/2025 2:20:00 PM
Yield	1.00					1	4/18/2025 2:20:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
R	RPD outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode
M	Manual Integration used to determine area response
PL	Permit Limit
RL	Reporting Detection Limit

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Analytical Report

(consolidated)

WO#: **25031749**

Date Reported: **4/22/2025**

CLIENT: TEKLAB Inc,
Project: 25030753
Lab ID: 25031749-002
Client Sample ID: 25030753-006

Collection Date: 3/18/2025 11:39:00 AM
Matrix: NON-POTABLE WATER

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **HDJ**
Radium-226	ND	1.00		pCi/L	± 0.110	1	4/21/2025 10:58:00 AM
Yield	1.00					1	4/21/2025 10:58:00 AM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **HDJ**
Radium-228	1.73	1.00		pCi/L	± 0.620	1	4/18/2025 2:20:00 PM
Yield	1.00					1	4/18/2025 2:20:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
R	RPD outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode
M	Manual Integration used to determine area response
PL	Permit Limit
RL	Reporting Detection Limit

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Analytical Report

(consolidated)

WO#: **25031749**

Date Reported: **4/22/2025**

CLIENT: TEKLAB Inc,
Project: 25030753
Lab ID: 25031749-003
Client Sample ID: 25030753-007

Collection Date: 3/18/2025 11:14:00 AM
Matrix: NON-POTABLE WATER

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **HDJ**
Radium-226	ND	1.00		pCi/L	± 0.0700	1	4/21/2025 10:58:00 AM
Yield	1.00					1	4/21/2025 10:58:00 AM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **HDJ**
Radium-228	ND	1.00		pCi/L	± 0.400	1	4/18/2025 2:20:00 PM
Yield	1.00					1	4/18/2025 2:20:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
R	RPD outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode
M	Manual Integration used to determine area response
PL	Permit Limit
RL	Reporting Detection Limit

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Analytical Report

(consolidated)

WO#: **25031749**

Date Reported: **4/22/2025**

CLIENT: TEKLAB Inc,
Project: 25030753
Lab ID: 25031749-004
Client Sample ID: 25030753-008

Collection Date: 3/18/2025 1:31:00 PM
Matrix: NON-POTABLE WATER

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **HDJ**
Radium-226	ND	1.00		pCi/L	± 0.0800	1	4/21/2025 10:58:00 AM
Yield	1.00					1	4/21/2025 10:58:00 AM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **HDJ**
Radium-228	ND	1.00		pCi/L	± 0.410	1	4/18/2025 2:20:00 PM
Yield	1.00					1	4/18/2025 2:20:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
R	RPD outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode
M	Manual Integration used to determine area response
PL	Permit Limit
RL	Reporting Detection Limit

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Analytical Report

(consolidated)

WO#: **25031749**

Date Reported: **4/22/2025**

CLIENT: TEKLAB Inc,
Project: 25030753
Lab ID: 25031749-005
Client Sample ID: 25030753-009

Collection Date: 3/18/2025 10:45:00 AM
Matrix: NON-POTABLE WATER

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **HDJ**
Radium-226	ND	1.00		pCi/L	± 0.0600	1	4/21/2025 10:58:00 AM
Yield	1.00					1	4/21/2025 10:58:00 AM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **HDJ**
Radium-228	ND	1.00		pCi/L	± 0.290	1	4/18/2025 2:20:00 PM
Yield	1.00					1	4/18/2025 2:20:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
R	RPD outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode
M	Manual Integration used to determine area response
PL	Permit Limit
RL	Reporting Detection Limit

Original

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QC SUMMARY REPORT

WO#: **25031749**

22-Apr-25

Client: TEKLAB Inc,
Project: 25030753 **BatchID:** **83646**

Sample ID: **MB-83646** SampType: **MBLK** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **4/14/2025** RunNo: **207342**
Client ID: **BatchQC** Batch ID: **83646** TestNo: **E904.0** **E903-904** Analysis Date: **4/18/2025** SeqNo: **5548239**

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-83646** SampType: **LCS** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **4/14/2025** RunNo: **207342**
Client ID: **BatchQC** Batch ID: **83646** TestNo: **E904.0** **E903-904** Analysis Date: **4/18/2025** SeqNo: **5548240**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	3.42	1.00	5.000	0	68.4	50	130				
Yield	1.00			0	0						

Sample ID: **LCSD-83646** SampType: **LCSD** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **4/14/2025** RunNo: **207342**
Client ID: **BatchQC** Batch ID: **83646** TestNo: **E904.0** **E903-904** Analysis Date: **4/18/2025** SeqNo: **5548241**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	2.87	1.00	5.000	0	57.4	50	130	3.420	17.5	20	
Yield	1.00			0	0			1.000	0		

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits	W	Sample container temperature is out of limit as specified at testcode		

Original

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QC SUMMARY REPORT

WO#: **25031749**

22-Apr-25

Client: TEKLAB Inc,
Project: 25030753 **BatchID:** **83646**

Sample ID: **25031742-001ADUP** SampType: **DUP** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **4/14/2025** RunNo: **207342**
Client ID: **BatchQC** Batch ID: **83646** TestNo: **E904.0** **E903-904** Analysis Date: **4/18/2025** SeqNo: **5548246**

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	0.800			0	0			0.9800	20.2		

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits	W	Sample container temperature is out of limit as specified at testcode		

Original

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QC SUMMARY REPORT

WO#: **25031749**

22-Apr-25

Client: TEKLAB Inc,
Project: 25030753 **BatchID:** **83646**

Sample ID: **MB-83646**	SampType: **MBLK**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **4/14/2025**	RunNo: **207393**
Client ID: **BatchQC**	Batch ID: **83646**	TestNo: **E903.0**	**E903-904**	Analysis Date: **4/21/2025**	SeqNo: **5549116**

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-83646**	SampType: **LCS**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **4/14/2025**	RunNo: **207393**
Client ID: **BatchQC**	Batch ID: **83646**	TestNo: **E903.0**	**E903-904**	Analysis Date: **4/21/2025**	SeqNo: **5549117**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	3.91	1.00	5.000	0	78.2	70	130				QLR

Sample ID: **LCSD-83646**	SampType: **LCSD**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **4/14/2025**	RunNo: **207393**
Client ID: **BatchQC**	Batch ID: **83646**	TestNo: **E903.0**	**E903-904**	Analysis Date: **4/21/2025**	SeqNo: **5549118**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	4.90	1.00	5.000	0	98.0	70	130	3.910	22.5	20	R

Sample ID: **25031742-001ADUP**	SampType: **DUP**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **4/14/2025**	RunNo: **207393**
Client ID: **BatchQC**	Batch ID: **83646**	TestNo: **E903.0**	**E903-904**	Analysis Date: **4/21/2025**	SeqNo: **5549123**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits	W	Sample container temperature is out of limit as specified at testcode		

Original

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QC SUMMARY REPORT

WO#: **25031749**

22-Apr-25

Client: TEKLAB Inc,
Project: 25030753 **BatchID:** **83646**

Sample ID: **25031742-001ADUP** SampType: **DUP** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **4/14/2025** RunNo: **207393**
Client ID: **BatchQC** Batch ID: **83646** TestNo: **E903.0** **E903-904** Analysis Date: **4/21/2025** SeqNo: **5549123**

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	

Sample ID: **25031743-001ADUP** SampType: **DUP** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **4/14/2025** RunNo: **207393**
Client ID: **BatchQC** Batch ID: **83646** TestNo: **E903.0** **E903-904** Analysis Date: **4/21/2025** SeqNo: **5549125**

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:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits	W	Sample container temperature is out of limit as specified at testcode		

Original

Pg ___ of ___ 25031749

TEKLAB, INC. Chain of Custody

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

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

Teklab Inc 18.2-0.0=
5445 Horseshoe Lake Road
Collinsville, IL 62234

Cooler Temp: 18.2 Sampler: teklab employee QC Level: 2

Fedex, Cooler CS intact 3/19/25

Project# 25030753

Comments: **Please Issue reports and invoices via email only**
Please analyze for Radium 226/228.
Method changes require Teklab authorization. Samples collected from an IL site.
Batch QC is required for all analyses requested.

Contact: Shelly Hennessy Email: shennessy@teklabinc.com
Requested Due Date: Standard TAT Billing/PO: 38179 Phone: (618) 344-1004 ex 36

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.

Lab Use	Sample ID	Sample Date/Time	Preservative	Matrix	Ra226/228												
						COM						pH					
	25030753-005	3/18/25 13:03	HNO3	Groundwater	✔	10,	38					1,1					
	25030753-006	3/18/25 11:39	HNO3	Groundwater	✔	24,	26					3,3					
	25030753-007	3/18/25 11:14	HNO3	Groundwater	✔	46,	18					2,2					
	25030753-008	3/18/25 13:31	HNO3	Groundwater	✔	32,	22					2,2					
	25030753-009	3/18/25 10:45	HNO3	Groundwater	✔	32,	22					1,1					
			HNO3	Aqueous													
			HNO3	Groundwater													
			HNO3	Groundwater													
			HNO3	Groundwater													
			HNO3	Groundwater													
			HNO3	Groundwater													

*Relinquished By	Date/Time	Received By	Date/Time
			3/21/25, 1245

Alliance Technical Group - Akron
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

Sample Log-In Check List

Client Name: TEK-IL-62234-A Work Order Number: 25031749 RcptNo: 1

Logged by:	Tegan A. Richards	3/21/2025 12:45:00 PM	Tegan Richards
Completed By:	Tegan A. Richards	3/22/2025 4:25:35 PM	Tegan Richards
Reviewed By:	Jennifer Woolf	3/24/2025 12:37:49 PM	Jennifer Woolf

Chain of Custody

1. Is Chain of Custody complete? Yes ☐ No ☑ Not Present ☐
2. How was the sample delivered? FedEx

Log In

3. Coolers are present? Yes ☑ No ☐ NA ☐
4. Shipping container/cooler in good condition? Yes ☑ No ☐
   Custody seals intact on shipping container/cooler? Yes ☑ No ☐ Not Present ☐
   No. Seal Date: 3/13/2025 Signed By:
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? Yes ☑ No ☐
    (Note discrepancies on chain of custody)
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? Yes ☑ No ☐
    (If no, notify customer for authorization.)

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:

relinquish date & time not included
Both containers of 25030753-006 had pH 3

Cooler Information

Cooler No	Temp ºC	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	18.2	Good	Yes		3/19/2025	

May 09, 2025

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
Illinois	1004652024-2
Kansas	E-10374
Louisiana	05002
Louisiana	05003
Oklahoma	9978

RE: FGDS Landfill **WorkOrder:** 25041334

Dear Eric Staley:

TEKLAB, INC received 5 samples on 4/24/2025 12:27:00 PM 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

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

Report Contents

Client: City Water, Light & Power
Work Order: 25041334
Client Project: FGDS Landfill
Report Date: 09-May-25

This reporting package includes the following:

Cover Letter	1
Report Contents	2
Definitions	3
Case Narrative	5
Accreditations	6
Laboratory Results	7
Receiving Check List	12
Chain of Custody	Appended

Client: City Water, Light & Power **Work Order:** 25041334

Client Project: FGDS Landfill **Report Date:** 09-May-25

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: 25041334
Client Project: FGDS Landfill
Report Date: 09-May-25

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
Client Project: FGDS Landfill

Work Order: 25041334
Report Date: 09-May-25

Cooler Receipt Temp: 10.5 °C

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

Radium 226/228 analysis was performed by Alliance Technical Group. 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

Springfield

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

Kansas City

Address 8421 Nieman Road
Lenexa, KS 66214
Phone (913) 541-1998
Fax (913) 541-1998
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

Chicago

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

Client: City Water, Light & Power

Work Order: 25041334

Client Project: FGDS Landfill

Report Date: 09-May-25

State	Dept	Cert #	NELAP	Exp Date	Lab
Illinois	IEPA	100226	NELAP	1/31/2026	Collinsville
Illinois	IEPA	1004652024-2	NELAP	4/30/2026	Collinsville
Kansas	KDHE	E-10374	NELAP	4/30/2026	Collinsville
Louisiana	LDEQ	05002	NELAP	6/30/2025	Collinsville
Louisiana	LDEQ	05003	NELAP	6/30/2025	Collinsville
Oklahoma	ODEQ	9978	NELAP	8/31/2025	Collinsville
Arkansas	ADEQ	88-0966		3/14/2026	Collinsville
Illinois	IDPH	17584		5/31/2025	Collinsville
Iowa	IDNR	430		6/1/2026	Collinsville
Kentucky	KWLCP	KY98050		12/31/2025	Collinsville
Kentucky	KWLCP	KY98006		12/31/2025	Collinsville
Kentucky	UST	0073		1/31/2026	Collinsville
Mississippi	MSDH			4/30/2026	Collinsville
Missouri	MDNR	930		1/31/2028	Collinsville
Missouri	MDNR	00930		10/31/2026	Collinsville

Client: City Water, Light & Power **Work Order:** 25041334

Client Project: FGDS Landfill **Report Date:** 09-May-25

Lab ID: 25041334-001 **Client Sample ID:** R101

Matrix: GROUNDWATER **Collection Date:** 04/24/2025 10:29

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**511.53**	ft	1	04/24/2025 10:29	R363926
Depth to water	*	-5.00		**2.39**	ft	1	04/24/2025 10:29	R363926
Depth to water from measuring point	*	0		**5.19**	ft	1	04/24/2025 10:29	R363926
Elevation of groundwater surface	*	0		**541.61**	ft	1	04/24/2025 10:29	R363926
Measuring Point Elevation	*	0		**546.80**	ft	1	04/24/2025 10:29	R363926
Measuring Point Height Above Land Surface	*	0		**2.80**	ft	1	04/24/2025 10:29	R363926
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**5.1**	NTU	1	04/24/2025 10:29	R363926
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**57.9**	°F	1	04/24/2025 10:29	R363926
SW-846 9040B								
pH, Field	*	1.00		**6.86**		1	04/24/2025 10:29	R363926
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1340**	µmhos/cm @25C	1	04/24/2025 10:29	R363926
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	20		**956**	mg/L	1	04/29/2025 14:48	R364192
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	04/25/2025 18:04	R363968
Chloride	NELAP	5.00		**103**	mg/L	10	04/25/2025 18:04	R363968
Sulfate	NELAP	10.0		**256**	mg/L	10	04/25/2025 18:04	R363968
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.0101**	mg/L	1	04/25/2025 9:13	238084
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	04/25/2025 9:13	238084
Boron	NELAP	0.0200		**0.124**	mg/L	1	04/25/2025 9:13	238084
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	04/25/2025 9:13	238084
Calcium	NELAP	0.100		**152**	mg/L	1	04/25/2025 9:13	238084
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	04/25/2025 9:13	238084
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	04/25/2025 9:13	238084
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	04/25/2025 9:13	238084
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	04/25/2025 9:13	238084
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	04/25/2025 15:38	238084
Arsenic	NELAP	0.0010		**< 0.0010**	mg/L	5	04/25/2025 15:38	238084
Lithium	*	0.0030		**0.0156**	mg/L	5	04/25/2025 15:38	238084
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	04/25/2025 15:38	238084
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	04/25/2025 15:38	238084
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	04/28/2025 17:14	238209
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	05/07/2025 0:00	R364677
Radium-228	*	0		**See Attached**	pci/L	1	05/07/2025 0:00	R364677

Client: City Water, Light & Power **Work Order:** 25041334

Client Project: FGDS Landfill **Report Date:** 09-May-25

Lab ID: 25041334-002 **Client Sample ID:** P07D

Matrix: GROUNDWATER **Collection Date:** 04/24/2025 10:02

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**528.25**	ft	1	04/24/2025 10:02	R363926
Depth to water	*	-5.00		**0.99**	ft	1	04/24/2025 10:02	R363926
Depth to water from measuring point	*	0		**3.99**	ft	1	04/24/2025 10:02	R363926
Elevation of groundwater surface	*	0		**524.26**	ft	1	04/24/2025 10:02	R363926
Measuring Point Elevation	*	0		**528.25**	ft	1	04/24/2025 10:02	R363926
Measuring Point Height Above Land Surface	*	0		**3.00**	ft	1	04/24/2025 10:02	R363926
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**11**	NTU	1	04/24/2025 10:02	R363926
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**57.1**	°F	1	04/24/2025 10:02	R363926
SW-846 9040B								
pH, Field	*	1.00		**6.70**		1	04/24/2025 10:02	R363926
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1550**	µmhos/cm @25C	1	04/24/2025 10:02	R363926
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	33		**1160**	mg/L	1.67	04/29/2025 14:47	R364192
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	04/25/2025 18:16	R363968
Chloride	NELAP	5.00		**31.9**	mg/L	10	04/25/2025 18:16	R363968
Sulfate	NELAP	10.0		**283**	mg/L	10	04/25/2025 18:16	R363968
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.847**	mg/L	1	04/25/2025 9:14	238084
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	04/25/2025 9:14	238084
Boron	NELAP	0.0200		**5.22**	mg/L	1	04/25/2025 9:14	238084
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	04/25/2025 9:14	238084
Calcium	NELAP	0.100		**175**	mg/L	1	04/25/2025 9:14	238084
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	04/25/2025 9:14	238084
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	04/25/2025 9:14	238084
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	04/25/2025 9:14	238084
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	04/25/2025 9:14	238084
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	04/25/2025 15:44	238084
Arsenic	NELAP	0.0010		**0.0262**	mg/L	5	04/25/2025 15:44	238084
Lithium	*	0.0030		**0.0076**	mg/L	5	04/25/2025 15:44	238084
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	04/25/2025 15:44	238084
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	04/25/2025 15:44	238084
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	04/28/2025 17:16	238209
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	05/07/2025 0:00	R364677
Radium-228	*	0		**See Attached**	pci/L	1	05/07/2025 0:00	R364677

Client: City Water, Light & Power **Work Order:** 25041334

Client Project: FGDS Landfill **Report Date:** 09-May-25

Lab ID: 25041334-003 **Client Sample ID:** AW-2

Matrix: GROUNDWATER **Collection Date:** 04/24/2025 9:29

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**497.34**	ft	1	04/24/2025 9:29	R363926
Depth to water	*	-5.00		**0.49**	ft	1	04/24/2025 9:29	R363926
Depth to water from measuring point	*	0		**3.79**	ft	1	04/24/2025 9:29	R363926
Elevation of groundwater surface	*	0		**526.19**	ft	1	04/24/2025 9:29	R363926
Measuring Point Elevation	*	0		**529.98**	ft	1	04/24/2025 9:29	R363926
Measuring Point Height Above Land Surface	*	0		**3.30**	ft	1	04/24/2025 9:29	R363926
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**6.0**	NTU	1	04/24/2025 9:29	R363926
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**59.0**	°F	1	04/24/2025 9:29	R363926
SW-846 9040B								
pH, Field	*	1.00		**6.81**		1	04/24/2025 9:29	R363926
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1060**	µmhos/cm @25C	1	04/24/2025 9:29	R363926
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	20		**650**	mg/L	1	04/29/2025 14:45	R364192
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	04/25/2025 18:27	R363968
Chloride	NELAP	5.00		**21.2**	mg/L	10	04/25/2025 18:27	R363968
Sulfate	NELAP	10.0		**65.8**	mg/L	10	04/25/2025 18:27	R363968
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.299**	mg/L	1	04/25/2025 9:15	238084
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	04/25/2025 9:15	238084
Boron	NELAP	0.0200		**1.77**	mg/L	1	04/25/2025 9:15	238084
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	04/25/2025 9:15	238084
Calcium	NELAP	0.100		**115**	mg/L	1	04/25/2025 9:15	238084
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	04/25/2025 9:15	238084
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	04/25/2025 9:15	238084
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	04/25/2025 9:15	238084
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	04/25/2025 9:15	238084
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	04/25/2025 15:49	238084
Arsenic	NELAP	0.0010		**0.0014**	mg/L	5	04/25/2025 15:49	238084
Lithium	*	0.0030		**0.0054**	mg/L	5	04/25/2025 15:49	238084
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	04/25/2025 15:49	238084
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	04/25/2025 15:49	238084
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	04/28/2025 17:19	238209
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	05/07/2025 0:00	R364677
Radium-228	*	0		**See Attached**	pci/L	1	05/07/2025 0:00	R364677

Client: City Water, Light & Power **Work Order:** 25041334

Client Project: FGDS Landfill **Report Date:** 09-May-25

Lab ID: 25041334-004 **Client Sample ID:** G121

Matrix: GROUNDWATER **Collection Date:** 04/24/2025 10:36

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**497.04**	ft	1	04/24/2025 10:36	R363926
Depth to water	*	-5.00		**25.26**	ft	1	04/24/2025 10:36	R363926
Depth to water from measuring point	*	0		**27.13**	ft	1	04/24/2025 10:36	R363926
Elevation of groundwater surface	*	0		**528.47**	ft	1	04/24/2025 10:36	R363926
Measuring Point Elevation	*	0		**555.60**	ft	1	04/24/2025 10:36	R363926
Measuring Point Height Above Land Surface	*	0		**1.87**	ft	1	04/24/2025 10:36	R363926
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**78**	NTU	1	04/24/2025 10:36	R363926
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**57.0**	°F	1	04/24/2025 10:36	R363926
SW-846 9040B								
pH, Field	*	1.00		**6.65**		1	04/24/2025 10:36	R363926
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1500**	µmhos/cm @25C	1	04/24/2025 10:36	R363926
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	25		**1240**	mg/L	1.25	04/29/2025 14:44	R364192
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	04/25/2025 18:39	R363968
Chloride	NELAP	5.00		**28.1**	mg/L	10	04/25/2025 18:39	R363968
Sulfate	NELAP	10.0		**310**	mg/L	10	04/25/2025 18:39	R363968
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.573**	mg/L	1	04/25/2025 9:15	238084
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	04/25/2025 9:15	238084
Boron	NELAP	0.0200		**3.65**	mg/L	1	04/25/2025 9:15	238084
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	04/25/2025 9:15	238084
Calcium	NELAP	0.100		**173**	mg/L	1	04/25/2025 9:15	238084
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	04/25/2025 9:15	238084
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	04/25/2025 9:15	238084
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	04/25/2025 9:15	238084
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	04/25/2025 9:15	238084
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	04/25/2025 15:55	238084
Arsenic	NELAP	0.0010		**0.0145**	mg/L	5	04/25/2025 15:55	238084
Lithium	*	0.0030		**0.0068**	mg/L	5	04/25/2025 15:55	238084
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	04/25/2025 15:55	238084
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	04/25/2025 15:55	238084
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	04/28/2025 17:21	238209
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	05/07/2025 0:00	R364677
Radium-228	*	0		**See Attached**	pci/L	1	05/07/2025 0:00	R364677

Client: City Water, Light & Power **Work Order:** 25041334

Client Project: FGDS Landfill **Report Date:** 09-May-25

Lab ID: 25041334-005 **Client Sample ID:** G122

Matrix: GROUNDWATER **Collection Date:** 04/24/2025 10:03

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**505.11**	ft	1	04/24/2025 10:03	R363926
Depth to water	*	-5.00		**27.05**	ft	1	04/24/2025 10:03	R363926
Depth to water from measuring point	*	0		**28.79**	ft	1	04/24/2025 10:03	R363926
Elevation of groundwater surface	*	0		**525.61**	ft	1	04/24/2025 10:03	R363926
Measuring Point Elevation	*	0		**554.40**	ft	1	04/24/2025 10:03	R363926
Measuring Point Height Above Land Surface	*	0		**1.74**	ft	1	04/24/2025 10:03	R363926
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**52**	NTU	1	04/24/2025 10:03	R363926
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**57.2**	°F	1	04/24/2025 10:03	R363926
SW-846 9040B								
pH, Field	*	1.00		**6.54**		1	04/24/2025 10:03	R363926
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1770**	µmhos/cm @25C	1	04/24/2025 10:03	R363926
STANDARD METHODS 2540 C (TOTAL) 1997, 2011								
Total Dissolved Solids	NELAP	33		**1200**	mg/L	1.67	04/29/2025 14:38	R364192
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	04/25/2025 19:26	R363968
Chloride	NELAP	5.00		**36.4**	mg/L	10	04/25/2025 19:26	R363968
Sulfate	NELAP	10.0		**537**	mg/L	10	04/25/2025 19:26	R363968
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.491**	mg/L	1	04/25/2025 10:09	238084
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	04/25/2025 10:09	238084
Boron	NELAP	0.0200		**12.0**	mg/L	1	04/25/2025 10:09	238084
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	04/25/2025 10:09	238084
Calcium	NELAP	0.100		**241**	mg/L	1	04/25/2025 10:09	238084
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	04/25/2025 10:09	238084
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	04/25/2025 10:09	238084
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	04/25/2025 10:09	238084
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	04/25/2025 10:09	238084
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	04/25/2025 16:41	238084
Arsenic	NELAP	0.0010		**0.0032**	mg/L	5	04/25/2025 16:41	238084
Lithium	*	0.0030		**0.0062**	mg/L	5	04/25/2025 16:41	238084
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	04/25/2025 16:41	238084
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	04/25/2025 16:41	238084
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	04/28/2025 17:23	238209
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	05/07/2025 0:00	R364677
Radium-228	*	0		**See Attached**	pci/L	1	05/07/2025 0:00	R364677

Receiving Check List

http://www.teklabinc.com/

Client: City Water, Light & Power
Client Project: FGDS Landfill

Work Order: 25041334
Report Date: 09-May-25

Carrier: Brett Gillihan
Received By: JMD

Completed by: Amber Dilallo
On: 24-Apr-25

Reviewed by: Ellie Hopkins
On: 24-Apr-25

Pages to follow: Chain of custody 1 Extra pages included 23

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐	Temp °C	10.5	
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.

Additional Nitric Acid (103505) was needed for R101, P07D, AW-2, G121 and G122 upon arrival at the laboratory. - JD/amberdilallo - 4/24/2025 2:30:20 PM

pH strip #101358. - JD/amberdilallo - 4/24/2025 2:30:23 PM

Drop off Location
☐ Downers Grove, IL ☐ Lenexa, KS
☐ Springfield, IL ☒ Collinsville, IL

CHAIN OF CUSTODY

pg. 1 of 1 Work order # 25041334

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

Client:	City Water, Light & Power		
Address:	3100 Stevenson Drive		
City / State / Zip	Springfield, IL 62712		
Contact:	Eric Staley	**Phone:**	(217) 757-8610
E-Mail:	eric.staley@cwlp.com	**Fax:**	

Samples on: ☒ ICE ☐ BLUE ICE ☐ NO ICE 10.5 °C LTG# 5

Preserved in: ☐ LAB ☒ FIELD

FOR LAB USE ONLY

Lab Notes: PH 101358 Added HNO3(103505) 2/2 1-Liter R101, P07D AW-2, G121, G122 JD 4/24/25

Client Comments Report QC LVL:___

*Elevations, pH, conductivity, temperature
**Sb As Se Li Tl (ICPMS) Ba Be B Cd Ca Cr Co Pb Mo Hg

Are these samples known to be involved in litigation? If yes, a surcharge will apply ☐ Yes ☒ No

Are these samples known to be hazardous? If yes, include details of the hazard. ☐ 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 On file

Project Name/Number: FGDS Landfill

Sample Collector's Name: Justin Gip

Results Requested (call for PFAS TAT and surcharges)
☒ Standard ☐ 1-2 Day (100% Surcharge)
☐ Date ___ ☐ 3 Day (50% Surcharge)

Billing/PO#

Lab Use Only	Sample Identification	Date/Time Sampled	# and Type of Containers: UNP	HNO3	MATRIX: Groundwater	INDICATE ANALYSIS REQUESTED: Cl SO4 TDS F (T)	Field parameters*	Field Turbidity	Metals (T)**	Radium-226/228
25041334-001	R101	4-24-25 / 1029	1	3	X	X	X	X	X	X
002	P07D	1002	1	3	X	X	X	X	X	X
003	AW-2	929	1	3	X	X	X	X	X	X
004	G121	1036	1	3	X	X	X	X	X	X
005	G122	1003	1	3	X	X	X	X	X	X

Relinquished By	Date/Time	Received By	Date/Time
Justin Gip	4-24-25 1227	[signature]	4/24/25 12:27

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.

BottleOrder: 99065

Alliance Technical Group - Akron
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

May 08, 2025

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

RE: 25041334

Order No.: 25042163

Dear Shelly Hennessy:

Alliance Technical Group - Akron received 5 sample(s) on 4/28/2025 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

Alliance Technical Group - Akron
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Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

Case Narrative

WO#: **25042163**
Date: **5/8/2025**

CLIENT: TEKLAB Inc,
Project: 25041334

WorkOrder Narrative:
25042163: 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 Alliance Technical Group Work Order Number assigned to this report.

Alliance Technical Group 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 Alliance Technical Group and that of the customer. It cannot be reproduced in any form without the consent of Alliance Technical Group 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. Alliance Technical Group 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.

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Cuyahoga Falls, Ohio 4422
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Qualifiers and Acronyms

WO#: **25042163**
Date: **5/8/2025**

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.

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Workorder Sample Summary

WO#: **25042163**
08-May-25

CLIENT: TEKLAB Inc,
Project: 25041334

Lab SampleID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
25042163-001	25041334-001		4/24/2025 10:29:00 AM	4/28/2025 1:00:00 PM	Non-Potable Water
25042163-002	25041334-002		4/24/2025 10:02:00 AM	4/28/2025 1:00:00 PM	Non-Potable Water
25042163-003	25041334-003		4/24/2025 9:29:00 AM	4/28/2025 1:00:00 PM	Non-Potable Water
25042163-004	25041334-004		4/24/2025 10:36:00 AM	4/28/2025 1:00:00 PM	Non-Potable Water
25042163-005	25041334-005		4/24/2025 10:03:00 AM	4/28/2025 1:00:00 PM	Non-Potable Water

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DATES REPORT

WO#: **25042163**

08-May-25

Client: TEKLAB Inc,

Project: 25041334

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
25042163-001A	25041334-001	4/24/2025 10:29:00 AM	Non-Potable Water	Radium-226 (EPA 903.0)		5/1/2025 11:04:28 AM	5/8/2025 9:37:00 AM
				Radium-228 (EPA 904.0)		5/1/2025 11:04:28 AM	5/7/2025 2:45:00 PM
25042163-002A	25041334-002	4/24/2025 10:02:00 AM		Radium-226 (EPA 903.0)		5/1/2025 11:04:28 AM	5/8/2025 9:37:00 AM
				Radium-228 (EPA 904.0)		5/1/2025 11:04:28 AM	5/7/2025 2:45:00 PM
25042163-003A	25041334-003	4/24/2025 9:29:00 AM		Radium-226 (EPA 903.0)		5/1/2025 11:04:28 AM	5/8/2025 9:37:00 AM
				Radium-228 (EPA 904.0)		5/1/2025 11:04:28 AM	5/7/2025 2:45:00 PM
25042163-004A	25041334-004	4/24/2025 10:36:00 AM		Radium-226 (EPA 903.0)		5/1/2025 11:04:28 AM	5/8/2025 9:37:00 AM
				Radium-228 (EPA 904.0)		5/1/2025 11:04:28 AM	5/7/2025 2:45:00 PM
25042163-005A	25041334-005	4/24/2025 10:03:00 AM		Radium-226 (EPA 903.0)		5/1/2025 11:04:28 AM	5/8/2025 9:37:00 AM
				Radium-228 (EPA 904.0)		5/1/2025 11:04:28 AM	5/7/2025 2:45:00 PM

Original

Alliance Technical Group - Akron
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Analytical Report

(consolidated)

WO#: **25042163**

Date Reported: **5/8/2025**

CLIENT: TEKLAB Inc,
Project: 25041334
Lab ID: 25042163-001
Client Sample ID: 25041334-001

Collection Date: 4/24/2025 10:29:00 AM
Matrix: NON-POTABLE WATER

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **HDJ**
Radium-226	ND	1.00		pCi/L	± 0.0500	1	5/8/2025 9:37:00 AM
Yield	1.00					1	5/8/2025 9:37:00 AM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **HDJ**
Radium-228	ND	1.00		pCi/L	± 0.320	1	5/7/2025 2:45:00 PM
Yield	1.00					1	5/7/2025 2:45:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
RL	Reporting Detection Limit
M	Manual Integration used to determine area response
PL	Permit Limit
W	Sample container temperature is out of limit as specified at testcode

Original

Alliance Technical Group - Akron
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Analytical Report

(consolidated)

WO#: **25042163**

Date Reported: **5/8/2025**

CLIENT: TEKLAB Inc,
Project: 25041334
Lab ID: 25042163-002
Client Sample ID: 25041334-002

Collection Date: 4/24/2025 10:02:00 AM
Matrix: NON-POTABLE WATER

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **HDJ**
Radium-226	ND	1.00		pCi/L	± 0.110	1	5/8/2025 9:37:00 AM
Yield	1.00					1	5/8/2025 9:37:00 AM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **HDJ**
Radium-228	ND	1.00		pCi/L	± 0.370	1	5/7/2025 2:45:00 PM
Yield	1.00					1	5/7/2025 2:45:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
RL	Reporting Detection Limit
M	Manual Integration used to determine area response
PL	Permit Limit
W	Sample container temperature is out of limit as specified at testcode

Original

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Analytical Report

(consolidated)

WO#: **25042163**

Date Reported: **5/8/2025**

CLIENT: TEKLAB Inc,
Project: 25041334
Lab ID: 25042163-003
Client Sample ID: 25041334-003

Collection Date: 4/24/2025 9:29:00 AM
Matrix: NON-POTABLE WATER

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **HDJ**
Radium-226	ND	1.00		pCi/L	± 0.0900	1	5/8/2025 9:37:00 AM
Yield	1.00					1	5/8/2025 9:37:00 AM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **HDJ**
Radium-228	ND	1.00		pCi/L	± 0.380	1	5/7/2025 2:45:00 PM
Yield	1.00					1	5/7/2025 2:45:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
RL	Reporting Detection Limit
M	Manual Integration used to determine area response
PL	Permit Limit
W	Sample container temperature is out of limit as specified at testcode

Original

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Analytical Report

(consolidated)

WO#: **25042163**

Date Reported: **5/8/2025**

CLIENT: TEKLAB Inc,
Project: 25041334
Lab ID: 25042163-004
Client Sample ID: 25041334-004

Collection Date: 4/24/2025 10:36:00 AM
Matrix: NON-POTABLE WATER

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **HDJ**
Radium-226	ND	1.00		pCi/L	± 0.160	1	5/8/2025 9:37:00 AM
Yield	1.00					1	5/8/2025 9:37:00 AM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **HDJ**
Radium-228	1.00	1.00		pCi/L	± 0.510	1	5/7/2025 2:45:00 PM
Yield	1.00					1	5/7/2025 2:45:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
RL	Reporting Detection Limit
M	Manual Integration used to determine area response
PL	Permit Limit
W	Sample container temperature is out of limit as specified at testcode

Original

Alliance Technical Group - Akron
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

Analytical Report

(consolidated)

WO#: **25042163**

Date Reported: **5/8/2025**

CLIENT: TEKLAB Inc,
Project: 25041334
Lab ID: 25042163-005
Client Sample ID: 25041334-005

Collection Date: 4/24/2025 10:03:00 AM
Matrix: NON-POTABLE WATER

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **HDJ**
Radium-226	ND	1.00		pCi/L	± 0.0700	1	5/8/2025 9:37:00 AM
Yield	1.00					1	5/8/2025 9:37:00 AM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **HDJ**
Radium-228	ND	1.00		pCi/L	± 0.380	1	5/7/2025 2:45:00 PM
Yield	1.00					1	5/7/2025 2:45:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
RL	Reporting Detection Limit
M	Manual Integration used to determine area response
PL	Permit Limit
W	Sample container temperature is out of limit as specified at testcode

Original

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Website: http://www.settek.com

QC SUMMARY REPORT

WO#: **25042163**

08-May-25

Client: TEKLAB Inc,
Project: 25041334 **BatchID:** **84183**

Sample ID: **MB-84183** SampType: **MBLK** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **5/1/2025** RunNo: **208450**
Client ID: **BatchQC** Batch ID: **84183** TestNo: **E904.0** **E903-904** Analysis Date: **5/7/2025** SeqNo: **5574285**

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-84183** SampType: **LCS** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **5/1/2025** RunNo: **208450**
Client ID: **BatchQC** Batch ID: **84183** TestNo: **E904.0** **E903-904** Analysis Date: **5/7/2025** SeqNo: **5574286**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	3.58	1.00	5.000	0	71.6	50	130				
Yield	1.00			0	0						

Sample ID: **LCSD-84183** SampType: **LCSD** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **5/1/2025** RunNo: **208450**
Client ID: **BatchQC** Batch ID: **84183** TestNo: **E904.0** **E903-904** Analysis Date: **5/7/2025** SeqNo: **5574287**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	4.07	1.00	5.000	0	81.4	50	130	3.580	12.8	20	
Yield	1.00			0	0			1.000	0		

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	RL	Reporting Detection Limit	W	Sample container temperature is out of limit as spec

Original

Alliance Technical Group - Akron
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

QC SUMMARY REPORT

WO#: **25042163**

08-May-25

Client: TEKLAB Inc,
Project: 25041334 **BatchID:** **84183**

Sample ID: **25040649-003ADUP** SampType: **DUP** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **5/1/2025** RunNo: **208450**
Client ID: **BatchQC** Batch ID: **84183** TestNo: **E904.0** **E903-904** Analysis Date: **5/7/2025** SeqNo: **5574292**

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		

Sample ID: **25040649-004ADUP** SampType: **DUP** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **5/1/2025** RunNo: **208450**
Client ID: **BatchQC** Batch ID: **84183** TestNo: **E904.0** **E903-904** Analysis Date: **5/7/2025** SeqNo: **5574294**

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:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	RL	Reporting Detection Limit	W	Sample container temperature is out of limit as spec

Original

Alliance Technical Group - Akron
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

QC SUMMARY REPORT

WO#: **25042163**

08-May-25

Client: TEKLAB Inc,
Project: 25041334 **BatchID:** **84183**

Sample ID: **MB-84183** SampType: **MBLK** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **5/1/2025** RunNo: **208463**
Client ID: **BatchQC** Batch ID: **84183** TestNo: **E903.0** **E903-904** Analysis Date: **5/8/2025** SeqNo: **5574574**

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-84183** SampType: **LCS** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **5/1/2025** RunNo: **208463**
Client ID: **BatchQC** Batch ID: **84183** TestNo: **E903.0** **E903-904** Analysis Date: **5/8/2025** SeqNo: **5574575**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	4.12	1.00	5.000	0	82.4	70	130				

Sample ID: **LCSD-84183** SampType: **LCSD** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **5/1/2025** RunNo: **208463**
Client ID: **BatchQC** Batch ID: **84183** TestNo: **E903.0** **E903-904** Analysis Date: **5/8/2025** SeqNo: **5574576**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	4.60	1.00	5.000	0	92.0	70	130	4.120	11.0	20	

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	RL	Reporting Detection Limit	W	Sample container temperature is out of limit as spec

Original

Pg __ of __ 25042163

TEKLAB, INC. Chain of Custody

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

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: Teklab Sampler QC Level: 2

Comments: **Please Issue reports and invoices via email only**
Please analyze for Radium 226/228 per your usual methods.
Any changes to analysis/methods must be approved by Teklab, Inc. Batch QC is required.
Samples collected from an IL site.

Project# 25041334

Contact: Shelly Hennessy Email: shennessy@TekLabInc.com

Requested Due Date: ~~Standard TAT~~ 5/9/25 TE [illegible] Billing/PO: 38414 Phone: (618) 344-1004 ext. 36

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.

Lab Use	Sample ID	Sample Date/Time	Preservative	Matrix	Radium 226/228	CPM=		pH=								
	25041334-001	4/24/25 1029	HNO3	Groundwater	✓	16.13		1.1								
	25041334-002	4/24/25 1002	HNO3	Groundwater	✓	12.19		1.1								
	25041334-003	4/24/25 0929	HNO3	Groundwater	✓	20.19		1.1								
	25041334-004	4/24/25 1036	HNO3	Groundwater	✓	9.9		1.1								
	25041334-005	4/24/25 1003	HNO3	Groundwater	✓	9.9		1.1								
			Other	Aqueous												
			Other	Aqueous												
			Other	Aqueous												
			Other	Aqueous												
			Other	Aqueous												
			Other	Aqueous												

*Relinquished By	Date/Time	Received By	Date/Time
[signature]	4/24/25 1100	[signature]	4/25/25 1300

Fedex box/cooler 2.0-0.0=2.0 C.S. intact 4703

Teklab maintains a strict policy of client confidentiality and as such does not provide client or 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)

SubCocRevA 3/2/2016

Alliance Technical Group - Akron
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

Sample Log-In Check List

Client Name: TEK-IL-62234-A Work Order Number: 25042163 RcptNo: 1

Logged by:	Christina N. Gemma	4/28/2025 1:00:00 PM	C. Gemma
Completed By:	Christina N. Gemma	4/29/2025 9:14:17 AM	C. Gemma
Reviewed By:	Jennifer Woolf	4/29/2025 11:13:50 AM	Jennifer Woolf

Chain of Custody

1. Is Chain of Custody complete? Yes ☑ No ☐ Not Present ☐
2. How was the sample delivered? FedEx

Log In

3. Coolers are present? Yes ☑ No ☐ NA ☐
4. Shipping container/cooler in good condition? Yes ☑ No ☐
   Custody seals intact on shipping container/cooler? Yes ☐ No ☐ Not Present ☑
   No. Seal Date: Signed By:
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? Yes ☑ No ☐
    (Note discrepancies on chain of custody)
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? Yes ☑ No ☐
    (If no, notify customer for authorization.)

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 ºC	Condition	Seal Intact	Seal No	Seal Date	Signed By
Box	20.0					

Field Data Sheet

Project Name: FGDS Landfill
Project Location: Springfield, IL
W.O. Number (s): 25041334
Monitoring Point: R101
Sample ID: 001
Date (s): 4/24/2025

Field Team Members

Name: Justin Colp Affiliation: TekLab, Inc.
Name: Affiliation:

Weather Conditions

Temp: 73 °F Wind Direction: ☐ N ☐ S ☐ E ☐ SE ☐ SW ☐ NE ☑ NW

Precipitation: ☑ None ☐ Light ☐ Heavy Sky: ☐ Clear ☑ Partly Cloudy ☐ Cloudy

Well Observations

Well Pad	Good
Casing	Good
Protective Casing	Good
Reference Mark/Identification	Yes

Locks	Yes	No
Protective Casing		X
Well		X

Groundwater Level Measurements

Date/Time Measured: 4/24/2025 10:16
Static Water Level: 5.19 feet below TOC
Total Depth: 35.27 feet below TOC
Water Column: 30.08 feet

Purging Activities

Purged By: JC Purge Date: 4/24/2025
Purge Method: Peristaltic Pump Well Diameter: 2"
Purge Volume Calculation (L): 30.08 ft. x 0.022 = 0.66 L x 3 Vol. = 1.98 L **Based on Low-Flow (3/8" discharge)*
Actual Purge Volume (L): 3.50 L
Physical appearance of purge water: Clear Odor: None Color: none

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
10:17	0.0	292	purge start time						
10:20	0.9	↓	6.95	1,341.60	14.47	3.79	64.10	5.57	
10:23	1.8		6.89	1,339.30	14.74	3.52	63.30	5.16	
10:26	2.6		6.87	1,339.60	14.68	3.46	62.50	5.68	
10:29	3.5		6.86	1,341.50	14.38	3.42	61.90	5.07	

Sampling Activities

Sampled By: JC Sample Date/Time: 4/24/2025 10:29
Sample Method: Low Flow Sample Equipment: Peristaltic Pump
Sample Parameters: 6.86 pH 1,341.50 Spec. Cond. 14.38 Temp
Field Filtered: No Filter Type:
Water Level: 7.03 feet below TOC Drawdown: 1.84 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 210756

Form Completed By: Justin Colp **Date:** 4/24/2025

Field Data Sheet

Project Name:	FGDS Landfill	**Monitoring Point:**	P07D
Project Location:	Springfield, IL	**Sample ID:**	002
W.O. Number (s):	25041334	**Date (s):**	4/24/2025

Field Team Members

Name: Justin Colp Affiliation: TekLab, Inc.

Name: Affiliation:

Weather Conditions

Temp: 71 °F Wind Direction: ☐ N ☐ S ☐ E ☐ SE ☐ SW ☐ NE ☑ NW

Precipitation: ☑ None ☐ Light ☐ Heavy Sky: ☐ Clear ☑ Partly Cloudy ☐ Cloudy

Well Observations

Well Pad	Good
Casing	Good
Protective Casing	Good
Reference Mark/Identification	Yes

Locks	Yes	No
Protective Casing		X
Well		X

Groundwater Level Measurements

Date/Time Measured: 4/24/2025 9:40

Static Water Level: 3.99 feet below TOC

Total Depth: 32.54 feet below TOC

Water Column: 28.55 feet

Purging Activities

Purged By: JC Purge Date: 4/24/2025

Purge Method: Peristaltic Pump Well Diameter: 2"

Purge Volume Calculation (L): 28.55 ft. x 0.022 = 0.63 L x 3 Vol. = 1.89 L **Based on Low-Flow (3/8" discharge)*

Actual Purge Volume (L): 6.00 L

Physical appearance of purge water: Clear Odor: None Color: none

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
9:40	0.0	273	purge start time						
9:44	1.1	↓	6.79	1,525.50	14.11	1.49	84.50	268.11	
9:47	1.9		6.74	1,530.00	14.19	1.06	83.40	56.68	
9:50	2.7		6.72	1,543.10	14.07	0.93	82.40	28.59	
9:53	3.5		6.71	1,545.90	14.09	0.85	81.00	21.49	
9:56	4.4		6.71	1,548.80	14.17	0.82	79.40	14.70	
9:59	5.2		6.70	1,552.50	14.09	0.81	77.80	11.92	
10:02	6.0		6.70	1,551.60	13.94	0.79	76.20	10.97	

Sampling Activities

Sampled By: JC Sample Date/Time: 4/24/2025 10:02

Sample Method: Low Flow Sample Equipment: Peristaltic Pump

Sample Parameters: 6.70 pH 1,551.60 Spec. Cond. 13.94 Temp

Field Filtered: No Filter Type:

Water Level: 4.25 feet below TOC Drawdown: 0.26 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 210756

Form Completed By: Justin Colp **Date:** 4/24/2025

Field Data Sheet

Project Name:	FGDS Landfill	**Monitoring Point:**	AW-2
Project Location:	Springfield, IL	**Sample ID:**	003
W.O. Number (s):	25041334	**Date (s):**	4/24/2025

Field Team Members

Name: Justin Colp — Affiliation: TekLab, Inc.

Name: — Affiliation:

Weather Conditions

Temp: 68 °F — Wind Direction: ☐ N ☐ S ☐ E ☐ SE ☐ SW ☐ NE ☑ NW

Precipitation: ☑ None ☐ Light ☐ Heavy — Sky: ☐ Clear ☑ Partly Cloudy ☐ Cloudy

Well Observations

Well Pad	Good
Casing	Good
Protective Casing	Good
Reference Mark/Identification	Yes

Locks	Yes	No
Protective Casing		X
Well		X

Groundwater Level Measurements

Date/Time Measured: 4/24/2025 9:11

Static Water Level: 3.79 feet below TOC

Total Depth: 32.64 feet below TOC

Water Column: 28.85 feet

Purging Activities

Purged By: JC — Purge Date: 4/24/2025

Purge Method: Peristaltic Pump — Well Diameter: 2"

Purge Volume Calculation (L): 28.85 ft. x 0.022 = 0.63 L x 3 Vol. = 1.89 L **Based on Low-Flow (3/8" discharge)*

Actual Purge Volume (L): 4.50 L

Physical appearance of purge water: Clear — Odor: None — Color: none

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
9:11	0.0	250	purge start time						
9:14	0.8	↓	6.78	1,056.00	13.91	1.75	65.60	17.13	
9:17	1.5		6.78	1,057.20	13.94	1.34	63.90	10.67	
9:20	2.3		6.78	1,051.80	14.95	1.43	63.00	10.36	
9:23	3.0		6.80	1,058.80	15.22	1.52	62.90	7.70	
9:26	3.8		6.80	1,060.40	15.19	1.39	63.10	7.79	
9:29	4.5		6.81	1,060.10	15.02	1.32	63.50	5.98	

Sampling Activities

Sampled By: JC — Sample Date/Time: 4/24/2025 9:29

Sample Method: Low Flow — Sample Equipment: Peristaltic Pump

Sample Parameters: 6.81 pH — 1,060.10 Spec. Cond. — 15.02 Temp

Field Filtered: No — Filter Type:

Water Level: 3.86 feet below TOC — Drawdown: 0.07 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 210756

Form Completed By: Justin Colp — **Date:** 4/24/2025

Field Data Sheet

Project Name:	FGDS Landfill	**Monitoring Point:**	G121
Project Location:	Springfield, IL	**Sample ID:**	004
W.O. Number (s):	25041334	**Date (s):**	4/24/2025

Field Team Members

Name: Brett Gillihan Affiliation: TekLab, Inc.

Name: Payton Yoch Affiliation: TekLab, Inc.

Weather Conditions

Temp: 73 °F Wind Direction: ☐ N ☐ S ☐ E ☑ SE ☐ SW ☐ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy Sky: ☐ Clear ☑ Partly Cloudy ☐ Cloudy

Well Observations

			Yes	No
Well Pad	Good	**Locks**		
Casing	Good	Protective Casing		X
Protective Casing	Good	Well		X
Reference Mark/Identification	Yes			

Groundwater Level Measurements

Date/Time Measured: 4/24/2025 9:31

Static Water Level: 27.13 feet below TOC

Total Depth: 58.56 feet below TOC

Water Column: 31.43 feet

Purging Activities

Purged By: BG Purge Date: 4/24/2025

Purge Method: Peristaltic Pump Well Diameter: 2"

Purge Volume Calculation (L): 31.43 ft. x 0.022 = 0.69 L x 3 Vol. = 2.07 L **Based on Low-Flow (3/8" discharge)*

Actual Purge Volume (L): 7.50 L

Physical appearance of purge water: Clear Odor: Slight Color: None

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
10:19	0.0	441	purge start time						
10:24	2.2	↓	6.64	1,513.80	13.75	0.61	-127.80	14.06	
10:27	3.5		6.64	1,511.60	13.82	0.51	-132.50	15.64	
10:30	4.9		6.64	1,508.70	13.83	0.45	-135.40	18.78	
10:33	6.2		6.64	1,506.00	13.85	0.42	-138.00	29.33	
10:36	7.5		6.65	1,503.40	13.89	0.39	-140.00	77.86	

Sampling Activities

Sampled By: PY Sample Date/Time: 4/24/2025 10:36

Sample Method: Low Flow Sample Equipment: Peristaltic Pump

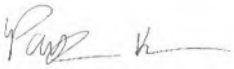
Sample Parameters: 6.65 pH 1,503.40 Spec. Cond. 13.89 Temp

Field Filtered: No Filter Type:

Water Level: 27.67 feet below TOC Drawdown: 0.54 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 45280

Form Completed By:  **Date:** 4/24/2025

Field Data Sheet

Project Name: FGDS Landfill
Project Location: Springfield, IL
W.O. Number (s): 25041334
Monitoring Point: G122
Sample ID: 005
Date (s): 4/24/2025

Field Team Members

Name: Brett Gillihan Affiliation: TekLab, Inc.
Name: Payton Yoch Affiliation: TekLab, Inc.

Weather Conditions

Temp: 68 °F Wind Direction: ☐ N ☐ S ☐ E ☑ SE ☐ SW ☐ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy Sky: ☐ Clear ☑ Partly Cloudy ☐ Cloudy

Well Observations

		Locks	Yes	No
Well Pad	Good			
Casing	Good	Protective Casing		X
Protective Casing	Good	Well		X
Reference Mark/Identification	Yes			

Groundwater Level Measurements

Date/Time Measured: 4/24/2025 9:28
Static Water Level: 28.79 feet below TOC
Total Depth: 49.29 feet below TOC
Water Column: 20.50 feet

Purging Activities

Purged By: BG Purge Date: 4/24/2025
Purge Method: Peristaltic Pump Well Diameter: 2"
Purge Volume Calculation (L): 20.5 ft. x 0.022 = 0.45 L x 3 Vol. = 1.35 L **Based on Low-Flow (3/8" discharge)*
Actual Purge Volume (L): 11.00 L
Physical appearance of purge water: Slightly cloudy Odor: None Color: None

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
9:39	0.0	458	purge start time						
9:51	5.5	↓	6.54	1,776.30	13.76	0.63	-124.80	37.94	
9:54	6.9		6.55	1,777.40	13.87	0.53	-127.80	41.97	
9:57	8.3		6.55	1,774.50	13.91	0.50	-129.50	45.09	
10:00	9.6		6.54	1,771.90	13.92	0.47	-130.40	48.42	
10:03	11.0		6.54	1,769.50	13.98	0.44	-131.40	52.50	

Sampling Activities

Sampled By: PY Sample Date/Time: 4/24/2025 10:03
Sample Method: Low Flow Sample Equipment: Peristaltic Pump
Sample Parameters: 6.54 pH 1,769.50 Spec. Cond. 13.98 Temp
Field Filtered: No Filter Type:
Water Level: 28.99 feet below TOC Drawdown: 0.20 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 45280

Form Completed By: Payton K **Date:** 4/24/2025

Site Samping Event: FGDS Landfill
LIMS Workorder: 25041334
Technician(s): JC, BG, PY

Field Calibration Log(s)
CWLP- 2Q 2025

Field Temp SOP 1156 - SM 2550 B
Field pH SOP 1152 - SW-846 9040B - SM 4500-H B
Field Cond. SOP 1155 - SW-846 9050A - SM 2510 B

Field Meter ID: Pine 210756 Technician(s): justin colp Date: 4/24/2025

pH Standards	LIMS ID	Calibration reading	Date/Time
4.0 Buffer	wc250102a	4.00	4/24/25 8:39
7.0 Buffer	wc240913b	7.00	4/24/25 8:34
10.0 Buffer	wc240625a	10.00	4/24/25 8:43
LCS/CCV (7.0 Buffer)	wc240913c		

Conductivity Standard	LIMS ID	Reading	Date/Time
1,412 µS Std.	103743	1412	4/24/25 8:50

Turbidity Standard	LIMS ID	Reading	Date/Time
0 NTU (DI Water)	1	0.13	4/24/25 8:51
124 NTU	95834		

ORP Standard	LIMS ID/Lot#	Reading	Date/Time

D.O. Saturation	LIMS ID/Lot#	Reading	Date/Time
100%	N/A		

Sample ID	Sample Type	Date/Time	Temp. °C	pH S.U.	Conductivity µS	Turbidity NTU	ORP mV	D.O. %
LCS-1-JC	LCS	4/24/25 8:53	19.2	7.03	1,396	0.15		
CCV-1-JC	CCV	4/24/25 10:54	24	7.06	1,388	0.07		

Comments:

Site Samping Event: FGDS Landfill
LIMS Workorder: 25041334
Technician(s): JC, BG, PY

Field Calibration Log(s)
CWLP- 2Q 2025

Field Temp SOP 1156 - SM 2550 B
Field pH SOP 1152 - SW-846 9040B - SM 4500-H B
Field Cond. SOP 1155 - SW-846 9050A - SM 2510 B

Field Meter ID: Pine 45280 Technician(s): Payton Yoch Date: 4/24/2025

pH Standards	LIMS ID	Calibration reading	Date/Time
4.0 Buffer	WC250102A	4.00	4/24/25 9:05
7.0 Buffer	WC240913B	7.00	4/24/25 9:04
10.0 Buffer	WC240625A	10.00	4/24/25 9:08
LCS/CCV (7.0 Buffer)	WC240913C		

Conductivity Standard	LIMS ID	Reading	Date/Time
1,412 µS Std.	10374	1412	4/24/25 9:11

Turbidity Standard	LIMS ID	Reading	Date/Time
0 NTU (DI Water)	1	0.34	4/24/25 9:15
124 NTU	95834		

ORP Standard	LIMS ID/Lot#	Reading	Date/Time

D.O. Saturation	LIMS ID/Lot#	Reading	Date/Time
100%	N/A		

Sample ID	Sample Type	Date/Time	Temp. °C	pH S.U.	Conductivity µS	Turbidity NTU	ORP mV	D.O. %
LCS-1-PY	LCS	4/24/25 9:16	20.3	7.07	1,412	0.34		
CCV-1-PY	CCV	4/24/25 10:44	20.9	7.07	1,426	0.43		

Comments:

July 03, 2025

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
Illinois	1004652024-2
Kansas	E-10438
Kansas	E-10374
Louisiana	05002
Louisiana	05003
Oklahoma	9978

RE: FGDS Landfill **WorkOrder:** 25051159

Dear Eric Staley:

TEKLAB, INC received 5 samples on 5/27/2025 3:35:00 PM 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

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

Report Contents

http://www.teklabinc.com/

Client: City Water, Light & Power
Client Project: FGDS Landfill

Work Order: 25051159
Report Date: 03-Jul-25

This reporting package includes the following:

Cover Letter	1
Report Contents	2
Definitions	3
Case Narrative	5
Accreditations	6
Laboratory Results	7
Receiving Check List	12
Chain of Custody	Appended

Client: City Water, Light & Power **Work Order:** 25051159

Client Project: FGDS Landfill **Report Date:** 03-Jul-25

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: 25051159
Client Project: FGDS Landfill
Report Date: 03-Jul-25

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
Client Project: FGDS Landfill

Work Order: 25051159
Report Date: 03-Jul-25

Cooler Receipt Temp: 4.5 °C

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

Radium-226 & -228 analysis was performed by Alliance Technical Group. 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

Springfield

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

Kansas City

Address 8421 Nieman Road
Lenexa, KS 66214
Phone (913) 541-1998
Fax (913) 541-1998
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

Chicago

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

Client: City Water, Light & Power
Work Order: 25051159
Client Project: FGDS Landfill
Report Date: 03-Jul-25

State	Dept	Cert #	NELAP	Exp Date	Lab
Illinois	IEPA	100226	NELAP	1/31/2026	Collinsville
Illinois	IEPA	1004652024-2	NELAP	4/30/2026	Collinsville
Kansas	KDHE	E-10438	NELAP	7/31/2026	Collinsville
Kansas	KDHE	E-10374	NELAP	4/30/2026	Collinsville
Louisiana	LDEQ	05002	NELAP	6/30/2026	Collinsville
Louisiana	LDEQ	05003	NELAP	6/30/2026	Collinsville
Oklahoma	ODEQ	9978	NELAP	8/31/2025	Collinsville
Arkansas	ADEQ	88-0966		3/14/2026	Collinsville
Illinois	IDPH	17584		5/31/2025	Collinsville
Iowa	IDNR	430		6/1/2026	Collinsville
Kentucky	KWLCP	KY98050		12/31/2025	Collinsville
Kentucky	KWLCP	KY98006		12/31/2025	Collinsville
Kentucky	UST	0073		1/31/2026	Collinsville
Mississippi	MSDH			4/30/2026	Collinsville
Missouri	MDNR	930		1/31/2028	Collinsville
Missouri	MDNR	00930		10/31/2026	Collinsville

Client: City Water, Light & Power **Work Order:** 25051159

Client Project: FGDS Landfill **Report Date:** 03-Jul-25

Lab ID: 25051159-001 **Client Sample ID:** R101

Matrix: GROUNDWATER **Collection Date:** 05/27/2025 10:46

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**511.53**	ft	1	05/27/2025 10:46	R365854
Depth to water	*	-5.00		**4.08**	ft	1	05/27/2025 10:46	R365854
Depth to water from measuring point	*	0		**6.88**	ft	1	05/27/2025 10:46	R365854
Elevation of groundwater surface	*	0		**539.92**	ft	1	05/27/2025 10:46	R365854
Measuring Point Elevation	*	0		**546.80**	ft	1	05/27/2025 10:46	R365854
Measuring Point Height Above Land Surface	*	0		**2.80**	ft	1	05/27/2025 10:46	R365854
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**10**	NTU	1	05/27/2025 10:46	R365854
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**54.9**	°F	1	05/27/2025 10:46	R365854
SW-846 9040B								
pH, Field	*	1.00		**6.79**		1	05/27/2025 10:46	R365854
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1330**	µmhos/cm @25C	1	05/27/2025 10:46	R365854
STANDARD METHODS 2540 C (TOTAL) 2020								
Total Dissolved Solids	NELAP	20		**902**	mg/L	1	06/02/2025 17:03	R365986
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	05/28/2025 12:35	R365685
Chloride	NELAP	5.00		**109**	mg/L	10	05/28/2025 12:35	R365685
Sulfate	NELAP	10.0		**272**	mg/L	10	05/28/2025 12:35	R365685
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.149**	mg/L	1	05/29/2025 19:17	239684
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	05/29/2025 19:17	239684
Boron	NELAP	0.0200		**0.116**	mg/L	1	06/02/2025 22:22	239684
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	05/29/2025 19:17	239684
Calcium	NELAP	0.100		**163**	mg/L	1	05/29/2025 19:17	239684
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	05/29/2025 19:17	239684
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	06/02/2025 22:22	239684
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	05/29/2025 19:17	239684
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	05/29/2025 19:17	239684
Contamination present in the CCB for Cr. Sample results below the reporting limit are reportable per the TNI Standard.								
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	05/28/2025 16:32	239684
Arsenic	NELAP	0.0010		**0.0011**	mg/L	5	05/28/2025 16:32	239684
Lithium	*	0.0030		**0.0194**	mg/L	5	05/28/2025 16:32	239684
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	05/28/2025 16:32	239684
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	05/28/2025 16:32	239684
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	05/29/2025 15:59	239734
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	07/02/2025 0:00	R367646
Radium-228	*	0		**See Attached**	pci/L	1	07/02/2025 0:00	R367646

Client: City Water, Light & Power **Work Order:** 25051159

Client Project: FGDS Landfill **Report Date:** 03-Jul-25

Lab ID: 25051159-002 **Client Sample ID:** G121

Matrix: GROUNDWATER **Collection Date:** 05/22/2025 11:43

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**497.04**	ft	1	05/22/2025 11:43	R365854
Depth to water	*	-5.00		**25.95**	ft	1	05/22/2025 11:43	R365854
Depth to water from measuring point	*	0		**27.82**	ft	1	05/22/2025 11:43	R365854
Elevation of groundwater surface	*	0		**527.78**	ft	1	05/22/2025 11:43	R365854
Measuring Point Elevation	*	0		**555.60**	ft	1	05/22/2025 11:43	R365854
Measuring Point Height Above Land Surface	*	0		**1.87**	ft	1	05/22/2025 11:43	R365854
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**22**	NTU	1	05/22/2025 11:43	R365854
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**57.9**	°F	1	05/22/2025 11:43	R365854
SW-846 9040B								
pH, Field	*	1.00		**6.79**		1	05/22/2025 11:43	R365854
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1560**	µmhos/cm @25C	1	05/22/2025 11:43	R365854
STANDARD METHODS 2540 C (TOTAL) 2020								
Total Dissolved Solids	NELAP	100		**1210**	mg/L	5	05/27/2025 16:01	R365834
Stability in final weights could not be achieved after multiple drying, cooling, and weighing cycles.								
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	05/23/2025 19:40	R365493
Chloride	NELAP	5.00		**29.9**	mg/L	10	05/23/2025 19:40	R365493
Sulfate	NELAP	10.0		**328**	mg/L	10	05/23/2025 19:40	R365493
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.641**	mg/L	1	05/30/2025 9:23	239588
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	05/30/2025 9:23	239588
Boron	NELAP	0.0200		**3.93**	mg/L	1	05/30/2025 9:23	239588
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	05/30/2025 9:23	239588
Calcium	NELAP	0.100		**185**	mg/L	1	05/30/2025 9:23	239588
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	05/30/2025 9:23	239588
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	05/30/2025 9:23	239588
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	05/30/2025 9:23	239588
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	05/30/2025 9:23	239588
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	05/27/2025 16:40	239588
Arsenic	NELAP	0.0010		**0.0180**	mg/L	5	05/27/2025 16:40	239588
Lithium	*	0.0030		**0.0070**	mg/L	5	05/27/2025 16:40	239588
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	05/27/2025 16:40	239588
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	05/27/2025 16:40	239588
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	05/27/2025 13:17	239623
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	07/02/2025 0:00	R367646
Radium-228	*	0		**See Attached**	pci/L	1	07/02/2025 0:00	R367646

Client: City Water, Light & Power
Work Order: 25051159
Client Project: FGDS Landfill
Report Date: 03-Jul-25
Lab ID: 25051159-003
Client Sample ID: G122
Matrix: GROUNDWATER
Collection Date: 05/22/2025 12:45

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**505.11**	ft	1	05/22/2025 12:45	R365854
Depth to water	*	-5.00		**28.01**	ft	1	05/22/2025 12:45	R365854
Depth to water from measuring point	*	0		**29.75**	ft	1	05/22/2025 12:45	R365854
Elevation of groundwater surface	*	0		**524.65**	ft	1	05/22/2025 12:45	R365854
Measuring Point Elevation	*	0		**554.40**	ft	1	05/22/2025 12:45	R365854
Measuring Point Height Above Land Surface	*	0		**1.74**	ft	1	05/22/2025 12:45	R365854
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**6.0**	NTU	1	05/22/2025 12:45	R365854
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**58.4**	°F	1	05/22/2025 12:45	R365854
SW-846 9040B								
pH, Field	*	1.00		**6.74**		1	05/22/2025 12:45	R365854
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1760**	µmhos/cm @25C	1	05/22/2025 12:45	R365854
STANDARD METHODS 2540 C (TOTAL) 2020								
Total Dissolved Solids	NELAP	200		**1480**	mg/L	10	05/27/2025 16:01	R365834
Stability in final weights could not be achieved after multiple drying, cooling, and weighing cycles.								
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	05/23/2025 19:51	R365493
Chloride	NELAP	5.00		**37.4**	mg/L	10	05/23/2025 19:51	R365493
Sulfate	NELAP	10.0		**526**	mg/L	10	05/23/2025 19:51	R365493
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.456**	mg/L	1	05/30/2025 9:24	239588
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	05/30/2025 9:24	239588
Boron	NELAP	0.0200		**11.1**	mg/L	1	05/30/2025 9:24	239588
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	05/30/2025 9:24	239588
Calcium	NELAP	0.100		**230**	mg/L	1	05/30/2025 9:24	239588
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	05/30/2025 9:24	239588
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	05/30/2025 9:24	239588
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	05/30/2025 9:24	239588
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	05/30/2025 9:24	239588
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	05/27/2025 16:46	239588
Arsenic	NELAP	0.0010		**0.0027**	mg/L	5	05/27/2025 16:46	239588
Lithium	*	0.0030		**0.0062**	mg/L	5	05/27/2025 16:46	239588
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	05/27/2025 16:46	239588
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	05/27/2025 16:46	239588
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	05/27/2025 13:19	239623
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	07/02/2025 0:00	R367646
Radium-228	*	0		**See Attached**	pci/L	1	07/02/2025 0:00	R367646

Client: City Water, Light & Power **Work Order:** 25051159

Client Project: FGDS Landfill **Report Date:** 03-Jul-25

Lab ID: 25051159-004 **Client Sample ID:** AW-2

Matrix: GROUNDWATER **Collection Date:** 05/22/2025 13:44

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**497.34**	ft	1	05/22/2025 13:44	R365854
Depth to water	*	-5.00		**1.62**	ft	1	05/22/2025 13:44	R365854
Depth to water from measuring point	*	0		**4.92**	ft	1	05/22/2025 13:44	R365854
Elevation of groundwater surface	*	0		**525.06**	ft	1	05/22/2025 13:44	R365854
Measuring Point Elevation	*	0		**529.98**	ft	1	05/22/2025 13:44	R365854
Measuring Point Height Above Land Surface	*	0		**3.30**	ft	1	05/22/2025 13:44	R365854
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**9.5**	NTU	1	05/22/2025 13:44	R365854
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**56.3**	°F	1	05/22/2025 13:44	R365854
SW-846 9040B								
pH, Field	*	1.00		**6.89**		1	05/22/2025 13:44	R365854
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1110**	µmhos/cm @25C	1	05/22/2025 13:44	R365854
STANDARD METHODS 2540 C (TOTAL) 2020								
Total Dissolved Solids	NELAP	100		**810**	mg/L	5	05/27/2025 16:01	R365834
Stability in final weights could not be achieved after multiple drying, cooling, and weighing cycles.								
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	05/23/2025 20:03	R365493
Chloride	NELAP	5.00		**29.5**	mg/L	10	05/23/2025 20:03	R365493
Sulfate	NELAP	10.0		**146**	mg/L	10	05/23/2025 20:03	R365493
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.647**	mg/L	1	05/30/2025 9:30	239588
Beryllium	NELAP	0.0005		**0.0006**	mg/L	1	05/30/2025 9:30	239588
Boron	NELAP	0.0200		**3.05**	mg/L	1	05/30/2025 9:30	239588
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	05/30/2025 9:30	239588
Calcium	NELAP	0.100		**148**	mg/L	1	05/30/2025 9:30	239588
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	05/30/2025 9:30	239588
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	05/30/2025 9:30	239588
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	05/30/2025 9:30	239588
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	05/30/2025 9:30	239588
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	05/27/2025 17:14	239588
Arsenic	NELAP	0.0010		**0.0166**	mg/L	5	05/27/2025 17:14	239588
Lithium	*	0.0030		**0.0062**	mg/L	5	05/27/2025 17:14	239588
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	05/27/2025 17:14	239588
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	05/27/2025 17:14	239588
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	05/27/2025 13:21	239623
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	07/02/2025 0:00	R367646
Radium-228	*	0		**See Attached**	pci/L	1	07/02/2025 0:00	R367646

Client: City Water, Light & Power **Work Order:** 25051159

Client Project: FGDS Landfill **Report Date:** 03-Jul-25

Lab ID: 25051159-005 **Client Sample ID:** P07D

Matrix: GROUNDWATER **Collection Date:** 05/27/2025 10:04

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**528.25**	ft	1	05/27/2025 10:04	R365854
Depth to water	*	-5.00		**2.31**	ft	1	05/27/2025 10:04	R365854
Depth to water from measuring point	*	0		**5.31**	ft	1	05/27/2025 10:04	R365854
Elevation of groundwater surface	*	0		**522.94**	ft	1	05/27/2025 10:04	R365854
Measuring Point Elevation	*	0		**528.25**	ft	1	05/27/2025 10:04	R365854
Measuring Point Height Above Land Surface	*	0		**3.00**	ft	1	05/27/2025 10:04	R365854
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**8.2**	NTU	1	05/27/2025 10:04	R365854
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**56.0**	°F	1	05/27/2025 10:04	R365854
SW-846 9040B								
pH, Field	*	1.00		**6.72**		1	05/27/2025 10:04	R365854
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1540**	µmhos/cm @25C	1	05/27/2025 10:04	R365854
STANDARD METHODS 2540 C (TOTAL) 2020								
Total Dissolved Solids	NELAP	20		**1110**	mg/L	1	06/02/2025 17:03	R365986
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	05/28/2025 12:47	R365685
Chloride	NELAP	5.00		**33.5**	mg/L	10	05/28/2025 12:47	R365685
Sulfate	NELAP	10.0		**307**	mg/L	10	05/28/2025 12:47	R365685
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.827**	mg/L	1	05/29/2025 19:18	239684
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	05/29/2025 19:18	239684
Boron	NELAP	0.0200		**5.28**	mg/L	1	05/29/2025 19:18	239684
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	05/29/2025 19:18	239684
Calcium	NELAP	0.100		**187**	mg/L	1	05/29/2025 19:18	239684
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	05/29/2025 19:18	239684
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	05/29/2025 19:18	239684
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	05/29/2025 19:18	239684
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	05/29/2025 19:18	239684
Sample result(s) for B exceed 10 times the CCB. Data is reportable per the TNI Standard.								
Contamination present in the CCB for Cr. Sample results below the reporting limit are reportable per the TNI Standard.								
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	05/28/2025 16:38	239684
Arsenic	NELAP	0.0010		**0.0324**	mg/L	5	05/28/2025 16:38	239684
Lithium	*	0.0030		**0.0099**	mg/L	5	05/28/2025 16:38	239684
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	05/28/2025 16:38	239684
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	05/28/2025 16:38	239684
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	05/29/2025 16:02	239734
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	07/02/2025 0:00	R367646
Radium-228	*	0		**See Attached**	pci/L	1	07/02/2025 0:00	R367646

Receiving Check List

http://www.teklabinc.com/

Client: City Water, Light & Power
Client Project: FGDS Landfill

Work Order: 25051159
Report Date: 03-Jul-25

Carrier: Daniel Crump
Received By: JMD

Completed by: Laura E Henson
On: 23-May-25

Reviewed by: Ellie Hopkins
On: 27-May-25

Pages to follow: Chain of custody 2 Extra pages included 23

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐	Temp °C 4.5
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 #101358. -JD/ lhenson - 5/23/2025 11:44:59 AM

Samples were received on 5/27/25 at 1535 on ice [13.1C - LTG#5]. Additional Nitric Acid (103505) was needed upon arrival at the laboratory for P07D. pH strip #101358. - EK/amberdilallo - 5/27/2025 4:06:13 PM

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CHAIN OF CUSTODY

Pg 1 of 1 Workorder # 2505 1159

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

Client: City Water, Light & Power
Address: 3100 Stevenson Drive, 2nd Floor Maintenance Building
City/State/Zip: Springfield IL 62712
Contact: Eric Staley Phone: (217) 757-8610
Email: eric.staley@cwlp.com Fax:

Samples on: [X] ICE [ ] BLUE ICE [ ] NO ICE 4.5 °C #9
Preserved in: [ ] LAB [X] FIELD
LAB NOTES: 101358

FOR LAB USE ONLY

JD 5/23/25

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:
*elevations, pH, conductivity, temperature
**Sb As Se Li Tl (ICPMS) Ba Be B Cd Ca Cr Co Pb Hg Mo

PROJECT NAME/NUMBER
FGDS Landfill

SAMPLE COLLECTOR'S NAME

RESULTS REQUESTED
[✓] Standard [ ] 1-2 Day (100% Surcharge)
[ ] Other _____ [ ] 3 Day (50% Surcharge)

BILLING INSTRUCTIONS

Lab Use Only	Sample ID	Date/Time Sampled	Matrix	# and Type of Containers: UNP	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	TSP	Other	INDICATE ANALYSIS REQUESTED: Field parameters*	Cl F SO4 TDS (T)	Metals (T)**	Radium-226	Radium-228	Field Turbidity
2505 1159 001	R101		Groundwater	1	3								✓	✓	✓	✓	✓	✓
002	G121	5/22/25 1143	Groundwater	1	3								✓	✓	✓	✓	✓	✓
003	G122	5/22/25 1245	Groundwater	1	3								✓	✓	✓	✓	✓	✓
004	AW-2	5/22/25 1344	Groundwater	1	3								✓	✓	✓	✓	✓	✓
005	P07D		Groundwater	1	3								✓	✓	✓	✓	✓	✓
			Groundwater															
			Groundwater															
			Groundwater															
			Groundwater															
			Groundwater															
			Groundwater															

Relinquished By	Date/Time	Received By	Date/Time
	5-22/1545	Jacob Dyer	5/22/25 13:45

*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

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CHAIN OF CUSTODY

Pg 1 of 1 Workorder # 25051159

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

Client: City Water, Light & Power
Address: 3100 Stevenson Drive, 2nd Floor Maintenance Building
City/State/Zip: Springfield IL 62712
Contact: Eric Staley Phone: (217) 757-8610
Email: eric.staley@cwlp.com Fax:

Samples on: [x] ICE [ ] BLUE ICE [ ] NO ICE 13.1 °C 5
Preserved in: [x] LAB [ ] FIELD FOR LAB USE ONLY
LAB NOTES: pH✓ 101358 Added HNO3 (103505) to both 1 liter P07D samples. EK 5/27/25

Client Comments:
*elevations, pH, conductivity, temperature
**Sb As Se Li Tl (ICPMS) Ba Be B Cd Ca Cr Co Pb Hg Mo

Are these samples known to be involved in litigation? If yes, a surcharge will apply: [ ] Yes [x] No
Are these samples known to be hazardous? [ ] Yes [x] No
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section: [x] Yes [ ] No Permit on file

PROJECT NAME/NUMBER: FGDS Landfill
SAMPLE COLLECTOR'S NAME: Justin Colp

RESULTS REQUESTED: [x] Standard [ ] 1-2 Day (100% Surcharge) [ ] Other _____ [ ] 3 Day (50% Surcharge)
BILLING INSTRUCTIONS:

Lab Use Only	Sample ID	Date/Time Sampled	Matrix	# and Type of Containers: UNP	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	TSP	Other	INDICATE ANALYSIS REQUESTED: Field parameters*	Cl F SO4 TDS (T)	Metals (T)**	Radium-226	Radium-228	Field Turbidity
25051159-001	R101	5-27-25 1046	Groundwater	1	2								✓	✓	✓	✓	✓	✓
002	G121		Groundwater	1	2								✓	✓	✓	✓	✓	✓
003	G122		Groundwater	1	2								✓	✓	✓	✓	✓	✓
004	AW-2		Groundwater	1	2								✓	✓	✓	✓	✓	✓
005	P07D	5-27-25 1004	Groundwater	1	2								✓	✓	✓	✓	✓	✓
			Groundwater															
			Groundwater															
			Groundwater															
			Groundwater															
			Groundwater															
			Groundwater															

Relinquished By	Date/Time	Received By	Date/Time
	5-27 /535	Emily Kossakoski	5/27/25 @ 1535

*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

Field Data Sheet

Project Name: FGDS Landfill
Project Location: Springfield, IL
W.O. Number (s): 25051159
Monitoring Point: R101
Sample ID: 001
Date (s): 5/27/2025

Field Team Members

Name: Justin Colp Affiliation: TekLab, Inc.
Name: Affiliation:

Weather Conditions

Temp: 62 °F Wind Direction: ☐ N ☐ S ☐ E ☐ SE ☑ SW ☐ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy Sky: ☐ Clear ☐ Partly Cloudy ☑ Cloudy

Well Observations

			Yes	No
Well Pad	Good	**Locks**		
Casing	Good	Protective Casing		X
Protective Casing	Good	Well		X
Reference Mark/Identification	Yes			

Groundwater Level Measurements

Date/Time Measured: 5/27/2025 10:17
Static Water Level: 6.88 feet below TOC
Total Depth: 35.27 feet below TOC
Water Column: 28.39 feet

Purging Activities

Purged By: JC Purge Date: 5/27/2025
Purge Method: Peristaltic Pump Well Diameter: 2"
Purge Volume Calculation (L): 28.39 ft. x 0.022 = 0.62 L x 3 Vol. = 1.86 L **Based on Low-Flow (3/8" discharge)*
Actual Purge Volume (L): 7.00 L
Physical appearance of purge water: Clear Odor: None Color: none

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
10:18	0.0	250	purge start time						
10:25	1.7	↓	6.96	1,328.90	12.73	5.18	88.40	11.76	
10:28	2.5		6.90	1,328.50	12.68	4.72	88.50	9.21	
10:31	3.2		6.86	1,329.10	12.65	4.39	88.30	6.05	
10:34	4.0		6.83	1,329.90	12.65	4.13	88.30	6.27	
10:37	4.8		6.82	1,329.90	12.66	3.93	88.00	6.82	
10:40	5.5		6.81	1,330.10	12.65	3.77	87.70	8.03	
10:43	6.3		6.80	1,329.60	12.66	3.64	87.40	9.04	
10:46	7.0		6.79	1,330.40	12.72	3.53	87.30	10.24	

Sampling Activities

Sampled By: JC Sample Date/Time: 5/27/2025 10:46
Sample Method: Low Flow Sample Equipment: Peristaltic Pump
Sample Parameters: 6.79 pH 1,330.40 Spec. Cond. 12.72 Temp
Field Filtered: Yes Filter Type: Inline Disposable
Water Level: 10.17 feet below TOC Drawdown: 3.29 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 210760

Form Completed By: Justin Colp **Date:** 5/27/2025

Field Data Sheet

Project Name:	FGDS Landfill	**Monitoring Point:**	G121
Project Location:	Springfield, IL	**Sample ID:**	002
W.O. Number (s):	25051159	**Date (s):**	5/22/2025

Field Team Members

Name: Payton Yoch Affiliation: TekLab, Inc.

Name: Justin Colp Affiliation: TekLab, Inc.

Weather Conditions

Temp: 57 °F Wind Direction: ☐ N ☐ S ☐ E ☐ SE ☐ SW ☐ NE ☑ NW

Precipitation: ☑ None ☐ Light ☐ Heavy Sky: ☐ Clear ☐ Partly Cloudy ☑ Cloudy

Well Observations

			Yes	No
Well Pad	Good	**Locks**		
Casing	Good	Protective Casing		X
Protective Casing	Good	Well		X
Reference Mark/Identification	Yes			

Groundwater Level Measurements

Date/Time Measured: 5/22/2025 10:57

Static Water Level: 27.82 feet below TOC

Total Depth: 58.56 feet below TOC

Water Column: 30.74 feet

Purging Activities

Purged By: PY Purge Date: 5/22/2025

Purge Method: Peristaltic Pump Well Diameter: 2"

Purge Volume Calculation (L): 30.74 ft. x 0.022 = 0.68 L x 3 Vol. = 2.04 L **Based on Low-Flow (3/8" discharge)*

Actual Purge Volume (L): 6.00 L

Physical appearance of purge water: Slightly cloudy Odor: Moderate Color: none

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
11:16	0.0	222	purge start time						
11:31	3.3	↓	6.81	1,556.30	14.05	4.51	87.60	43.15	
11:34	4.0		6.80	1,555.90	14.11	4.21	89.10	41.96	
11:37	4.7		6.79	1,555.10	14.17	3.96	90.20	31.18	
11:40	5.3		6.79	1,557.20	14.34	3.75	90.90	26.58	
11:43	6.0		6.79	1,555.80	14.37	3.60	91.20	21.79	

Sampling Activities

Sampled By: PY Sample Date/Time: 5/22/2025 11:43

Sample Method: Low Flow Sample Equipment: Peristaltic Pump

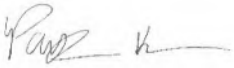
Sample Parameters: 6.79 pH 1,555.80 Spec. Cond. 14.37 Temp

Field Filtered: Yes Filter Type: Inline Disposable

Water Level: 28.12 feet below TOC Drawdown: 0.30 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 210760

Form Completed By:  **Date:** 5/22/2025

Field Data Sheet

Project Name: FGDS Landfill
Project Location: Springfield, IL
W.O. Number (s): 25051159
Monitoring Point: G122
Sample ID: 003
Date (s): 5/22/2025

Field Team Members

Name: Payton Yoch Affiliation: TekLab, Inc.
Name: Justin Colp Affiliation: TekLab, Inc.

Weather Conditions

Temp: 58 °F Wind Direction: ☐ N ☐ S ☐ E ☐ SE ☐ SW ☐ NE ☑ NW

Precipitation: ☑ None ☐ Light ☐ Heavy Sky: ☐ Clear ☐ Partly Cloudy ☑ Cloudy

Well Observations

		Locks	Yes	No
Well Pad	Good	Protective Casing		X
Casing	Good	Well		X
Protective Casing	Good			
Reference Mark/Identification	Yes			

Groundwater Level Measurements

Date/Time Measured: 5/22/2025 12:12
Static Water Level: 29.75 feet below TOC
Total Depth: 49.29 feet below TOC
Water Column: 19.54 feet

Purging Activities

Purged By: PY Purge Date: 5/22/2025
Purge Method: Peristaltic Pump Well Diameter: 2"
Purge Volume Calculation (L): 19.54 ft. x 0.022 = 0.43 L x 3 Vol. = 1.29 L **Based on Low-Flow (3/8" discharge)*
Actual Purge Volume (L): 5.00 L
Physical appearance of purge water: Slightly cloudy Odor: Moderate Color: None

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
12:19	0.0	192	purge start time						
12:33	2.7	↓	6.79	1,744.90	16.43	6.07	100.00	10.46	
12:36	3.3		6.77	1,747.10	15.80	6.06	100.80	8.54	
12:39	3.8		6.76	1,752.30	15.16	6.06	101.40	6.78	
12:42	4.4		6.75	1,756.80	14.80	6.04	101.50	6.16	
12:45	5.0		6.74	1,760.80	14.69	6.03	101.20	6.00	

Sampling Activities

Sampled By: PY Sample Date/Time: 5/22/2025 12:45
Sample Method: Low Flow Sample Equipment: Peristaltic Pump
Sample Parameters: 6.74 pH 1,760.80 Spec. Cond. 14.69 Temp
Field Filtered: Yes Filter Type: Inline Disposable
Water Level: 29.78 feet below TOC Drawdown: 0.03 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 210760

Form Completed By: Payton K **Date:** 5/22/2025

Field Data Sheet

Project Name: FGDS Landfill
Project Location: Springfield, IL
W.O. Number (s): 25051159
Monitoring Point: AW-2
Sample ID: 004
Date (s): 5/22/2025

Field Team Members

Name: Payton Yoch Affiliation: TekLab, Inc.
Name: Justin Colp Affiliation: TekLab, Inc.

Weather Conditions

Temp: 59 °F Wind Direction: ☐ N ☐ S ☐ E ☐ SE ☐ SW ☐ NE ☑ NW

Precipitation: ☑ None ☐ Light ☐ Heavy Sky: ☐ Clear ☐ Partly Cloudy ☑ Cloudy

Well Observations

		Locks	Yes	No
Well Pad	Good	Protective Casing		X
Casing	Good	Well		X
Protective Casing	Good			
Reference Mark/Identification	Yes			

Groundwater Level Measurements

Date/Time Measured: 5/22/2025 13:23
Static Water Level: 4.92 feet below TOC
Total Depth: 32.64 feet below TOC
Water Column: 27.72 feet

Purging Activities

Purged By: PY Purge Date: 5/22/2025
Purge Method: Peristaltic Pump Well Diameter: 2"
Purge Volume Calculation (L): 27.72 ft. x 0.022 = 0.61 L x 3 Vol. = 1.83 L **Based on Low-Flow (3/8" discharge)*
Actual Purge Volume (L): 6.00 L
Physical appearance of purge water: Clear Odor: Slight Color: None

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
13:20	0.0	250	purge start time						
13:32	3.0	↓	6.92	1,111.00	13.52	4.93	91.00	8.14	
13:35	3.8		6.90	1,110.90	13.53	4.50	91.70	8.53	
13:38	4.5		6.90	1,110.60	13.55	4.17	92.00	8.27	
13:41	5.3		6.89	1,110.80	13.51	3.92	92.10	8.36	
13:44	6.0		6.89	1,110.70	13.52	3.71	91.90	9.46	

Sampling Activities

Sampled By: PY Sample Date/Time: 5/22/2025 13:44
Sample Method: Low Flow Sample Equipment: Peristaltic Pump
Sample Parameters: 6.89 pH 1,110.70 Spec. Cond. 13.52 Temp
Field Filtered: Yes Filter Type: Inline Disposable
Water Level: 5.05 feet below TOC Drawdown: 0.13 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 210760

Form Completed By: Payton K **Date:** 5/22/2025

Field Data Sheet

Project Name:	FGDS Landfill	**Monitoring Point:**	P07D
Project Location:	Springfield, IL	**Sample ID:**	005
W.O. Number (s):	25051159	**Date (s):**	5/27/2025

Field Team Members

Name: Justin Colp — Affiliation: TekLab, Inc.

Name: — Affiliation:

Weather Conditions

Temp: 60 °F — Wind Direction: ☐ N ☐ S ☐ E ☐ SE ☑ SW ☐ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy — Sky: ☐ Clear ☐ Partly Cloudy ☑ Cloudy

Well Observations

		Locks	Yes	No
Well Pad	Good			
Casing	Good	Protective Casing		X
Protective Casing	Good	Well		X
Reference Mark/Identification	Yes			

Groundwater Level Measurements

Date/Time Measured: 5/27/2025 9:24

Static Water Level: 5.31 feet below TOC

Total Depth: 32.54 feet below TOC

Water Column: 27.23 feet

Purging Activities

Purged By: JC — Purge Date: 5/27/2025

Purge Method: Peristaltic Pump — Well Diameter: 2"

Purge Volume Calculation (L): 27.23 ft. x 0.022 = 0.6 L x 3 Vol. = 1.8 L **Based on Low-Flow (3/8" discharge)*

Actual Purge Volume (L): 5.00 L

Physical appearance of purge water: Clear — Odor: None — Color: none

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
9:24	0.0	125	purge start time						
9:31	0.9	↓	6.74	1,512.10	13.29	6.24	84.60	141.77	
9:34	1.3		6.68	1,532.30	13.26	5.52	86.50	94.37	
9:37	1.6		6.67	1,537.60	13.25	5.00	87.50	66.78	
9:40	2.0		6.67	1,539.00	13.18	4.60	88.00	40.75	
9:43	2.4		6.68	1,538.70	13.18	4.29	88.30	31.60	
9:46	2.8		6.68	1,539.00	13.19	4.04	88.60	23.85	
9:49	3.1		6.69	1,538.00	13.18	3.83	88.90	16.62	
9:52	3.5		6.70	1,538.40	13.18	3.65	89.20	12.54	
9:55	3.9		6.71	1,538.40	13.25	3.50	89.40	11.54	
9:58	4.3		6.71	1,538.30	13.26	3.39	89.60	9.94	
10:01	4.6		6.72	1,537.50	13.34	3.28	89.80	9.82	
10:04	5.0		6.72	1,538.40	13.36	3.19	89.90	8.15	

Sampling Activities

Sampled By: JC — Sample Date/Time: 5/27/2025 10:04

Sample Method: Low Flow — Sample Equipment: Peristaltic Pump

Sample Parameters: 6.72 pH — 1,538.40 Spec. Cond. — 13.36 Temp

Field Filtered: No — Filter Type:

Water Level: 5.50 feet below TOC — Drawdown: 0.19 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 44716

Form Completed By: Justin Colp — **Date:** 5/27/2025

Site Samping Event: FGDS Landfill
LIMS Workorder: 25051159
Technician(s): DC, JC, BG, PY

Field Calibration Log(s)
CWLP- 2Q 2025

Field Temp SOP 1156 - SM 2550 B
Field pH SOP 1152 - SW-846 9040B - SM 4500-H B
Field Cond. SOP 1155 - SW-846 9050A - SM 2510 B

Field Meter ID: Pine 44716 Technician(s): Brett Gillihan Date: 5/27/2025

pH Standards	LIMS ID	Calibration reading	Date/Time
4.0 Buffer	WC250102A	4.00	5/27/25 8:17
7.0 Buffer	WC25047A	7.00	5/27/25 8:10
10.0 Buffer	WC240625A	10.00	5/27/25 8:26
LCS/CCV (7.0 Buffer)	WC240918A		

Conductivity Standard	LIMS ID	Reading	Date/Time
1,412 µS Std.	103743	1413	5/27/25 8:36

Turbidity Standard	LIMS ID	Reading	Date/Time
0 NTU (DI Water)	1	0.23	5/27/25 8:43
124 NTU	95834		

ORP Standard	LIMS ID/Lot#	Reading	Date/Time

D.O. Saturation	LIMS ID/Lot#	Reading	Date/Time
100%	N/A		

Sample ID	Sample Type	Date/Time	Temp. °C	pH S.U.	Conductivity µS	Turbidity NTU	ORP mV	D.O. %
LCS-3-BG	LCS	5/27/25 8:48	16.9	7.05	1,443	0.42		
CCV-3-BG	CCV	5/27/25 14:12	18.6	7.03	1,464	0.54		

Comments:

Site Samping Event: FGDS Landfill
LIMS Workorder: 25051159
Technician(s): DC, JC, BG, PY

Field Calibration Log(s)
CWLP- 2Q 2025

Field Temp SOP 1156 - SM 2550 B
Field pH SOP 1152 - SW-846 9040B - SM 4500-H B
Field Cond. SOP 1155 - SW-846 9050A - SM 2510 B

Field Meter ID: Pine 210760 Technician(s): justin colp Date: 5/21/2025

pH Standards	LIMS ID	Calibration reading	Date/Time
4.0 Buffer	wc250102a	4.00	5/21/25 9:19
7.0 Buffer	wc250407a	7.00	5/21/25 9:14
10.0 Buffer	wc240625a	10.00	5/21/25 9:24
LCS/CCV (7.0 Buffer)	wc240918a		

Conductivity Standard	LIMS ID	Reading	Date/Time
1,412 µS Std.	103743	1412	5/21/25 9:29

Turbidity Standard	LIMS ID	Reading	Date/Time
0 NTU (DI Water)	1	1.12	5/21/25 9:30
124 NTU	95834		

ORP Standard	LIMS ID/Lot#	Reading	Date/Time

D.O. Saturation	LIMS ID/Lot#	Reading	Date/Time
100%	N/A		

Sample ID	Sample Type	Date/Time	Temp. °C	pH S.U.	Conductivity µS	Turbidity NTU	ORP mV	D.O. %
LCS-1-JC	LCS	5/21/25 9:34	18.9	6.98	1,410	1.08		
CCV-1-JC	CCV	5/21/25 14:37	20	6.96	1,434	1.05		

Comments:

Field Meter ID: Pine 210760 Technician(s): Payton Yoch Date: 5/22/2025

pH Standards	LIMS ID	Calibration reading	Date/Time
4.0 Buffer	WC250102A	4.00	5/22/25 9:14
7.0 Buffer	WC250407A	7.00	5/22/25 9:09
10.0 Buffer	WC240625A	10.00	5/22/25 9:20
LCS/CCV (7.0 Buffer)	WC240918A		

Conductivity Standard	LIMS ID	Reading	Date/Time
1,412 µS Std.	103743	1412	5/22/25 9:23

Turbidity Standard	LIMS ID	Reading	Date/Time
0 NTU (DI Water)	1	1.07	5/22/25 9:31
124 NTU	95834		

ORP Standard	LIMS ID/Lot#	Reading	Date/Time

D.O. Saturation	LIMS ID/Lot#	Reading	Date/Time
100%	N/A		

Sample ID	Sample Type	Date/Time	Temp. °C	pH S.U.	Conductivity µS	Turbidity NTU	ORP mV	D.O. %
LCS-2-PY	LCS	5/22/25 9:38	17.3	7.05	1,412	1.07		
CCV-2-PY	CCV	5/22/25 14:14	18.5	6.98	1,415	1.08		

Comments:

Site Samping Event: FGDS Landfill
LIMS Workorder: 25051159
Technician(s): DC, JC, BG, PY

Field Calibration Log(s)
CWLP- 2Q 2025

Field Temp SOP 1156 - SM 2550 B
Field pH SOP 1152 - SW-846 9040B - SM 4500-H B
Field Cond. SOP 1155 - SW-846 9050A - SM 2510 B

Field Meter ID: Pine 210760 Technician(s): justin colp Date: 5/27/2025

pH Standards	LIMS ID	Calibration reading	Date/Time
4.0 Buffer	WC250102A	4.00	5/27/25 8:56
7.0 Buffer	WC250407A	7.00	5/27/25 8:50
10.0 Buffer	WC240625A	10.00	5/27/25 9:01
LCS/CCV (7.0 Buffer)	WC240918A		

Conductivity Standard	LIMS ID	Reading	Date/Time
1,412 µS Std.	103743	1412	5/27/25 9:07

Turbidity Standard	LIMS ID	Reading	Date/Time
0 NTU (DI Water)	1	1.21	5/27/25 9:08
124 NTU	95834		

ORP Standard	LIMS ID/Lot#	Reading	Date/Time

D.O. Saturation	LIMS ID/Lot#	Reading	Date/Time
100%	N/A		

Sample ID	Sample Type	Date/Time	Temp. °C	pH S.U.	Conductivity µS	Turbidity NTU	ORP mV	D.O. %
LCS-3-JC	LCS	5/27/25 9:11	19.2	6.96	1,407	1.24		
CCV-3-JC	CCV	5/27/25 14:15	21.9	7.02	1,404	1.31		

Comments:

Field Meter ID: Pine 210760 Technician(s): justin colp Date: 5/28/2025

pH Standards	LIMS ID	Calibration reading	Date/Time
4.0 Buffer	WC250102A	4.00	5/28/25 8:47
7.0 Buffer	WC250407A	7.00	5/28/25 8:43
10.0 Buffer	WC240625A	10.00	5/28/25 8:51
LCS/CCV (7.0 Buffer)	WC240918A		

Conductivity Standard	LIMS ID	Reading	Date/Time
1,412 µS Std.	103743	1412	5/28/25 8:57

Turbidity Standard	LIMS ID	Reading	Date/Time
0 NTU (DI Water)	1	1.12	5/28/25 8:58
124 NTU	95834		

ORP Standard	LIMS ID/Lot#	Reading	Date/Time

D.O. Saturation	LIMS ID/Lot#	Reading	Date/Time
100%	N/A		

Sample ID	Sample Type	Date/Time	Temp. °C	pH S.U.	Conductivity µS	Turbidity NTU	ORP mV	D.O. %
LCS-4-JC	LCS	5/28/25 9:03	20.5	6.97	1,409	1.16		
CCV-4-JC	CCV	5/28/25 12:20	20.8	6.93	1,400	1.57		

Comments:

Alliance Technical Group - Akron
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Website: http://www.settek.com

July 03, 2025

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

RE: 25051159

Dear Shelly Hennessy: Order No.: 25060784

Alliance Technical Group - Akron received 5 sample(s) on 6/5/2025 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

Alliance Technical Group - Akron
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

Case Narrative

WO#: **25060784**
Date: **7/3/2025**

CLIENT: TEKLAB Inc,
Project: 25051159

WorkOrder Narrative:
25060784: 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 Alliance Technical Group Work Order Number assigned to this report.

Alliance Technical Group 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 Alliance Technical Group and that of the customer. It cannot be reproduced in any form without the consent of Alliance Technical Group 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. Alliance Technical Group 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 Sequence QC Notes:
LCS/LCSD-85386 Radium-228_DW(904.0): LCS and LCSD have RPD higher than criteria allows. Individually LCS and LCSD meet criteria.

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Qualifiers and Acronyms

WO#: **25060784**
Date: **7/3/2025**

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.

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Workorder Sample Summary

WO#: **25060784**
03-Jul-25

CLIENT: TEKLAB Inc,
Project: 25051159

Lab SampleID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
25060784-001	25051159-001		5/27/2025 10:46:00 AM	6/5/2025 10:45:00 AM	Non-Potable Water
25060784-002	25051159-002		5/22/2025 11:43:00 AM	6/5/2025 10:45:00 AM	Non-Potable Water
25060784-003	25051159-003		5/22/2025 12:45:00 PM	6/5/2025 10:45:00 AM	Non-Potable Water
25060784-004	25051159-004		5/22/2025 1:44:00 PM	6/5/2025 10:45:00 AM	Non-Potable Water
25060784-005	25051159-005		5/27/2025 10:04:00 AM	6/5/2025 10:45:00 AM	Non-Potable Water

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DATES REPORT

WO#: **25060784**

03-Jul-25

Client: TEKLAB Inc,
Project: 25051159

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
25060784-001A	25051159-001	5/27/2025 10:46:00 AM	Non-Potable Water	Radium-226 (EPA 903.0)		6/27/2025 1:06:00 PM	7/3/2025 11:23:00 AM
				Radium-228 (EPA 904.0)		6/27/2025 1:06:00 PM	7/2/2025 2:54:00 PM
25060784-002A	25051159-002	5/22/2025 11:43:00 AM		Radium-226 (EPA 903.0)		6/27/2025 1:06:00 PM	7/3/2025 11:23:00 AM
				Radium-228 (EPA 904.0)		6/27/2025 1:06:00 PM	7/2/2025 2:54:00 PM
25060784-003A	25051159-003	5/22/2025 12:45:00 PM		Radium-226 (EPA 903.0)		6/27/2025 1:06:00 PM	7/3/2025 11:23:00 AM
				Radium-228 (EPA 904.0)		6/27/2025 1:06:00 PM	7/2/2025 2:54:00 PM
25060784-004A	25051159-004	5/22/2025 1:44:00 PM		Radium-226 (EPA 903.0)		6/27/2025 1:06:00 PM	7/3/2025 11:23:00 AM
				Radium-228 (EPA 904.0)		6/27/2025 1:06:00 PM	7/2/2025 2:54:00 PM
25060784-005A	25051159-005	5/27/2025 10:04:00 AM		Radium-226 (EPA 903.0)		6/27/2025 1:06:00 PM	7/3/2025 11:23:00 AM
				Radium-228 (EPA 904.0)		6/27/2025 1:06:00 PM	7/2/2025 2:54:00 PM

Original

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Analytical Report

(consolidated)

WO#: **25060784**

Date Reported: **7/3/2025**

CLIENT: TEKLAB Inc,
Project: 25051159
Lab ID: 25060784-001
Client Sample ID: 25051159-001

Collection Date: 5/27/2025 10:46:00 AM
Matrix: NON-POTABLE WATER

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **SEE**
Radium-226	ND	1.00		pCi/L	± 0.160	1	7/3/2025 11:23:00 AM
Yield	1.00					1	7/3/2025 11:23:00 AM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **SEE**
Radium-228	ND	1.00		pCi/L	± 0.410	1	7/2/2025 2:54:00 PM
Yield	1.00					1	7/2/2025 2:54:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
R	RPD outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode
M	Manual Integration used to determine area response
PL	Permit Limit
RL	Reporting Detection Limit

Original

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Analytical Report

(consolidated)

WO#: **25060784**

Date Reported: **7/3/2025**

CLIENT: TEKLAB Inc,
Project: 25051159
Lab ID: 25060784-002
Client Sample ID: 25051159-002

Collection Date: 5/22/2025 11:43:00 AM
Matrix: NON-POTABLE WATER

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **SEE**
Radium-226	ND	1.00		pCi/L	± 0.200	1	7/3/2025 11:23:00 AM
Yield	1.00					1	7/3/2025 11:23:00 AM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **SEE**
Radium-228	ND	1.00		pCi/L	± 0.480	1	7/2/2025 2:54:00 PM
Yield	1.00					1	7/2/2025 2:54:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
R	RPD outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode
M	Manual Integration used to determine area response
PL	Permit Limit
RL	Reporting Detection Limit

Original

Alliance Technical Group - Akron
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

Analytical Report

(consolidated)

WO#: **25060784**

Date Reported: **7/3/2025**

CLIENT: TEKLAB Inc,
Project: 25051159
Lab ID: 25060784-003
Client Sample ID: 25051159-003

Collection Date: 5/22/2025 12:45:00 PM
Matrix: NON-POTABLE WATER

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **SEE**
Radium-226	ND	1.00		pCi/L	± 0.170	1	7/3/2025 11:23:00 AM
Yield	1.00					1	7/3/2025 11:23:00 AM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **SEE**
Radium-228	ND	1.00		pCi/L	± 0.360	1	7/2/2025 2:54:00 PM
Yield	1.00					1	7/2/2025 2:54:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
R	RPD outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode
M	Manual Integration used to determine area response
PL	Permit Limit
RL	Reporting Detection Limit

Original

Alliance Technical Group - Akron
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

Analytical Report

(consolidated)

WO#: **25060784**

Date Reported: **7/3/2025**

CLIENT: TEKLAB Inc,
Project: 25051159
Lab ID: 25060784-004
Client Sample ID: 25051159-004

Collection Date: 5/22/2025 1:44:00 PM
Matrix: NON-POTABLE WATER

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **SEE**
Radium-226	ND	1.00		pCi/L	± 0.0800	1	7/3/2025 11:23:00 AM
Yield	1.00					1	7/3/2025 11:23:00 AM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **SEE**
Radium-228	ND	1.00		pCi/L	± 0.400	1	7/2/2025 2:54:00 PM
Yield	1.00					1	7/2/2025 2:54:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
R	RPD outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode
M	Manual Integration used to determine area response
PL	Permit Limit
RL	Reporting Detection Limit

Original

Alliance Technical Group - Akron
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

Analytical Report

(consolidated)

WO#: **25060784**

Date Reported: **7/3/2025**

CLIENT: TEKLAB Inc,
Project: 25051159
Lab ID: 25060784-005
Client Sample ID: 25051159-005

Collection Date: 5/27/2025 10:04:00 AM
Matrix: NON-POTABLE WATER

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
RADIUM-226 (EPA 903.0)					**E903.0**	**E903-904**	Analyst: **SEE**
Radium-226	ND	1.00		pCi/L	± 0.150	1	7/3/2025 11:23:00 AM
Yield	1.00					1	7/3/2025 11:23:00 AM
RADIUM-228 (EPA 904.0)					**E904.0**	**E903-904**	Analyst: **SEE**
Radium-228	1.22	1.00		pCi/L	± 0.550	1	7/2/2025 2:54:00 PM
Yield	1.00					1	7/2/2025 2:54:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
ND	Not Detected	PL	Permit Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode		

Original

Alliance Technical Group - Akron
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

QC SUMMARY REPORT

WO#: **25060784**

03-Jul-25

Client: TEKLAB Inc,
Project: 25051159 **BatchID:** **85386**

Sample ID: **MB-85386** SampType: **MBLK** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **6/27/2025** RunNo: **211904**
Client ID: **BatchQC** Batch ID: **85386** TestNo: **E904.0** **E903-904** Analysis Date: **7/2/2025** SeqNo: **5663980**

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	0.920			0	0						

Sample ID: **LCS-85386** SampType: **LCS** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **6/27/2025** RunNo: **211904**
Client ID: **BatchQC** Batch ID: **85386** TestNo: **E904.0** **E903-904** Analysis Date: **7/2/2025** SeqNo: **5663981**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	4.26	1.00	5.000	0	85.2	50	130				QLR
Yield	1.00			0	0						

Sample ID: **LCSD-85386** SampType: **LCSD** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **6/27/2025** RunNo: **211904**
Client ID: **BatchQC** Batch ID: **85386** TestNo: **E904.0** **E903-904** Analysis Date: **7/2/2025** SeqNo: **5663982**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	3.44	1.00	5.000	0	68.8	50	130	4.260	21.3	20	R
Yield	1.00			0	0			1.000	0		

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode				

Original

Alliance Technical Group - Akron
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

QC SUMMARY REPORT

WO#: **25060784**

03-Jul-25

Client: TEKLAB Inc,
Project: 25051159 **BatchID:** **85386**

Sample ID: **25060899-001ADUP** SampType: **DUP** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **6/27/2025** RunNo: **211904**
Client ID: **BatchQC** Batch ID: **85386** TestNo: **E904.0** **E903-904** Analysis Date: **7/2/2025** SeqNo: **5663987**

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	0.970			0	0			1.000	3.05		

Sample ID: **25060901-001ADUP** SampType: **DUP** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **6/27/2025** RunNo: **211904**
Client ID: **BatchQC** Batch ID: **85386** TestNo: **E904.0** **E903-904** Analysis Date: **7/2/2025** SeqNo: **5663989**

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:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode				

Original

Alliance Technical Group - Akron
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

QC SUMMARY REPORT

WO#: **25060784**
03-Jul-25

Client: TEKLAB Inc,
Project: 25051159 **BatchID:** **85386**

Sample ID: **MB-85386** SampType: **MBLK** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **6/27/2025** RunNo: **211911**
Client ID: **BatchQC** Batch ID: **85386** TestNo: **E903.0** **E903-904** Analysis Date: **7/3/2025** SeqNo: **5664038**

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-85386** SampType: **LCS** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **6/27/2025** RunNo: **211911**
Client ID: **BatchQC** Batch ID: **85386** TestNo: **E903.0** **E903-904** Analysis Date: **7/3/2025** SeqNo: **5664039**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	4.96	1.00	5.000	0	99.2	70	130				

Sample ID: **LCSD-85386** SampType: **LCSD** TestCode: **Radium-226_** Units: **pCi/L** Prep Date: **6/27/2025** RunNo: **211911**
Client ID: **BatchQC** Batch ID: **85386** TestNo: **E903.0** **E903-904** Analysis Date: **7/3/2025** SeqNo: **5664040**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	5.11	1.00	5.000	0	102	70	130	4.960	2.98	20	

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode				

Original

25060784

TEKLAB, INC. Chain of Custody

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

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

Teklab Inc
5445 Horseshoe Lake Road
Collinsville, IL 62234

20.1-0.1c

Fedex Cooler

Cooler Temp: 20.0 C

CS intact 6/4

Sampler: Client

QC Level: 2

Comments: **Please Issue reports and invoices via email only**
Please analyze for Radium 226/228 per your usual methods.
Any changes to analysis/methods must be approved by Teklab, Inc. Batch QC is required.
Samples collected from an IL site.

Project#: 25051159

Contact: Shelly Hennessy

Email: shennessy@TekLabInc.com

Requested Due Date: Standard TAT

Billing/PO: 38712

Phone: (618) 344-1004 ext. 36

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.

Lab Use	Sample ID	Sample Date/Time	Preservative	Matrix	Radium 226/228	CPM=	pH=
	25051159-001	5/27/25 1046	HNO3	Groundwater	✔	24,23	1,1
	25051159-002	5/22/25 1143	HNO3	Groundwater	✔	10,9	1,1
	25051159-003	5/22/25 1245	HNO3	Groundwater	✔	11,13	1,1
	25051159-004	5/22/25 1344	HNO3	Groundwater	✔	15 17	1,1
	25051159-005	5/27/25 1004	HNO3	Groundwater	✔	17 17	1,1
			Other	Aqueous			
			Other	Aqueous			
			Other	Aqueous			
			Other	Aqueous			
			Other	Aqueous			
			Other	Aqueous			

*Relinquished By	Date/Time	Received By	Date/Time
[signature]	6/4/25 1700	[signature]	6/5/25, 1045

SubCocRevA 3/2/2016

Alliance Technical Group - Akron
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

Sample Log-In Check List

Client Name: **TEK-IL-62234-A** Work Order Number: **25060784** RcptNo: **1**

Logged by:	**Christina N. Gemma**	**6/5/2025 10:45:00 AM**
Completed By:	**Tegan A. Richards**	**6/11/2025 2:33:32 PM**
Reviewed By:	**Jennifer Woolf**	**6/11/2025 7:12:50 PM**

Chain of Custody

1. Is Chain of Custody complete? Yes ☑ No ☐ Not Present ☐
2. How was the sample delivered? FedEx

Log In

3. Coolers are present? Yes ☑ No ☐ NA ☐
4. Shipping container/cooler in good condition? Yes ☑ No ☐
   Custody seals intact on shipping container/cooler? Yes ☑ No ☐ Not Present ☐
   No. Seal Date: 5/29/2025 Signed By:
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? Yes ☑ No ☐
    (Note discrepancies on chain of custody)
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? Yes ☑ No ☐
    (If no, notify customer for authorization.)

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 ºC	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	20.1	Good	Yes		6/4/2025	

September 10, 2025

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
Illinois	1004652024-2
Kansas	E-10438
Kansas	E-10374
Louisiana	05002
Louisiana	05003
Oklahoma	9978

RE: FGDS Landfill **WorkOrder:** 25080111

Dear Eric Staley:

TEKLAB, INC received 10 samples on 8/12/2025 3:40:00 PM 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

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

Report Contents

Client: City Water, Light & Power
Work Order: 25080111
Client Project: FGDS Landfill
Report Date: 10-Sep-25

This reporting package includes the following:

Cover Letter	1
Report Contents	2
Definitions	3
Case Narrative	5
Accreditations	6
Laboratory Results	7
Receiving Check List	17
Chain of Custody	Appended

Client: City Water, Light & Power **Work Order:** 25080111

Client Project: FGDS Landfill **Report Date:** 10-Sep-25

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)

Definitions

Client: City Water, Light & Power
Work Order: 25080111
Client Project: FGDS Landfill
Report Date: 10-Sep-25

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: 25080111
Client Project: FGDS Landfill
Report Date: 10-Sep-25

Cooler Receipt Temp: 11.1 °C

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

Radium-226 and Radium-228 analysis was performed by Alliance Technical Group. 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

Springfield

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

Kansas City

Address 8421 Nieman Road
Lenexa, KS 66214
Phone (913) 541-1998
Fax (913) 541-1998
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

Chicago

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

Client: City Water, Light & Power **Work Order:** 25080111

Client Project: FGDS Landfill **Report Date:** 10-Sep-25

State	Dept	Cert #	NELAP	Exp Date	Lab
Illinois	IEPA	100226	NELAP	1/31/2026	Collinsville
Illinois	IEPA	1004652024-2	NELAP	4/30/2026	Collinsville
Kansas	KDHE	E-10438	NELAP	7/31/2026	Collinsville
Kansas	KDHE	E-10374	NELAP	4/30/2026	Collinsville
Louisiana	LDEQ	05002	NELAP	6/30/2026	Collinsville
Louisiana	LDEQ	05003	NELAP	6/30/2026	Collinsville
Oklahoma	ODEQ	9978	NELAP	8/31/2025	Collinsville
Arkansas	ADEQ	88-0966		3/14/2026	Collinsville
Illinois	IDPH	17584		5/31/2025	Collinsville
Iowa	IDNR	430		6/1/2026	Collinsville
Kentucky	KWLCP	KY98050		12/31/2025	Collinsville
Kentucky	KWLCP	KY98006		12/31/2025	Collinsville
Kentucky	UST	0073		1/31/2026	Collinsville
Mississippi	MSDH			4/30/2026	Collinsville
Missouri	MDNR	930		1/31/2028	Collinsville
Missouri	MDNR	00930		10/31/2026	Collinsville

Client: City Water, Light & Power **Work Order:** 25080111

Client Project: FGDS Landfill **Report Date:** 10-Sep-25

Lab ID: 25080111-001 **Client Sample ID:** R101

Matrix: GROUNDWATER **Collection Date:** 08/11/2025 12:18

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**511.53**	ft	1	08/11/2025 12:18	R369784
Depth to water	*	-5.00		**4.69**	ft	1	08/11/2025 12:18	R369784
Depth to water from measuring point	*	0		**7.49**	ft	1	08/11/2025 12:18	R369784
Elevation of groundwater surface	*	0		**539.31**	ft	1	08/11/2025 12:18	R369784
Measuring Point Elevation	*	0		**546.80**	ft	1	08/11/2025 12:18	R369784
Measuring Point Height Above Land Surface	*	0		**2.80**	ft	1	08/11/2025 12:18	R369784
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**23**	NTU	1	08/11/2025 12:18	R369784
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**64.0**	°F	1	08/11/2025 12:18	R369784
SW-846 9040B								
pH, Field	*	1.00		**6.69**		1	08/11/2025 12:18	R369784
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**834**	µmhos/cm @25C	1	08/11/2025 12:18	R369784
STANDARD METHODS 2540 C (TOTAL) 2020								
Total Dissolved Solids	NELAP	20		**866**	mg/L	1	08/12/2025 15:23	R369703
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	08/12/2025 17:02	R369661
Chloride	NELAP	5.00		**105**	mg/L	10	08/12/2025 17:02	R369661
Sulfate	NELAP	10.0		**264**	mg/L	10	08/12/2025 17:02	R369661
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.0156**	mg/L	1	08/14/2025 17:31	243289
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	08/13/2025 19:16	243289
Boron	NELAP	0.0200		**0.127**	mg/L	1	08/13/2025 19:16	243289
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	08/13/2025 19:16	243289
Calcium	NELAP	0.100		**159**	mg/L	1	08/13/2025 19:16	243289
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	08/13/2025 19:16	243289
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	08/13/2025 19:16	243289
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	08/13/2025 19:16	243289
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	08/13/2025 19:16	243289
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	08/14/2025 3:08	243289
Arsenic	NELAP	0.0010		**< 0.0010**	mg/L	5	08/19/2025 12:02	243589
Lithium	*	0.0030		**0.0167**	mg/L	5	08/14/2025 3:08	243289
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	08/14/2025 3:08	243289
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	08/14/2025 3:08	243289
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	08/12/2025 16:17	243283
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	08/22/2025 0:00	R371072
Radium-228	*	0		**See Attached**	pci/L	1	08/22/2025 0:00	R371072

Client: City Water, Light & Power **Work Order:** 25080111

Client Project: FGDS Landfill **Report Date:** 10-Sep-25

Lab ID: 25080111-002 **Client Sample ID:** G121

Matrix: GROUNDWATER **Collection Date:** 08/11/2025 11:23

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**497.04**	ft	1	08/11/2025 11:23	R369784
Depth to water	*	-5.00		**26.98**	ft	1	08/11/2025 11:23	R369784
Depth to water from measuring point	*	0		**28.85**	ft	1	08/11/2025 11:23	R369784
Elevation of groundwater surface	*	0		**526.75**	ft	1	08/11/2025 11:23	R369784
Measuring Point Elevation	*	0		**555.60**	ft	1	08/11/2025 11:23	R369784
Measuring Point Height Above Land Surface	*	0		**1.87**	ft	1	08/11/2025 11:23	R369784
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**14**	NTU	1	08/11/2025 11:23	R369784
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**69.7**	°F	1	08/11/2025 11:23	R369784
SW-846 9040B								
pH, Field	*	1.00		**6.76**		1	08/11/2025 11:23	R369784
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1650**	µmhos/cm @25C	1	08/11/2025 11:23	R369784
STANDARD METHODS 2540 C (TOTAL) 2020								
Total Dissolved Solids	NELAP	33		**1250**	mg/L	1.67	08/15/2025 13:31	R369952
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	08/12/2025 17:37	R369661
Chloride	NELAP	5.00		**28.9**	mg/L	10	08/12/2025 17:37	R369661
Sulfate	NELAP	10.0		**344**	mg/L	10	08/12/2025 17:37	R369661
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.354**	mg/L	1	08/13/2025 19:17	243289
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	08/13/2025 19:17	243289
Boron	NELAP	0.0200		**3.21**	mg/L	1	08/13/2025 19:17	243289
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	08/13/2025 19:17	243289
Calcium	NELAP	0.100		**194**	mg/L	1	08/13/2025 19:17	243289
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	08/13/2025 19:17	243289
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	08/13/2025 19:17	243289
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	08/13/2025 19:17	243289
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	08/13/2025 19:17	243289
Sample result for Ba exceeds 10 times the CCB. Data is reportable per the TNI Standard.								
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**0.0020**	mg/L	5	08/14/2025 3:14	243289
Arsenic	NELAP	0.0010		**0.0044**	mg/L	5	08/19/2025 12:08	243589
Lithium	*	0.0030		**0.0067**	mg/L	5	08/14/2025 3:14	243289
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	08/14/2025 3:14	243289
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	08/14/2025 3:14	243289
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	08/12/2025 16:20	243283
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	08/25/2025 0:00	R371072
Radium-228	*	0		**See Attached**	pci/L	1	08/25/2025 0:00	R371072

Client: City Water, Light & Power **Work Order:** 25080111

Client Project: FGDS Landfill **Report Date:** 10-Sep-25

Lab ID: 25080111-003 **Client Sample ID:** G122

Matrix: GROUNDWATER **Collection Date:** 08/11/2025 12:12

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**505.11**	ft	1	08/11/2025 12:12	R369784
Depth to water	*	-5.00		**30.38**	ft	1	08/11/2025 12:12	R369784
Depth to water from measuring point	*	0		**32.12**	ft	1	08/11/2025 12:12	R369784
Elevation of groundwater surface	*	0		**522.28**	ft	1	08/11/2025 12:12	R369784
Measuring Point Elevation	*	0		**554.40**	ft	1	08/11/2025 12:12	R369784
Measuring Point Height Above Land Surface	*	0		**1.74**	ft	1	08/11/2025 12:12	R369784
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**18**	NTU	1	08/11/2025 12:12	R369784
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**64.5**	°F	1	08/11/2025 12:12	R369784
SW-846 9040B								
pH, Field	*	1.00		**6.71**		1	08/11/2025 12:12	R369784
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1850**	µmhos/cm @25C	1	08/11/2025 12:12	R369784
STANDARD METHODS 2540 C (TOTAL) 2020								
Total Dissolved Solids	NELAP	20		**1480**	mg/L	1	08/12/2025 15:23	R369703
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	08/12/2025 17:48	R369661
Chloride	NELAP	5.00		**37.3**	mg/L	10	08/12/2025 17:48	R369661
Sulfate	NELAP	10.0		**552**	mg/L	10	08/12/2025 17:48	R369661
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.466**	mg/L	1	08/14/2025 17:32	243289
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	08/14/2025 17:32	243289
Boron	NELAP	0.0200		**12.5**	mg/L	1	08/14/2025 17:32	243289
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	08/14/2025 17:32	243289
Calcium	NELAP	0.100		**258**	mg/L	1	08/14/2025 17:32	243289
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	08/14/2025 17:32	243289
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	08/14/2025 17:32	243289
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	08/14/2025 17:32	243289
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	08/14/2025 17:32	243289
Sample result(s) for Ca exceed 10 times the CCB. Data is reportable per the TNI Standard.								
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	08/14/2025 3:20	243289
Arsenic	NELAP	0.0010		**0.0029**	mg/L	5	08/19/2025 12:15	243589
Lithium	*	0.0030		**0.0062**	mg/L	5	08/14/2025 3:20	243289
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	08/14/2025 3:20	243289
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	08/14/2025 3:20	243289
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	08/12/2025 16:22	243283
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	08/22/2025 0:00	R371072
Radium-228	*	0		**See Attached**	pci/L	1	08/22/2025 0:00	R371072

Client: City Water, Light & Power **Work Order:** 25080111

Client Project: FGDS Landfill **Report Date:** 10-Sep-25

Lab ID: 25080111-004 **Client Sample ID:** AW-2

Matrix: GROUNDWATER **Collection Date:** 08/11/2025 12:56

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**497.34**	ft	1	08/11/2025 12:56	R369784
Depth to water	*	-5.00		**2.72**	ft	1	08/11/2025 12:56	R369784
Depth to water from measuring point	*	0		**6.02**	ft	1	08/11/2025 12:56	R369784
Elevation of groundwater surface	*	0		**523.96**	ft	1	08/11/2025 12:56	R369784
Measuring Point Elevation	*	0		**529.98**	ft	1	08/11/2025 12:56	R369784
Measuring Point Height Above Land Surface	*	0		**3.30**	ft	1	08/11/2025 12:56	R369784
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**4.9**	NTU	1	08/11/2025 12:56	R369784
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**72.0**	°F	1	08/11/2025 12:56	R369784
SW-846 9040B								
pH, Field	*	1.00		**6.87**		1	08/11/2025 12:56	R369784
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1200**	µmhos/cm @25C	1	08/11/2025 12:56	R369784
STANDARD METHODS 2540 C (TOTAL) 2020								
Total Dissolved Solids	NELAP	20		**790**	mg/L	1	08/12/2025 15:23	R369703
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	08/12/2025 18:00	R369661
Chloride	NELAP	5.00		**26.0**	mg/L	10	08/12/2025 18:00	R369661
Sulfate	NELAP	10.0		**131**	mg/L	10	08/12/2025 18:00	R369661
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.604**	mg/L	1	08/14/2025 17:33	243289
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	08/14/2025 17:33	243289
Boron	NELAP	0.0200		**3.08**	mg/L	1	08/14/2025 17:33	243289
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	08/14/2025 17:33	243289
Calcium	NELAP	0.100		**157**	mg/L	1	08/14/2025 17:33	243289
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	08/14/2025 17:33	243289
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	08/14/2025 17:33	243289
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	08/14/2025 17:33	243289
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	08/14/2025 17:33	243289
Sample result(s) for Ca exceed 10 times the CCB. Data is reportable per the TNI Standard.								
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	08/14/2025 3:26	243289
Arsenic	NELAP	0.0010		**0.0110**	mg/L	5	08/19/2025 12:21	243589
Lithium	*	0.0030		**0.0053**	mg/L	5	08/14/2025 3:26	243289
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	08/14/2025 3:26	243289
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	08/14/2025 3:26	243289
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	08/12/2025 16:24	243283
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	08/22/2025 0:00	R371072
Radium-228	*	0		**See Attached**	pci/L	1	08/22/2025 0:00	R371072

Client: City Water, Light & Power **Work Order:** 25080111

Client Project: FGDS Landfill **Report Date:** 10-Sep-25

Lab ID: 25080111-005 **Client Sample ID:** P07D

Matrix: GROUNDWATER **Collection Date:** 08/11/2025 11:23

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**495.71**	ft	1	08/11/2025 11:23	R369784
Depth to water	*	-5.00		**2.02**	ft	1	08/11/2025 11:23	R369784
Depth to water from measuring point	*	0		**5.02**	ft	1	08/11/2025 11:23	R369784
Elevation of groundwater surface	*	0		**523.23**	ft	1	08/11/2025 11:23	R369784
Measuring Point Elevation	*	0		**528.25**	ft	1	08/11/2025 11:23	R369784
Measuring Point Height Above Land Surface	*	0		**3.00**	ft	1	08/11/2025 11:23	R369784
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		**35**	NTU	1	08/11/2025 11:23	R369784
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**66.9**	°F	1	08/11/2025 11:23	R369784
SW-846 9040B								
pH, Field	*	1.00		**6.67**		1	08/11/2025 11:23	R369784
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**931**	µmhos/cm @25C	1	08/11/2025 11:23	R369784
STANDARD METHODS 2540 C (TOTAL) 2020								
Total Dissolved Solids	NELAP	33		**1180**	mg/L	1.67	08/15/2025 13:31	R369952
SW846 9056A TOTAL ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		**ND**	mg/L	10	08/12/2025 18:12	R369661
Chloride	NELAP	5.00		**31.8**	mg/L	10	08/12/2025 18:12	R369661
Sulfate	NELAP	10.0		**324**	mg/L	10	08/12/2025 18:12	R369661
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		**0.789**	mg/L	1	08/14/2025 17:34	243289
Beryllium	NELAP	0.0005		**< 0.0005**	mg/L	1	08/14/2025 17:34	243289
Boron	NELAP	0.0200		**5.54**	mg/L	1	08/14/2025 17:34	243289
Cadmium	NELAP	0.0020		**< 0.0020**	mg/L	1	08/14/2025 17:34	243289
Calcium	NELAP	0.100		**194**	mg/L	1	08/14/2025 17:34	243289
Chromium	NELAP	0.0050		**< 0.0050**	mg/L	1	08/14/2025 17:34	243289
Cobalt	NELAP	0.0050		**< 0.0050**	mg/L	1	08/14/2025 17:34	243289
Lead	NELAP	0.0075		**< 0.0075**	mg/L	1	08/14/2025 17:34	243289
Molybdenum	NELAP	0.0100		**< 0.0100**	mg/L	1	08/14/2025 17:34	243289
Sample result(s) for Ca exceed 10 times the CCB. Data is reportable per the TNI Standard.								
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		**< 0.0010**	mg/L	5	08/14/2025 4:38	243289
Arsenic	NELAP	0.0010		**0.0255**	mg/L	5	08/19/2025 12:27	243589
Lithium	*	0.0030		**0.0069**	mg/L	5	08/14/2025 4:38	243289
Selenium	NELAP	0.0010		**< 0.0010**	mg/L	5	08/14/2025 4:38	243289
Thallium	NELAP	0.0020		**< 0.0020**	mg/L	5	08/14/2025 4:38	243289
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		**< 0.00020**	mg/L	1	08/12/2025 16:27	243283
EPA 903.0/904.0, RADIUM 226/228								
Radium-226	*	0		**See Attached**	pci/L	1	08/22/2025 0:00	R371072
Radium-228	*	0		**See Attached**	pci/L	1	08/22/2025 0:00	R371072

Receiving Check List

http://www.teklabinc.com/

Client: City Water, Light & Power
Work Order: 25080111
Client Project: FGDS Landfill
Report Date: 10-Sep-25

Carrier: Daniel Crump
Received By: LEH

Completed by: Amber Dilallo
On: 12-Aug-25

Reviewed by: Elizabeth A. Hurley
On: 13-Aug-25

Pages to follow: Chain of custody 2 Extra pages included 18

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐	Temp °C	11.1	
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.

Samples were received on 8/11/25 at 1625 on ice [Cooler #2 = 11.1C and Cooler #3 = 16.1C - LTG#3]. Additional Nitric Acid (104844) was needed for R101, G121, G122, AW2 and P07D upon arrival at the laboratory. pH strip #104524. - JD/amberdilallo - 8/12/2025 9:06:13 AM

Samples were received on 8/12/25 at 1540 on ice [Cooler #1 = 5.3C, Cooler #2 = 4.7C, Cooler #3 = 3.7C and Cooler #4 = 4.3C - LTG#5]. pH strip #104524. - amberdilallo - 8/13/2025 8:17:51 AM

rint PD

CHAIN OF CUSTODY

Pg 1 of 1 Workorder # 25080111

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

16.1

Client: City Water, Light & Power
Address: 3100 Stevenson Drive, 2nd Floor Maintenance Building
City/State/Zip: Springfield IL 62712
Contact: Eric Staley Phone: (217) 757-8610
Email: eric.staley@cwlp.com Fax:

Samples on: [X] ICE [ ] BLUE ICE [ ] NO ICE 11.1 °C 3
Preserved in: [X] LAB [ ] FIELD FOR LAB USE ONLY pH 04524
LAB NOTES: Added HNO3 (104844) 3/3 liters R101, G121, G122, AW2, P07D

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: JO 8/12/25
*elevations, pH, conductivity, temperature
**Sb As Se Li Tl (ICPMS) Ba Be B Cd Ca Cr Co Pb Hg Mo

PROJECT NAME/NUMBER
FGDS Landfill

SAMPLE COLLECTOR'S NAME
Bret Gilchon

RESULTS REQUESTED
[✓] Standard [ ] 1-2 Day (100% Surcharge)
[ ] Other _____ [ ] 3 Day (50% Surcharge)

BILLING INSTRUCTIONS

Lab Use Only	Sample ID	Date/Time Sampled	Matrix	# and Type of Containers									INDICATE ANALYSIS REQUESTED												
				UNP	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	TSP	Other	Field parameters*	Cl F SO4 TDS (T)	Metals (T)**	Radium-226	Radium-228	Field Turbidity	As (ICPMS)							
25080111-001	R101	8-11-25 1218	Groundwater	1	4								✓	✓	✓	✓	✓	✓								
-002	G121	8-11-25 1123	Groundwater	1	4								✓	✓	✓	✓	✓	✓								
-003	G122	8-11-25 1212	Groundwater	1	4								✓	✓	✓	✓	✓	✓								
-004	AW-2	8-11-25 1256	Groundwater	1	4								✓	✓	✓	✓	✓	✓								
-005	P07D	8-11-25 1123	Groundwater	1	4								✓	✓	✓	✓	✓	✓								
-006	P03D	8-11-25 1410	Groundwater	1	1								✓					✓	✓							
-007	P104	8-11-25 1345	Groundwater	1	1								✓					✓	✓							
-008	P103	8-11-25 1445	Groundwater	1	1								✓					✓	✓							
-009	GP-7		Groundwater	1	1								✓					✓	✓							
-010	P04D	8-11-25 1411	Groundwater	1	1								✓					✓	✓							
			Groundwater																							

Relinquished By	Date/Time	Received By	Date/Time
	8-11 / 1625		8/11/25 1625

*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

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CHAIN OF CUSTODY

Pg 1 of 1 Workorder # 25080111

TEKLAB INC, 5445 Horseshoe Lake Road, Collinsville, IL 62234 Phone (618) 344-1004 Fax (618) 344-1005 5.3, 4.7, 3.7

Client: City Water, Light & Power
Address: 3100 Stevenson Drive, 2nd Floor Maintenance Building
City/State/Zip: Springfield IL 62712
Contact: Eric Staley Phone: (217) 757-8610
Email: eric.staley@cwlp.com Fax:

Samples on: ☒ ICE ☐ BLUE ICE ☐ NO ICE 4.3 °C 5
Preserved in: ☐ LAB ☒ FIELD FOR LAB USE ONLY
LAB NOTES: 104524 DM 8/13/25

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:
*elevations, pH, conductivity, temperature
**Sb As Se Li Tl (ICPMS) Ba Be B Cd Ca Cr Co Pb Hg Mo

PROJECT NAME/NUMBER
FGDS Landfill

SAMPLE COLLECTOR'S NAME
Payton Tock

RESULTS REQUESTED
☑ Standard ☐ 1-2 Day (100% Surcharge)
☐ Other _____ ☐ 3 Day (50% Surcharge)

BILLING INSTRUCTIONS

Lab Use Only	Sample ID	Date/Time Sampled	Matrix	# and Type of Containers: UNP	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	TSP	Other	INDICATE ANALYSIS REQUESTED: Field parameters*	Cl F SO4 TDS (T)	Metals (T)**	Radium-226	Radium-228	Field Turbidity	As (ICPMS)
25080111-001	R101		Groundwater	1	4								✔	✔	✔	✔	✔	✔	
-002	G121		Groundwater	1	4								✔	✔	✔	✔	✔	✔	
-003	G122		Groundwater	1	4								✔	✔	✔	✔	✔	✔	
-004	AW-2		Groundwater	1	4								✔	✔	✔	✔	✔	✔	
-005	P07D		Groundwater	1	4								✔	✔	✔	✔	✔	✔	
-006	P03D		Groundwater	1	1								✔					✔	✔
-007	P104		Groundwater	1	1								✔					✔	✔
-008	P103		Groundwater	1	1								✔					✔	✔
-009	GP-7	8/12/25 1033	Groundwater	1	1								✔					✔	✔
-010	P04D		Groundwater	1	1								✔					✔	✔
			Groundwater																

Relinquished By	Date/Time	Received By	Date/Time
	8-12/1540		8/12/25 1540

*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

Field Data Sheet

Project Name:	FGDS Landfill	**Monitoring Point:**	R101
Project Location:	Springfield, IL	**Sample ID:**	001
W.O. Number (s):	25080111	**Date (s):**	8/11/2025

Field Team Members

Name: Brett Gillihan Affiliation: TekLab, Inc.

Name: Danny Crump Affiliation: TekLab, Inc.

Weather Conditions

Temp: 84 °F Wind Direction: ☐ N ☐ S ☐ E ☐ SE ☐ SW ☑ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy Sky: ☐ Clear ☑ Partly Cloudy ☐ Cloudy

Well Observations

			Yes	No
Well Pad	Good	**Locks**		
Casing	Good	Protective Casing		X
Protective Casing	Good	Well		X
Reference Mark/Identification	Yes			

Groundwater Level Measurements

Date/Time Measured: 8/11/25 11:55 AM

Static Water Level: 7.49 feet below TOC

Total Depth: 35.27 feet below TOC

Water Column: 27.78 feet

Purging Activities

Purged By: DC Purge Date: 8/11/2025

Purge Method: Peristaltic Pump Well Diameter: 2"

Purge Volume Calculation (L): 27.78 ft. x 0.022 = 0.61 L x 3 Vol. = 1.83 L **Based on Low-Flow (3/8" discharge)*

Actual Purge Volume (L): 5.00 L

Physical appearance of purge water: Slightly cloudy Odor: None Color: Clear

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
11:55	0.0	217	purge start time						
12:06	2.4	↓	6.70	836.50	18.14	1.99	43.90	10.40	
12:09	3.0		6.69	837.60	18.11	1.83	42.40	15.24	
12:12	3.7		6.69	834.50	18.16	1.67	40.70	17.98	
12:15	4.3		6.68	832.20	17.93	1.55	39.10	20.87	
12:18	5.0		6.69	833.60	17.78	1.46	37.60	23.02	

Sampling Activities

Sampled By: BG Sample Date/Time: 8/11/2025 12:18

Sample Method: Low Flow Sample Equipment: Peristaltic Pump

Sample Parameters: 6.69 pH 833.60 Spec. Cond. 17.78 Temp

Field Filtered: Yes Filter Type: Inline Disposable

Water Level: 7.51 feet below TOC Drawdown: 0.02 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 46868

Form Completed By: Brett Gillihan **Date:** 8/11/2025

Field Data Sheet

Project Name: FGDS Landfill
Project Location: Springfield, IL
W.O. Number (s): 25080111
Monitoring Point: G121
Sample ID: 002
Date (s): 8/11/2025

Field Team Members

Name: Allison Lampe Affiliation: TekLab, Inc.
Name: Payton Yoch Affiliation: TekLab, Inc.

Weather Conditions

Temp: 85 °F Wind Direction: ☐ N ☐ S ☐ E ☐ SE ☐ SW ☑ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy Sky: ☐ Clear ☑ Partly Cloudy ☐ Cloudy

Well Observations

Well Pad	Good
Casing	Good
Protective Casing	Good
Reference Mark/Identification	Yes

Locks	Yes	No
Protective Casing	X	
Well		X

Groundwater Level Measurements

Date/Time Measured: 8/11/25 10:49 AM
Static Water Level: 28.85 feet below TOC
Total Depth: 58.56 feet below TOC
Water Column: 29.71 feet

Purging Activities

Purged By: AL Purge Date: 8/11/2025
Purge Method: Peristaltic Pump Well Diameter: 2"
Purge Volume Calculation (L): 29.71 ft. x 0.022 = 0.65 L x 3 Vol. = 1.95 L **Based on Low-Flow (3/8" discharge)*
Actual Purge Volume (L): 3.00 L
Physical appearance of purge water: Slightly cloudy Odor: Slight Color: light brown

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
10:49	0.0	88	purge start time						
11:14	2.2	↓	6.77	1,651.80	20.65	4.82	-109.80	14.32	
11:17	2.5		6.76	1,653.50	20.46	4.71	-109.70	13.48	
11:20	2.7		6.76	1,651.10	20.81	4.79	-108.90	14.14	
11:23	3.0		6.76	1,654.40	20.92	4.75	-107.60	13.86	

Sampling Activities

Sampled By: PY Sample Date/Time: 8/11/2025 11:23
Sample Method: Low Flow Sample Equipment: Peristaltic Pump
Sample Parameters: 6.76 pH 1,654.40 Spec. Cond. 20.92 Temp
Field Filtered: Yes Filter Type: Inline Disposable
Water Level: 29.00 feet below TOC Drawdown: 0.15 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 45612

Form Completed By: Allison Lampe **Date:** 8/11/2025

Field Data Sheet

Project Name: FGDS Landfill
Project Location: Springfield, IL
W.O. Number (s): 25080111
Monitoring Point: G122
Sample ID: 003
Date (s): 8/11/2025

Field Team Members

Name: Allison Lampe Affiliation: TekLab, Inc.
Name: Payton Yoch Affiliation: TekLab, Inc.

Weather Conditions

Temp: 85 °F Wind Direction: ☐ N ☐ S ☐ E ☐ SE ☐ SW ☑ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy Sky: ☑ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

Well Pad	Good
Casing	Good
Protective Casing	Good
Reference Mark/Identification	Yes

Locks	Yes	No
Protective Casing	X	
Well		X

Groundwater Level Measurements

Date/Time Measured: 8/11/25 11:51 AM
Static Water Level: 32.12 feet below TOC
Total Depth: 49.29 feet below TOC
Water Column: 17.17 feet

Purging Activities

Purged By: AL Purge Date: 8/11/2025
Purge Method: Peristaltic Pump Well Diameter: 2"
Purge Volume Calculation (L): 17.17 ft. x 0.022 = 0.38 L x 3 Vol. = 1.14 L **Based on Low-Flow (3/8" discharge)*
Actual Purge Volume (L): 6.00 L
Physical appearance of purge water: Slightly cloudy Odor: None Color: gray

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
11:51	0.0	286	purge start time						
12:03	3.4	↓	6.72	1,783.30	18.26	0.69	-104.40	31.73	
12:06	4.3		6.71	1,829.60	18.20	0.64	-111.10	22.91	
12:09	5.1		6.71	1,819.90	18.78	0.63	-114.10	21.11	
12:12	6.0		6.71	1,854.80	18.06	0.59	-116.00	17.86	

Sampling Activities

Sampled By: PY Sample Date/Time: 8/11/2025 12:12
Sample Method: Low Flow Sample Equipment: Peristaltic Pump
Sample Parameters: 6.71 pH 1,854.80 Spec. Cond. 18.06 Temp
Field Filtered: Yes Filter Type: Inline Disposable
Water Level: 32.31 feet below TOC Drawdown: 0.19 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 45612

Form Completed By: Allison Lampe **Date:** 8/11/2025

Field Data Sheet

Project Name: FGDS Landfill
Project Location: Springfield, IL
W.O. Number (s): 25080111
Monitoring Point: AW-2
Sample ID: 004
Date (s): 8/11/2025

Field Team Members

Name: Allison Lampe Affiliation: TekLab, Inc.
Name: Payton Yoch Affiliation: TekLab, Inc.

Weather Conditions

Temp: 85 °F Wind Direction: ☐ N ☐ S ☐ E ☐ SE ☐ SW ☑ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy Sky: ☑ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

Well Pad	Good
Casing	Good
Protective Casing	Good
Reference Mark/Identification	Yes

Locks	Yes	No
Protective Casing	X	
Well		X

Groundwater Level Measurements

Date/Time Measured: 8/11/25 12:38 PM
Static Water Level: 6.02 feet below TOC
Total Depth: 32.64 feet below TOC
Water Column: 26.62 feet

Purging Activities

Purged By: AL Purge Date: 8/11/2025
Purge Method: Peristaltic Pump Well Diameter: 2"
Purge Volume Calculation (L): 26.62 ft. x 0.022 = 0.59 L x 3 Vol. = 1.77 L **Based on Low-Flow (3/8" discharge)*
Actual Purge Volume (L): 4.00 L
Physical appearance of purge water: Slightly cloudy Odor: Slight Color: light brown

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
12:38	0.0	222	purge start time						
12:47	2.0	↓	6.88	1,199.00	21.32	1.19	-135.10	2.12	
12:50	2.7		6.88	1,195.90	21.21	1.04	-136.30	2.59	
12:53	3.3		6.87	1,198.20	21.68	0.99	-136.70	3.64	
12:56	4.0		6.87	1,198.00	22.23	0.97	-135.50	4.90	

Sampling Activities

Sampled By: PY Sample Date/Time: 8/11/2025 12:56
Sample Method: Low Flow Sample Equipment: Peristaltic Pump
Sample Parameters: 6.87 pH 1,198.00 Spec. Cond. 22.23 Temp
Field Filtered: Yes Filter Type: Inline Disposable
Water Level: 6.33 feet below TOC Drawdown: 0.31 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 45612

Form Completed By: Allison Lampe **Date:** 8/11/2025

Field Data Sheet

Project Name:	FGDS Landfill	**Monitoring Point:**	P07D
Project Location:	Springfield, IL	**Sample ID:**	005
W.O. Number (s):	25080111	**Date (s):**	8/11/2025

Field Team Members

Name: Brett Gillihan Affiliation: TekLab, Inc.

Name: Danny Crump Affiliation: TekLab, Inc.

Weather Conditions

Temp: 83 °F Wind Direction: ☐ N ☐ S ☐ E ☐ SE ☐ SW ☑ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy Sky: ☐ Clear ☑ Partly Cloudy ☐ Cloudy

Well Observations

			Yes	No
Well Pad	Good	**Locks**		
Casing	Good	Protective Casing		X
Protective Casing	Good	Well		X
Reference Mark/Identification	Yes			

Groundwater Level Measurements

Date/Time Measured: 8/11/25 10:52 AM

Static Water Level: 5.02 feet below TOC

Total Depth: 32.54 feet below TOC

Water Column: 27.52 feet

Purging Activities

Purged By: DC Purge Date: 8/11/2025

Purge Method: Peristaltic Pump Well Diameter: 2"

Purge Volume Calculation (L): 27.52 ft. x 0.022 = 0.61 L x 3 Vol. = 1.83 L **Based on Low-Flow (3/8" discharge)*

Actual Purge Volume (L): 6.00 L

Physical appearance of purge water: Slightly cloudy Odor: None Color: Clear

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
10:52	0.0	194	purge start time						
11:11	3.7	↓	6.67	973.80	18.71	1.29	-47.50	43.47	
11:14	4.3		6.67	958.90	18.90	1.25	-50.90	37.46	
11:17	4.8		6.67	947.80	19.27	1.23	-53.80	37.54	
11:20	5.4		6.67	948.30	19.81	1.24	-56.30	32.14	
11:23	6.0		6.67	931.20	19.37	1.23	-58.80	34.99	

Sampling Activities

Sampled By: BG Sample Date/Time: 8/11/2025 11:23

Sample Method: Low Flow Sample Equipment: Peristaltic Pump

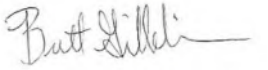
Sample Parameters: 6.67 pH 931.20 Spec. Cond. 19.37 Temp

Field Filtered: No Filter Type:

Water Level: 5.21 feet below TOC Drawdown: 0.19 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 46868

Form Completed By:  **Date:** 8/11/2025

Field Data Sheet

Project Name: FGDS Landfill
Project Location: Springfield, IL
W.O. Number (s): 25080111
Monitoring Point: P03D
Sample ID: 006
Date (s): 8/11/2025

Field Team Members

Name: Allison Lampe Affiliation: TekLab, Inc.
Name: Payton Yoch Affiliation: TekLab, Inc.

Weather Conditions

Temp: 85 °F Wind Direction: ☐ N ☐ S ☐ E ☐ SE ☐ SW ☑ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy Sky: ☑ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

Well Pad	Good
Casing	Good
Protective Casing	Good
Reference Mark/Identification	Yes

Locks	Yes	No
Protective Casing	X	
Well		X

Groundwater Level Measurements

Date/Time Measured: 8/11/25 1:53 PM
Static Water Level: 8.65 feet below TOC
Total Depth: 38.25 feet below TOC
Water Column: 29.60 feet

Purging Activities

Purged By: AL Purge Date: 8/11/2025
Purge Method: Peristaltic Pump Well Diameter: 2"
Purge Volume Calculation (L): 29.6 ft. x 0.022 = 0.65 L x 3 Vol. = 1.95 L **Based on Low-Flow (3/8" discharge)*
Actual Purge Volume (L): 4.00 L
Physical appearance of purge water: Clear Odor: None Color: none

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
13:53	0.0	235	purge start time						
14:01	1.9	↓	6.90	1,632.10	20.00	1.13	-11.70	8.38	
14:04	2.6		6.90	1,615.30	20.04	1.04	-11.10	8.89	
14:07	3.3		6.90	1,630.80	20.52	1.07	-11.60	10.72	
14:10	4.0		6.90	1,628.40	20.15	0.98	-13.20	11.67	

Sampling Activities

Sampled By: PY Sample Date/Time: 8/11/2025 14:10
Sample Method: Low Flow Sample Equipment: Peristaltic Pump
Sample Parameters: 6.90 pH 1,628.40 Spec. Cond. 20.15 Temp
Field Filtered: No Filter Type:
Water Level: 8.85 feet below TOC Drawdown: 0.20 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 45612

Form Completed By: Allison Lampe **Date:** 8/11/2025

Field Data Sheet

Project Name: FGDS Landfill
Project Location: Springfield, IL
W.O. Number (s): 25080111
Monitoring Point: P104
Sample ID: 007
Date (s): 8/11/2025

Field Team Members

Name: Allison Lampe Affiliation: TekLab, Inc.
Name: Payton Yoch Affiliation: TekLab, Inc.

Weather Conditions

Temp: 85 °F Wind Direction: ☐ N ☐ S ☐ E ☐ SE ☐ SW ☑ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy Sky: ☑ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

Well Pad	Good
Casing	Good
Protective Casing	Damaged
Reference Mark/Identification	Yes

Locks	Yes	No
Protective Casing	X	
Well		X

Groundwater Level Measurements

Date/Time Measured: 8/11/25 1:25 PM
Static Water Level: 9.54 feet below TOC
Total Depth: 37.72 feet below TOC
Water Column: 28.18 feet

Purging Activities

Purged By: AL Purge Date: 8/11/2025
Purge Method: Peristaltic Pump Well Diameter: 2"
Purge Volume Calculation (L): 28.18 ft. x 0.022 = 0.62 L x 3 Vol. = 1.86 L **Based on Low-Flow (3/8" discharge)*
Actual Purge Volume (L): 4.00 L
Physical appearance of purge water: Clear Odor: Slight Color: none

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
13:25	0.0	200	purge start time						
13:36	2.2	↓	7.29	494.10	19.02	1.24	-120.70	5.62	
13:39	2.8		7.30	493.20	19.20	1.17	-126.70	6.82	
13:42	3.4		7.30	494.70	19.15	1.11	-129.20	5.23	
13:45	4.0		7.30	495.40	19.02	1.05	-130.80	5.16	

Sampling Activities

Sampled By: PY Sample Date/Time: 8/11/2025 13:45
Sample Method: Low Flow Sample Equipment: Peristaltic Pump
Sample Parameters: 7.30 pH 495.40 Spec. Cond. 19.02 Temp
Field Filtered: No Filter Type:
Water Level: 12.02 feet below TOC Drawdown: 2.48 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 45612
- Rusted casing

Form Completed By: Allison Lampe **Date:** 8/11/2025

Field Data Sheet

Project Name:	FGDS Landfill	**Monitoring Point:**	P103
Project Location:	Springfield, IL	**Sample ID:**	008
W.O. Number (s):	25080111	**Date (s):**	8/11/2025

Field Team Members

Name: Brett Gillihan Affiliation: TekLab, Inc.

Name: Danny Crump Affiliation: TekLab, Inc.

Weather Conditions

Temp: 88 °F Wind Direction: ☑ N ☐ S ☐ E ☐ SE ☐ SW ☐ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy Sky: ☑ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

		Locks	Yes	No
Well Pad	Good	Protective Casing		X
Casing	Good	Well		X
Protective Casing	Good			
Reference Mark/Identification	Yes			

Groundwater Level Measurements

Date/Time Measured: 8/11/25 2:25 PM

Static Water Level: 11.84 feet below TOC

Total Depth: 35.25 feet below TOC

Water Column: 23.41 feet

Purging Activities

Purged By: DC Purge Date: 8/11/2025

Purge Method: Peristaltic Pump Well Diameter: 3"

Purge Volume Calculation (L): 23.41 ft. x 0.022 = 0.52 L x 3 Vol. = 1.56 L **Based on Low-Flow (3/8" discharge)*

Actual Purge Volume (L): 5.00 L

Physical appearance of purge water: Slightly cloudy Odor: None Color: Clear

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
14:25	0.0	250	purge start time						
14:33	2.0	↓	6.99	890.00	21.44	1.68	90.20	77.54	
14:36	2.8		6.98	894.00	21.38	1.55	87.90	81.66	
14:39	3.5		6.98	895.10	21.22	1.47	86.00	78.69	
14:42	4.3		6.97	897.70	21.04	1.39	84.40	65.46	
14:45	5.0		6.97	901.70	20.95	1.34	83.00	47.18	

Sampling Activities

Sampled By: DC Sample Date/Time: 8/11/2025 14:45

Sample Method: Low Flow Sample Equipment: Peristaltic Pump

Sample Parameters: 6.97 pH 901.70 Spec. Cond. 20.95 Temp

Field Filtered: No Filter Type:

Water Level: 11.91 feet below TOC Drawdown: 0.07 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 46868

Form Completed By: Brett Gillihan **Date:** 8/11/2025

Field Data Sheet

Project Name: FGDS Landfill
Project Location: Springfield, IL
W.O. Number (s): 25080111
Monitoring Point: GP-7
Sample ID: 009
Date (s): 8/12/2025

Field Team Members

Name: Allison Lampe Affiliation: TekLab, Inc.
Name: Payton Yoch Affiliation: TekLab, Inc.

Weather Conditions

Temp: 84 °F Wind Direction: ☑ N ☐ S ☐ E ☐ SE ☐ SW ☐ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy Sky: ☑ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

Well Pad	Good
Casing	Good
Protective Casing	Good
Reference Mark/Identification	Yes

Locks	Yes	No
Protective Casing	X	
Well		X

Groundwater Level Measurements

Date/Time Measured: 8/12/25 10:14 AM
Static Water Level: 8.89 feet below TOC
Total Depth: 40.52 feet below TOC
Water Column: 31.63 feet

Purging Activities

Purged By: AL Purge Date: 8/12/2025
Purge Method: Peristaltic Pump Well Diameter: 2"
Purge Volume Calculation (L): 31.63 ft. x 0.022 = 0.7 L x 3 Vol. = 2.1 L **Based on Low-Flow (3/8" discharge)*
Actual Purge Volume (L): 3.00 L
Physical appearance of purge water: Clear Odor: None Color: none

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
10:14	0.0	158	purge start time						
10:24	1.6	↓	6.86	790.50	18.48	1.41	-64.50	44.92	
10:27	2.1		6.87	793.20	18.35	1.21	-73.40	60.69	
10:30	2.5		6.85	829.00	18.23	1.06	-83.20	90.05	
10:33	3.0		6.78	884.20	18.22	0.94	-98.90	136.81	

Sampling Activities

Sampled By: PY Sample Date/Time: 8/12/2025 10:33
Sample Method: Low Flow Sample Equipment: Peristaltic Pump
Sample Parameters: 6.78 pH 884.20 Spec. Cond. 18.22 Temp
Field Filtered: No Filter Type:
Water Level: 9.35 feet below TOC Drawdown: 0.46 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 45612

Form Completed By: Allison Lampe **Date:** 8/12/2025

Field Data Sheet

Project Name:	FGDS Landfill	**Monitoring Point:**	P04D
Project Location:	Springfield, IL	**Sample ID:**	010
W.O. Number (s):	25080111	**Date (s):**	8/11/2025

Field Team Members

Name: Brett Gillihan Affiliation: TekLab, Inc.

Name: Danny Crump Affiliation: TekLab, Inc.

Weather Conditions

Temp: 87 °F Wind Direction: ☑ N ☐ S ☐ E ☐ SE ☐ SW ☐ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy Sky: ☑ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

		Locks	Yes	No
Well Pad	Good	Protective Casing		X
Casing	Good	Well		X
Protective Casing	Good			
Reference Mark/Identification	Yes			

Groundwater Level Measurements

Date/Time Measured: 8/11/25 1:47 PM

Static Water Level: 12.99 feet below TOC

Total Depth: 42.55 feet below TOC

Water Column: 29.56 feet

Purging Activities

Purged By: DC Purge Date: 8/11/2025

Purge Method: Peristaltic Pump Well Diameter: 2"

Purge Volume Calculation (L): 29.56 ft. x 0.022 = 0.65 L x 3 Vol. = 1.95 L **Based on Low-Flow (3/8" discharge)*

Actual Purge Volume (L): 5.00 L

Physical appearance of purge water: Slightly cloudy Odor: None Color: Clear

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
13:47	0.0	208	purge start time						
13:59	2.5	↓	7.16	683.80	21.23	3.43	62.90	48.65	
14:02	3.1		7.13	688.10	21.22	3.37	64.40	46.37	
14:05	3.8		7.07	712.70	21.29	3.21	68.20	42.87	
14:08	4.4		7.01	743.80	21.30	2.97	73.60	38.34	
14:11	5.0		6.93	803.30	21.28	2.65	80.40	36.19	
14:14	5.6		7.41	22.00	21.81	8.43	81.00	4.41	
14:17	6.2		7.80	20.00	23.08	8.93	74.40	4.54	
14:20	6.9		7.93	25.80	25.27	8.89	69.90	4.53	
14:23	7.5		8.05	22.20	26.65	8.70	65.70	4.60	
14:26	8.1		7.43	965.50	21.44	5.71	89.10	70.66	
14:29	8.8		7.07	853.50	20.43	2.14	92.80	73.21	
14:32	9.4		7.01	881.10	21.36	1.79	91.20	68.13	

Sampling Activities

Sampled By: BG Sample Date/Time: 8/11/2025 14:11

Sample Method: Low Flow Sample Equipment: Peristaltic Pump

Sample Parameters: 7.01 pH 881.10 Spec. Cond. 21.36 Temp

Field Filtered: No Filter Type:

Water Level: 13.05 feet below TOC Drawdown: 0.06 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 46868

Form Completed By: Brett Gillihan **Date:** 8/11/2025

Site Samping Event: FGDS Landfill
LIMS Workorder: 25080111
Technician(s): DC, JC, BG, AL, JR, PY

Field Calibration Log(s)
CWLP- 3Q 2025

Field Temp SOP 1156 - SM 2550 B
Field pH SOP 1152 - SW-846 9040B - SM 4500-H B
Field Cond. SOP 1155 - SW-846 9050A - SM 2510 B

Field Meter ID: Pine 46868 Technician(s): B. Gillihan Date: 8/11/2025

pH Standards	LIMS ID	Calibration reading	Date/Time
4.0 Buffer	WC250102A	4.00	8/11/25 10:09
7.0 Buffer	WC240918A	7.00	8/11/25 9:59
10.0 Buffer	WC240625A	10.00	8/11/25 10:15
LCS/CCV (7.0 Buffer)	WC250407A		

Conductivity Standard	LIMS ID	Reading	Date/Time
1,412 µS Std.	105373	1411	8/11/25 10:26

Turbidity Standard	LIMS ID	Reading	Date/Time
0 NTU (DI Water)	1	0.31	8/11/25 10:28
124 NTU	95834		

ORP Standard	LIMS ID/Lot#	Reading	Date/Time

D.O. Saturation	LIMS ID/Lot#	Reading	Date/Time
100%	N/A		

Sample ID	Sample Type	Date/Time	Temp. °C	pH S.U.	Conductivity µS	Turbidity NTU	ORP mV	D.O. %
LCS-1-BG	LCS	8/11/25 10:28	21.7	7.02	1,414	0.34		
CCV-1-BG	CCV	8/11/25 15:01	23.3	7.02	1,417	0.39		

Comments:

Field Meter ID: Pine 46868 Technician(s): B. Gillihan Date: 8/12/2025

pH Standards	LIMS ID	Calibration reading	Date/Time
4.0 Buffer	WC250102A	4.00	
7.0 Buffer	WC240918A	7.00	8/12/25 8:49
10.0 Buffer	WC240625A	10.00	8/12/25 8:55
LCS/CCV (7.0 Buffer)	WC250407A		

Conductivity Standard	LIMS ID	Reading	Date/Time
1,412 µS Std.	105373	1415	8/12/25 9:01

Turbidity Standard	LIMS ID	Reading	Date/Time
0 NTU (DI Water)	1	0.17	8/12/25 9:06
124 NTU	95834		

ORP Standard	LIMS ID/Lot#	Reading	Date/Time

D.O. Saturation	LIMS ID/Lot#	Reading	Date/Time
100%	N/A		

Sample ID	Sample Type	Date/Time	Temp. °C	pH S.U.	Conductivity µS	Turbidity NTU	ORP mV	D.O. %
LCS-2-BG	LCS	8/12/25 9:08	22.6	7.02	1,418	0.2		
CCV-2-BG	CCV	8/12/25 14:07	24.3	7.03	1,422	0.29		

Comments:

Site Samping Event: FGDS Landfill
LIMS Workorder: 25080111
Technician(s): DC, JC, BG, AL, JR, PY

Field Calibration Log(s)
CWLP- 3Q 2025

Field Temp SOP 1156 - SM 2550 B
Field pH SOP 1152 - SW-846 9040B - SM 4500-H B
Field Cond. SOP 1155 - SW-846 9050A - SM 2510 B

Field Meter ID: Pine 46868 B. Gillihan Date: 8/13/2025

pH Standards	LIMS ID	Calibration reading	Date/Time
4.0 Buffer	WC250102A	4.00	8/13/25 9:04
7.0 Buffer	WC240918A	7.00	8/13/25 8:58
10.0 Buffer	WC240625A	10.00	8/13/25 9:13
LCS/CCV (7.0 Buffer)	WC250407A		

Conductivity Standard	LIMS ID	Reading	Date/Time
1,412 µS Std.	105373	1415	8/13/25 9:18

Turbidity Standard	LIMS ID	Reading	Date/Time
0 NTU (DI Water)	1	0.37	8/13/25 9:19
124 NTU	95834		

ORP Standard	LIMS ID/Lot#	Reading	Date/Time

D.O. Saturation	LIMS ID/Lot#	Reading	Date/Time
100%	N/A		

Sample ID	Sample Type	Date/Time	Temp. °C	pH S.U.	Conductivity µS	Turbidity NTU	ORP mV	D.O. bb
LCS-3-BG	LCS	8/13/25 9:28	23.4	7.01	1,435	0.63		
CCV-3-BG	CCV	8/13/25 12:39	24.7	7.03	1,444	0.55		

Comments:

Site Samping Event: FGDS Landfill
LIMS Workorder: 25080111
Technician(s): DC, JC, BG, AL, JR, PY

Field Calibration Log(s)
CWLP- 3Q 2025

Field Temp SOP 1156 - SM 2550 B
Field pH SOP 1152 - SW-846 9040B - SM 4500-H B
Field Cond. SOP 1155 - SW-846 9050A - SM 2510 B

Field Meter ID: Pine 46864 Technician(s): justin colp Date: 8/12/2025

pH Standards	LIMS ID	Calibration reading	Date/Time
4.0 Buffer	wc250102a	4.00	8/12/25 9:03
7.0 Buffer	wc250407a	7.00	8/12/25 9:00
10.0 Buffer	wc240625a	10.00	8/12/25 9:06
LCS/CCV (7.0 Buffer)	wc240918a		

Conductivity Standard	LIMS ID	Reading	Date/Time
1,412 µS Std.	105373	1412	8/12/25 9:11

Turbidity Standard	LIMS ID	Reading	Date/Time
0 NTU (DI Water)	1	1.91	8/12/25 9:12
124 NTU	95834		

ORP Standard	LIMS ID/Lot#	Reading	Date/Time

D.O. Saturation	LIMS ID/Lot#	Reading	Date/Time
100%	N/A		

Sample ID	Sample Type	Date/Time	Temp. °C	pH S.U.	Conductivity µS	Turbidity NTU	ORP mV	D.O. %
LCS-1-JC	LCS	8/12/25 9:12	23.8	7.01	1,397	1.87		
CCV-1-JC	CCV	8/12/25 13:41	26.4	7.04	1,382	2.03		

Comments:

Field Meter ID: Pine 46864 Technician(s): justin colp Date: 8/13/2025

pH Standards	LIMS ID	Calibration reading	Date/Time
4.0 Buffer	wc250102a	4.00	8/13/25 8:54
7.0 Buffer	wc250407a	7.00	8/13/25 8:49
10.0 Buffer	wc240625a	10.00	8/13/25 8:58
LCS/CCV (7.0 Buffer)	wc240918a		

Conductivity Standard	LIMS ID	Reading	Date/Time
1,412 µS Std.	105373	1412	8/13/25 9:04

Turbidity Standard	LIMS ID	Reading	Date/Time
0 NTU (DI Water)	1	1.95	8/13/25 9:04
124 NTU	95834		

ORP Standard	LIMS ID/Lot#	Reading	Date/Time

D.O. Saturation	LIMS ID/Lot#	Reading	Date/Time
100%	N/A		

Sample ID	Sample Type	Date/Time	Temp. °C	pH S.U.	Conductivity µS	Turbidity NTU	ORP mV	D.O. %
LCS-2-JC	LCS	8/13/25 9:06	23.6	7.03	1,410	1.92		
CCV-2-JC	CCV	8/13/25 13:00	24.2	6.97	1,388	2.03		

Comments:

Site Samping Event: FGDS Landfill
LIMS Workorder: 25080111
Technician(s): DC, JC, BG, AL, JR, PY

Field Calibration Log(s)
CWLP- 3Q 2025

Field Temp SOP 1156 - SM 2550 B
Field pH SOP 1152 - SW-846 9040B - SM 4500-H B
Field Cond. SOP 1155 - SW-846 9050A - SM 2510 B

Field Meter ID: Pine 45612 Technician(s): A.Lampe Date: 8/11/2025

pH Standards	LIMS ID	Calibration reading	Date/Time
4.0 Buffer	WC250429L	4.00	8/11/25 10:09
7.0 Buffer	WC250407A	7.00	8/11/25 10:11
10.0 Buffer	Wc240625A	10.00	8/11/25 10:15
LCS/CCV (7.0 Buffer)	WC240918A		

Conductivity Standard	LIMS ID	Reading	Date/Time
1,412 µS Std.	105373	1412	8/11/25 10:19

Turbidity Standard	LIMS ID	Reading	Date/Time
0 NTU (DI Water)	1	0.13	8/11/25 10:19
124 NTU	95834		

ORP Standard	LIMS ID/Lot#	Reading	Date/Time

D.O. Saturation	LIMS ID/Lot#	Reading	Date/Time
100%	N/A		

Sample ID	Sample Type	Date/Time	Temp. °C	pH S.U.	Conductivity µS	Turbidity NTU	ORP mV	D.O. %
LCS-1-AL	LCS	8/11/25 10:21	21.9	7.07	1,416	0.13		
CCV-1-AL	CCV	8/11/25 14:16	25.7	7.09	1,412	0.23		

Comments:

Field Meter ID: Pine 45612 Technician(s): A.Lampe Date: 8/12/2025

pH Standards	LIMS ID	Calibration reading	Date/Time
4.0 Buffer	WC250429L	4.00	8/12/25 9:11
7.0 Buffer	WC250407A	7.00	8/12/25 9:15
10.0 Buffer	Wc240625A	10.00	8/12/25 9:20
LCS/CCV (7.0 Buffer)	WC240918A		

Conductivity Standard	LIMS ID	Reading	Date/Time
1,412 µS Std.	105373	1412	8/12/25 9:25

Turbidity Standard	LIMS ID	Reading	Date/Time
0 NTU (DI Water)	1	0.24	8/12/25 9:25
124 NTU	95834		

ORP Standard	LIMS ID/Lot#	Reading	Date/Time

D.O. Saturation	LIMS ID/Lot#	Reading	Date/Time
100%	N/A		

Sample ID	Sample Type	Date/Time	Temp. °C	pH S.U.	Conductivity µS	Turbidity NTU	ORP mV	D.O. %
LCS-2-AL	LCS	8/12/25 9:31	25.8	7.09	1,418	0.24		
CCV-2-AL	CCV	8/12/25 14:14	27.5	7.09	1,420	0.21		

Comments:

Site Samping Event: FGDS Landfill
LIMS Workorder: 25080111
Technician(s): DC, JC, BG, AL, JR, PY

Field Calibration Log(s)
CWLP- 3Q 2025

Field Temp SOP 1156 - SM 2550 B
Field pH SOP 1152 - SW-846 9040B - SM 4500-H B
Field Cond. SOP 1155 - SW-846 9050A - SM 2510 B

Field Meter ID: Pine 45612 Technician(s): A.Lampe Date: 8/13/2025

pH Standards	LIMS ID	Calibration reading	Date/Time
4.0 Buffer	WC250429L	4.00	8/13/25 9:06
7.0 Buffer	WC250407A	7.00	8/13/25 9:10
10.0 Buffer	Wc240625A	10.00	8/13/25 9:13
LCS/CCV (7.0 Buffer)	WC240918A		

Conductivity Standard	LIMS ID	Reading	Date/Time
1,412 µS Std.	105373	1412	8/13/25 9:16

Turbidity Standard	LIMS ID	Reading	Date/Time
0 NTU (DI Water)	1	0.12	8/13/25 9:17
124 NTU	95834		

ORP Standard	LIMS ID/Lot#	Reading	Date/Time

D.O. Saturation	LIMS ID/Lot#	Reading	Date/Time
100%	N/A		

Sample ID	Sample Type	Date/Time	Temp. °C	pH S.U.	Conductivity µS	Turbidity NTU	ORP mV	D.O. %
LCS-3-AL	LCS	8/13/25 9:16	25.3	7.09	1,413	0.12		
CCV-3-AL	CCV	8/13/25 12:35	27.6	7.09	1,406	0.14		

Comments:

Alliance Technical Group - Akron
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

September 10, 2025

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

RE: 25080111

Dear Shelly Hennessy: Order No.: 25081351

Alliance Technical Group - Akron received 5 sample(s) on 8/18/2025 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-0828, Florida NELAC E87688, Idaho OH00923, Illinois 200061, Indiana C-OH-13, ISO/IEC 17025:2017 119125 L22-544, 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 68-01335, Rhode Island LA000317, South Carolina 92016001, Texas T104704466-19-16, Utah OH009232020-12, Virginia VELAP 10381, West Virginia 9957C

Alliance Technical Group - Akron
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TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

Case Narrative

WO#: **25081351**
Date: **9/10/2025**

CLIENT: TEKLAB Inc,
Project: 25080111

WorkOrder Narrative:
25081351: 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 Alliance Technical Group Work Order Number assigned to this report.

Alliance Technical Group 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 Alliance Technical Group and that of the customer. It cannot be reproduced in any form without the consent of Alliance Technical Group 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. Alliance Technical Group 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 Sequence QC Notes:
LCS/LCSD-87010 Radium-226_DW(903.0): LCS and LCSD have RPD higher than criteria allows. Individually, each LCS and LCSD meet required criteria.

Original

Alliance Technical Group - Akro
3310 Win S
Cuyahoga Falls, Ohio 4422
TEL: (330) 253-8211 FAX: (330) 253-448
Website: http://www.settek.co

Qualifiers and Acronyms

WO#: **25081351**
Date: **9/10/2025**

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.

Alliance Technical Group - Akron
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TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

Workorder Sample Summary

WO#: **25081351**

10-Sep-25

CLIENT: TEKLAB Inc,
Project: 25080111

Lab SampleID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
25081351-001	25080111-001		8/11/2025 12:18:00 PM	8/18/2025 2:30:00 PM	Non-Potable Water
25081351-002	25080111-002		8/11/2025 11:23:00 AM	8/18/2025 2:30:00 PM	Non-Potable Water
25081351-003	25080111-003		8/11/2025 12:12:00 PM	8/18/2025 2:30:00 PM	Non-Potable Water
25081351-004	25080111-004		8/11/2025 12:56:00 PM	8/18/2025 2:30:00 PM	Non-Potable Water
25081351-005	25080111-005		8/11/2025 11:23:00 AM	8/18/2025 2:30:00 PM	Non-Potable Water

Alliance Technical Group - Akron
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

DATES REPORT

WO#: **25081351**

10-Sep-25

Client: TEKLAB Inc,
Project: 25080111

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
25081351-001A	25080111-001	8/11/2025 12:18:00 PM	Non-Potable Water	Radium-226 (903.0)		8/19/2025 12:56:00 PM	8/25/2025 3:02:00 PM
				Radium-226/228 (903.0/904.0)		8/19/2025 12:56:00 PM	8/25/2025 3:02:00 PM
				Radium-228 (904.0)		8/19/2025 12:56:00 PM	8/22/2025 2:44:00 PM
25081351-002A	25080111-002	8/11/2025 11:23:00 AM		Radium-226 (903.0)		8/19/2025 12:56:00 PM	8/25/2025 3:02:00 PM
				Radium-226/228 (903.0/904.0)		9/4/2025 8:45:00 AM	9/9/2025 2:44:00 PM
				Radium-228 (904.0)		9/4/2025 8:45:00 AM	9/9/2025 11:15:00 AM
				Radium-228 (904.0)		8/19/2025 12:56:00 PM	8/22/2025 2:44:00 PM
				Radium-228 (904.0)		8/25/2025 10:52:32 AM	8/29/2025 12:33:00 PM
25081351-003A	25080111-003	8/11/2025 12:12:00 PM		Radium-226 (903.0)		8/19/2025 12:56:00 PM	8/25/2025 3:02:00 PM
				Radium-226/228 (903.0/904.0)		8/19/2025 12:56:00 PM	8/25/2025 3:02:00 PM
				Radium-228 (904.0)		8/19/2025 12:56:00 PM	8/22/2025 2:44:00 PM
25081351-004A	25080111-004	8/11/2025 12:56:00 PM		Radium-226 (903.0)		8/19/2025 12:56:00 PM	8/25/2025 3:02:00 PM
				Radium-226/228 (903.0/904.0)		8/19/2025 12:56:00 PM	8/25/2025 3:02:00 PM
				Radium-228 (904.0)		8/19/2025 12:56:00 PM	8/22/2025 2:44:00 PM
25081351-005A	25080111-005	8/11/2025 11:23:00 AM		Radium-226 (903.0)		8/19/2025 12:56:00 PM	8/25/2025 3:02:00 PM
				Radium-226/228 (903.0/904.0)		8/19/2025 12:56:00 PM	8/25/2025 3:02:00 PM
				Radium-228 (904.0)		8/19/2025 12:56:00 PM	8/22/2025 2:44:00 PM

Original

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3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
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Analytical Report

(consolidated)

WO#: **25081351**

Date Reported: **9/10/2025**

CLIENT: TEKLAB Inc,

Collection Date: 8/11/2025 12:18:00 PM

Project: 25080111

Lab ID: 25081351-001

Matrix: NON-POTABLE WATER

Client Sample ID: 25080111-001

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
COMBINED RADIUM-226/228					**MBDRA226RA22**	**E903-904**	Analyst: **SEE**
RADIUM-226/228 (903.0/904.0)							
Radium-226/Radium-228 Combined	ND	2.00		pCi/L	± 0.370	1	8/25/2025 3:02:00 PM
COMBINED RADIUM-226/228					**E903.0**	**E903-904**	Analyst: **SEE**
RADIUM-226 (903.0)							
Radium-226	ND	1.00		pCi/L	± 0.0400	1	8/25/2025 3:02:00 PM
Yield	1.00					1	8/25/2025 3:02:00 PM
COMBINED RADIUM-226/228					**E904.0**	**E903-904**	Analyst: **SEE**
RADIUM-228 (904.0)							
Radium-228	ND	1.00		pCi/L	± 0.330	1	8/22/2025 2:44:00 PM
Yield	1.00					1	8/22/2025 2:44:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
R	RPD outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode
M	Manual Integration used to determine area response
PL	Permit Limit
RL	Reporting Detection Limit

Original

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Analytical Report

(consolidated)

WO#: **25081351**

Date Reported: **9/10/2025**

CLIENT: TEKLAB Inc,

Collection Date: 8/11/2025 11:23:00 AM

Project: 25080111

Lab ID: 25081351-002

Matrix: NON-POTABLE WATER

Client Sample ID: 25080111-002

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
COMBINED RADIUM-226/228					**MBDRA226RA22**	**E903-904**	Analyst: **SEE**
RADIUM-226/228 (903.0/904.0)							
Radium-226/Radium-228 Combined	2.68	2.00		pCi/L	± 0.670	1	9/9/2025 2:44:00 PM
COMBINED RADIUM-226/228					**E903.0**	**E903-904**	Analyst: **SEE**
RADIUM-226 (903.0)							
Radium-226	1.26	1.00		pCi/L	± 0.140	1	8/25/2025 3:02:00 PM
Yield	1.00					1	8/25/2025 3:02:00 PM
COMBINED RADIUM-226/228					**E904.0**	**E903-904**	Analyst: **SEE**
RADIUM-228 (904.0)							
Radium-228	1.42	1.00		pCi/L	± 0.530	1	9/9/2025 11:15:00 AM
Yield	0.960					1	9/9/2025 11:15:00 AM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
R	RPD outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode
M	Manual Integration used to determine area response
PL	Permit Limit
RL	Reporting Detection Limit

Original

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Analytical Report

(consolidated)

WO#: **25081351**

Date Reported: **9/10/2025**

CLIENT: TEKLAB Inc,

Collection Date: 8/11/2025 12:12:00 PM

Project: 25080111

Lab ID: 25081351-003

Matrix: NON-POTABLE WATER

Client Sample ID: 25080111-003

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
COMBINED RADIUM-226/228					**MBDRA226RA22**	**E903-904**	Analyst: **SEE**
RADIUM-226/228 (903.0/904.0)							
Radium-226/Radium-228 Combined	ND	2.00		pCi/L	± 0.540	1	8/25/2025 3:02:00 PM
COMBINED RADIUM-226/228					**E903.0**	**E903-904**	Analyst: **SEE**
RADIUM-226 (903.0)							
Radium-226	ND	1.00		pCi/L	± 0.0800	1	8/25/2025 3:02:00 PM
Yield	1.00					1	8/25/2025 3:02:00 PM
COMBINED RADIUM-226/228					**E904.0**	**E903-904**	Analyst: **SEE**
RADIUM-228 (904.0)							
Radium-228	ND	1.00		pCi/L	± 0.460	1	8/22/2025 2:44:00 PM
Yield	1.00					1	8/22/2025 2:44:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
R	RPD outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode
M	Manual Integration used to determine area response
PL	Permit Limit
RL	Reporting Detection Limit

Original

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Analytical Report

(consolidated)

WO#: **25081351**

Date Reported: **9/10/2025**

CLIENT: TEKLAB Inc,

Collection Date: 8/11/2025 12:56:00 PM

Project: 25080111

Lab ID: 25081351-004

Matrix: NON-POTABLE WATER

Client Sample ID: 25080111-004

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
COMBINED RADIUM-226/228					**MBDRA226RA22**	**E903-904**	Analyst: **SEE**
RADIUM-226/228 (903.0/904.0)							
Radium-226/Radium-228 Combined	ND	2.00		pCi/L	± 0.500	1	8/25/2025 3:02:00 PM
COMBINED RADIUM-226/228					**E903.0**	**E903-904**	Analyst: **SEE**
RADIUM-226 (903.0)							
Radium-226	ND	1.00		pCi/L	± 0.0900	1	8/25/2025 3:02:00 PM
Yield	1.00					1	8/25/2025 3:02:00 PM
COMBINED RADIUM-226/228					**E904.0**	**E903-904**	Analyst: **SEE**
RADIUM-228 (904.0)							
Radium-228	ND	1.00		pCi/L	± 0.410	1	8/22/2025 2:44:00 PM
Yield	1.00					1	8/22/2025 2:44:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
R	RPD outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode
M	Manual Integration used to determine area response
PL	Permit Limit
RL	Reporting Detection Limit

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Analytical Report

(consolidated)

WO#: **25081351**

Date Reported: **9/10/2025**

CLIENT: TEKLAB Inc,
Project: 25080111
Lab ID: 25081351-005
Client Sample ID: 25080111-005

Collection Date: 8/11/2025 11:23:00 AM
Matrix: NON-POTABLE WATER

Analyses	Result	RL	Qual	Units	Uncertainty	DF	Date Analyzed
COMBINED RADIUM-226/228 RADIUM-226/228 (903.0/904.0)				**MBDRA226RA22**	**E903-904**		Analyst: **SEE**
Radium-226/Radium-228 Combined	ND	2.00		pCi/L	± 0.400	1	8/25/2025 3:02:00 PM
COMBINED RADIUM-226/228 RADIUM-226 (903.0)					**E903.0**	**E903-904**	Analyst: **SEE**
Radium-226	ND	1.00		pCi/L	± 0.0900	1	8/25/2025 3:02:00 PM
Yield	1.00					1	8/25/2025 3:02:00 PM
COMBINED RADIUM-226/228 RADIUM-228 (904.0)					**E904.0**	**E903-904**	Analyst: **SEE**
Radium-228	ND	1.00		pCi/L	± 0.310	1	8/22/2025 2:44:00 PM
Yield	1.00					1	8/22/2025 2:44:00 PM

Qualifiers:

H	Holding times for preparation or analysis exceeded
ND	Not Detected
R	RPD outside accepted recovery limits
W	Sample container temperature is out of limit as specified at testcode
M	Manual Integration used to determine area response
PL	Permit Limit
RL	Reporting Detection Limit

Original

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QC SUMMARY REPORT

WO#: **25081351**

10-Sep-25

Client: TEKLAB Inc,
Project: 25080111 **BatchID:** **86743**

Sample ID: **MB-86743**	SampType: **MBLK**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **8/19/2025**	RunNo: **215359**
Client ID: **BatchQC**	Batch ID: **86743**	TestNo: **E904.0**	**E903-904**	Analysis Date: **8/22/2025**	SeqNo: **5747424**

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-86743**	SampType: **LCS**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **8/19/2025**	RunNo: **215359**
Client ID: **BatchQC**	Batch ID: **86743**	TestNo: **E904.0**	**E903-904**	Analysis Date: **8/22/2025**	SeqNo: **5747425**

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	50	130				
Yield	1.00			0	0						

Sample ID: **LCSD-86743**	SampType: **LCSD**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **8/19/2025**	RunNo: **215359**
Client ID: **BatchQC**	Batch ID: **86743**	TestNo: **E904.0**	**E903-904**	Analysis Date: **8/22/2025**	SeqNo: **5747426**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	4.10	1.00	5.000	0	82.0	50	130	4.010	2.22	20	
Yield	1.00			0	0			1.000	0		

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode				

Original

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Website: http://www.settek.com

QC SUMMARY REPORT

WO#: **25081351**

10-Sep-25

Client: TEKLAB Inc,
Project: 25080111 **BatchID:** **86743**

Sample ID: **25080119-002ADUP** SampType: **DUP** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **8/19/2025** RunNo: **215359**
Client ID: **BatchQC** Batch ID: **86743** TestNo: **E904.0** **E903-904** Analysis Date: **8/22/2025** SeqNo: **5747448**

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:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode				

Original

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QC SUMMARY REPORT

WO#: **25081351**

10-Sep-25

Client: TEKLAB Inc,
Project: 25080111 **BatchID:** **86743**

Sample ID: **MB-86743**	SampType: **MBLK**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **8/19/2025**	RunNo: **215370**
Client ID: **BatchQC**	Batch ID: **86743**	TestNo: **E903.0**	**E903-904**	Analysis Date: **8/25/2025**	SeqNo: **5747784**

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-86743**	SampType: **LCS**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **8/19/2025**	RunNo: **215370**
Client ID: **BatchQC**	Batch ID: **86743**	TestNo: **E903.0**	**E903-904**	Analysis Date: **8/25/2025**	SeqNo: **5747785**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	5.40	1.00	5.000	0	108	70	130				

Sample ID: **LCSD-86743**	SampType: **LCSD**	TestCode: **Radium-226_**	Units: **pCi/L**	Prep Date: **8/19/2025**	RunNo: **215370**
Client ID: **BatchQC**	Batch ID: **86743**	TestNo: **E903.0**	**E903-904**	Analysis Date: **8/25/2025**	SeqNo: **5747786**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-226	5.01	1.00	5.000	0	100	70	130	5.400	7.49	20	

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode				

Original

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QC SUMMARY REPORT

WO#: **25081351**

10-Sep-25

Client: TEKLAB Inc,
Project: 25080111 **BatchID:** **87010**

Sample ID: **25080950-001ADUP** SampType: **DUP** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **9/4/2025** RunNo: **216248**
Client ID: **BatchQC** Batch ID: **87010** TestNo: **E904.0** **E903-904** Analysis Date: **9/9/2025** SeqNo: **5767899**

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			0.9700	3.05		

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode				

Original

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QC SUMMARY REPORT

WO#: **25081351**

10-Sep-25

Client: TEKLAB Inc,
Project: 25080111 **BatchID:** **87010**

Sample ID: **MB-87010**	SampType: **MBLK**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **9/4/2025**	RunNo: **216248**
Client ID: **BatchQC**	Batch ID: **87010**	TestNo: **E904.0**	**E903-904**	Analysis Date: **9/9/2025**	SeqNo: **5767884**

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-87010**	SampType: **LCS**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **9/4/2025**	RunNo: **216248**
Client ID: **BatchQC**	Batch ID: **87010**	TestNo: **E904.0**	**E903-904**	Analysis Date: **9/9/2025**	SeqNo: **5767885**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	3.32	1.00	5.000	0	66.4	50	130				
Yield	1.00			0	0						

Sample ID: **LCSD-87010**	SampType: **LCSD**	TestCode: **Radium-228_**	Units: **pCi/L**	Prep Date: **9/4/2025**	RunNo: **216248**
Client ID: **BatchQC**	Batch ID: **87010**	TestNo: **E904.0**	**E903-904**	Analysis Date: **9/9/2025**	SeqNo: **5767886**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Radium-228	3.71	1.00	5.000	0	74.2	50	130	3.320	11.1	20	
Yield	1.00			0	0			1.000	0		

Qualifiers:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode				

Original

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Website: http://www.settek.com

QC SUMMARY REPORT

WO#: **25081351**

10-Sep-25

Client: TEKLAB Inc,
Project: 25080111 **BatchID:** **87010**

Sample ID: **25081010-001ADUP** SampType: **DUP** TestCode: **Radium-228_** Units: **pCi/L** Prep Date: **9/4/2025** RunNo: **216248**
Client ID: **BatchQC** Batch ID: **87010** TestNo: **E904.0** **E903-904** Analysis Date: **9/9/2025** SeqNo: **5767908**

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:

H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response	ND	Not Detected
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
W	Sample container temperature is out of limit as specified at testcode				

Original

Pg — of 25081351

TEKLAB, INC. Chain of Custody

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

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: Client QC Level: 2

Comments: **Please Issue reports and invoices via email only**
SHIP to ATG-Akron. Please analyze for Radium 226/228 per your usual methods.
Any changes to analysis/methods must be approved by Teklab, Inc. Batch QC is required.

Project# 25080111

Contact: Shelly Hennessy Email: shennessy@TekLabInc.com
Requested Due Date: 10 day TAT Billing/PO: 39203 Phone: (618) 344-1004 ext.36 State of Sample Origin = IL

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.

Lab Use	Sample ID	Sample Date/Time	Preservative	Matrix	Radium 226/228
CDM18,30,28	25080111-001 pHc2,2,2	8/11/25 1218	HNO3	Groundwater	✔
CPM20,34,20	25080111-002 pHc2,2,2	8/11/25 1123	HNO3	Groundwater	✔
CPM16,32,20	25080111-003 pHc2,2,2	8/11/25 1212	HNO3	Groundwater	✔
CAM32,24,22	25080111-004 pHc2,2,2	8/11/25 1256	HNO3	Groundwater	✔
CAM26,26,14	25080111-005 pHc2,2,2	8/11/25 1123	HNO3	Groundwater	✔
			HNO3	Groundwater	
			HNO3	Groundwater	
			HNO3	Groundwater	
			HNO3	Groundwater	
			HNO3	Groundwater	
			Other	Aqueous	

*Relinquished By	Date/Time	Received By	Date/Time
[signature]	8/13/25 1700	[signature] 8/18/25	1430
		21.8 - 0.1 = 21.7	

Cust seal 4498 8/13/25

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)

SubCocRevA 3/2/2016

Alliance Technical Group - Akron
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: http://www.settek.com

Sample Log-In Check List

Client Name: **TEK-IL-62234-A** Work Order Number: **25081351** RcptNo: **1**

Logged by:	**Spencer M. Hartwell**	**8/18/2025 2:30:00 PM**	Spencer M. Hartwell
Completed By:	**Spencer M. Hartwell**	**8/18/2025 4:14:41 PM**	Spencer M. Hartwell
Reviewed By:	**Jennifer Woolf**	**8/18/2025 7:26:07 PM**	Jennifer Woolf

Chain of Custody

1. Is Chain of Custody complete? Yes ☑ No ☐ Not Present ☐
2. How was the sample delivered? FedEx

Log In

3. Coolers are present? Yes ☑ No ☐ NA ☐
4. Shipping container/cooler in good condition? Yes ☑ No ☐
   Custody seals intact on shipping container/cooler? Yes ☑ No ☐ Not Present ☐ NA ☐
   No. 4498 Seal Date: 8/13/2025 Signed By:
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 ☐
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? Yes ☑ No ☐
    (Note discrepancies on chain of custody)
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? Yes ☑ No ☐
    (If no, notify customer for authorization.)

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 ºC	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	21.7	Good		4498	8/13/2025	

November 24, 2025

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
Illinois	1004652024-2
Kansas	E-10438
Kansas	E-10374
Louisiana	05002
Louisiana	05003
Oklahoma	9978

RE: Landfill Monitoring Wells **WorkOrder:** 25110402

Dear Eric Staley:

TEKLAB, INC received 12 samples on 11/13/2025 4:30:00 PM 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

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

Client: City Water, Light & Power
Client Project: Landfill Monitoring Wells

Work Order: 25110402
Report Date: 24-Nov-25

This reporting package includes the following:

Cover Letter	1
Report Contents	2
Definitions	3
Case Narrative	5
Accreditations	6
Laboratory Results	7
Receiving Check List	18
Chain of Custody	Appended

Client: City Water, Light & Power **Work Order:** 25110402

Client Project: Landfill Monitoring Wells **Report Date:** 24-Nov-25

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: 25110402
Client Project: Landfill Monitoring Wells
Report Date: 24-Nov-25

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
Client Project: Landfill Monitoring Wells

Work Order: 25110402
Report Date: 24-Nov-25

Cooler Receipt Temp: 4.3 °C

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

G113 was dry, no sample collected.

Locations

Collinsville

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

Springfield

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

Kansas City

Address 8421 Nieman Road
Lenexa, KS 66214
Phone (913) 541-1998
Fax (913) 541-1998
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

Chicago

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

Client: City Water, Light & Power

Work Order: 25110402

Client Project: Landfill Monitoring Wells

Report Date: 24-Nov-25

State	Dept	Cert #	NELAP	Exp Date	Lab
Illinois	IEPA	100226	NELAP	1/31/2026	Collinsville
Illinois	IEPA	1004652024-2	NELAP	4/30/2026	Collinsville
Kansas	KDHE	E-10438	NELAP	7/31/2026	Collinsville
Kansas	KDHE	E-10374	NELAP	4/30/2026	Collinsville
Louisiana	LDEQ	05002	NELAP	6/30/2026	Collinsville
Louisiana	LDEQ	05003	NELAP	6/30/2026	Collinsville
Oklahoma	ODEQ	9978	NELAP	8/31/2025	Collinsville
Arkansas	ADEQ	88-0966		3/14/2026	Collinsville
Illinois	IDPH	17584		5/31/2025	Collinsville
Iowa	IDNR	430		6/1/2026	Collinsville
Kentucky	KWLCP	KY98050		12/31/2025	Collinsville
Kentucky	KWLCP	KY98006		12/31/2025	Collinsville
Kentucky	UST	0073		1/31/2026	Collinsville
Mississippi	MSDH			4/30/2026	Collinsville
Missouri	MDNR	930		1/31/2028	Collinsville
Missouri	MDNR	00930		10/31/2026	Collinsville

Client: City Water, Light & Power
Work Order: 25110402
Client Project: Landfill Monitoring Wells
Report Date: 24-Nov-25
Lab ID: 25110402-001
Client Sample ID: R101
Matrix: GROUNDWATER
Collection Date: 11/12/2025 12:22

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**511.53**	ft	1	11/12/2025 12:22	R374955
Depth to water	*	-5.00		**7.03**	ft	1	11/12/2025 12:22	R374955
Depth to water from measuring point	*	0		**9.83**	ft	1	11/12/2025 12:22	R374955
Elevation of groundwater surface	*	0		**536.97**	ft	1	11/12/2025 12:22	R374955
Measuring Point Elevation	*	0		**546.80**	ft	1	11/12/2025 12:22	R374955
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**58.0**	°F	1	11/12/2025 12:22	R374955
SW-846 9040B								
pH, Field	*	1.00		**7.49**		1	11/12/2025 12:22	R374955
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1360**	µmhos/cm @25C	1	11/12/2025 12:22	R374955
EPA 600 350.1 R2.0 (1993) (DISSOLVED)								
Nitrogen, Ammonia (as N)	NELAP	0.10		**4.72**	mg/L	1	11/18/2025 0:26	R374797
EPA 600 353.2 R2.0 (1993) (DISSOLVED)								
Nitrogen, Nitrate (as N)	NELAP	0.050		**< 0.050**	mg/L	1	11/12/2025 18:52	R374565
STANDARD METHODS 2540 C (DISSOLVED) 2020								
Total Dissolved Solids	NELAP	20		**930**	mg/L	1	11/17/2025 14:04	R374847
SW-846 9012A (TOTAL)								
Cyanide	NELAP	0.005		**< 0.005**	mg/L	1	11/19/2025 15:10	248161
SW846 9056A DISSOLVED ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Chloride	NELAP	5.00		**108**	mg/L	10	11/13/2025 14:31	R374691
Sulfate	NELAP	10.0		**251**	mg/L	10	11/13/2025 14:31	R374691
SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)								
Boron	NELAP	20.0		**116**	µg/L	1	11/19/2025 16:11	247839
Cadmium	NELAP	2.0		**< 2.0**	µg/L	1	11/19/2025 16:11	247839
Chromium	NELAP	4.0		**< 4.0**	µg/L	1	11/19/2025 16:11	247839
Magnesium	NELAP	0.050		**63.4**	mg/L	1	11/19/2025 16:11	247839
Zinc	NELAP	10.0		**< 10.0**	µg/L	1	11/19/2025 16:11	247839
SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)								
Arsenic	NELAP	1.0		**5.5**	µg/L	5	11/13/2025 18:04	247839
Lead	NELAP	1.0		**8.9**	µg/L	5	11/14/2025 17:55	247839
SW-846 7470A (DISSOLVED)								
Mercury	NELAP	0.20		**< 0.20**	µg/L	1	11/14/2025 18:45	247892

Client: City Water, Light & Power
Work Order: 25110402
Client Project: Landfill Monitoring Wells
Report Date: 24-Nov-25
Lab ID: 25110402-007
Client Sample ID: G121
Matrix: GROUNDWATER
Collection Date: 11/13/2025 11:06

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**497.04**	ft	1	11/13/2025 11:06	R374955
Depth to water	*	-5.00		**28.84**	ft	1	11/13/2025 11:06	R374955
Depth to water from measuring point	*	0		**30.71**	ft	1	11/13/2025 11:06	R374955
Elevation of groundwater surface	*	0		**524.89**	ft	1	11/13/2025 11:06	R374955
Measuring Point Elevation	*	0		**555.60**	ft	1	11/13/2025 11:06	R374955
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**57.6**	°F	1	11/13/2025 11:06	R374955
SW-846 9040B								
pH, Field	*	1.00		**6.76**		1	11/13/2025 11:06	R374955
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1410**	µmhos/cm @25C	1	11/13/2025 11:06	R374955
EPA 600 350.1 R2.0 (1993) (DISSOLVED)								
Nitrogen, Ammonia (as N)	NELAP	1.00		**8.34**	mg/L	10	11/18/2025 14:33	R374829
EPA 600 353.2 R2.0 (1993) (DISSOLVED)								
Nitrogen, Nitrate (as N)	NELAP	0.050		**< 0.050**	mg/L	1	11/14/2025 17:40	R374739
STANDARD METHODS 2540 C (DISSOLVED) 2020								
Total Dissolved Solids	NELAP	20		**1110**	mg/L	1	11/18/2025 13:43	R374847
SW-846 9012A (TOTAL)								
Cyanide	NELAP	0.005		**< 0.005**	mg/L	1	11/19/2025 15:49	248161
SW846 9056A DISSOLVED ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Chloride	NELAP	5.00		**30.3**	mg/L	10	11/16/2025 19:43	R374783
Sulfate	NELAP	10.0		**340**	mg/L	10	11/16/2025 19:43	R374783
SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)								
Boron	NELAP	20.0		**3570**	µg/L	1	11/20/2025 12:48	247981
Cadmium	NELAP	2.0		**< 2.0**	µg/L	1	11/19/2025 19:31	247981
Chromium	NELAP	4.0		**< 4.0**	µg/L	1	11/19/2025 19:31	247981
Magnesium	NELAP	0.050		**78.6**	mg/L	1	11/20/2025 12:48	247981
Zinc	NELAP	10.0		**< 10.0**	µg/L	1	11/19/2025 19:31	247981
SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)								
Arsenic	NELAP	1.0		**12.6**	µg/L	5	11/15/2025 9:42	247981
Lead	NELAP	1.0		**< 1.0**	µg/L	5	11/15/2025 9:42	247981
SW-846 7470A (DISSOLVED)								
Mercury	NELAP	0.20		**< 0.20**	µg/L	1	11/18/2025 13:45	247982

Client: City Water, Light & Power
Work Order: 25110402
Client Project: Landfill Monitoring Wells
Report Date: 24-Nov-25
Lab ID: 25110402-008
Client Sample ID: G122
Matrix: GROUNDWATER
Collection Date: 11/13/2025 11:38

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**505.11**	ft	1	11/13/2025 11:38	R374955
Depth to water	*	-5.00		**32.07**	ft	1	11/13/2025 11:38	R374955
Depth to water from measuring point	*	0		**33.81**	ft	1	11/13/2025 11:38	R374955
Elevation of groundwater surface	*	0		**520.59**	ft	1	11/13/2025 11:38	R374955
Measuring Point Elevation	*	0		**554.40**	ft	1	11/13/2025 11:38	R374955
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**63.6**	°F	1	11/13/2025 11:38	R374955
SW-846 9040B								
pH, Field	*	1.00		**6.86**		1	11/13/2025 11:38	R374955
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1590**	µmhos/cm @25C	1	11/13/2025 11:38	R374955
EPA 600 350.1 R2.0 (1993) (DISSOLVED)								
Nitrogen, Ammonia (as N)	NELAP	0.10		**1.89**	mg/L	1	11/18/2025 0:54	R374797
EPA 600 353.2 R2.0 (1993) (DISSOLVED)								
Nitrogen, Nitrate (as N)	NELAP	0.050		**0.458**	mg/L	1	11/14/2025 17:42	R374739
STANDARD METHODS 2540 C (DISSOLVED) 2020								
Total Dissolved Solids	NELAP	20		**1430**	mg/L	1	11/18/2025 13:44	R374847
SW-846 9012A (TOTAL)								
Cyanide	NELAP	0.005		**< 0.005**	mg/L	1	11/19/2025 16:15	248161
SW846 9056A DISSOLVED ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Chloride	NELAP	5.00		**38.5**	mg/L	10	11/16/2025 19:56	R374783
Sulfate	NELAP	10.0		**545**	mg/L	10	11/16/2025 19:56	R374783
SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)								
Boron	NELAP	20.0		**10000**	µg/L	1	11/20/2025 12:50	247981
Cadmium	NELAP	2.0		**< 2.0**	µg/L	1	11/19/2025 19:33	247981
Chromium	NELAP	4.0		**< 4.0**	µg/L	1	11/19/2025 19:33	247981
Magnesium	NELAP	0.050		**88.4**	mg/L	1	11/20/2025 12:50	247981
Zinc	NELAP	10.0		**< 10.0**	µg/L	1	11/19/2025 19:33	247981
SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)								
Arsenic	NELAP	1.0		**1.6**	µg/L	5	11/18/2025 2:37	247981
Lead	NELAP	1.0		**< 1.0**	µg/L	5	11/15/2025 9:48	247981
SW-846 7470A (DISSOLVED)								
Mercury	NELAP	0.20		**< 0.20**	µg/L	1	11/18/2025 13:47	247982

Client: City Water, Light & Power **Work Order:** 25110402

Client Project: Landfill Monitoring Wells **Report Date:** 24-Nov-25

Lab ID: 25110402-010 **Client Sample ID:** AW-2

Matrix: GROUNDWATER **Collection Date:** 11/13/2025 12:22

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**497.34**	ft	1	11/13/2025 12:22	R374955
Depth to water	*	-5.00		**5.22**	ft	1	11/13/2025 12:22	R374955
Depth to water from measuring point	*	0		**8.52**	ft	1	11/13/2025 12:22	R374955
Elevation of groundwater surface	*	0		**521.46**	ft	1	11/13/2025 12:22	R374955
Measuring Point Elevation	*	0		**529.98**	ft	1	11/13/2025 12:22	R374955
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**58.5**	°F	1	11/13/2025 12:22	R374955
SW-846 9040B								
pH, Field	*	1.00		**6.82**		1	11/13/2025 12:22	R374955
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**1120**	µmhos/cm @25C	1	11/13/2025 12:22	R374955
EPA 600 350.1 R2.0 (1993) (DISSOLVED)								
Nitrogen, Ammonia (as N)	NELAP	0.10		**4.75**	mg/L	1	11/18/2025 1:14	R374797
EPA 600 353.2 R2.0 (1993) (DISSOLVED)								
Nitrogen, Nitrate (as N)	NELAP	0.050		**< 0.050**	mg/L	1	11/14/2025 17:46	R374739
STANDARD METHODS 2540 C (DISSOLVED) 2020								
Total Dissolved Solids	NELAP	20		**812**	mg/L	1	11/18/2025 13:46	R374847
SW-846 9012A (TOTAL)								
Cyanide	NELAP	0.005		**< 0.005**	mg/L	1	11/19/2025 16:24	248161
SW846 9056A DISSOLVED ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Chloride	NELAP	5.00		**29.6**	mg/L	10	11/16/2025 20:21	R374783
Sulfate	NELAP	10.0		**140**	mg/L	10	11/16/2025 20:21	R374783
SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)								
Boron	NELAP	20.0		**2630**	µg/L	1	11/20/2025 12:53	247981
Cadmium	NELAP	2.0		**< 2.0**	µg/L	1	11/19/2025 19:36	247981
Chromium	NELAP	4.0		**< 4.0**	µg/L	1	11/19/2025 19:36	247981
Magnesium	NELAP	0.050		**57.1**	mg/L	1	11/20/2025 12:53	247981
Zinc	NELAP	10.0		**< 10.0**	µg/L	1	11/19/2025 19:36	247981
SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)								
Arsenic	NELAP	1.0		**13.4**	µg/L	5	11/15/2025 10:00	247981
Lead	NELAP	1.0		**< 1.0**	µg/L	5	11/15/2025 10:00	247981
SW-846 7470A (DISSOLVED)								
Mercury	NELAP	0.20		**< 0.20**	µg/L	1	11/18/2025 13:52	247982

Client: City Water, Light & Power
Work Order: 25110402
Client Project: Landfill Monitoring Wells
Report Date: 24-Nov-25
Lab ID: 25110402-011
Client Sample ID: RW-3
Matrix: GROUNDWATER
Collection Date: 11/12/2025 13:56

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		**495.49**	ft	1	11/12/2025 13:56	R374955
Depth to water	*	-5.00		**10.78**	ft	1	11/12/2025 13:56	R374955
Depth to water from measuring point	*	0		**13.48**	ft	1	11/12/2025 13:56	R374955
Elevation of groundwater surface	*	0		**526.02**	ft	1	11/12/2025 13:56	R374955
Measuring Point Elevation	*	0		**539.50**	ft	1	11/12/2025 13:56	R374955
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		**58.8**	°F	1	11/12/2025 13:56	R374955
SW-846 9040B								
pH, Field	*	1.00		**7.09**		1	11/12/2025 13:56	R374955
SW-846 9050A								
Spec. Conductance, Field	*	1.00		**780**	µmhos/cm @25C	1	11/12/2025 13:56	R374955
EPA 600 350.1 R2.0 (1993) (DISSOLVED)								
Nitrogen, Ammonia (as N)	NELAP	0.10		**2.42**	mg/L	1	11/18/2025 1:19	R374797
EPA 600 353.2 R2.0 (1993) (DISSOLVED)								
Nitrogen, Nitrate (as N)	NELAP	0.050		**< 0.050**	mg/L	1	11/12/2025 19:11	R374565
STANDARD METHODS 2540 C (DISSOLVED) 2020								
Total Dissolved Solids	NELAP	20		**446**	mg/L	1	11/17/2025 14:04	R374847
SW-846 9012A (TOTAL)								
Cyanide	NELAP	0.005		**< 0.005**	mg/L	1	11/19/2025 16:28	248161
SW846 9056A DISSOLVED ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Chloride	NELAP	5.00		**27.3**	mg/L	10	11/13/2025 15:34	R374691
Sulfate	NELAP	10.0		**ND**	mg/L	10	11/13/2025 15:34	R374691
SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)								
Boron	NELAP	20.0		**144**	µg/L	1	11/19/2025 16:13	247839
Cadmium	NELAP	2.0		**< 2.0**	µg/L	1	11/19/2025 16:13	247839
Chromium	NELAP	4.0		**< 4.0**	µg/L	1	11/19/2025 16:13	247839
Magnesium	NELAP	0.050		**27.1**	mg/L	1	11/19/2025 16:13	247839
Zinc	NELAP	10.0		**< 10.0**	µg/L	1	11/19/2025 16:13	247839
SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)								
Arsenic	NELAP	1.0		**100**	µg/L	5	11/13/2025 19:01	247839
Lead	NELAP	1.0		**< 1.0**	µg/L	5	11/14/2025 18:00	247839
SW-846 7470A (DISSOLVED)								
Mercury	NELAP	0.20		**< 0.20**	µg/L	1	11/14/2025 18:52	247892

Receiving Check List

http://www.teklabinc.com/

Client: City Water, Light & Power
Client Project: Landfill Monitoring Wells

Work Order: 25110402
Report Date: 24-Nov-25

Carrier: Justin Colp

Received By: EK

Completed by: Emily Kossakoski
On: 12-Nov-25
Emily Kossakoski

Reviewed by: Shelly A Hennessy
On: 14-Nov-25
Shelly A. Hennessy

Pages to follow: Chain of custody 3 Extra pages included 15

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐	Temp °C 4.3
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 #104524/98858. - DM/ekossakoski - 11/12/2025 4:46:13 PM

Samples were received on 11/13/25 at 16:30 on ice [temp4.1C, 9.3C - LTG#5]. pH# 104524/98858. Added sodium hydroxide (107682) to all samples. - lhenson - 11/14/2025 7:47:35 AM

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CHAIN OF CUSTODY

Pg 1 of 2 Workorder # 25110402

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

Client: City Water, Light & Power
Address: 3100 Stevenson Drive, 2nd Floor Maintenance Building
City/State/Zip: Springfield IL 62712
Contact: Eric Staley Phone: (217) 757-8610
Email: eric.staley@cwlp.com Fax:

Samples on: [x] ICE [ ] BLUE ICE [ ] NO ICE 4.3 °C 9
Preserved in: [ ] LAB [x] FIELD FOR LAB USE ONLY
LAB NOTES:
PH: 184524/98858 Rm: 11-12-25

Client Comments:
Quarters 1, 3, & 4
*elevations, pH, conductivity, temperature
**As B Cd Cr Pb Mg Hg Zn

Are these samples known to be involved in litigation? If yes, a surcharge will apply: [ ] Yes [x] No
Are these samples known to be hazardous? [ ] Yes [x] No
Are there any required reporting limits to be met on the requested analysis?. If yes, please provide limits in the comment section: [x] Yes [ ] No Permit on file

PROJECT NAME/NUMBER: Landfill Monitoring Wells
SAMPLE COLLECTOR'S NAME: Justin Clp

RESULTS REQUESTED: [x] Standard [ ] 1-2 Day (100% Surcharge) [ ] Other _____ [ ] 3 Day (50% Surcharge)
BILLING INSTRUCTIONS:

Lab Use Only	Sample ID	Date/Time Sampled	Matrix	# and Type of Containers: UNP	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	TSP	Other	INDICATE ANALYSIS REQUESTED: Field parameters*	Cl SO4 TDS (D)	Metals (D)**	Cyanide	Nitrate (D)	Ammonia (D)
25110402-001	R101	11-R-25 1222	Groundwater	2	1	1	1						✔	✔	✔	✔	✔	✔
002	G110	11-12-25 1259	Groundwater	2	1	1	1						✔	✔	✔	✔	✔	✔
003	R111	11-12-25 1345	Groundwater	2	1	1	1						✔	✔	✔	✔	✔	✔
004	G112		Groundwater	2	1	1	1						✔	✔	✔	✔	✔	✔
005	G113	11-12-25 DRY	Groundwater	2	1	1	1						✔	✔	✔	✔	✔	✔
006	G120		Groundwater	2	1	1	1						✔	✔	✔	✔	✔	✔
007	G121		Groundwater	2	1	1	1						✔	✔	✔	✔	✔	✔
008	G122		Groundwater	2	1	1	1						✔	✔	✔	✔	✔	✔
009	AW-1		Groundwater	2	1	1	1						✔	✔	✔	✔	✔	✔
010	AW-2		Groundwater	2	1	1	1						✔	✔	✔	✔	✔	✔
011	RW-3	11-12-25 1356	Groundwater	2	1	1	1						✔	✔	✔	✔	✔	✔

Relinquished By	Date/Time	Received By	Date/Time
J. Clp	11-12-25 1610	Cindy Kasakoski	11/12/25 1610

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CHAIN OF CUSTODY

Pg 1 of 2 Workorder # 25110402

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

Client: City Water, Light & Power
Address: 3100 Stevenson Drive, 2nd Floor Maintenance Building
City/State/Zip: Springfield IL 62712
Contact: Eric Staley Phone: (217) 757-8610
Email: eric.staley@cwlp.com Fax:

Samples on: ☒ ICE ☐ BLUE ICE ☐ NO ICE 4.1, 9.3 °C 5
Preserved in: ☒ LAB ☐ FIELD FOR LAB USE ONLY
LAB NOTES: PW ID 4524/98858
added NaOH (107682) to all samples Lot 11/14/25

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:
Quarters 1, 3, & 4
*elevations, pH, conductivity, temperature
**As B Cd Cr Pb Mg Hg Zn

PROJECT NAME/NUMBER
Landfill Monitoring Wells

SAMPLE COLLECTOR'S NAME
Allison Lampe

RESULTS REQUESTED
☑ Standard ☐ 1-2 Day (100% Surcharge)
☐ Other _____ ☐ 3 Day (50% Surcharge)

BILLING INSTRUCTIONS

Lab Use Only	Sample ID	Date/Time Sampled	Matrix	# and Type of Containers: UNP	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	TSP	Other	INDICATE ANALYSIS REQUESTED: Field parameters*	Cl SO4 TDS (D)	Metals (D)**	Cyanide	Nitrate (D)	Ammonia (D)
25110402-001	R101		Groundwater	2	1	1	1						✔	✔	✔	✔	✔	✔
002	G110		Groundwater	2	1	1	1						✔	✔	✔	✔	✔	✔
003	R111		Groundwater	2	1	1	1						✔	✔	✔	✔	✔	✔
004	G112	11-13-25 933	Groundwater	2	1	1	1						✔	✔	✔	✔	✔	✔
005	G113		Groundwater	2	1	1	1						✔	✔	✔	✔	✔	✔
006	G120	11-13-25 1022	Groundwater	2	1	1	1						✔	✔	✔	✔	✔	✔
007	G121	11-13-25 1106	Groundwater	2	1	1	1						✔	✔	✔	✔	✔	✔
008	G122	11-13-25 1138	Groundwater	2	1	1	1						✔	✔	✔	✔	✔	✔
009	AW-1	11-13-25 1347	Groundwater	2	1	1	1						✔	✔	✔	✔	✔	✔
010	AW-2	11-13-25 1222	Groundwater	2	1	1	1						✔	✔	✔	✔	✔	✔
011	RW-3		Groundwater	2	1	1	1						✔	✔	✔	✔	✔	✔

Relinquished By	Date/Time	Received By	Date/Time
Allison Lampe	11-13-25 1630		11/13/25 1630

*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

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CHAIN OF CUSTODY

Pg 2 of 2 Workorder # 25110402

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

Client: City Water, Light & Power
Address: 3100 Stevenson Drive, 2nd Floor Maintenance Building
City/State/Zip: Springfield IL 62712
Contact: Eric Staley Phone: (217) 757-8610
Email: eric.staley@cwlp.com Fax:

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

Samples on: ☐ ICE ☐ BLUE ICE ☐ NO ICE ______ °C
Preserved in: ☐ LAB ☐ FIELD **FOR LAB USE ONLY**
LAB NOTES:

Client Comments:
Quarters 1, 3, & 4
*elevations, pH, conductivity, temperature
**As B Cd Cr Pb Mg Hg Zn

PROJECT NAME/NUMBER
Landfill Monitoring Wells

SAMPLE COLLECTOR'S NAME
Allison Lampe

RESULTS REQUESTED
☑ Standard ☐ 1-2 Day (100% Surcharge)
☐ Other ________ ☐ 3 Day (50% Surcharge)

BILLING INSTRUCTIONS

Lab Use Only	Sample ID	Date/Time Sampled	Matrix	UNP	HNO3	NaOH	H2SO4	HCL	MeOH	NaHSO4	TSP	Other	Field parameters*	Cl SO4 TDS (D)	Metals (D)**	Cyanide	Nitrate (D)	Ammonia (D)
25110402-012	DUPLICATE	11-13-25 933	Groundwater	1	1	1	1							✔	✔	✔	✔	✔
			Groundwater															
			Groundwater															
			Groundwater															
			Groundwater															
			Groundwater															
			Groundwater															
			Groundwater															
			Groundwater															
			Groundwater															
			Groundwater															

Relinquished By	Date/Time	Received By	Date/Time
Allison Lampe	11-13-25 1630	[illegible signature]	11/13/25 1630

*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

Field Data Sheet

Project Name:	Landfill Monitoring Wells	**Monitoring Point:**	R101
Project Location:	Springfield, IL	**Sample ID:**	001
W.O. Number (s):	25111402	**Date (s):**	11/12/2025

Field Team Members

Name: Justin Colp Affiliation: TekLab, Inc.

Name: Affiliation:

Weather Conditions

Temp: 58 °F Wind Direction: ☐ N ☐ S ☑ E ☐ SE ☐ SW ☐ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy Sky: ☑ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

Well Pad	Good
Casing	Good
Protective Casing	Good
Reference Mark/Identification	Yes

Locks	Yes	No
Protective Casing		X
Well		X

Groundwater Level Measurements

Date/Time Measured: 11/12/25 12:01 PM

Static Water Level: 9.83 feet below TOC

Total Depth: 35.27 feet below TOC

Water Column: 25.44 feet

Purging Activities

Purged By: JC Purge Date: 11/12/2025

Purge Method: Peristaltic Pump Well Diameter: 4"

Purge Volume Calculation (L): 25.44 ft. x 0.022 = 0.56 L x 3 Vol. = 1.68 L **Based on Low-Flow (3/8" discharge)*

Actual Purge Volume (L): 3.50 L

Physical appearance of purge water: Clear Odor: Strong Color: none

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
12:06	0.0	219	purge start time						
12:10	0.9	↓	7.36	1,365.00	14.48	2.03	-154.50	4.04	
12:13	1.5		7.43	1,365.20	14.42	1.56	-173.50	4.34	
12:16	2.2		7.46	1,365.30	14.32	1.29	-183.80	4.44	
12:19	2.8		7.48	1,363.60	14.36	1.21	-192.20	4.19	
12:22	3.5		7.49	1,363.20	14.42	1.14	-196.80	4.00	

Sampling Activities

Sampled By: JC Sample Date/Time: 11/12/2025 12:22

Sample Method: Low Flow Sample Equipment: Peristaltic Pump

Sample Parameters: 7.49 pH 1,363.20 Spec. Cond. 14.42 Temp

Field Filtered: Yes Filter Type: Inline Disposable

Water Level: 11.95 feet below TOC Drawdown: 2.12 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 217941

Form Completed By: Justin Colp **Date:** 11/12/2025

Field Data Sheet

Project Name:	Landfill Monitoring Wells	**Monitoring Point:**	G110
Project Location:	Springfield, IL	**Sample ID:**	002
W.O. Number (s):	25111402	**Date (s):**	11/12/2025

Field Team Members

Name: Allison Lampe — Affiliation: TekLab, Inc.

Name: Drew Nieters — Affiliation: TekLab, Inc.

Weather Conditions

Temp: 61 °F — Wind Direction: ☐ N ☐ S ☐ E ☑ SE ☐ SW ☐ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy — Sky: ☑ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

			Yes	No
Well Pad	Good	**Locks**		
Casing	Good	Protective Casing		X
Protective Casing	Good	Well		X
Reference Mark/Identification	Yes			

Groundwater Level Measurements

Date/Time Measured: 11/12/25 12:20 PM

Static Water Level: 27.31 feet below TOC

Total Depth: 57.15 feet below TOC

Water Column: 29.84 feet

Purging Activities

Purged By: AL — Purge Date: 11/12/2025

Purge Method: Peristaltic Pump — Well Diameter: 2"

Purge Volume Calculation (L): 29.84 ft. x 0.022 = 0.66 L x 3 Vol. = 1.98 L **Based on Low-Flow (3/8" discharge)*

Actual Purge Volume (L): 3.00 L

Physical appearance of purge water: Clear — Odor: None — Color: None

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
12:30	0.0	103	purge start time						
12:53	2.4	↓	7.13	807.80	18.34	7.23	108.80	3.91	
12:56	2.7		7.13	807.20	18.85	7.28	105.30	5.41	
12:59	3.0		7.15	806.60	19.32	7.32	100.70	7.17	

Sampling Activities

Sampled By: DN — Sample Date/Time: 11/12/2025 12:59

Sample Method: Low Flow — Sample Equipment: Peristaltic Pump

Sample Parameters: 7.15 pH — 806.60 Spec. Cond. — 19.32 Temp

Field Filtered: Yes — Filter Type: Inline Disposable

Water Level: 27.35 feet below TOC — Drawdown: 0.04 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 45280

Form Completed By: Allison Lampe — **Date:** 11/12/2025

Field Data Sheet

Project Name:	Landfill Monitoring Wells	**Monitoring Point:**	R111
Project Location:	Springfield, IL	**Sample ID:**	003
W.O. Number (s):	25111402	**Date (s):**	11/12/2025

Field Team Members

Name: Allison Lampe Affiliation: TekLab, Inc.

Name: Drew Nieters Affiliation: TekLab, Inc.

Weather Conditions

Temp: 61 °F Wind Direction: ☐ N ☐ S ☐ E ☑ SE ☐ SW ☐ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy Sky: ☑ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

Well Pad	Good
Casing	Good
Protective Casing	Good
Reference Mark/Identification	Yes

Locks	Yes	No
Protective Casing	X	
Well		X

Groundwater Level Measurements

Date/Time Measured: 11/12/25 1:18 PM

Static Water Level: 28.03 feet below TOC

Total Depth: 55.75 feet below TOC

Water Column: 27.72 feet

Purging Activities

Purged By: AL Purge Date: 11/12/2025

Purge Method: Peristaltic Pump Well Diameter: 2"

Purge Volume Calculation (L): 27.72 ft. x 0.022 = 0.61 L x 3 Vol. = 1.83 L **Based on Low-Flow (3/8" discharge)*

Actual Purge Volume (L): 3.00 L

Physical appearance of purge water: Clear Odor: None Color: None

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
13:18	0.0	111	purge start time						
13:36	2.0	↓	7.01	852.20	17.39	7.33	63.90	7.51	
13:39	2.3		6.93	1,078.30	17.35	6.84	57.00	3.89	
13:42	2.7		6.91	1,257.70	17.51	6.39	49.60	2.82	
13:45	3.0		6.92	1,320.40	17.36	5.99	43.60	2.82	

Sampling Activities

Sampled By: DN Sample Date/Time: 11/12/2025 13:45

Sample Method: Low Flow Sample Equipment: Peristaltic Pump

Sample Parameters: 6.92 pH 1,320.40 Spec. Cond. 17.36 Temp

Field Filtered: Yes Filter Type: Inline Disposable

Water Level: 28.12 feet below TOC Drawdown: 0.09 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 45280

Form Completed By: Allison Lampe **Date:** 11/12/2025

Field Data Sheet

Project Name: Landfill Monitoring Wells
Project Location: Springfield, IL
W.O. Number (s): 25111402
Monitoring Point: G112
Sample ID: 004
Date (s): 11/13/2025

Field Team Members

Name: Allison Lampe Affiliation: TekLab, Inc.
Name: Drew Nieters Affiliation: TekLab, Inc.

Weather Conditions

Temp: 46 °F Wind Direction: ☐ N ☑ S ☐ E ☐ SE ☐ SW ☐ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy Sky: ☐ Clear ☑ Partly Cloudy ☐ Cloudy

Well Observations

Well Pad	Good
Casing	Good
Protective Casing	Good
Reference Mark/Identification	Yes

Locks	Yes	No
Protective Casing	X	
Well		X

Groundwater Level Measurements

Date/Time Measured: 11/13/25 9:13 AM
Static Water Level: 31.40 feet below TOC
Total Depth: 58.81 feet below TOC
Water Column: 27.41 feet

Purging Activities

Purged By: AL Purge Date: 11/13/2025
Purge Method: Submersible Pump Well Diameter: 2"
Purge Volume Calculation (L): 27.41 ft. x 0.022 = 0.6 L x 3 Vol. = 1.8 L **Based on Low-Flow (3/8" discharge)*
Actual Purge Volume (L): 6.00 L
Physical appearance of purge water: Slightly cloudy Odor: None Color: None

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
9:13	0.0	300	purge start time						
9:27	4.2	↓	6.94	1,521.30	13.43	4.96	114.00	12.12	
9:30	5.1		6.95	1,513.60	13.44	4.52	105.20	15.18	
9:33	6.0		6.95	1,504.60	13.36	4.20	92.90	10.09	

Sampling Activities

Sampled By: DN Sample Date/Time: 11/13/2025 9:33
Sample Method: Low Flow Sample Equipment: Submersible Pump
Sample Parameters: 6.95 pH 1,504.60 Spec. Cond. 13.36 Temp
Field Filtered: Yes Filter Type: Inline Disposable
Water Level: 32.63 feet below TOC Drawdown: 1.23 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 45280
- Duplicate collected

Form Completed By: A Nieters Date: 11/13/2025

Field Data Sheet

Project Name: Landfill Monitoring Wells
Project Location: Springfield, IL
W.O. Number (s): 25111402
Monitoring Point: G113
Sample ID: 005
Date (s): 11/12/2025

Field Team Members

Name: Justin Colp Affiliation: TekLab, Inc.
Name: Affiliation:

Weather Conditions

Temp: 59 °F Wind Direction: ☐ N ☐ S ☑ E ☐ SE ☐ SW ☐ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy Sky: ☑ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

Well Pad	Good
Casing	Good
Protective Casing	Good
Reference Mark/Identification	Yes

Locks	Yes	No
Protective Casing		X
Well		X

Groundwater Level Measurements

Date/Time Measured: 11/12/25 12:36 PM
Static Water Level: 11.92 feet below TOC
Total Depth: 12.60 feet below TOC
Water Column: 0.68 feet

Purging Activities

Purged By: JC Purge Date: 11/12/2025
Purge Method: Peristaltic Pump Well Diameter: 2"
Purge Volume Calculation (L): 0.68 ft. x 0.022 = 0.01 L x 3 Vol. = 0.03 L **Based on Low-Flow (3/8" discharge)*
Actual Purge Volume (L): 1.00 L
Physical appearance of purge water: Odor: Color:

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
12:40	0.0	167	purge start time						
12:46	1.0	↓							

Sampling Activities

Sampled By: Sample Date/Time:
Sample Method: Sample Equipment:
Sample Parameters: pH Spec. Cond. Temp
Field Filtered: Filter Type:
Water Level: TD feet below TOC Drawdown: 0.68 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 217941
- Well dry after 1L purged. No sample collected

Form Completed By: Justin Colp **Date:** 11/12/2025

Field Data Sheet

Project Name: Landfill Monitoring Wells
Project Location: Springfield, IL
W.O. Number (s): 25111402
Monitoring Point: G120
Sample ID: 006
Date (s): 11/13/2025

Field Team Members

Name: Allison Lampe Affiliation: TekLab, Inc.
Name: Drew Nieters Affiliation: TekLab, Inc.

Weather Conditions

Temp: 49 °F Wind Direction: ☐ N ☑ S ☐ E ☐ SE ☐ SW ☐ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy Sky: ☐ Clear ☑ Partly Cloudy ☐ Cloudy

Well Observations

Well Pad	Good
Casing	Good
Protective Casing	Good
Reference Mark/Identification	Yes

Locks	Yes	No
Protective Casing	X	
Well		X

Groundwater Level Measurements

Date/Time Measured: 11/13/25 10:04 AM
Static Water Level: 20.72 feet below TOC
Total Depth: 50.37 feet below TOC
Water Column: 29.65 feet

Purging Activities

Purged By: Al Purge Date: 11/13/2025
Purge Method: Submersible Pump Well Diameter: 2"
Purge Volume Calculation (L): 29.65 ft. x 0.022 = 0.65 L x 3 Vol. = 1.95 L **Based on Low-Flow (3/8" discharge)*
Actual Purge Volume (L): 6.00 L
Physical appearance of purge water: Cloudy Odor: Moderate Color: None

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
10:04	0.0	333	purge start time						
10:13	3.0	↓	6.68	1,759.90	15.18	3.75	34.50	31.85	
10:16	4.0		6.67	1,753.40	15.21	3.29	30.90	42.73	
10:19	5.0		6.67	1,749.00	15.17	2.96	27.90	43.19	
10:22	6.0		6.67	1,748.40	15.51	2.70	25.10	38.98	

Sampling Activities

Sampled By: DN Sample Date/Time: 11/13/2025 10:22
Sample Method: Low Flow Sample Equipment: Submersible Pump
Sample Parameters: 6.67 pH 1,748.40 Spec. Cond. 15.51 Temp
Field Filtered: Yes Filter Type: Inline Disposable
Water Level: 20.81 feet below TOC Drawdown: 0.09 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 45280

Form Completed By: A Nieters **Date:** 11/13/2025

Field Data Sheet

Project Name:	Landfill Monitoring Wells	**Monitoring Point:**	G121
Project Location:	Springfield, IL	**Sample ID:**	007
W.O. Number (s):	25111402	**Date (s):**	11/13/2025

Field Team Members

Name: Allison Lampe — Affiliation: TekLab, Inc.

Name: Drew Nieters — Affiliation: TekLab, Inc.

Weather Conditions

Temp: 49 °F — Wind Direction: ☐ N ☑ S ☐ E ☐ SE ☐ SW ☐ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy — Sky: ☐ Clear ☑ Partly Cloudy ☐ Cloudy

Well Observations

Well Pad	Good
Casing	Good
Protective Casing	Good
Reference Mark/Identification	Yes

Locks	Yes	No
Protective Casing	X	
Well		X

Groundwater Level Measurements

Date/Time Measured: 11/13/25 10:42 AM

Static Water Level: 30.71 feet below TOC

Total Depth: 58.56 feet below TOC

Water Column: 27.85 feet

Purging Activities

Purged By: AL — Purge Date: 11/13/2025

Purge Method: Submersible Pump — Well Diameter: 2"

Purge Volume Calculation (L): 27.85 ft. x 0.022 = 0.61 L x 3 Vol. = 1.83 L **Based on Low-Flow (3/8" discharge)*

Actual Purge Volume (L): 7.00 L

Physical appearance of purge water: Slightly cloudy — Odor: Slight — Color: None

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
10:43	0.0	304	purge start time						
10:54	3.3	↓	6.85	1,386.00	13.53	4.18	23.20	18.08	
10:57	4.3		6.83	1,383.00	13.62	3.67	23.00	15.82	
11:00	5.2		6.84	1,383.10	13.65	4.24	22.10	44.46	
11:03	6.1		6.78	1,405.40	14.39	3.35	21.60	16.22	
11:06	7.0		6.76	1,405.70	14.25	2.94	20.40	11.52	

Sampling Activities

Sampled By: DN — Sample Date/Time: 11/13/2025 11:06

Sample Method: Low Flow — Sample Equipment: Submersible Pump

Sample Parameters: 6.76 pH — 1,405.70 Spec. Cond. — 14.25 Temp

Field Filtered: Yes — Filter Type: Inline Disposable

Water Level: 32.57 feet below TOC — Drawdown: 1.86 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 45280

Form Completed By: A Nieters — **Date:** 11/13/2025

Field Data Sheet

Project Name:	Landfill Monitoring Wells	**Monitoring Point:**	G122
Project Location:	Springfield, IL	**Sample ID:**	008
W.O. Number (s):	25111402	**Date (s):**	11/13/2025

Field Team Members

Name: Allison Lampe Affiliation: TekLab, Inc.

Name: Drew Nieters Affiliation: TekLab, Inc.

Weather Conditions

Temp: 49 °F Wind Direction: ☐ N ☑ S ☐ E ☐ SE ☐ SW ☐ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy Sky: ☐ Clear ☑ Partly Cloudy ☐ Cloudy

Well Observations

Well Pad	Good
Casing	Good
Protective Casing	Good
Reference Mark/Identification	Yes

Locks	Yes	No
Protective Casing	X	
Well		X

Groundwater Level Measurements

Date/Time Measured: 11/13/25 11:18 AM

Static Water Level: 33.81 feet below TOC

Total Depth: 49.29 feet below TOC

Water Column: 15.48 feet

Purging Activities

Purged By: AL Purge Date: 11/13/2025

Purge Method: Peristaltic Pump Well Diameter: 2"

Purge Volume Calculation (L): 15.48 ft. x 0.022 = 0.34 L x 3 Vol. = 1.02 L **Based on Low-Flow (3/8" discharge)*

Actual Purge Volume (L): 4.00 L

Physical appearance of purge water: Clear Odor: None Color: None

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
11:18	0.0	200	purge start time						
11:29	2.2	↓	6.92	1,552.90	15.73	5.02	4.80	42.21	
11:32	2.8		6.89	1,564.50	16.33	4.72	8.10	45.99	
11:35	3.4		6.87	1,575.20	16.94	4.50	10.70	45.37	
11:38	4.0		6.86	1,585.90	17.58	4.35	12.80	44.33	

Sampling Activities

Sampled By: DN Sample Date/Time: 11/13/2025 11:38

Sample Method: Low Flow Sample Equipment: Peristaltic Pump

Sample Parameters: 6.86 pH 1,585.90 Spec. Cond. 17.58 Temp

Field Filtered: Yes Filter Type: Inline Disposable

Water Level: 33.92 feet below TOC Drawdown: 0.11 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 45280

Form Completed By: A Nieters **Date:** 11/13/2025

Field Data Sheet

Project Name: Landfill Monitoring Wells
Project Location: Springfield, IL
W.O. Number (s): 25111402
Monitoring Point: AW-1
Sample ID: 009
Date (s): 11/13/2025

Field Team Members

Name: Allison Lampe Affiliation: TekLab, Inc.
Name: Drew Nieters Affiliation: TekLab, Inc.

Weather Conditions

Temp: 65 °F Wind Direction: ☐ N ☑ S ☐ E ☐ SE ☐ SW ☐ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy Sky: ☑ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

Well Pad	Good
Casing	Good
Protective Casing	Good
Reference Mark/Identification	Yes

Locks	Yes	No
Protective Casing	X	
Well		X

Groundwater Level Measurements

Date/Time Measured: 11/13/25 1:29 PM
Static Water Level: 19.26 feet below TOC
Total Depth: 54.81 feet below TOC
Water Column: 35.55 feet

Purging Activities

Purged By: AL Purge Date: 11/13/2025
Purge Method: Peristaltic Pump Well Diameter: 2"
Purge Volume Calculation (L): 35.55 ft. x 0.022 = 0.78 L x 3 Vol. = 2.34 L **Based on Low-Flow (3/8" discharge)*
Actual Purge Volume (L): 6.00 L
Physical appearance of purge water: Slightly cloudy Odor: None Color: None

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
13:29	0.0	333	purge start time						
13:38	3.0	↓	6.66	1,370.30	15.00	3.88	11.80	20.63	
13:41	4.0		6.64	1,369.10	14.91	3.46	12.00	17.55	
13:44	5.0		6.63	1,367.00	14.87	3.14	11.40	12.33	
13:47	6.0		6.62	1,363.50	14.83	2.89	10.60	9.76	

Sampling Activities

Sampled By: Dn Sample Date/Time: 11/13/2025 13:47
Sample Method: Low Flow Sample Equipment: Peristaltic Pump
Sample Parameters: 6.62 pH 1,363.50 Spec. Cond. 14.83 Temp
Field Filtered: Yes Filter Type: Inline Disposable
Water Level: 22.13 feet below TOC Drawdown: 2.87 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 45280

Form Completed By: A Nieters **Date:** 11/13/2025

Field Data Sheet

Project Name:	Landfill Monitoring Wells	**Monitoring Point:**	AW-2
Project Location:	Springfield, IL	**Sample ID:**	010
W.O. Number (s):	25111402	**Date (s):**	11/13/2025

Field Team Members

Name: Allison Lampe — Affiliation: TekLab, Inc.

Name: Drew Nieters — Affiliation: TekLab, Inc.

Weather Conditions

Temp: 49 °F — Wind Direction: ☐ N ☑ S ☐ E ☐ SE ☐ SW ☐ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy — Sky: ☑ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

Well Pad	Good
Casing	Good
Protective Casing	Good
Reference Mark/Identification	Yes

Locks	Yes	No
Protective Casing	X	
Well		X

Groundwater Level Measurements

Date/Time Measured: 11/13/25 11:55 AM

Static Water Level: 8.52 feet below TOC

Total Depth: 32.64 feet below TOC

Water Column: 24.12 feet

Purging Activities

Purged By: AL — Purge Date: 11/13/2025

Purge Method: Submersible Pump — Well Diameter: 2"

Purge Volume Calculation (L): 24.12 ft. x 0.022 = 0.53 L x 3 Vol. = 1.59 L **Based on Low-Flow (3/8" discharge)*

Actual Purge Volume (L): 10.00 L

Physical appearance of purge water: Cloudy — Odor: Slight — Color: None

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
11:56	0.0	385	purge start time						
12:05	3.5	↓	6.87	13.90	15.21	4.08	11.00	1.33	
12:08	4.6		7.13	8.70	16.28	6.50	-4.40	6.98	
12:16	7.7		6.84	1,110.10	14.81	4.52	7.70	118.44	
12:19	8.8		6.82	1,114.60	14.69	3.60	6.60	94.58	
12:22	10.0		6.82	1,117.70	14.70	3.09	4.90	72.28	

Sampling Activities

Sampled By: DN — Sample Date/Time: 11/13/2025 12:22

Sample Method: Low Flow — Sample Equipment: Submersible Pump

Sample Parameters: 6.82 pH — 1,117.70 Spec. Cond. — 14.70 Temp

Field Filtered: Yes — Filter Type: Inline Disposable

Water Level: 8.75 feet below TOC — Drawdown: 0.23 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 45280

Form Completed By: A Nieters — **Date:** 11/13/2025

Field Data Sheet

Project Name: Landfill Monitoring Wells
Project Location: Springfield, IL
W.O. Number (s): 25111402
Monitoring Point: RW-3
Sample ID: 011
Date (s): 11/12/2025

Field Team Members

Name: Justin Colp Affiliation: TekLab, Inc.
Name: Affiliation:

Weather Conditions

Temp: 60 °F Wind Direction: ☐ N ☐ S ☑ E ☐ SE ☐ SW ☐ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy Sky: ☑ Clear ☐ Partly Cloudy ☐ Cloudy

Well Observations

Well Pad	Good
Casing	Good
Protective Casing	Good
Reference Mark/Identification	Yes

Locks	Yes	No
Protective Casing	X	
Well		X

Groundwater Level Measurements

Date/Time Measured: 11/12/25 1:07 PM
Static Water Level: 13.48 feet below TOC
Total Depth: 44.01 feet below TOC
Water Column: 30.53 feet

Purging Activities

Purged By: JC Purge Date: 11/12/2025
Purge Method: Bladder Pump Well Diameter: 2"
Purge Volume Calculation (L): 30.53 ft. x 0.022 = 0.67 L x 3 Vol. = 2.01 L **Based on Low-Flow (3/8" discharge)*
Actual Purge Volume (L): 11.00 L
Physical appearance of purge water: Slightly cloudy Odor: Slight Color: none

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
13:09	0.0	234	purge start time						
13:14	1.2	↓	7.10	773.80	14.96	1.12	-151.50	55.45	
13:17	1.9		7.08	776.00	14.95	0.84	-157.90	234.71	
13:20	2.6		7.08	777.30	14.98	0.69	-158.00	281.63	
13:23	3.3		7.08	777.10	15.10	0.61	-157.00	324.88	
13:26	4.0		7.08	777.70	15.26	0.60	-155.80	259.88	
13:29	4.7		7.08	778.50	15.30	0.57	-155.60	266.15	
13:32	5.4		7.08	778.30	15.19	0.54	-154.80	129.46	
13:35	6.1		7.08	778.60	15.19	0.53	-154.60	283.82	
13:38	6.8		7.08	778.80	15.06	0.50	-154.20	217.75	
13:41	7.5		7.08	778.20	15.04	0.48	-153.70	235.75	
13:44	8.2		7.08	778.90	15.02	0.47	-153.20	94.02	
13:47	8.9		7.09	779.20	14.97	0.46	-152.40	164.96	
13:50	9.6		7.09	779.20	14.92	0.45	-152.30	218.71	
13:53	10.3		7.09	779.50	14.90	0.45	-152.00	136.71	
13:56	11.0		7.09	780.10	14.87	0.44	-151.20	134.35	

Sampling Activities

Sampled By: JC Sample Date/Time: 11/12/2025 13:56
Sample Method: Low Flow Sample Equipment: Bladder Pump
Sample Parameters: 7.09 pH 780.10 Spec. Cond. 14.87 Temp
Field Filtered: Yes Filter Type: Inline Disposable
Water Level: 19.89 feet below TOC Drawdown: 6.41 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 217941

Form Completed By: Justin Colp **Date:** 11/12/2025

Field Data Sheet

Project Name: Landfill Monitoring Wells
Project Location: Springfield, IL
W.O. Number (s): 25111402
Monitoring Point: Duplicate
Sample ID: 012
Date (s): 11/13/2025

Field Team Members

Name: Allison Lampe Affiliation: TekLab, Inc.
Name: Drew Nieters Affiliation: TekLab, Inc.

Weather Conditions

Temp: 46 °F Wind Direction: ☐ N ☑ S ☐ E ☐ SE ☐ SW ☐ NE ☐ NW

Precipitation: ☑ None ☐ Light ☐ Heavy Sky: ☐ Clear ☑ Partly Cloudy ☐ Cloudy

Well Observations

Well Pad	Good
Casing	Good
Protective Casing	Good
Reference Mark/Identification	Yes

Locks	Yes	No
Protective Casing	X	
Well		X

Groundwater Level Measurements

Date/Time Measured: 11/13/25 9:13 AM
Static Water Level: 31.40 feet below TOC
Total Depth: 58.81 feet below TOC
Water Column: 27.41 feet

Purging Activities

Purged By: AL Purge Date: 11/13/2025
Purge Method: Submersible Pump Well Diameter: 2"
Purge Volume Calculation (L): 27.41 ft. x 0.022 = 0.6 L x 3 Vol. = 1.8 L **Based on Low-Flow (3/8" discharge)*
Actual Purge Volume (L): 6.00 L
Physical appearance of purge water: Slightly cloudy Odor: None Color: None

Purge Time	Cumulative Purge Vol.(L)	Purge Rate (mL/m)	pH (S.U.)	Specific Conductivity (µS/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)	Other
9:13	0.0	300	purge start time						
9:27	4.2	↓	6.94	1,521.30	13.43	4.96	114.00	12.12	
9:30	5.1		6.95	1,513.60	13.44	4.52	105.20	15.18	
9:33	6.0		6.95	1,504.60	13.36	4.20	92.90	10.09	

Sampling Activities

Sampled By: DN Sample Date/Time: 11/13/2025 9:33
Sample Method: Low Flow Sample Equipment: Submersible Pump
Sample Parameters: 6.95 pH 1,504.60 Spec. Cond. 13.36 Temp
Field Filtered: Yes Filter Type: Inline Disposable
Water Level: 32.63 feet below TOC Drawdown: 1.23 feet

Observations/Comments: (i.e., equipment malfunctions, contamination sources, sampling difficulties; duplicate sample)

- Field Meter: 45280
- Collected at G112

Form Completed By: A Nieters **Date:** 11/13/2025

Site Samping Event: LF Monitoring Wells
LIMS Workorder: 25110402
Technician(s): DC, JC, BG, AL, DN

Field Calibration Log(s)
CWLP- 4Q 2025

Field Temp SOP 1156 - SM 2550 B
Field pH SOP 1152 - SW-846 9040B - SM 4500-H B
Field Cond. SOP 1155 - SW-846 9050A - SM 2510 B

Field Meter ID: Pine 217941 Technician(s): justin colp Date: 11/12/2025

pH Standards	LIMS ID	Calibration reading	Date/Time
4.0 Buffer	WC251017A	4.00	11/12/25 11:40
7.0 Buffer	WC251017B	7.00	11/12/25 11:37
10.0 Buffer	WC251017C	10.00	11/12/25 11:44
LCS/CCV (7.0 Buffer)	WC251017D		

Conductivity Standard	LIMS ID	Reading	Date/Time
1,412 µS Std.	107107	1412	11/12/25 11:50

Turbidity Standard	LIMS ID	Reading	Date/Time
0 NTU (DI Water)	1	0.85	11/12/25 11:52
124 NTU	95834		

ORP Standard	LIMS ID/Lot#	Reading	Date/Time

D.O. Saturation	LIMS ID/Lot#	Reading	Date/Time
100%	N/A		

Sample ID	Sample Type	Date/Time	Temp. °C	pH S.U.	Conductivity µS	Turbidity NTU	ORP mV	D.O. %
LCS-1-JC	LCS	11/12/25 11:55	15.3	7.01	1,409	0.83		
CCV-1-JC	CCV	11/12/25 14:17	19.1	6.98	1,377	0.96		

Comments:

Field Meter ID: Pine 217941 Technician(s): justin colp Date: 11/13/2025

pH Standards	LIMS ID	Calibration reading	Date/Time
4.0 Buffer	WC251017A	4.00	11/13/25 8:37
7.0 Buffer	WC251017B	7.00	11/13/25 8:33
10.0 Buffer	WC251017C	10.00	11/13/25 8:40
LCS/CCV (7.0 Buffer)	WC251017D		

Conductivity Standard	LIMS ID	Reading	Date/Time
1,412 µS Std.	107107	1412	11/13/25 8:46

Turbidity Standard	LIMS ID	Reading	Date/Time
0 NTU (DI Water)	1	0.93	11/13/25 8:47
124 NTU	95834		

ORP Standard	LIMS ID/Lot#	Reading	Date/Time

D.O. Saturation	LIMS ID/Lot#	Reading	Date/Time
100%	N/A		

Sample ID	Sample Type	Date/Time	Temp. °C	pH S.U.	Conductivity µS	Turbidity NTU	ORP mV	D.O. %
LCS-2-JC	LCS	11/13/25 8:52	12	6.97	1,409	0.87		
CCV-2-JC	CCV	11/13/25 14:47	18.6	7.02	1,364	1.61		

Comments:

Site Samping Event: LF Monitoring Wells
LIMS Workorder: 25110402
Technician(s): DC, JC, BG, AL, DN

Field Calibration Log(s)
CWLP- 4Q 2025

Field Temp SOP 1156 - SM 2550 B
Field pH SOP 1152 - SW-846 9040B - SM 4500-H B
Field Cond. SOP 1155 - SW-846 9050A - SM 2510 B

Field Meter ID: Pine 45280 Technician(s): D. Nieters Date: 11/12/2025

pH Standards	LIMS ID	Calibration reading	Date/Time
4.0 Buffer	WC251017A	4.00	11/12/25 10:56
7.0 Buffer	WC251017B	7.00	11/12/25 10:50
10.0 Buffer	WC251017C	10.00	11/12/25 11:05
LCS/CCV (7.0 Buffer)	WC251017D		

Conductivity Standard	LIMS ID	Reading	Date/Time
1,412 µS Std.	107107	1418	11/12/25 11:09

Turbidity Standard	LIMS ID	Reading	Date/Time
0 NTU (DI Water)	1	0.64	11/12/25 11:16
124 NTU	95834		

ORP Standard	LIMS ID/Lot#	Reading	Date/Time

D.O. Saturation	LIMS ID/Lot#	Reading	Date/Time
100%	N/A		

Sample ID	Sample Type	Date/Time	Temp. °C	pH S.U.	Conductivity µS	Turbidity NTU	ORP mV	D.O. %
LCS-1-DN	LCS	11/12/25 11:17	18.9	7.05	1,418	0.64		
CCV-1-DN	CCV	11/12/25 14:00	18.9	6.96	1,358	0.73		

Comments:

Field Meter ID: Pine 45280 Technician(s): D. Nieters Date: 11/13/2025

pH Standards	LIMS ID	Calibration reading	Date/Time
4.0 Buffer	WC251017A	4.00	11/13/25 7:50
7.0 Buffer	WC251017B	7.00	11/13/25 7:46
10.0 Buffer	WC251017C	10.00	11/13/25 8:01
LCS/CCV (7.0 Buffer)	WC251017D		

Conductivity Standard	LIMS ID	Reading	Date/Time
1,412 µS Std.	107107	1390	11/13/25 8:11

Turbidity Standard	LIMS ID	Reading	Date/Time
0 NTU (DI Water)	1	0.82	11/13/25 8:24
124 NTU	95834		

ORP Standard	LIMS ID/Lot#	Reading	Date/Time

D.O. Saturation	LIMS ID/Lot#	Reading	Date/Time
100%	N/A		

Sample ID	Sample Type	Date/Time	Temp. °C	pH S.U.	Conductivity µS	Turbidity NTU	ORP mV	D.O. %
LCS-2-DN	LCS	11/13/25 8:29	10.8	7.02	1,412	1.01		
CCV-2-DN	CCV	11/13/25 14:15	19.6	6.98	1,356	0.89		

Comments:

Site Samping Event: LF Monitoring Wells
LIMS Workorder: 25110402
Technician(s): DC, JC, BG, AL, DN

Field Calibration Log(s)
CWLP- 4Q 2025

Field Temp SOP 1156 - SM 2550 B
Field pH SOP 1152 - SW-846 9040B - SM 4500-H B
Field Cond. SOP 1155 - SW-846 9050A - SM 2510 B

Field Meter ID: Pine 223358 Technician(s): Brett Gillihan Date: 11/12/2025

pH Standards	LIMS ID	Calibration reading	Date/Time
4.0 Buffer	WC251017A	4.01	11/12/25 10:50
7.0 Buffer	WC251017B	6.98	11/12/25 10:47
10.0 Buffer	WC251017C	10.00	11/12/25 10:56
LCS/CCV (7.0 Buffer)	WC251017D		

Conductivity Standard	LIMS ID	Reading	Date/Time
1,412 µS Std.	107107	1425	11/12/25 11:03

Turbidity Standard	LIMS ID	Reading	Date/Time
0 NTU (DI Water)	1	0.35	11/12/25 11:04
124 NTU	95834		

ORP Standard	LIMS ID/Lot#	Reading	Date/Time

D.O. Saturation	LIMS ID/Lot#	Reading	Date/Time
100%	N/A		

Sample ID	Sample Type	Date/Time	Temp. °C	pH S.U.	Conductivity µS	Turbidity NTU	ORP mV	D.O. %
LCS-1-BG	LCS	11/12/25 11:08	13.3	7.01	1,443	0.39		
CCV-1-BG	CCV	11/12/25 14:34	13.8	7.03	1,448	0.46		

Comments:

Field Meter ID: Pine 223358 Technician(s): Brett Gillihan Date: 11/13/2025

pH Standards	LIMS ID	Calibration reading	Date/Time
4.0 Buffer	WC251017A	4.02	11/13/25 8:39
7.0 Buffer	WC251017B	7.00	11/13/25 8:35
10.0 Buffer	WC251017C	10.01	11/13/25 8:46
LCS/CCV (7.0 Buffer)	WC251017D		

Conductivity Standard	LIMS ID	Reading	Date/Time
1,412 µS Std.	107107	1427	11/13/25 8:50

Turbidity Standard	LIMS ID	Reading	Date/Time
0 NTU (DI Water)	1	0.48	11/13/25 8:53
124 NTU	95834		

ORP Standard	LIMS ID/Lot#	Reading	Date/Time

D.O. Saturation	LIMS ID/Lot#	Reading	Date/Time
100%	N/A		

Sample ID	Sample Type	Date/Time	Temp. °C	pH S.U.	Conductivity µS	Turbidity NTU	ORP mV	D.O. %
LCS-2-BG	LCS	11/13/25 8:58	14.3	7.03	1,439	0.52		
CCV-2-BG	CCV	11/13/25 14:46	16.3	7.02	1,451	0.53		

Comments: