

BEFORE THE ILLINOIS POLLUTION CONTROL BOARD

IN THE MATTER OF:)
)
PETITION OF AMEREN ENERGY) PCB AS 2021-008
) (Adjusted Standard – Land)
MEDIAN VALLEY COGEN LLC (OLD)
)
MEREDOSIA) FOR AN ADJUSTED)
)
STANDARD FROM 35 ADMIN. CODE)
)
PART 845)

NOTICE OF FILING

To: See attached Service List

PLEASE TAKE NOTICE that I have today electronically filed with the Office of the Clerk of the Pollution Control Board Ameren Energy Median Valley Cogen LLC's Reply in Support of Its Motion for 180-Day Stay and Motion for Extension of Discovery, a copy of which is herewith served upon you.

Dated: January 30, 2025

AMEREN ENERGY MEDINA VALLEY
COGEN, LLC

By: /s/Kristen L. Gale

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CERTIFICATE OF SERVICE

The undersigned, an attorney, certifies that a true copy of the foregoing Notice of Filing and Ameren Energy Median Valley Cogen LLC's Reply in Support of Its Motion for 180-Day Stay and Motion for Extension of Discovery was electronically filed on January 30, 2025 with the following:

Don Brown, Clerk of the Board
Illinois Pollution Control Board
60 E. Van Buren Street, Suite 630
Chicago, IL 60605
don.brown@illinois.gov

and that copies were sent via e-mail on January 30, 2025 to the parties on the service list.

Dated: January 30, 2025

/s/Kristen L. Gale

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BEFORE THE ILLINOIS POLLUTION CONTROL BOARD

IN THE MATTER OF:)
)
PETITION OF AMEREN ENERGY MEDINA) AS 2021-008
VALLEY COGEN, LLC (OLD MEREDOSIA)) (Adjusted Standard - Land)
FOR ADJUSTED STANDARDS)
FROM 35 ILL. ADMIN. CODE PART 845)

**AMEREN ENERGY MEDINA VALLEY COGEN, LLC REPLY IN
SUPPORT OF ITS MOTION FOR 180-DAY STAY AND
MOTION FOR EXTENSION OF DISCOVERY**

Consistent with the Hearing Officer’s January 23, 2025 Order and pursuant to Sections 101.500(e) of the Illinois Pollution Control Board’s (“Board”) Procedural Rules. 35 Ill. Adm. Code 101.500(e), Ameren Energy Medina Valley Cogen, LLC (“Ameren”) submits this Reply in Support of its Request for 180-day Stay and its Motion for Extension of Discovery.

The Illinois Environmental Protection Agency (“Agency”) essentially has two bases for its objections, neither of which should preclude the Board from granting the stay and extending discovery. The first, the Agency’s allegations that Ameren’s groundwater monitoring program does not comply with Part 845, is immaterial, and the second, that the treatability study does not meet the Part 845 closure and post-closure standards, is contrary to the very purpose of an adjusted standard - - to allow an adjusted standard from rules of general applicability when there exist factors relating to the petitioner that are substantially and significantly different from the factors relied upon by the Board in adopting the general rules. 415 ILCS 5/28.1(c).

I. The Agency’s Claims of Alleged Deficiencies in the Groundwater Monitoring Program Are Irrelevant to Ameren’s Motions

The Agency’s claims that there are alleged deficiencies in the Ameren groundwater monitoring system are irrelevant to granting a stay or extending discovery. Ameren timely filed its

petition for adjusted standard immediately following the effective date of the Part 845 regulations, resulting in a stay of the application of the rule to the Old Meredosia Pond and has been diligent in its pursuit of adjusted standard relief for the Old Meredosia Pond. As Ameren stated in its Motions, Ameren is preparing an operating permit application, which includes establishing the groundwater monitoring system and implementing the groundwater program consistent with the Part 845 requirements. 35 Ill. Adm. Code 845.230(d)(2)(I), 845.610(b)(1). Because Ameren has installed groundwater wells around the Old Meredosia Pond, Ameren reasonably expects to be able to provide the necessary documentation and information for the groundwater monitoring program to the Agency in a timely manner. Accordingly, allowing Ameren's request for a stay will not delay any work related to establishing a groundwater monitoring program pursuant to Part 845.

In a misleading effort to assert an environmental threat where none exists, the Agency presented the Board with an incomplete description of the groundwater monitoring data to date. The Agency cited elevated concentrations of boron and selenium in MW-8 but did not tell the Board that the boron concentrations of boron are decreasing (See Agency Ex. A, Fig. 1-22). More importantly, throughout 2023, levels of both these constituents in MW-2, a monitoring well downgradient of MW-8, were below the Part 845 standards. See Agency Ex. A, Fig. 1-2, 1-16. MW-2 groundwater concentrations continued to remain below the Part 845 standards throughout 2024. *See Meredosia 2024 Groundwater Data*¹ (Ex. 1- 2024Q1, p. 10; Ex. 2 – 2024Q2, p. 10; Ex. 3 – 2024Q3, p. 10; Ex. 4 – 2024Q4, p. 9-10). Similarly, groundwater concentrations in MW-5 and MW-6, two additional downgradient wells on the south side of the Station, are also consistently below the Part 845 standards. *See Agency Ex. A., Appen. A, and attached Meredosia 2024 Groundwater Data* (Ex. 1- 2024Q1, p. 16, 18; Ex. 2 – 2024Q2, p. 16, 18; Ex. 3 – 2024Q3, p. 15-

¹ Because the 2024 tables of the groundwater data are not available as of the date of this filing, the raw data packages are attached as Exhibits 1-4.

18; Ex. 4 – 2024Q4, p. 15-18). Collectively, the compliant groundwater concentrations in MW-2, MW-5 and MW-6, coupled with the decreasing concentrations in MW-8, and the undisputed analysis attached as Exhibit 3 to Ameren's Amended Petition for Adjusted Standard concluding that the groundwater did not pose risk to the Illinois River, demonstrates that no harm will be caused to the environment by granting the stay. *See* Ameren's Motion for 180-Stay, ¶18.

Finally, the Agency's claim that MW13 and MW14 are improperly constructed is baseless. The Agency's exhibit only shows that MW13 and 14 were dry in 2023, but nothing more. A monitoring well being dry does not mean it was improperly constructed. This is particularly true here because both wells have been successfully sampled (i.e., were not dry) at other times (see Ameren Amended Petition, Ex. 3, Page 1033). In any case, any issues related to the groundwater monitoring wells will be remedied through the preparation of the operating permit application.

II. An Adjusted Standard for an Alternative Closure Due a Site-Specific Issue at the Old Meredosia Pond is Proper.

Ameren's treatability study is intended to determine whether site-specific conditions warrant an alternative closure approach to Part 845. This is the crux of why Ameren is seeking an adjusted standard. The Agency's contention that this treatability study does not meet the Part 845 requirements for closure and post-closure ignores the purpose of a petition for an adjusted standard. As the Board stated in its Order and Opinion adopting Part 845, "to address site-specific issues, an affected entity may avail itself of relief mechanisms, such as an adjusted standard or a variance." *In the Matter of: Standards for the Disposal of Coal Combustion Residuals in Surface Impoundments: Proposed New 35 Ill. Adm. Code 845, R20-19* (Feb. 4, 2021), p. 17. The conditions at the Old Meredosia Pond are the very type of site-specific issues envisioned by the Board to warrant an adjusted standard relief mechanism. The Board should not deny Ameren the opportunity to avail itself of adjusted standard relief.

The Agency does not dispute that there is an established ecosystem on the surface of the Old Meredosia Pond, which supports a variety of plants and animals including a bald eagle's nest, and the presumed presence of a threatened species. The Agency also does not dispute that the Part 845 closure methods would destroy the unique ecosystem. Accordingly, to address the site-specific ecosystem on the surface of a historic surface impoundment, Ameren is pursuing an alternative groundwater treatment approach that could be an equally effective treatment and closure method. This is exactly the type of situation for which an adjusted standard is proper.

Perhaps recognizing the relevancy and need for the treatment study, the Agency advances a "fall back" argument that Ameren did not provide sufficient information on the treatability study to warrant the stay. The Agency is wrong. Ameren explained the methodology and the expected results of the treatability study in its Motion. *See* Ameren Motion, ¶12. Ameren attached the proposal for the treatability study that laid out in detail the scope of work, including the "Treatability Testing Approach," a description of the resin treatment and boron precipitation, and a schedule. *See* Ameren Ex. A., §§2.2, 3. Ameren also attached the results from a virtually identical groundwater treatment approach, showing the expected results of a significant decrease in concentrations to below the Part 845 standards. Ameren Ex. B, p. 2. To further demonstrate the acceptance of the treatment method, Ameren attached two studies demonstrating USEPA's reliance on the treatment methods to remove constituents in groundwater. The Agency's objection fails to explain in any way what is still "deficient" about this information. Accordingly, the Board should grant Ameren's Request for Stay and Motion for Extension of Discovery.

III. Conclusion

For the reasons stated herein, in Ameren's Motion for 180-Day Stay and its Motion for Extension of Discovery, Ameren respectfully requests that the Board stay this Matter for 180 days

and extend discovery to 90 days after the stay or the Board's decision to deny the stay, whichever is later.

Respectfully submitted,

Ameren Energy Mediana Valley Cogen LLC
Petitioner,

By: /s/ Kristen L. Gale
One of its Attorneys

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EXHIBIT 1

March 22, 2024

Meghan Maxwell
AmerenEnergy Medina Valley Cogen, LLC
1901 Chouteau Avenue
PO Box 66149, MC602
St. Louis, MO 63166-6892
TEL: (314) 554-4581
FAX:



Illinois	100226
Illinois	1004652024-2
Kansas	E-10374
Louisiana	05002
Louisiana	05003
Oklahoma	9978

RE: Meredosia GW Monitoring Q1 2024

WorkOrder: 24030008

Dear Meghan Maxwell:

TEKLAB, INC received 16 samples on 3/14/2024 3:00:00 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,



Elizabeth A. Hurley
Director of Customer Service
(618)344-1004 ex 33
ehurley@teklabinc.com



Report Contents

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

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24030008

Client Project: Meredosia GW Monitoring Q1 2024

Report Date: 22-Mar-24

This reporting package includes the following:

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Definitions

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24030008

Client Project: Meredosia GW Monitoring Q1 2024

Report Date: 22-Mar-24

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

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

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24030008

Client Project: Meredosia GW Monitoring Q1 2024

Report Date: 22-Mar-24

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: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24030008

Client Project: Meredosia GW Monitoring Q1 2024

Report Date: 22-Mar-24

Cooler Receipt Temp: 5.5 °C

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

APW-13 and APW-14 could not be collected; the wells were dry.

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



Accreditations

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

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24030008

Client Project: Meredosia GW Monitoring Q1 2024

Report Date: 22-Mar-24

State	Dept	Cert #	NELAP	Exp Date	Lab
Illinois	IEPA	100226	NELAP	1/31/2025	Collinsville
Illinois	IEPA	1004652024-2	NELAP	4/30/2025	Collinsville
Kansas	KDHE	E-10374	NELAP	4/30/2024	Collinsville
Louisiana	LDEQ	05002	NELAP	6/30/2024	Collinsville
Louisiana	LDEQ	05003	NELAP	6/30/2024	Collinsville
Oklahoma	ODEQ	9978	NELAP	8/31/2024	Collinsville
Arkansas	ADEQ	88-0966		3/14/2024	Collinsville
Illinois	IDPH	17584		5/31/2025	Collinsville
Iowa	IDNR	430		6/1/2024	Collinsville
Kentucky	UST	0073		1/31/2025	Collinsville
Missouri	MDNR	00930		10/31/2026	Collinsville
Missouri	MDNR	930		1/31/2025	Collinsville



Laboratory Results

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24030008

Client Project: Meredosia GW Monitoring Q1 2024

Report Date: 22-Mar-24

Lab ID: 24030008-001

Client Sample ID: APW-1

Matrix: GROUNDWATER

Collection Date: 03/14/2024 11:36

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		421.22	ft	1	03/14/2024 11:36	R344463
Depth to water	*	-5.00		17.66	ft	1	03/14/2024 11:36	R344463
Depth to water from measuring point	*	0		20.86	ft	1	03/14/2024 11:36	R344463
Elevation of groundwater surface	*	0		428.40	ft	1	03/14/2024 11:36	R344463
Measuring Point Elevation	*	0		449.26	ft	1	03/14/2024 11:36	R344463
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		9.0	NTU	1	03/14/2024 11:36	R344463
STANDARD METHODS 18TH ED. 2580 B FIELD								
Oxidation-Reduction Potential	*	-300		69	mV	1	03/14/2024 11:36	R344463
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		15.5	°C	1	03/14/2024 11:36	R344463
STANDARD METHODS 4500-O G FIELD								
Oxygen, Dissolved	*	0		3.67	mg/L	1	03/14/2024 11:36	R344463
SW-846 9040B								
pH, Field	*	1.00		7.26		1	03/14/2024 11:36	R344463
SW-846 9050A								
Spec. Conductance, Field	*	1.00		665	µmhos/cm @25C	1	03/14/2024 11:36	R344463
STANDARD METHODS 2540 C (DISSOLVED) 1997, 2011								
Total Dissolved Solids	NELAP	20		368	mg/L	1	03/15/2024 8:10	R344506
STANDARD METHODS 4500-NO3 F (DISSOLVED) 2000, 2011								
Nitrogen, Nitrate (as N)	NELAP	0.500		2.80	mg/L	1	03/15/2024 14:08	R344473
SW-846 9012A (TOTAL)								
Cyanide	NELAP	0.005		< 0.005	mg/L	1	03/21/2024 13:24	220174
SW-846 9036 (DISSOLVED)								
Sulfate	NELAP	10		13	mg/L	1	03/18/2024 9:34	R344515
SW-846 9214 (DISSOLVED)								
Fluoride	NELAP	0.10		0.33	mg/L	1	03/15/2024 9:21	R344388
SW-846 9251 (DISSOLVED)								
Chloride	NELAP	40		79	mg/L	10	03/18/2024 18:14	R344517
SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)								
Barium	NELAP	0.0025		0.0140	mg/L	1	03/19/2024 11:08	220058
Beryllium	NELAP	0.0005		< 0.0005	mg/L	1	03/19/2024 11:08	220058
Boron	NELAP	0.0200		0.0315	mg/L	1	03/19/2024 11:08	220058
Cadmium	NELAP	0.0020		< 0.0020	mg/L	1	03/19/2024 11:08	220058
Chromium	NELAP	0.0050		< 0.0050	mg/L	1	03/19/2024 11:08	220058
Cobalt	NELAP	0.0050		< 0.0050	mg/L	1	03/19/2024 11:08	220058
Copper	NELAP	0.0050		< 0.0050	mg/L	1	03/19/2024 11:08	220058
Iron	NELAP	0.0400		< 0.0400	mg/L	1	03/19/2024 11:08	220058
Manganese	NELAP	0.0070		0.0282	mg/L	1	03/19/2024 11:08	220058
Nickel	NELAP	0.0050		< 0.0050	mg/L	1	03/19/2024 11:08	220058
Selenium	NELAP	0.0400		< 0.0400	mg/L	1	03/19/2024 11:08	220058
Silver	NELAP	0.0070		< 0.0070	mg/L	1	03/19/2024 11:08	220058
Vanadium	NELAP	0.010	J	0.0010	mg/L	1	03/19/2024 11:08	220058
Zinc	NELAP	0.0100		< 0.0100	mg/L	1	03/19/2024 11:08	220058



Laboratory Results

Client: AmerenEnergy Medina Valley Cogen, LLC
Client Project: Meredosia GW Monitoring Q1 2024
Lab ID: 24030008-001
Matrix: GROUNDWATER

Work Order: 24030008
Report Date: 22-Mar-24

Client Sample ID: APW-1

Collection Date: 03/14/2024 11:36

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		0.0180	mg/L	1	03/19/2024 10:03	219921
Beryllium	NELAP	0.0005		< 0.0005	mg/L	1	03/19/2024 10:03	219921
Boron	NELAP	0.0200		0.0283	mg/L	1	03/19/2024 10:03	219921
Cadmium	NELAP	0.0020		< 0.0020	mg/L	1	03/19/2024 10:03	219921
Chromium	NELAP	0.0050		< 0.0050	mg/L	1	03/19/2024 10:03	219921
Cobalt	NELAP	0.0050		0.0077	mg/L	1	03/19/2024 10:03	219921
Copper	NELAP	0.0050	J	0.0039	mg/L	1	03/19/2024 10:03	219921
Iron	NELAP	0.0400		1.74	mg/L	1	03/19/2024 10:03	219921
Manganese	NELAP	0.0070		0.313	mg/L	1	03/19/2024 10:03	219921
Nickel	NELAP	0.0050		0.0081	mg/L	1	03/19/2024 10:03	219921
Selenium	NELAP	0.0400		< 0.0400	mg/L	1	03/19/2024 10:03	219921
Silver	NELAP	0.0070		< 0.0070	mg/L	1	03/19/2024 10:03	219921
Vanadium	NELAP	0.010	J	0.0029	mg/L	1	03/19/2024 10:03	219921
Zinc	NELAP	0.010	J	0.0096	mg/L	1	03/19/2024 10:03	219921
SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)								
Antimony	NELAP	0.0010		< 0.0010	mg/L	5	03/20/2024 11:39	220058
Arsenic	NELAP	0.0010	J	0.0007	mg/L	5	03/19/2024 13:25	220058
Lead	NELAP	0.0010		< 0.0010	mg/L	5	03/19/2024 13:25	220058
Thallium	NELAP	0.0020		< 0.0020	mg/L	5	03/19/2024 13:25	220058
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		< 0.0010	mg/L	5	03/21/2024 17:15	219921
Arsenic	NELAP	0.0010		0.0016	mg/L	5	03/19/2024 14:51	219921
Lead	NELAP	0.0010		0.0034	mg/L	5	03/19/2024 14:51	219921
Thallium	NELAP	0.0020		< 0.0020	mg/L	5	03/21/2024 17:15	219921
SW-846 7470A (DISSOLVED)								
Mercury	NELAP	0.00020		< 0.00020	mg/L	1	03/15/2024 16:49	219964
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020	J	0.00017	mg/L	1	03/22/2024 9:22	220247



Laboratory Results

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24030008

Client Project: Meredosia GW Monitoring Q1 2024

Report Date: 22-Mar-24

Lab ID: 24030008-002

Client Sample ID: APW-2

Matrix: GROUNDWATER

Collection Date: 03/13/2024 12:07

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		410.57	ft	1	03/13/2024 12:07	R344463
Depth to water	*	-5.00		8.77	ft	1	03/13/2024 12:07	R344463
Depth to water from measuring point	*	0		11.67	ft	1	03/13/2024 12:07	R344463
Elevation of groundwater surface	*	0		425.20	ft	1	03/13/2024 12:07	R344463
Measuring Point Elevation	*	0		436.87	ft	1	03/13/2024 12:07	R344463
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		9.9	NTU	1	03/13/2024 12:07	R344463
STANDARD METHODS 18TH ED. 2580 B FIELD								
Oxidation-Reduction Potential	*	-300		18	mV	1	03/13/2024 12:07	R344463
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		13.0	°C	1	03/13/2024 12:07	R344463
STANDARD METHODS 4500-O G FIELD								
Oxygen, Dissolved	*	0		0.90	mg/L	1	03/13/2024 12:07	R344463
SW-846 9040B								
pH, Field	*	1.00		7.05		1	03/13/2024 12:07	R344463
SW-846 9050A								
Spec. Conductance, Field	*	1.00		494	µmhos/cm @25C	1	03/13/2024 12:07	R344463
STANDARD METHODS 2540 C (DISSOLVED) 1997, 2011								
Total Dissolved Solids	NELAP	20		324	mg/L	1	03/14/2024 7:47	R344417
STANDARD METHODS 4500-NO3 F (DISSOLVED) 2000, 2011								
Nitrogen, Nitrate (as N)	NELAP	0.050	J	0.014	mg/L	1	03/14/2024 15:47	R344392
SW-846 9012A (TOTAL)								
Cyanide	NELAP	0.005		< 0.005	mg/L	1	03/21/2024 13:28	220174
SW-846 9036 (DISSOLVED)								
Sulfate	NELAP	10	JS	9	mg/L	1	03/14/2024 9:10	R344355
<i>Matrix spike did not recover within control limits. Results verified by dilution.</i>								
SW-846 9214 (DISSOLVED)								
Fluoride	NELAP	0.10		0.28	mg/L	1	03/14/2024 15:37	R344388
SW-846 9251 (DISSOLVED)								
Chloride	NELAP	4	J	2	mg/L	1	03/14/2024 9:10	R344357
SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)								
Barium	NELAP	0.0025		0.0399	mg/L	1	03/14/2024 16:46	219902
Beryllium	NELAP	0.0005		< 0.0005	mg/L	1	03/14/2024 16:46	219902
Boron	NELAP	0.0200		0.929	mg/L	1	03/14/2024 16:46	219902
Cadmium	NELAP	0.0020		< 0.0020	mg/L	1	03/14/2024 16:46	219902
Chromium	NELAP	0.0050		< 0.0050	mg/L	1	03/14/2024 16:46	219902
Cobalt	NELAP	0.0050		< 0.0050	mg/L	1	03/14/2024 16:46	219902
Copper	NELAP	0.0050		< 0.0050	mg/L	1	03/14/2024 16:46	219902
Iron	NELAP	0.040	J	0.030	mg/L	1	03/14/2024 16:46	219902
Manganese	NELAP	0.0070		0.0430	mg/L	1	03/14/2024 16:46	219902
Nickel	NELAP	0.0050		< 0.0050	mg/L	1	03/14/2024 16:46	219902
Selenium	NELAP	0.0400		< 0.0400	mg/L	1	03/14/2024 16:46	219902
Silver	NELAP	0.0070		< 0.0070	mg/L	1	03/14/2024 16:46	219902
Vanadium	NELAP	0.010	J	0.0011	mg/L	1	03/14/2024 16:46	219902
Zinc	NELAP	0.0100		< 0.0100	mg/L	1	03/14/2024 16:46	219902



Laboratory Results

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24030008

Client Project: Meredosia GW Monitoring Q1 2024

Report Date: 22-Mar-24

Lab ID: 24030008-002

Client Sample ID: APW-2

Matrix: GROUNDWATER

Collection Date: 03/13/2024 12:07

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		0.0468	mg/L	1	03/14/2024 11:16	219911
Beryllium	NELAP	0.0005		< 0.0005	mg/L	1	03/14/2024 11:16	219911
Boron	NELAP	0.0200		0.961	mg/L	1	03/18/2024 12:54	219911
Cadmium	NELAP	0.0020		< 0.0020	mg/L	1	03/14/2024 11:16	219911
Chromium	NELAP	0.0050		< 0.0050	mg/L	1	03/14/2024 11:16	219911
Cobalt	NELAP	0.0050		< 0.0050	mg/L	1	03/14/2024 11:16	219911
Copper	NELAP	0.0050		< 0.0050	mg/L	1	03/14/2024 11:16	219911
Iron	NELAP	0.0400		1.32	mg/L	1	03/14/2024 11:16	219911
Manganese	NELAP	0.0070		0.141	mg/L	1	03/14/2024 11:16	219911
Nickel	NELAP	0.0050		< 0.0050	mg/L	1	03/14/2024 11:16	219911
Selenium	NELAP	0.0400		< 0.0400	mg/L	1	03/14/2024 11:16	219911
Silver	NELAP	0.0070	J	0.0032	mg/L	1	03/14/2024 11:16	219911
Vanadium	NELAP	0.0100		< 0.0100	mg/L	1	03/14/2024 11:16	219911
Zinc	NELAP	0.0100		< 0.0100	mg/L	1	03/14/2024 11:16	219911
SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)								
Antimony	NELAP	0.0010		0.0012	mg/L	5	03/16/2024 3:19	219902
Arsenic	NELAP	0.0010		0.0011	mg/L	5	03/14/2024 11:15	219902
Lead	NELAP	0.0010		< 0.0010	mg/L	5	03/14/2024 11:15	219902
Thallium	NELAP	0.0020		< 0.0020	mg/L	5	03/14/2024 11:15	219902
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		< 0.0010	mg/L	5	03/20/2024 9:26	219911
Arsenic	NELAP	0.0010		0.0022	mg/L	5	03/16/2024 0:23	219911
Lead	NELAP	0.0010		< 0.0010	mg/L	5	03/16/2024 0:23	219911
Thallium	NELAP	0.0020		< 0.0020	mg/L	5	03/18/2024 11:18	219911
SW-846 7470A (DISSOLVED)								
Mercury	NELAP	0.00020		< 0.00020	mg/L	1	03/15/2024 17:01	219964
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		< 0.00020	mg/L	1	03/15/2024 16:57	219964



Laboratory Results

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24030008

Client Project: Meredosia GW Monitoring Q1 2024

Report Date: 22-Mar-24

Lab ID: 24030008-003

Client Sample ID: APW-3

Matrix: GROUNDWATER

Collection Date: 03/13/2024 11:23

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		410.40	ft	1	03/13/2024 11:23	R344463
Depth to water	*	-5.00		6.30	ft	1	03/13/2024 11:23	R344463
Depth to water from measuring point	*	0		9.23	ft	1	03/13/2024 11:23	R344463
Elevation of groundwater surface	*	0		427.05	ft	1	03/13/2024 11:23	R344463
Measuring Point Elevation	*	0		436.28	ft	1	03/13/2024 11:23	R344463
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		14	NTU	1	03/13/2024 11:23	R344463
STANDARD METHODS 18TH ED. 2580 B FIELD								
Oxidation-Reduction Potential	*	-300		62	mV	1	03/13/2024 11:23	R344463
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		13.9	°C	1	03/13/2024 11:23	R344463
STANDARD METHODS 4500-O G FIELD								
Oxygen, Dissolved	*	0		0.78	mg/L	1	03/13/2024 11:23	R344463
SW-846 9040B								
pH, Field	*	1.00		7.40		1	03/13/2024 11:23	R344463
SW-846 9050A								
Spec. Conductance, Field	*	1.00		1040	µmhos/cm @25C	1	03/13/2024 11:23	R344463
STANDARD METHODS 2540 C (DISSOLVED) 1997, 2011								
Total Dissolved Solids	NELAP	20		784	mg/L	1	03/14/2024 7:47	R344417
STANDARD METHODS 4500-NO3 F (DISSOLVED) 2000, 2011								
Nitrogen, Nitrate (as N)	NELAP	0.050		< 0.050	mg/L	1	03/14/2024 15:49	R344392
SW-846 9012A (TOTAL)								
Cyanide	NELAP	0.005		< 0.005	mg/L	1	03/21/2024 13:32	220174
SW-846 9036 (DISSOLVED)								
Sulfate	NELAP	20		64	mg/L	2	03/14/2024 9:36	R344355
SW-846 9214 (DISSOLVED)								
Fluoride	NELAP	0.10		0.19	mg/L	1	03/14/2024 15:40	R344388
SW-846 9251 (DISSOLVED)								
Chloride	NELAP	4		18	mg/L	1	03/14/2024 9:31	R344357
SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)								
Barium	NELAP	0.0025		0.111	mg/L	1	03/14/2024 16:47	219902
Beryllium	NELAP	0.0005		< 0.0005	mg/L	1	03/14/2024 16:47	219902
Boron	NELAP	0.0200	X	13.1	mg/L	1	03/14/2024 16:47	219902
Cadmium	NELAP	0.0020		< 0.0020	mg/L	1	03/14/2024 16:47	219902
Chromium	NELAP	0.0050		< 0.0050	mg/L	1	03/14/2024 16:47	219902
Cobalt	NELAP	0.0050		< 0.0050	mg/L	1	03/14/2024 16:47	219902
Copper	NELAP	0.0050		< 0.0050	mg/L	1	03/14/2024 16:47	219902
Iron	NELAP	0.0400		3.62	mg/L	1	03/14/2024 16:47	219902
Manganese	NELAP	0.0070	X	1.36	mg/L	1	03/14/2024 16:47	219902
Nickel	NELAP	0.0050		< 0.0050	mg/L	1	03/14/2024 16:47	219902
Selenium	NELAP	0.0400		< 0.0400	mg/L	1	03/14/2024 16:47	219902
Silver	NELAP	0.0070		< 0.0070	mg/L	1	03/14/2024 16:47	219902
Vanadium	NELAP	0.0100		< 0.0100	mg/L	1	03/14/2024 16:47	219902
Zinc	NELAP	0.0100		< 0.0100	mg/L	1	03/14/2024 16:47	219902



Laboratory Results

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24030008

Client Project: Meredosia GW Monitoring Q1 2024

Report Date: 22-Mar-24

Lab ID: 24030008-003

Client Sample ID: APW-3

Matrix: GROUNDWATER

Collection Date: 03/13/2024 11:23

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		0.126	mg/L	1	03/14/2024 11:17	219911
Beryllium	NELAP	0.0005		< 0.0005	mg/L	1	03/14/2024 11:17	219911
Boron	NELAP	0.0200		13.0	mg/L	1	03/14/2024 11:17	219911
Cadmium	NELAP	0.0020		< 0.0020	mg/L	1	03/14/2024 11:17	219911
Chromium	NELAP	0.0050		< 0.0050	mg/L	1	03/14/2024 11:17	219911
Cobalt	NELAP	0.0050	J	0.0020	mg/L	1	03/14/2024 11:17	219911
Copper	NELAP	0.0050		< 0.0050	mg/L	1	03/14/2024 11:17	219911
Iron	NELAP	0.0400		5.72	mg/L	1	03/14/2024 11:17	219911
Manganese	NELAP	0.0070		1.35	mg/L	1	03/14/2024 11:17	219911
Nickel	NELAP	0.0050		< 0.0050	mg/L	1	03/14/2024 11:17	219911
Selenium	NELAP	0.0400		< 0.0400	mg/L	1	03/14/2024 11:17	219911
Silver	NELAP	0.0070	J	0.0043	mg/L	1	03/14/2024 11:17	219911
Vanadium	NELAP	0.0100		< 0.0100	mg/L	1	03/14/2024 11:17	219911
Zinc	NELAP	0.0100		< 0.0100	mg/L	1	03/14/2024 11:17	219911
SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)								
Antimony	NELAP	0.0010		< 0.0010	mg/L	5	03/16/2024 3:23	219902
Arsenic	NELAP	0.0010	X	0.186	mg/L	5	03/14/2024 11:21	219902
Lead	NELAP	0.0010		< 0.0010	mg/L	5	03/14/2024 11:21	219902
Thallium	NELAP	0.0020		< 0.0020	mg/L	5	03/14/2024 11:21	219902
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		< 0.0010	mg/L	5	03/20/2024 9:30	219911
Arsenic	NELAP	0.0010		0.190	mg/L	5	03/16/2024 0:29	219911
Lead	NELAP	0.0010		< 0.0010	mg/L	5	03/16/2024 0:29	219911
Thallium	NELAP	0.0020		< 0.0020	mg/L	5	03/18/2024 11:24	219911
SW-846 7470A (DISSOLVED)								
Mercury	NELAP	0.00020		< 0.00020	mg/L	1	03/18/2024 13:58	219964
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		< 0.00020	mg/L	1	03/15/2024 17:03	219964



Laboratory Results

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24030008

Client Project: Meredosia GW Monitoring Q1 2024

Report Date: 22-Mar-24

Lab ID: 24030008-004

Client Sample ID: APW-4

Matrix: GROUNDWATER

Collection Date: 03/12/2024 13:17

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		411.96	ft	1	03/12/2024 13:17	R344463
Depth to water	*	-5.00		5.31	ft	1	03/12/2024 13:17	R344463
Depth to water from measuring point	*	0		8.27	ft	1	03/12/2024 13:17	R344463
Elevation of groundwater surface	*	0		426.59	ft	1	03/12/2024 13:17	R344463
Measuring Point Elevation	*	0		434.86	ft	1	03/12/2024 13:17	R344463
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		19	NTU	1	03/12/2024 13:17	R344463
STANDARD METHODS 18TH ED. 2580 B FIELD								
Oxidation-Reduction Potential	*	-300		60	mV	1	03/12/2024 13:17	R344463
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		13.8	°C	1	03/12/2024 13:17	R344463
STANDARD METHODS 4500-O G FIELD								
Oxygen, Dissolved	*	0		0.89	mg/L	1	03/12/2024 13:17	R344463
SW-846 9040B								
pH, Field	*	1.00		6.96		1	03/12/2024 13:17	R344463
SW-846 9050A								
Spec. Conductance, Field	*	1.00		661	µmhos/cm @25C	1	03/12/2024 13:17	R344463
STANDARD METHODS 2540 C (DISSOLVED) 1997, 2011								
Total Dissolved Solids	NELAP	20		450	mg/L	1	03/13/2024 8:19	R344358
STANDARD METHODS 4500-NO3 F (DISSOLVED) 2000, 2011								
Nitrogen, Nitrate (as N)	NELAP	0.100		1.32	mg/L	1	03/13/2024 12:27	R344301
SW-846 9012A (TOTAL)								
Cyanide	NELAP	0.005		< 0.005	mg/L	1	03/14/2024 11:38	219887
SW-846 9036 (DISSOLVED)								
Sulfate	NELAP	20		38	mg/L	2	03/13/2024 13:55	R344317
SW-846 9214 (DISSOLVED)								
Fluoride	NELAP	0.10		0.27	mg/L	1	03/13/2024 11:12	R344290
SW-846 9251 (DISSOLVED)								
Chloride	NELAP	4		34	mg/L	1	03/13/2024 13:44	R344318
SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)								
Barium	NELAP	0.0025		0.0310	mg/L	1	03/15/2024 10:48	219902
Beryllium	NELAP	0.0005		< 0.0005	mg/L	1	03/15/2024 10:48	219902
Boron	NELAP	0.0200		0.526	mg/L	1	03/15/2024 10:48	219902
Cadmium	NELAP	0.0020		< 0.0020	mg/L	1	03/15/2024 10:48	219902
Chromium	NELAP	0.0050		< 0.0050	mg/L	1	03/15/2024 10:48	219902
Cobalt	NELAP	0.0050		< 0.0050	mg/L	1	03/15/2024 10:48	219902
Copper	NELAP	0.0050	J	0.0031	mg/L	1	03/15/2024 10:48	219902
Iron	NELAP	0.040	J	0.029	mg/L	1	03/15/2024 10:48	219902
Manganese	NELAP	0.0070	X	0.536	mg/L	1	03/15/2024 10:48	219902
Nickel	NELAP	0.0050		< 0.0050	mg/L	1	03/15/2024 10:48	219902
Selenium	NELAP	0.0400		< 0.0400	mg/L	1	03/15/2024 10:48	219902
Silver	NELAP	0.0070		< 0.0070	mg/L	1	03/15/2024 10:48	219902
Vanadium	NELAP	0.0100		< 0.0100	mg/L	1	03/15/2024 10:48	219902
Zinc	NELAP	0.010	J	0.0063	mg/L	1	03/15/2024 10:48	219902



Laboratory Results

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24030008

Client Project: Meredosia GW Monitoring Q1 2024

Report Date: 22-Mar-24

Lab ID: 24030008-004

Client Sample ID: APW-4

Matrix: GROUNDWATER

Collection Date: 03/12/2024 13:17

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		0.0854	mg/L	1	03/14/2024 14:08	219890
Beryllium	NELAP	0.0005		< 0.0005	mg/L	1	03/14/2024 14:08	219890
Boron	NELAP	0.0200		0.585	mg/L	1	03/14/2024 14:08	219890
Cadmium	NELAP	0.0020		< 0.0020	mg/L	1	03/14/2024 14:08	219890
Chromium	NELAP	0.0050		< 0.0050	mg/L	1	03/14/2024 14:08	219890
Cobalt	NELAP	0.0050		< 0.0050	mg/L	1	03/14/2024 14:08	219890
Copper	NELAP	0.0050		0.0052	mg/L	1	03/14/2024 14:08	219890
Iron	NELAP	0.0400		12.7	mg/L	1	03/14/2024 14:08	219890
Manganese	NELAP	0.0070		1.54	mg/L	1	03/14/2024 14:08	219890
Nickel	NELAP	0.0050		< 0.0050	mg/L	1	03/14/2024 14:08	219890
Selenium	NELAP	0.0400		< 0.0400	mg/L	1	03/14/2024 14:08	219890
Silver	NELAP	0.0070		< 0.0070	mg/L	1	03/14/2024 14:08	219890
Vanadium	NELAP	0.010	J	0.0020	mg/L	1	03/14/2024 14:08	219890
Zinc	NELAP	0.0100		0.0101	mg/L	1	03/14/2024 14:08	219890
SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)								
Antimony	NELAP	0.0010		< 0.0010	mg/L	5	03/16/2024 3:27	219902
Arsenic	NELAP	0.0010	J	0.0008	mg/L	5	03/14/2024 11:27	219902
Lead	NELAP	0.0010		< 0.0010	mg/L	5	03/14/2024 11:27	219902
Thallium	NELAP	0.0020		< 0.0020	mg/L	5	03/14/2024 11:27	219902
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010	J	0.0006	mg/L	5	03/20/2024 9:14	219890
Arsenic	NELAP	0.0010		0.0142	mg/L	5	03/14/2024 14:18	219890
Lead	NELAP	0.0010	J	0.0008	mg/L	5	03/14/2024 14:18	219890
Thallium	NELAP	0.0020		< 0.0020	mg/L	5	03/14/2024 14:18	219890
SW-846 7470A (DISSOLVED)								
Mercury	NELAP	0.00020		< 0.00020	mg/L	1	03/18/2024 14:03	219964
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		< 0.00020	mg/L	1	03/18/2024 14:00	219964



Laboratory Results

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24030008

Client Project: Meredosia GW Monitoring Q1 2024

Report Date: 22-Mar-24

Lab ID: 24030008-005

Client Sample ID: APW-5

Matrix: GROUNDWATER

Collection Date: 03/14/2024 12:12

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		420.28	ft	1	03/14/2024 12:12	R344463
Depth to water	*	-5.00		22.69	ft	1	03/14/2024 12:12	R344463
Depth to water from measuring point	*	0		25.41	ft	1	03/14/2024 12:12	R344463
Elevation of groundwater surface	*	0		427.79	ft	1	03/14/2024 12:12	R344463
Measuring Point Elevation	*	0		453.20	ft	1	03/14/2024 12:12	R344463
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		6.3	NTU	1	03/14/2024 12:12	R344463
STANDARD METHODS 18TH ED. 2580 B FIELD								
Oxidation-Reduction Potential	*	-300		70	mV	1	03/14/2024 12:12	R344463
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		16.3	°C	1	03/14/2024 12:12	R344463
STANDARD METHODS 4500-O G FIELD								
Oxygen, Dissolved	*	0		3.10	mg/L	1	03/14/2024 12:12	R344463
SW-846 9040B								
pH, Field	*	1.00		7.42		1	03/14/2024 12:12	R344463
SW-846 9050A								
Spec. Conductance, Field	*	1.00		498	µmhos/cm @25C	1	03/14/2024 12:12	R344463
STANDARD METHODS 2540 C (DISSOLVED) 1997, 2011								
Total Dissolved Solids	NELAP	20		312	mg/L	1	03/15/2024 8:10	R344506
STANDARD METHODS 4500-NO3 F (DISSOLVED) 2000, 2011								
Nitrogen, Nitrate (as N)	NELAP	0.500		3.24	mg/L	1	03/15/2024 14:10	R344473
SW-846 9012A (TOTAL)								
Cyanide	NELAP	0.005		< 0.005	mg/L	1	03/21/2024 13:36	220174
SW-846 9036 (DISSOLVED)								
Sulfate	NELAP	10		26	mg/L	1	03/18/2024 9:56	R344515
SW-846 9214 (DISSOLVED)								
Fluoride	NELAP	0.10		0.21	mg/L	1	03/15/2024 9:23	R344388
SW-846 9251 (DISSOLVED)								
Chloride	NELAP	4		13	mg/L	1	03/18/2024 9:56	R344517
SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)								
Barium	NELAP	0.0025		0.0098	mg/L	1	03/19/2024 11:10	220058
Beryllium	NELAP	0.0005		< 0.0005	mg/L	1	03/19/2024 11:10	220058
Boron	NELAP	0.0200		0.0765	mg/L	1	03/19/2024 11:10	220058
Cadmium	NELAP	0.0020		< 0.0020	mg/L	1	03/19/2024 11:10	220058
Chromium	NELAP	0.0050		< 0.0050	mg/L	1	03/19/2024 11:10	220058
Cobalt	NELAP	0.0050		< 0.0050	mg/L	1	03/19/2024 11:10	220058
Copper	NELAP	0.0050		< 0.0050	mg/L	1	03/19/2024 11:10	220058
Iron	NELAP	0.0400		< 0.0400	mg/L	1	03/19/2024 11:10	220058
Manganese	NELAP	0.0070		< 0.0070	mg/L	1	03/19/2024 11:10	220058
Nickel	NELAP	0.0050		< 0.0050	mg/L	1	03/19/2024 11:10	220058
Selenium	NELAP	0.0400		< 0.0400	mg/L	1	03/19/2024 11:10	220058
Silver	NELAP	0.0070		< 0.0070	mg/L	1	03/19/2024 11:10	220058
Vanadium	NELAP	0.0100		< 0.0100	mg/L	1	03/19/2024 11:10	220058
Zinc	NELAP	0.0100		< 0.0100	mg/L	1	03/19/2024 11:10	220058



Laboratory Results

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24030008

Client Project: Meredosia GW Monitoring Q1 2024

Report Date: 22-Mar-24

Lab ID: 24030008-005

Client Sample ID: APW-5

Matrix: GROUNDWATER

Collection Date: 03/14/2024 12:12

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		0.0110	mg/L	1	03/19/2024 10:04	219921
Beryllium	NELAP	0.0005		< 0.0005	mg/L	1	03/19/2024 10:04	219921
Boron	NELAP	0.0200		0.0798	mg/L	1	03/19/2024 10:04	219921
Cadmium	NELAP	0.0020		< 0.0020	mg/L	1	03/19/2024 10:04	219921
Chromium	NELAP	0.0050		< 0.0050	mg/L	1	03/19/2024 10:04	219921
Cobalt	NELAP	0.0050	J	0.0031	mg/L	1	03/19/2024 10:04	219921
Copper	NELAP	0.0050		< 0.0050	mg/L	1	03/19/2024 10:04	219921
Iron	NELAP	0.0400		0.366	mg/L	1	03/19/2024 10:04	219921
Manganese	NELAP	0.0070		0.0538	mg/L	1	03/19/2024 10:04	219921
Nickel	NELAP	0.0050		< 0.0050	mg/L	1	03/19/2024 10:04	219921
Selenium	NELAP	0.0400		< 0.0400	mg/L	1	03/19/2024 10:04	219921
Silver	NELAP	0.0070		< 0.0070	mg/L	1	03/19/2024 10:04	219921
Vanadium	NELAP	0.010	J	0.0013	mg/L	1	03/19/2024 10:04	219921
Zinc	NELAP	0.010	J	0.0065	mg/L	1	03/19/2024 10:04	219921
SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)								
Antimony	NELAP	0.0010		< 0.0010	mg/L	5	03/20/2024 12:12	220058
Arsenic	NELAP	0.0010	J	0.0006	mg/L	5	03/19/2024 13:31	220058
Lead	NELAP	0.0010		< 0.0010	mg/L	5	03/19/2024 13:31	220058
Thallium	NELAP	0.0020		< 0.0020	mg/L	5	03/19/2024 13:31	220058
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		< 0.0010	mg/L	5	03/21/2024 17:20	219921
Arsenic	NELAP	0.0010	J	0.0007	mg/L	5	03/19/2024 14:57	219921
Lead	NELAP	0.0010	J	0.0007	mg/L	5	03/19/2024 14:57	219921
Thallium	NELAP	0.0020		< 0.0020	mg/L	5	03/21/2024 17:20	219921
SW-846 7470A (DISSOLVED)								
Mercury	NELAP	0.00020		< 0.00020	mg/L	1	03/18/2024 14:13	219964
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		< 0.00020	mg/L	1	03/18/2024 14:09	219964



Laboratory Results

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24030008

Client Project: Meredosia GW Monitoring Q1 2024

Report Date: 22-Mar-24

Lab ID: 24030008-006

Client Sample ID: APW-6

Matrix: GROUNDWATER

Collection Date: 03/12/2024 11:56

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		421.04	ft	1	03/12/2024 11:56	R344463
Depth to water	*	-5.00		20.36	ft	1	03/12/2024 11:56	R344463
Depth to water from measuring point	*	0		23.66	ft	1	03/12/2024 11:56	R344463
Elevation of groundwater surface	*	0		428.24	ft	1	03/12/2024 11:56	R344463
Measuring Point Elevation	*	0		451.90	ft	1	03/12/2024 11:56	R344463
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		7.3	NTU	1	03/12/2024 11:56	R344463
STANDARD METHODS 18TH ED. 2580 B FIELD								
Oxidation-Reduction Potential	*	-300		46	mV	1	03/12/2024 11:56	R344463
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		15.1	°C	1	03/12/2024 11:56	R344463
STANDARD METHODS 4500-O G FIELD								
Oxygen, Dissolved	*	0		5.91	mg/L	1	03/12/2024 11:56	R344463
SW-846 9040B								
pH, Field	*	1.00		7.07		1	03/12/2024 11:56	R344463
SW-846 9050A								
Spec. Conductance, Field	*	1.00		438	µmhos/cm @25C	1	03/12/2024 11:56	R344463
STANDARD METHODS 2540 C (DISSOLVED) 1997, 2011								
Total Dissolved Solids	NELAP	20		282	mg/L	1	03/13/2024 8:19	R344358
STANDARD METHODS 4500-NO3 F (DISSOLVED) 2000, 2011								
Nitrogen, Nitrate (as N)	NELAP	0.050		0.201	mg/L	1	03/13/2024 12:29	R344301
SW-846 9012A (TOTAL)								
Cyanide	NELAP	0.005		< 0.005	mg/L	1	03/14/2024 11:43	219887
SW-846 9036 (DISSOLVED)								
Sulfate	NELAP	10		15	mg/L	1	03/13/2024 14:05	R344317
SW-846 9214 (DISSOLVED)								
Fluoride	NELAP	0.10		0.13	mg/L	1	03/13/2024 11:15	R344290
SW-846 9251 (DISSOLVED)								
Chloride	NELAP	4	J	3	mg/L	1	03/13/2024 14:05	R344318
SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)								
Barium	NELAP	0.0025		0.0124	mg/L	1	03/15/2024 10:50	219902
Beryllium	NELAP	0.0005		< 0.0005	mg/L	1	03/15/2024 10:50	219902
Boron	NELAP	0.0200		0.470	mg/L	1	03/15/2024 10:50	219902
Cadmium	NELAP	0.0020		< 0.0020	mg/L	1	03/15/2024 10:50	219902
Chromium	NELAP	0.0050		< 0.0050	mg/L	1	03/15/2024 10:50	219902
Cobalt	NELAP	0.0050		< 0.0050	mg/L	1	03/15/2024 10:50	219902
Copper	NELAP	0.0050		< 0.0050	mg/L	1	03/15/2024 10:50	219902
Iron	NELAP	0.0400		< 0.0400	mg/L	1	03/15/2024 10:50	219902
Manganese	NELAP	0.0070		0.0075	mg/L	1	03/15/2024 10:50	219902
Nickel	NELAP	0.0050		< 0.0050	mg/L	1	03/15/2024 10:50	219902
Selenium	NELAP	0.040	J	0.019	mg/L	1	03/15/2024 10:50	219902
Silver	NELAP	0.0070		< 0.0070	mg/L	1	03/15/2024 10:50	219902
Vanadium	NELAP	0.010	J	0.0011	mg/L	1	03/15/2024 10:50	219902
Zinc	NELAP	0.0100		< 0.0100	mg/L	1	03/15/2024 10:50	219902



Laboratory Results

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24030008

Client Project: Meredosia GW Monitoring Q1 2024

Report Date: 22-Mar-24

Lab ID: 24030008-006

Client Sample ID: APW-6

Matrix: GROUNDWATER

Collection Date: 03/12/2024 11:56

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		0.0184	mg/L	1	03/14/2024 16:04	219890
Beryllium	NELAP	0.0005		< 0.0005	mg/L	1	03/14/2024 16:04	219890
Boron	NELAP	0.0200		0.547	mg/L	1	03/14/2024 16:04	219890
Cadmium	NELAP	0.0020		< 0.0020	mg/L	1	03/14/2024 16:04	219890
Chromium	NELAP	0.0050		< 0.0050	mg/L	1	03/14/2024 16:04	219890
Cobalt	NELAP	0.0050		< 0.0050	mg/L	1	03/14/2024 16:04	219890
Copper	NELAP	0.0050		< 0.0050	mg/L	1	03/14/2024 16:04	219890
Iron	NELAP	0.0400		1.53	mg/L	1	03/14/2024 16:04	219890
Manganese	NELAP	0.0070		0.0998	mg/L	1	03/14/2024 16:04	219890
Nickel	NELAP	0.0050		< 0.0050	mg/L	1	03/14/2024 16:04	219890
Selenium	NELAP	0.0400		< 0.0400	mg/L	1	03/14/2024 16:04	219890
Silver	NELAP	0.0070		< 0.0070	mg/L	1	03/14/2024 16:04	219890
Vanadium	NELAP	0.010	J	0.0021	mg/L	1	03/14/2024 16:04	219890
Zinc	NELAP	0.0100		< 0.0100	mg/L	1	03/14/2024 16:04	219890
SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)								
Antimony	NELAP	0.0010		< 0.0010	mg/L	5	03/16/2024 4:05	219902
Arsenic	NELAP	0.0010	J	0.0006	mg/L	5	03/14/2024 11:44	219902
Lead	NELAP	0.0010		< 0.0010	mg/L	5	03/14/2024 11:44	219902
Thallium	NELAP	0.0020		< 0.0020	mg/L	5	03/14/2024 11:44	219902
<i>CCV recovered outside the upper control limits for Sb. Sample results are below the reporting limit. Data is reportable per the TNI standard.</i>								
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010	J	0.0005	mg/L	5	03/20/2024 9:18	219890
Arsenic	NELAP	0.0010		0.0018	mg/L	5	03/14/2024 14:24	219890
Lead	NELAP	0.0010	J	0.0010	mg/L	5	03/14/2024 14:24	219890
Thallium	NELAP	0.0020		< 0.0020	mg/L	5	03/14/2024 14:24	219890
SW-846 7470A (DISSOLVED)								
Mercury	NELAP	0.00020		< 0.00020	mg/L	1	03/18/2024 14:17	219964
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		< 0.00020	mg/L	1	03/15/2024 16:46	219964



Laboratory Results

Client: AmerenEnergy Medina Valley Cogen, LLC
Client Project: Meredosia GW Monitoring Q1 2024
Lab ID: 24030008-007
Matrix: GROUNDWATER

Work Order: 24030008
Report Date: 22-Mar-24

Client Sample ID: APW-7

Collection Date: 03/12/2024 12:24

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		418.59	ft	1	03/12/2024 12:24	R344463
Depth to water	*	-5.00		7.70	ft	1	03/12/2024 12:24	R344463
Depth to water from measuring point	*	0		11.40	ft	1	03/12/2024 12:24	R344463
Elevation of groundwater surface	*	0		427.30	ft	1	03/12/2024 12:24	R344463
Measuring Point Elevation	*	0		438.70	ft	1	03/12/2024 12:24	R344463
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		4.9	NTU	1	03/12/2024 12:24	R344463
STANDARD METHODS 18TH ED. 2580 B FIELD								
Oxidation-Reduction Potential	*	-300		65	mV	1	03/12/2024 12:24	R344463
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		9.6	°C	1	03/12/2024 12:24	R344463
STANDARD METHODS 4500-O G FIELD								
Oxygen, Dissolved	*	0		3.43	mg/L	1	03/12/2024 12:24	R344463
SW-846 9040B								
pH, Field	*	1.00		6.77		1	03/12/2024 12:24	R344463
SW-846 9050A								
Spec. Conductance, Field	*	1.00		553	µmhos/cm @25C	1	03/12/2024 12:24	R344463
STANDARD METHODS 2540 C (DISSOLVED) 1997, 2011								
Total Dissolved Solids	NELAP	20		338	mg/L	1	03/13/2024 8:19	R344358
STANDARD METHODS 4500-NO3 F (DISSOLVED) 2000, 2011								
Nitrogen, Nitrate (as N)	NELAP	0.250		3.50	mg/L	1	03/13/2024 12:31	R344301
SW-846 9012A (TOTAL)								
Cyanide	NELAP	0.005		< 0.005	mg/L	1	03/14/2024 11:47	219887
SW-846 9036 (DISSOLVED)								
Sulfate	NELAP	10		28	mg/L	1	03/13/2024 14:08	R344317
SW-846 9214 (DISSOLVED)								
Fluoride	NELAP	0.10		0.22	mg/L	1	03/13/2024 11:13	R344290
SW-846 9251 (DISSOLVED)								
Chloride	NELAP	4		49	mg/L	1	03/13/2024 14:08	R344318
SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)								
Barium	NELAP	0.0025		0.0298	mg/L	1	03/15/2024 10:55	219902
Beryllium	NELAP	0.0005		< 0.0005	mg/L	1	03/15/2024 10:55	219902
Boron	NELAP	0.0200		0.0656	mg/L	1	03/15/2024 10:55	219902
Cadmium	NELAP	0.0020		< 0.0020	mg/L	1	03/15/2024 10:55	219902
Chromium	NELAP	0.0050		< 0.0050	mg/L	1	03/15/2024 10:55	219902
Cobalt	NELAP	0.0050		< 0.0050	mg/L	1	03/15/2024 10:55	219902
Copper	NELAP	0.0050		< 0.0050	mg/L	1	03/15/2024 10:55	219902
Iron	NELAP	0.0400		< 0.0400	mg/L	1	03/15/2024 10:55	219902
Manganese	NELAP	0.0070		< 0.0070	mg/L	1	03/15/2024 10:55	219902
Nickel	NELAP	0.0050		< 0.0050	mg/L	1	03/15/2024 10:55	219902
Selenium	NELAP	0.0400		< 0.0400	mg/L	1	03/15/2024 10:55	219902
Silver	NELAP	0.0070		< 0.0070	mg/L	1	03/15/2024 10:55	219902
Vanadium	NELAP	0.010	J	0.0010	mg/L	1	03/15/2024 10:55	219902
Zinc	NELAP	0.0100		< 0.0100	mg/L	1	03/15/2024 10:55	219902



Laboratory Results

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24030008

Client Project: Meredosia GW Monitoring Q1 2024

Report Date: 22-Mar-24

Lab ID: 24030008-007

Client Sample ID: APW-7

Matrix: GROUNDWATER

Collection Date: 03/12/2024 12:24

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		0.0390	mg/L	1	03/14/2024 16:13	219890
Beryllium	NELAP	0.0005	J	0.0003	mg/L	1	03/14/2024 16:13	219890
Boron	NELAP	0.0200		0.0731	mg/L	1	03/14/2024 16:13	219890
Cadmium	NELAP	0.0020		< 0.0020	mg/L	1	03/14/2024 16:13	219890
Chromium	NELAP	0.0050		< 0.0050	mg/L	1	03/14/2024 16:13	219890
Cobalt	NELAP	0.0050		< 0.0050	mg/L	1	03/14/2024 16:13	219890
Copper	NELAP	0.0050		< 0.0050	mg/L	1	03/14/2024 16:13	219890
Iron	NELAP	0.0400		0.444	mg/L	1	03/14/2024 16:13	219890
Manganese	NELAP	0.0070		0.0455	mg/L	1	03/14/2024 16:13	219890
Nickel	NELAP	0.0050		< 0.0050	mg/L	1	03/14/2024 16:13	219890
Selenium	NELAP	0.0400		< 0.0400	mg/L	1	03/14/2024 16:13	219890
Silver	NELAP	0.0070		< 0.0070	mg/L	1	03/14/2024 16:13	219890
Vanadium	NELAP	0.010	J	0.0015	mg/L	1	03/14/2024 16:13	219890
Zinc	NELAP	0.0100		< 0.0100	mg/L	1	03/14/2024 16:13	219890
SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)								
Antimony	NELAP	0.0010		< 0.0010	mg/L	5	03/16/2024 3:31	219902
Arsenic	NELAP	0.0010	J	0.0005	mg/L	5	03/14/2024 11:32	219902
Lead	NELAP	0.0010		< 0.0010	mg/L	5	03/14/2024 11:32	219902
Thallium	NELAP	0.0020		< 0.0020	mg/L	5	03/14/2024 11:32	219902
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		< 0.0010	mg/L	5	03/20/2024 9:22	219890
Arsenic	NELAP	0.0010	J	0.0005	mg/L	5	03/14/2024 14:30	219890
Lead	NELAP	0.0010		< 0.0010	mg/L	5	03/14/2024 14:30	219890
Thallium	NELAP	0.0020		< 0.0020	mg/L	5	03/14/2024 14:30	219890
SW-846 7470A (DISSOLVED)								
Mercury	NELAP	0.00020		< 0.00020	mg/L	1	03/18/2024 14:22	219964
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		< 0.00020	mg/L	1	03/18/2024 14:20	219964



Laboratory Results

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24030008

Client Project: Meredosia GW Monitoring Q1 2024

Report Date: 22-Mar-24

Lab ID: 24030008-008

Client Sample ID: APW-8

Matrix: GROUNDWATER

Collection Date: 03/13/2024 12:50

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		420.92	ft	1	03/13/2024 12:50	R344463
Depth to water	*	-5.00		33.21	ft	1	03/13/2024 12:50	R344463
Depth to water from measuring point	*	0		36.61	ft	1	03/13/2024 12:50	R344463
Elevation of groundwater surface	*	0		427.29	ft	1	03/13/2024 12:50	R344463
Measuring Point Elevation	*	0		463.90	ft	1	03/13/2024 12:50	R344463
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		8.9	NTU	1	03/13/2024 12:50	R344463
STANDARD METHODS 18TH ED. 2580 B FIELD								
Oxidation-Reduction Potential	*	-300		92	mV	1	03/13/2024 12:50	R344463
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		16.0	°C	1	03/13/2024 12:50	R344463
STANDARD METHODS 4500-O G FIELD								
Oxygen, Dissolved	*	0		8.02	mg/L	1	03/13/2024 12:50	R344463
SW-846 9040B								
pH, Field	*	1.00		7.51		1	03/13/2024 12:50	R344463
SW-846 9050A								
Spec. Conductance, Field	*	1.00		728	µmhos/cm @25C	1	03/13/2024 12:50	R344463
STANDARD METHODS 2540 C (DISSOLVED) 1997, 2011								
Total Dissolved Solids	NELAP	20		576	mg/L	1	03/14/2024 8:04	R344417
STANDARD METHODS 4500-NO3 F (DISSOLVED) 2000, 2011								
Nitrogen, Nitrate (as N)	NELAP	0.250		3.42	mg/L	1	03/14/2024 15:51	R344392
SW-846 9012A (TOTAL)								
Cyanide	NELAP	0.005		< 0.005	mg/L	1	03/21/2024 13:41	220174
SW-846 9036 (DISSOLVED)								
Sulfate	NELAP	100		218	mg/L	10	03/14/2024 9:44	R344355
SW-846 9214 (DISSOLVED)								
Fluoride	NELAP	0.10	J	0.08	mg/L	1	03/14/2024 15:42	R344388
SW-846 9251 (DISSOLVED)								
Chloride	NELAP	4		10	mg/L	1	03/14/2024 9:39	R344357
SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)								
Barium	NELAP	0.0025		0.0609	mg/L	1	03/15/2024 10:56	219902
Beryllium	NELAP	0.0005		< 0.0005	mg/L	1	03/15/2024 10:56	219902
Boron	NELAP	0.0200	X	6.47	mg/L	1	03/15/2024 10:56	219902
Cadmium	NELAP	0.0020		< 0.0020	mg/L	1	03/15/2024 10:56	219902
Chromium	NELAP	0.0050		0.0106	mg/L	1	03/15/2024 10:56	219902
Cobalt	NELAP	0.0050		< 0.0050	mg/L	1	03/15/2024 10:56	219902
Copper	NELAP	0.0050		< 0.0050	mg/L	1	03/15/2024 10:56	219902
Iron	NELAP	0.0400		< 0.0400	mg/L	1	03/15/2024 10:56	219902
Manganese	NELAP	0.0070	J	0.0028	mg/L	1	03/15/2024 10:56	219902
Nickel	NELAP	0.0050		< 0.0050	mg/L	1	03/15/2024 10:56	219902
Selenium	NELAP	0.0400	X	0.0624	mg/L	1	03/18/2024 12:45	219902
Silver	NELAP	0.0070		< 0.0070	mg/L	1	03/15/2024 10:56	219902
Vanadium	NELAP	0.010	J	0.0016	mg/L	1	03/15/2024 10:56	219902
Zinc	NELAP	0.0100		< 0.0100	mg/L	1	03/15/2024 10:56	219902



Laboratory Results

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24030008

Client Project: Meredosia GW Monitoring Q1 2024

Report Date: 22-Mar-24

Lab ID: 24030008-008

Client Sample ID: APW-8

Matrix: GROUNDWATER

Collection Date: 03/13/2024 12:50

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		0.0661	mg/L	1	03/18/2024 12:47	219911
Beryllium	NELAP	0.0005		< 0.0005	mg/L	1	03/14/2024 12:15	219911
Boron	NELAP	0.0200	S	6.73	mg/L	1	03/18/2024 12:47	219911
Cadmium	NELAP	0.0020		< 0.0020	mg/L	1	03/14/2024 12:15	219911
Chromium	NELAP	0.0050		0.0120	mg/L	1	03/18/2024 12:47	219911
Cobalt	NELAP	0.0050	J	0.0029	mg/L	1	03/14/2024 12:15	219911
Copper	NELAP	0.0050	J	0.0031	mg/L	1	03/14/2024 12:15	219911
Iron	NELAP	0.0400		0.285	mg/L	1	03/14/2024 12:15	219911
Manganese	NELAP	0.0070		0.0244	mg/L	1	03/14/2024 12:15	219911
Nickel	NELAP	0.0050		< 0.0050	mg/L	1	03/14/2024 12:15	219911
Selenium	NELAP	0.0400		0.0634	mg/L	1	03/18/2024 12:47	219911
Silver	NELAP	0.0070	J	0.0046	mg/L	1	03/14/2024 12:15	219911
Vanadium	NELAP	0.010	J	0.0009	mg/L	1	03/14/2024 12:15	219911
Zinc	NELAP	0.0100		< 0.0100	mg/L	1	03/14/2024 12:15	219911
<i>Matrix spike control limits are not applicable due to high sample/spike ratio.</i>								
SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)								
Antimony	NELAP	0.0010		< 0.0010	mg/L	5	03/16/2024 3:35	219902
Arsenic	NELAP	0.0010		0.0015	mg/L	5	03/14/2024 11:38	219902
Lead	NELAP	0.0010		< 0.0010	mg/L	5	03/14/2024 11:38	219902
Thallium	NELAP	0.0020		< 0.0020	mg/L	5	03/14/2024 11:38	219902
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		< 0.0010	mg/L	5	03/20/2024 8:36	219911
Arsenic	NELAP	0.0010		0.0022	mg/L	5	03/16/2024 0:41	219911
Lead	NELAP	0.0010		< 0.0010	mg/L	5	03/16/2024 0:41	219911
Thallium	NELAP	0.0020		< 0.0020	mg/L	5	03/18/2024 11:30	219911
SW-846 7470A (DISSOLVED)								
Mercury	NELAP	0.00020		< 0.00020	mg/L	1	03/18/2024 14:26	219964
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		< 0.00020	mg/L	1	03/18/2024 14:24	219964



Laboratory Results

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24030008

Client Project: Meredosia GW Monitoring Q1 2024

Report Date: 22-Mar-24

Lab ID: 24030008-009

Client Sample ID: APW-9

Matrix: GROUNDWATER

Collection Date: 03/14/2024 10:12

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		415.60	ft	1	03/14/2024 10:12	R344463
Depth to water	*	-5.00		17.90	ft	1	03/14/2024 10:12	R344463
Depth to water from measuring point	*	0		21.00	ft	1	03/14/2024 10:12	R344463
Elevation of groundwater surface	*	0		427.10	ft	1	03/14/2024 10:12	R344463
Measuring Point Elevation	*	0		448.10	ft	1	03/14/2024 10:12	R344463
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		21	NTU	1	03/14/2024 10:12	R344463
STANDARD METHODS 18TH ED. 2580 B FIELD								
Oxidation-Reduction Potential	*	-300		36	mV	1	03/14/2024 10:12	R344463
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		15.6	°C	1	03/14/2024 10:12	R344463
STANDARD METHODS 4500-O G FIELD								
Oxygen, Dissolved	*	0		4.94	mg/L	1	03/14/2024 10:12	R344463
SW-846 9040B								
pH, Field	*	1.00		6.97		1	03/14/2024 10:12	R344463
SW-846 9050A								
Spec. Conductance, Field	*	1.00		702	µmhos/cm @25C	1	03/14/2024 10:12	R344463
STANDARD METHODS 2540 C (DISSOLVED) 1997, 2011								
Total Dissolved Solids	NELAP	20		556	mg/L	1	03/15/2024 8:11	R344506
STANDARD METHODS 4500-NO3 F (DISSOLVED) 2000, 2011								
Nitrogen, Nitrate (as N)	NELAP	0.250		2.48	mg/L	1	03/15/2024 14:12	R344473
SW-846 9012A (TOTAL)								
Cyanide	NELAP	0.005		< 0.005	mg/L	1	03/21/2024 13:45	220174
SW-846 9036 (DISSOLVED)								
Sulfate	NELAP	100		227	mg/L	10	03/18/2024 10:17	R344515
SW-846 9214 (DISSOLVED)								
Fluoride	NELAP	0.10		0.44	mg/L	1	03/15/2024 9:25	R344388
SW-846 9251 (DISSOLVED)								
Chloride	NELAP	4	J	2	mg/L	1	03/18/2024 9:58	R344517
SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)								
Barium	NELAP	0.0025		0.0137	mg/L	1	03/19/2024 12:01	220058
Beryllium	NELAP	0.0005		< 0.0005	mg/L	1	03/19/2024 12:01	220058
Boron	NELAP	0.0200		0.708	mg/L	1	03/19/2024 12:01	220058
Cadmium	NELAP	0.0020		< 0.0020	mg/L	1	03/19/2024 12:01	220058
Chromium	NELAP	0.0050		< 0.0050	mg/L	1	03/19/2024 12:01	220058
Cobalt	NELAP	0.0050		< 0.0050	mg/L	1	03/19/2024 12:01	220058
Copper	NELAP	0.0050		< 0.0050	mg/L	1	03/19/2024 12:01	220058
Iron	NELAP	0.0400		< 0.0400	mg/L	1	03/19/2024 12:01	220058
Manganese	NELAP	0.0070		< 0.0070	mg/L	1	03/19/2024 12:01	220058
Nickel	NELAP	0.0050		< 0.0050	mg/L	1	03/19/2024 12:01	220058
Selenium	NELAP	0.0400		< 0.0400	mg/L	1	03/19/2024 12:01	220058
Silver	NELAP	0.0070		< 0.0070	mg/L	1	03/19/2024 12:01	220058
Vanadium	NELAP	0.010	J	0.0026	mg/L	1	03/19/2024 12:01	220058
Zinc	NELAP	0.0100		< 0.0100	mg/L	1	03/19/2024 12:01	220058



Laboratory Results

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

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24030008

Client Project: Meredosia GW Monitoring Q1 2024

Report Date: 22-Mar-24

Lab ID: 24030008-009

Client Sample ID: APW-9

Matrix: GROUNDWATER

Collection Date: 03/14/2024 10:12

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		0.0145	mg/L	1	03/19/2024 10:05	219921
Beryllium	NELAP	0.0005		< 0.0005	mg/L	1	03/19/2024 10:05	219921
Boron	NELAP	0.0200		0.734	mg/L	1	03/19/2024 10:05	219921
Cadmium	NELAP	0.0020		< 0.0020	mg/L	1	03/19/2024 10:05	219921
Chromium	NELAP	0.0050		< 0.0050	mg/L	1	03/19/2024 10:05	219921
Cobalt	NELAP	0.0050		0.0052	mg/L	1	03/19/2024 10:05	219921
Copper	NELAP	0.0050		< 0.0050	mg/L	1	03/19/2024 10:05	219921
Iron	NELAP	0.0400		0.437	mg/L	1	03/19/2024 10:05	219921
Manganese	NELAP	0.0070		0.0324	mg/L	1	03/19/2024 10:05	219921
Nickel	NELAP	0.0050		< 0.0050	mg/L	1	03/19/2024 10:05	219921
Selenium	NELAP	0.0400		< 0.0400	mg/L	1	03/19/2024 10:05	219921
Silver	NELAP	0.0070		< 0.0070	mg/L	1	03/19/2024 10:05	219921
Vanadium	NELAP	0.010	J	0.0022	mg/L	1	03/19/2024 10:05	219921
Zinc	NELAP	0.0100		< 0.0100	mg/L	1	03/19/2024 10:05	219921
SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)								
Antimony	NELAP	0.0010	J	0.0006	mg/L	5	03/20/2024 12:16	220058
Arsenic	NELAP	0.0010		0.0019	mg/L	5	03/19/2024 13:37	220058
Lead	NELAP	0.0010		< 0.0010	mg/L	5	03/19/2024 13:37	220058
Thallium	NELAP	0.0020		< 0.0020	mg/L	5	03/19/2024 13:37	220058
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010	J	0.0005	mg/L	5	03/21/2024 17:24	219921
Arsenic	NELAP	0.0010		0.0017	mg/L	5	03/19/2024 15:03	219921
Lead	NELAP	0.0010		< 0.0010	mg/L	5	03/19/2024 15:03	219921
Thallium	NELAP	0.0020		< 0.0020	mg/L	5	03/21/2024 17:24	219921
SW-846 7470A (DISSOLVED)								
Mercury	NELAP	0.00020		< 0.00020	mg/L	1	03/18/2024 14:31	219964
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		< 0.00020	mg/L	1	03/18/2024 14:29	219964



Laboratory Results

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24030008

Client Project: Meredosia GW Monitoring Q1 2024

Report Date: 22-Mar-24

Lab ID: 24030008-010

Client Sample ID: APW-1 DUP

Matrix: GROUNDWATER

Collection Date: 03/14/2024 11:36

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		421.22	ft	1	03/14/2024 11:36	R344463
Depth to water	*	-5.00		17.66	ft	1	03/14/2024 11:36	R344463
Depth to water from measuring point	*	0		20.86	ft	1	03/14/2024 11:36	R344463
Elevation of groundwater surface	*	0		428.40	ft	1	03/14/2024 11:36	R344463
Measuring Point Elevation	*	0		449.26	ft	1	03/14/2024 11:36	R344463
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		9.0	NTU	1	03/14/2024 11:36	R344463
STANDARD METHODS 18TH ED. 2580 B FIELD								
Oxidation-Reduction Potential	*	-300		69	mV	1	03/14/2024 11:36	R344463
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		15.5	°C	1	03/14/2024 11:36	R344463
STANDARD METHODS 4500-O G FIELD								
Oxygen, Dissolved	*	0		3.67	mg/L	1	03/14/2024 11:36	R344463
SW-846 9040B								
pH, Field	*	1.00		7.26		1	03/14/2024 11:36	R344463
SW-846 9050A								
Spec. Conductance, Field	*	1.00		665	µmhos/cm @25C	1	03/14/2024 11:36	R344463
STANDARD METHODS 2540 C (DISSOLVED) 1997, 2011								
Total Dissolved Solids	NELAP	20		384	mg/L	1	03/15/2024 8:24	R344506
STANDARD METHODS 4500-NO3 F (DISSOLVED) 2000, 2011								
Nitrogen, Nitrate (as N)	NELAP	0.250		2.95	mg/L	1	03/15/2024 14:14	R344473
SW-846 9012A (TOTAL)								
Cyanide	NELAP	0.005		< 0.005	mg/L	1	03/21/2024 14:11	220174
SW-846 9036 (DISSOLVED)								
Sulfate	NELAP	10		13	mg/L	1	03/18/2024 10:20	R344515
SW-846 9214 (DISSOLVED)								
Fluoride	NELAP	0.10		0.32	mg/L	1	03/15/2024 9:27	R344388
SW-846 9251 (DISSOLVED)								
Chloride	NELAP	8		83	mg/L	2	03/18/2024 10:25	R344517
SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)								
Barium	NELAP	0.0025		0.0143	mg/L	1	03/19/2024 12:36	220058
Beryllium	NELAP	0.0005	J	0.0003	mg/L	1	03/19/2024 12:36	220058
Boron	NELAP	0.0200		0.0322	mg/L	1	03/19/2024 12:36	220058
Cadmium	NELAP	0.0020		< 0.0020	mg/L	1	03/19/2024 12:36	220058
Chromium	NELAP	0.0050		< 0.0050	mg/L	1	03/19/2024 12:36	220058
Cobalt	NELAP	0.0050		< 0.0050	mg/L	1	03/19/2024 12:36	220058
Copper	NELAP	0.0050		< 0.0050	mg/L	1	03/19/2024 12:36	220058
Iron	NELAP	0.0400		< 0.0400	mg/L	1	03/19/2024 12:36	220058
Manganese	NELAP	0.0070		0.0290	mg/L	1	03/19/2024 12:36	220058
Nickel	NELAP	0.0050		< 0.0050	mg/L	1	03/19/2024 12:36	220058
Selenium	NELAP	0.0400		< 0.0400	mg/L	1	03/19/2024 12:36	220058
Silver	NELAP	0.0070		< 0.0070	mg/L	1	03/19/2024 12:36	220058
Vanadium	NELAP	0.010	J	0.0012	mg/L	1	03/19/2024 12:36	220058
Zinc	NELAP	0.0100		< 0.0100	mg/L	1	03/19/2024 12:36	220058



Laboratory Results

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24030008

Client Project: Meredosia GW Monitoring Q1 2024

Report Date: 22-Mar-24

Lab ID: 24030008-010

Client Sample ID: APW-1 DUP

Matrix: GROUNDWATER

Collection Date: 03/14/2024 11:36

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		0.0293	mg/L	1	03/19/2024 10:06	219921
Beryllium	NELAP	0.0005	J	0.0002	mg/L	1	03/19/2024 10:06	219921
Boron	NELAP	0.0200		0.0312	mg/L	1	03/19/2024 10:06	219921
Cadmium	NELAP	0.0020		< 0.0020	mg/L	1	03/19/2024 10:06	219921
Chromium	NELAP	0.0050	J	0.0049	mg/L	1	03/19/2024 10:06	219921
Cobalt	NELAP	0.0050		0.0186	mg/L	1	03/19/2024 10:06	219921
Copper	NELAP	0.0050		0.0121	mg/L	1	03/19/2024 10:06	219921
Iron	NELAP	0.0400		7.96	mg/L	1	03/19/2024 10:06	219921
Manganese	NELAP	0.0070		0.782	mg/L	1	03/19/2024 10:06	219921
Nickel	NELAP	0.0050		0.0248	mg/L	1	03/19/2024 10:06	219921
Selenium	NELAP	0.0400		< 0.0400	mg/L	1	03/19/2024 10:06	219921
Silver	NELAP	0.0070		< 0.0070	mg/L	1	03/19/2024 10:06	219921
Vanadium	NELAP	0.010	J	0.0085	mg/L	1	03/19/2024 10:06	219921
Zinc	NELAP	0.0100		0.0295	mg/L	1	03/19/2024 10:06	219921
SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)								
Antimony	NELAP	0.0010		< 0.0010	mg/L	5	03/20/2024 12:30	220058
Arsenic	NELAP	0.0010	J	0.0005	mg/L	5	03/19/2024 13:48	220058
Lead	NELAP	0.0010		< 0.0010	mg/L	5	03/19/2024 13:48	220058
Thallium	NELAP	0.0020		< 0.0020	mg/L	5	03/19/2024 13:48	220058
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010	J	0.0007	mg/L	5	03/22/2024 8:59	219921
Arsenic	NELAP	0.0010		0.0050	mg/L	5	03/19/2024 15:09	219921
Lead	NELAP	0.0010		0.0105	mg/L	5	03/19/2024 15:09	219921
Thallium	NELAP	0.0020		< 0.0020	mg/L	5	03/22/2024 8:59	219921
SW-846 7470A (DISSOLVED)								
Mercury	NELAP	0.00020		< 0.00020	mg/L	1	03/18/2024 14:54	219971
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		< 0.00020	mg/L	1	03/18/2024 14:38	219964



Laboratory Results

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24030008

Client Project: Meredosia GW Monitoring Q1 2024

Report Date: 22-Mar-24

Lab ID: 24030008-011

Client Sample ID: Field Blank

Matrix: GROUNDWATER

Collection Date: 03/14/2024 12:05

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
STANDARD METHODS 2540 C (DISSOLVED) 1997, 2011								
Total Dissolved Solids	NELAP	20		< 20	mg/L	1	03/15/2024 8:24	R344506
STANDARD METHODS 4500-NO3 F (DISSOLVED) 2000, 2011								
Nitrogen, Nitrate (as N)	NELAP	0.050		< 0.050	mg/L	1	03/15/2024 14:16	R344473
SW-846 9012A (TOTAL)								
Cyanide	NELAP	0.005		< 0.005	mg/L	1	03/21/2024 14:15	220174
SW-846 9036 (DISSOLVED)								
Sulfate	NELAP	10		< 10	mg/L	1	03/18/2024 10:28	R344515
SW-846 9214 (DISSOLVED)								
Fluoride	NELAP	0.10		< 0.10	mg/L	1	03/15/2024 9:29	R344388
SW-846 9251 (DISSOLVED)								
Chloride	NELAP	4	J	1	mg/L	1	03/18/2024 10:27	R344517
SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)								
Barium	NELAP	0.0025		< 0.0025	mg/L	1	03/19/2024 12:40	220058
Beryllium	NELAP	0.0005		< 0.0005	mg/L	1	03/19/2024 12:40	220058
Boron	NELAP	0.0200		< 0.0200	mg/L	1	03/19/2024 12:40	220058
Cadmium	NELAP	0.0020		< 0.0020	mg/L	1	03/19/2024 12:40	220058
Chromium	NELAP	0.0050		< 0.0050	mg/L	1	03/19/2024 12:40	220058
Cobalt	NELAP	0.0050		< 0.0050	mg/L	1	03/19/2024 12:40	220058
Copper	NELAP	0.0050		< 0.0050	mg/L	1	03/19/2024 12:40	220058
Iron	NELAP	0.0400		< 0.0400	mg/L	1	03/19/2024 12:40	220058
Manganese	NELAP	0.0070		< 0.0070	mg/L	1	03/19/2024 12:40	220058
Nickel	NELAP	0.0050		< 0.0050	mg/L	1	03/19/2024 12:40	220058
Selenium	NELAP	0.0400		< 0.0400	mg/L	1	03/19/2024 12:40	220058
Silver	NELAP	0.0070		< 0.0070	mg/L	1	03/19/2024 12:40	220058
Vanadium	NELAP	0.0100		< 0.0100	mg/L	1	03/19/2024 12:40	220058
Zinc	NELAP	0.0100		< 0.0100	mg/L	1	03/19/2024 12:40	220058
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		< 0.0025	mg/L	1	03/19/2024 10:22	219921
Beryllium	NELAP	0.0005	J	0.0002	mg/L	1	03/19/2024 10:22	219921
Boron	NELAP	0.0200		< 0.0200	mg/L	1	03/19/2024 10:22	219921
Cadmium	NELAP	0.0020		< 0.0020	mg/L	1	03/19/2024 10:22	219921
Chromium	NELAP	0.0050		< 0.0050	mg/L	1	03/19/2024 10:22	219921
Cobalt	NELAP	0.0050		< 0.0050	mg/L	1	03/19/2024 10:22	219921
Copper	NELAP	0.0050		< 0.0050	mg/L	1	03/19/2024 10:22	219921
Iron	NELAP	0.0400		< 0.0400	mg/L	1	03/19/2024 10:22	219921
Manganese	NELAP	0.0070		< 0.0070	mg/L	1	03/19/2024 10:22	219921
Nickel	NELAP	0.0050		< 0.0050	mg/L	1	03/19/2024 10:22	219921
Selenium	NELAP	0.0400		< 0.0400	mg/L	1	03/19/2024 10:22	219921
Silver	NELAP	0.0070		< 0.0070	mg/L	1	03/19/2024 10:22	219921
Vanadium	NELAP	0.0100		< 0.0100	mg/L	1	03/19/2024 10:22	219921
Zinc	NELAP	0.0100		< 0.0100	mg/L	1	03/19/2024 10:22	219921
SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)								
Antimony	NELAP	0.0010		< 0.0010	mg/L	5	03/20/2024 12:20	220058
Arsenic	NELAP	0.0010		< 0.0010	mg/L	5	03/19/2024 13:42	220058
Lead	NELAP	0.0010		< 0.0010	mg/L	5	03/19/2024 13:42	220058
Thallium	NELAP	0.0020		< 0.0020	mg/L	5	03/19/2024 13:42	220058



Laboratory Results

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

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24030008

Client Project: Meredosia GW Monitoring Q1 2024

Report Date: 22-Mar-24

Lab ID: 24030008-011

Client Sample ID: Field Blank

Matrix: GROUNDWATER

Collection Date: 03/14/2024 12:05

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		0.0013	mg/L	5	03/22/2024 10:01	219921
Arsenic	NELAP	0.0010		< 0.0010	mg/L	5	03/19/2024 15:14	219921
Lead	NELAP	0.0010		< 0.0010	mg/L	5	03/19/2024 15:14	219921
Thallium	NELAP	0.0020		< 0.0020	mg/L	5	03/22/2024 10:01	219921
SW-846 7470A (DISSOLVED)								
Mercury	NELAP	0.00020		< 0.00020	mg/L	1	03/18/2024 15:04	219971
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		< 0.00020	mg/L	1	03/18/2024 14:46	219964



Laboratory Results

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24030008

Client Project: Meredosia GW Monitoring Q1 2024

Report Date: 22-Mar-24

Lab ID: 24030008-012

Client Sample ID: APW-10

Matrix: GROUNDWATER

Collection Date: 03/13/2024 13:23

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		414.82	ft	1	03/13/2024 13:23	R344463
Depth to water	*	-5.00		26.58	ft	1	03/13/2024 13:23	R344463
Depth to water from measuring point	*	0		29.93	ft	1	03/13/2024 13:23	R344463
Elevation of groundwater surface	*	0		427.52	ft	1	03/13/2024 13:23	R344463
Measuring Point Elevation	*	0		457.45	ft	1	03/13/2024 13:23	R344463
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		16	NTU	1	03/13/2024 13:23	R344463
STANDARD METHODS 18TH ED. 2580 B FIELD								
Oxidation-Reduction Potential	*	-300		42	mV	1	03/13/2024 13:23	R344463
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		16.0	°C	1	03/13/2024 13:23	R344463
STANDARD METHODS 4500-O G FIELD								
Oxygen, Dissolved	*	0		4.69	mg/L	1	03/13/2024 13:23	R344463
SW-846 9040B								
pH, Field	*	1.00		7.70		1	03/13/2024 13:23	R344463
SW-846 9050A								
Spec. Conductance, Field	*	1.00		434	µmhos/cm @25C	1	03/13/2024 13:23	R344463
STANDARD METHODS 2540 C (DISSOLVED) 1997, 2011								
Total Dissolved Solids	NELAP	20		300	mg/L	1	03/14/2024 8:05	R344417
STANDARD METHODS 4500-NO3 F (DISSOLVED) 2000, 2011								
Nitrogen, Nitrate (as N)	NELAP	0.250		1.92	mg/L	1	03/14/2024 15:54	R344392
SW-846 9012A (TOTAL)								
Cyanide	NELAP	0.005		< 0.005	mg/L	1	03/21/2024 14:20	220174
SW-846 9036 (DISSOLVED)								
Sulfate	NELAP	50		73	mg/L	5	03/14/2024 10:08	R344355
SW-846 9214 (DISSOLVED)								
Fluoride	NELAP	0.10	J	0.06	mg/L	1	03/14/2024 15:45	R344388
SW-846 9251 (DISSOLVED)								
Chloride	NELAP	4	J	3	mg/L	1	03/14/2024 10:03	R344357
SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)								
Barium	NELAP	0.0025		0.0174	mg/L	1	03/19/2024 11:11	220058
Beryllium	NELAP	0.0005		< 0.0005	mg/L	1	03/19/2024 11:11	220058
Boron	NELAP	0.0200		1.42	mg/L	1	03/19/2024 11:11	220058
Cadmium	NELAP	0.0020		< 0.0020	mg/L	1	03/19/2024 11:11	220058
Chromium	NELAP	0.0050		< 0.0050	mg/L	1	03/19/2024 11:11	220058
Cobalt	NELAP	0.0050		< 0.0050	mg/L	1	03/19/2024 11:11	220058
Copper	NELAP	0.0050		< 0.0050	mg/L	1	03/19/2024 11:11	220058
Iron	NELAP	0.0400		< 0.0400	mg/L	1	03/19/2024 11:11	220058
Manganese	NELAP	0.0070		< 0.0070	mg/L	1	03/19/2024 11:11	220058
Nickel	NELAP	0.0050		< 0.0050	mg/L	1	03/19/2024 11:11	220058
Selenium	NELAP	0.0400		< 0.0400	mg/L	1	03/19/2024 11:11	220058
Silver	NELAP	0.0070		< 0.0070	mg/L	1	03/19/2024 11:11	220058
Vanadium	NELAP	0.010	J	0.0017	mg/L	1	03/19/2024 11:11	220058
Zinc	NELAP	0.0100		< 0.0100	mg/L	1	03/19/2024 11:11	220058



Laboratory Results

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24030008

Client Project: Meredosia GW Monitoring Q1 2024

Report Date: 22-Mar-24

Lab ID: 24030008-012

Client Sample ID: APW-10

Matrix: GROUNDWATER

Collection Date: 03/13/2024 13:23

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		0.0195	mg/L	1	03/14/2024 11:17	219911
Beryllium	NELAP	0.0005		< 0.0005	mg/L	1	03/14/2024 11:17	219911
Boron	NELAP	0.0200		1.41	mg/L	1	03/14/2024 11:17	219911
Cadmium	NELAP	0.0020		< 0.0020	mg/L	1	03/14/2024 11:17	219911
Chromium	NELAP	0.0050		< 0.0050	mg/L	1	03/14/2024 11:17	219911
Cobalt	NELAP	0.0050	J	0.0028	mg/L	1	03/14/2024 11:17	219911
Copper	NELAP	0.0050		< 0.0050	mg/L	1	03/14/2024 11:17	219911
Iron	NELAP	0.0400		0.806	mg/L	1	03/14/2024 11:17	219911
Manganese	NELAP	0.0070		0.0613	mg/L	1	03/14/2024 11:17	219911
Nickel	NELAP	0.0050		< 0.0050	mg/L	1	03/14/2024 11:17	219911
Selenium	NELAP	0.0400		< 0.0400	mg/L	1	03/14/2024 11:17	219911
Silver	NELAP	0.0070	J	0.0033	mg/L	1	03/14/2024 11:17	219911
Vanadium	NELAP	0.010	J	0.0025	mg/L	1	03/14/2024 11:17	219911
Zinc	NELAP	0.0100		< 0.0100	mg/L	1	03/14/2024 11:17	219911
SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)								
Antimony	NELAP	0.0010		< 0.0010	mg/L	5	03/16/2024 3:39	219902
Arsenic	NELAP	0.0010	J	0.0005	mg/L	5	03/14/2024 12:58	219902
Lead	NELAP	0.0010		< 0.0010	mg/L	5	03/14/2024 12:58	219902
Thallium	NELAP	0.0020		< 0.0020	mg/L	5	03/14/2024 12:58	219902
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		< 0.0010	mg/L	5	03/20/2024 9:34	219911
Arsenic	NELAP	0.0010		0.0023	mg/L	5	03/16/2024 0:35	219911
Lead	NELAP	0.0010		0.0011	mg/L	5	03/16/2024 0:35	219911
Thallium	NELAP	0.0020		< 0.0020	mg/L	5	03/18/2024 12:31	219911
SW-846 7470A (DISSOLVED)								
Mercury	NELAP	0.00020	J	0.00006	mg/L	1	03/18/2024 15:15	219971
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		< 0.00020	mg/L	1	03/18/2024 15:12	219971



Laboratory Results

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24030008

Client Project: Meredosia GW Monitoring Q1 2024

Report Date: 22-Mar-24

Lab ID: 24030008-013

Client Sample ID: APW-11

Matrix: GROUNDWATER

Collection Date: 03/14/2024 10:39

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		417.30	ft	1	03/14/2024 10:39	R344463
Depth to water	*	-5.00		33.86	ft	1	03/14/2024 10:39	R344463
Depth to water from measuring point	*	0		37.37	ft	1	03/14/2024 10:39	R344463
Elevation of groundwater surface	*	0		428.03	ft	1	03/14/2024 10:39	R344463
Measuring Point Elevation	*	0		465.40	ft	1	03/14/2024 10:39	R344463
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		6.0	NTU	1	03/14/2024 10:39	R344463
STANDARD METHODS 18TH ED. 2580 B FIELD								
Oxidation-Reduction Potential	*	-300		56	mV	1	03/14/2024 10:39	R344463
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		15.0	°C	1	03/14/2024 10:39	R344463
STANDARD METHODS 4500-O G FIELD								
Oxygen, Dissolved	*	0		3.75	mg/L	1	03/14/2024 10:39	R344463
SW-846 9040B								
pH, Field	*	1.00		7.33		1	03/14/2024 10:39	R344463
SW-846 9050A								
Spec. Conductance, Field	*	1.00		469	µmhos/cm @25C	1	03/14/2024 10:39	R344463
STANDARD METHODS 2540 C (DISSOLVED) 1997, 2011								
Total Dissolved Solids	NELAP	20		310	mg/L	1	03/15/2024 8:24	R344506
STANDARD METHODS 4500-NO3 F (DISSOLVED) 2000, 2011								
Nitrogen, Nitrate (as N)	NELAP	0.500		2.88	mg/L	1	03/15/2024 14:19	R344473
SW-846 9012A (TOTAL)								
Cyanide	NELAP	0.005		< 0.005	mg/L	1	03/21/2024 14:24	220174
SW-846 9036 (DISSOLVED)								
Sulfate	NELAP	20		69	mg/L	2	03/18/2024 10:35	R344515
SW-846 9214 (DISSOLVED)								
Fluoride	NELAP	0.10	J	0.08	mg/L	1	03/15/2024 9:32	R344388
SW-846 9251 (DISSOLVED)								
Chloride	NELAP	4	J	3	mg/L	1	03/18/2024 10:30	R344517
SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)								
Barium	NELAP	0.0025		0.0136	mg/L	1	03/19/2024 12:42	220058
Beryllium	NELAP	0.0005		< 0.0005	mg/L	1	03/19/2024 12:42	220058
Boron	NELAP	0.0200		1.45	mg/L	1	03/19/2024 12:42	220058
Cadmium	NELAP	0.0020		< 0.0020	mg/L	1	03/19/2024 12:42	220058
Chromium	NELAP	0.0050		< 0.0050	mg/L	1	03/19/2024 12:42	220058
Cobalt	NELAP	0.0050		< 0.0050	mg/L	1	03/19/2024 12:42	220058
Copper	NELAP	0.0050		< 0.0050	mg/L	1	03/19/2024 12:42	220058
Iron	NELAP	0.0400		< 0.0400	mg/L	1	03/19/2024 12:42	220058
Manganese	NELAP	0.0070	J	0.0040	mg/L	1	03/19/2024 12:42	220058
Nickel	NELAP	0.0050		< 0.0050	mg/L	1	03/19/2024 12:42	220058
Selenium	NELAP	0.0400		< 0.0400	mg/L	1	03/19/2024 12:42	220058
Silver	NELAP	0.0070		< 0.0070	mg/L	1	03/19/2024 12:42	220058
Vanadium	NELAP	0.010	J	0.0011	mg/L	1	03/19/2024 12:42	220058
Zinc	NELAP	0.0100		< 0.0100	mg/L	1	03/19/2024 12:42	220058



Laboratory Results

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24030008

Client Project: Meredosia GW Monitoring Q1 2024

Report Date: 22-Mar-24

Lab ID: 24030008-013

Client Sample ID: APW-11

Matrix: GROUNDWATER

Collection Date: 03/14/2024 10:39

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		0.0147	mg/L	1	03/19/2024 10:24	219921
Beryllium	NELAP	0.0005		< 0.0005	mg/L	1	03/19/2024 10:24	219921
Boron	NELAP	0.0200		1.50	mg/L	1	03/19/2024 10:24	219921
Cadmium	NELAP	0.0020		< 0.0020	mg/L	1	03/19/2024 10:24	219921
Chromium	NELAP	0.0050		< 0.0050	mg/L	1	03/19/2024 10:24	219921
Cobalt	NELAP	0.0050	J	0.0033	mg/L	1	03/19/2024 10:24	219921
Copper	NELAP	0.0050		< 0.0050	mg/L	1	03/19/2024 10:24	219921
Iron	NELAP	0.0400		0.271	mg/L	1	03/19/2024 10:24	219921
Manganese	NELAP	0.0070		0.0206	mg/L	1	03/19/2024 10:24	219921
Nickel	NELAP	0.0050		< 0.0050	mg/L	1	03/19/2024 10:24	219921
Selenium	NELAP	0.0400		< 0.0400	mg/L	1	03/19/2024 10:24	219921
Silver	NELAP	0.0070		< 0.0070	mg/L	1	03/19/2024 10:24	219921
Vanadium	NELAP	0.010	J	0.0014	mg/L	1	03/19/2024 10:24	219921
Zinc	NELAP	0.0100		< 0.0100	mg/L	1	03/19/2024 10:24	219921
SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)								
Antimony	NELAP	0.0010		< 0.0010	mg/L	5	03/20/2024 12:26	220058
Arsenic	NELAP	0.0010	J	0.0008	mg/L	5	03/19/2024 14:46	220058
Lead	NELAP	0.0010		< 0.0010	mg/L	5	03/19/2024 14:46	220058
Thallium	NELAP	0.0020		< 0.0020	mg/L	5	03/19/2024 14:46	220058
<i>CCV recovered outside the upper control limits for TL. Sample results are below the reporting limit. Data is reportable per the TNI standard.</i>								
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		< 0.0010	mg/L	5	03/22/2024 9:03	219921
Arsenic	NELAP	0.0010	J	0.0009	mg/L	5	03/19/2024 15:55	219921
Lead	NELAP	0.0010		< 0.0010	mg/L	5	03/19/2024 15:55	219921
Thallium	NELAP	0.0020		< 0.0020	mg/L	5	03/22/2024 9:03	219921
<i>CCV recovered outside the upper control limits for Pb. Sample results are below the reporting limit. Data is reportable per the TNI standard.</i>								
SW-846 7470A (DISSOLVED)								
Mercury	NELAP	0.00020		< 0.00020	mg/L	1	03/18/2024 15:20	219971
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		< 0.00020	mg/L	1	03/18/2024 15:17	219971



Laboratory Results

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24030008

Client Project: Meredosia GW Monitoring Q1 2024

Report Date: 22-Mar-24

Lab ID: 24030008-014

Client Sample ID: APW-12

Matrix: GROUNDWATER

Collection Date: 03/13/2024 10:28

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		411.80	ft	1	03/13/2024 10:28	R344463
Depth to water	*	-5.00		5.37	ft	1	03/13/2024 10:28	R344463
Depth to water from measuring point	*	0		8.95	ft	1	03/13/2024 10:28	R344463
Elevation of groundwater surface	*	0		426.57	ft	1	03/13/2024 10:28	R344463
Measuring Point Elevation	*	0		435.52	ft	1	03/13/2024 10:28	R344463
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		9.8	NTU	1	03/13/2024 10:28	R344463
STANDARD METHODS 18TH ED. 2580 B FIELD								
Oxidation-Reduction Potential	*	-300		44	mV	1	03/13/2024 10:28	R344463
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		7.6	°C	1	03/13/2024 10:28	R344463
STANDARD METHODS 4500-O G FIELD								
Oxygen, Dissolved	*	0		1.32	mg/L	1	03/13/2024 10:28	R344463
SW-846 9040B								
pH, Field	*	1.00		6.70		1	03/13/2024 10:28	R344463
SW-846 9050A								
Spec. Conductance, Field	*	1.00		620	µmhos/cm @25C	1	03/13/2024 10:28	R344463
STANDARD METHODS 2540 C (DISSOLVED) 1997, 2011								
Total Dissolved Solids	NELAP	20		408	mg/L	1	03/15/2024 12:34	R344506
STANDARD METHODS 4500-NO3 F (DISSOLVED) 2000, 2011								
Nitrogen, Nitrate (as N)	NELAP	0.500		4.44	mg/L	1	03/14/2024 16:02	R344392
SW-846 9012A (TOTAL)								
Cyanide	NELAP	0.005		< 0.005	mg/L	1	03/21/2024 12:23	220174
SW-846 9036 (DISSOLVED)								
Sulfate	NELAP	10		40	mg/L	1	03/14/2024 10:11	R344355
SW-846 9214 (DISSOLVED)								
Fluoride	NELAP	0.10		0.28	mg/L	1	03/14/2024 15:47	R344388
SW-846 9251 (DISSOLVED)								
Chloride	NELAP	8		73	mg/L	2	03/14/2024 10:16	R344357
SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)								
Barium	NELAP	0.0025		0.103	mg/L	1	03/15/2024 10:59	219902
Beryllium	NELAP	0.0005		< 0.0005	mg/L	1	03/15/2024 10:59	219902
Boron	NELAP	0.0200		0.0567	mg/L	1	03/15/2024 10:59	219902
Cadmium	NELAP	0.0020		< 0.0020	mg/L	1	03/15/2024 10:59	219902
Chromium	NELAP	0.0050		< 0.0050	mg/L	1	03/15/2024 10:59	219902
Cobalt	NELAP	0.0050		< 0.0050	mg/L	1	03/15/2024 10:59	219902
Copper	NELAP	0.0050		< 0.0050	mg/L	1	03/15/2024 10:59	219902
Iron	NELAP	0.0400		< 0.0400	mg/L	1	03/15/2024 10:59	219902
Manganese	NELAP	0.0070	X	0.333	mg/L	1	03/15/2024 10:59	219902
Nickel	NELAP	0.0050		< 0.0050	mg/L	1	03/15/2024 10:59	219902
Selenium	NELAP	0.0400		< 0.0400	mg/L	1	03/15/2024 10:59	219902
Silver	NELAP	0.0070		< 0.0070	mg/L	1	03/15/2024 10:59	219902
Vanadium	NELAP	0.0100		< 0.0100	mg/L	1	03/15/2024 10:59	219902
Zinc	NELAP	0.0100		< 0.0100	mg/L	1	03/15/2024 10:59	219902



Laboratory Results

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24030008

Client Project: Meredosia GW Monitoring Q1 2024

Report Date: 22-Mar-24

Lab ID: 24030008-014

Client Sample ID: APW-12

Matrix: GROUNDWATER

Collection Date: 03/13/2024 10:28

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		0.110	mg/L	1	03/14/2024 12:17	219911
Beryllium	NELAP	0.0005		< 0.0005	mg/L	1	03/14/2024 12:17	219911
Boron	NELAP	0.0200		0.0599	mg/L	1	03/14/2024 12:17	219911
Cadmium	NELAP	0.0020	J	0.0006	mg/L	1	03/14/2024 12:17	219911
Chromium	NELAP	0.0050		< 0.0050	mg/L	1	03/14/2024 12:17	219911
Cobalt	NELAP	0.0050	J	0.0032	mg/L	1	03/14/2024 12:17	219911
Copper	NELAP	0.0050	J	0.0038	mg/L	1	03/14/2024 12:17	219911
Iron	NELAP	0.0400		0.176	mg/L	1	03/14/2024 12:17	219911
Manganese	NELAP	0.0070		1.70	mg/L	1	03/14/2024 12:17	219911
Nickel	NELAP	0.0050	J	0.0048	mg/L	1	03/14/2024 12:17	219911
Selenium	NELAP	0.0400		< 0.0400	mg/L	1	03/14/2024 12:17	219911
Silver	NELAP	0.0070	J	0.0034	mg/L	1	03/14/2024 12:17	219911
Vanadium	NELAP	0.0100		< 0.0100	mg/L	1	03/14/2024 12:17	219911
Zinc	NELAP	0.0100		< 0.0100	mg/L	1	03/14/2024 12:17	219911
SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)								
Antimony	NELAP	0.0010		< 0.0010	mg/L	5	03/16/2024 3:43	219902
Arsenic	NELAP	0.0010	J	0.0005	mg/L	5	03/14/2024 13:04	219902
Lead	NELAP	0.0010		< 0.0010	mg/L	5	03/14/2024 13:04	219902
Thallium	NELAP	0.0020		< 0.0020	mg/L	5	03/14/2024 13:04	219902
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		< 0.0010	mg/L	5	03/20/2024 9:38	219911
Arsenic	NELAP	0.0010	J	0.0007	mg/L	5	03/16/2024 1:42	219911
Lead	NELAP	0.0010		< 0.0010	mg/L	5	03/16/2024 1:42	219911
Thallium	NELAP	0.0020		< 0.0020	mg/L	5	03/18/2024 12:37	219911
SW-846 7470A (DISSOLVED)								
Mercury	NELAP	0.00020		< 0.00020	mg/L	1	03/18/2024 15:25	219971
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		< 0.00020	mg/L	1	03/18/2024 15:22	219971



Quality Control Results

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Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24030008

Client Project: Meredosia GW Monitoring Q1 2024

Report Date: 22-Mar-24

SW-846 9040B

Batch R344463		SampType: LCS		Units							Date Analyzed
SampID: LCS-R344463-1											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
pH, Field	*	1.00		7.01	7.000	0	100.1	98.57	101.4	03/12/2024	

Batch R344463		SampType: LCS		Units							Date Analyzed
SampID: LCS-R344463-2											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
pH, Field	*	1.00		7.02	7.000	0	100.3	98.57	101.4	03/13/2024	

Batch R344463		SampType: LCS		Units							Date Analyzed
SampID: LCS-R344463-3											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
pH, Field	*	1.00		7.02	7.000	0	100.3	98.57	101.4	03/14/2024	

SW-846 9050A

Batch R344463		SampType: LCS		Units µmhos/cm @25C							Date Analyzed
SampID: LCS-R344463-1											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Spec. Conductance, Field	*	1.00		1420	1412	0	100.2	90	110	03/12/2024	

Batch R344463		SampType: LCS		Units µmhos/cm @25C							Date Analyzed
SampID: LCS-R344463-2											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Spec. Conductance, Field	*	1.00		1420	1412	0	100.4	90	110	03/13/2024	

Batch R344463		SampType: LCS		Units µmhos/cm @25C							Date Analyzed
SampID: LCS-R344463-3											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Spec. Conductance, Field	*	1.00		1420	1412	0	100.5	90	110	03/14/2024	

STANDARD METHODS 2540 C (DISSOLVED) 1997, 2011

Batch R344358		SampType: MBLK		Units mg/L							Date Analyzed
SampID: MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Total Dissolved Solids		20		< 20	16.00	0	0	-100	100	03/13/2024	



Quality Control Results

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Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24030008

Client Project: Meredosia GW Monitoring Q1 2024

Report Date: 22-Mar-24

STANDARD METHODS 2540 C (DISSOLVED) 1997, 2011

Batch R344358		SampType: LCS		Units mg/L							Date Analyzed
SampID: LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Total Dissolved Solids		20		950	1000	0	95.0	90	110	03/13/2024	

Batch R344358		SampType: DUP		Units mg/L							RPD Limit 10	Date Analyzed
SampID: 24030866-001ADUP												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Total Dissolved Solids		20		440				436.0	0.91	03/13/2024		

Batch R344417		SampType: MBLK		Units mg/L							Date Analyzed
SampID: MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Total Dissolved Solids		20		< 20	16.00	0	0	-100	100	03/14/2024	

Batch R344417		SampType: LCS		Units mg/L							Date Analyzed
SampID: LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Total Dissolved Solids		20		928	1000	0	92.8	90	110	03/14/2024	

Batch R344506		SampType: MBLK		Units mg/L							Date Analyzed
SampID: MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Total Dissolved Solids		20		< 20	16.00	0	0	-100	100	03/15/2024	
Total Dissolved Solids		20		< 20	16.00	0	0	-100	100	03/15/2024	

Batch R344506		SampType: LCS		Units mg/L							Date Analyzed
SampID: LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Total Dissolved Solids		20		968	1000	0	96.8	90	110	03/15/2024	
Total Dissolved Solids		20		956	1000	0	95.6	90	110	03/15/2024	

Batch R344506		SampType: DUP		Units mg/L							RPD Limit 10	Date Analyzed
SampID: 24030008-013BDUP												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Total Dissolved Solids		20		310				310.0	0.00	03/15/2024		



Quality Control Results

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Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24030008

Client Project: Meredosia GW Monitoring Q1 2024

Report Date: 22-Mar-24

STANDARD METHODS 2540 C (DISSOLVED) 1997, 2011

Batch R344506		SampType: DUP		Units mg/L				RPD Limit 10			Date Analyzed
SampID: 24030008-014BDUP											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Total Dissolved Solids		20		416				408.0	1.94	03/15/2024	

STANDARD METHODS 4500-NO2 B (DISSOLVED) 2000, 2011

Batch R344314		SampType: MBLK		Units mg/L				RPD Limit 10		Date Analyzed
SampID: MBLK										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrite (as N)		0.05		< 0.05	0.0250	0	0	-100	100	03/13/2024

Batch R344314		SampType: LCS		Units mg/L				RPD Limit 10		Date Analyzed
SampID: LCS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrite (as N)		0.05		0.33	0.3045	0	107.4	90	110	03/13/2024

Batch R344314		SampType: MS		Units mg/L				RPD Limit 10		Date Analyzed
SampID: 24030008-002BMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrite (as N)		0.05		0.50	0.5000	0	100.8	85	115	03/13/2024

Batch R344314		SampType: MSD		Units mg/L				RPD Limit 10		Date Analyzed
SampID: 24030008-002BMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Nitrite (as N)		0.05		0.50	0.5000	0	100.8	0.5040	0.00	03/13/2024

Batch R344314		SampType: MS		Units mg/L				RPD Limit 10		Date Analyzed
SampID: 24030919-001AMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrite (as N)		0.05		0.48	0.5000	0	95.6	85	115	03/13/2024

Batch R344314		SampType: MSD		Units mg/L				RPD Limit 10		Date Analyzed
SampID: 24030919-001AMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Nitrite (as N)		0.05		0.49	0.5000	0	97.2	0.4780	1.66	03/13/2024



Quality Control Results

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Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24030008

Client Project: Meredosia GW Monitoring Q1 2024

Report Date: 22-Mar-24

STANDARD METHODS 4500-NO2 B (DISSOLVED) 2000, 2011

Batch R344419		SampType: MS		Units mg/L							Date
SampID: 24030008-001BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		Analyzed
Nitrogen, Nitrite (as N)		0.05		0.49	0.5000	0.01100	95.0	85	115		03/15/2024

Batch R344419		SampType: MSD		Units mg/L		RPD Limit 10					Date
SampID: 24030008-001BMSSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD		Analyzed
Nitrogen, Nitrite (as N)		0.05		0.49	0.5000	0.01100	95.2	0.4860	0.21		03/15/2024

STANDARD METHODS 4500-NO3 F (DISSOLVED) 2000, 2011

Batch R344392		SampType: MBLK		Units mg/L							Date
SampID: ICB/MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		Analyzed
Nitrogen, Nitrate (as N)		0.050		< 0.050							03/14/2024
Nitrogen, Nitrate-Nitrite (as N)		0.050		< 0.050	0.0090	0	0	-100	100		03/14/2024

Batch R344392		SampType: LCS		Units mg/L							Date
SampID: ICV/LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		Analyzed
Nitrogen, Nitrate-Nitrite (as N)		0.050		0.486	0.5000	0	97.2	90	110		03/14/2024

Batch R344392		SampType: MS		Units mg/L							Date
SampID: 24030008-012BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		Analyzed
Nitrogen, Nitrate-Nitrite (as N)		0.250		3.07	1.250	1.918	92.5	85	115		03/14/2024

Batch R344392		SampType: MSD		Units mg/L		RPD Limit 10					Date
SampID: 24030008-012BMSSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD		Analyzed
Nitrogen, Nitrate-Nitrite (as N)		0.250		3.02	1.250	1.918	88.0	3.074	1.84		03/14/2024

Batch R344392		SampType: MS		Units mg/L							Date
SampID: 24030927-002BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		Analyzed
Nitrogen, Nitrate-Nitrite (as N)		0.250		3.18	1.250	1.987	95.3	90	110		03/14/2024



Quality Control Results

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Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24030008

Client Project: Meredosia GW Monitoring Q1 2024

Report Date: 22-Mar-24

STANDARD METHODS 4500-NO3 F (DISSOLVED) 2000, 2011

Batch R344392		SampType: MSD		Units mg/L				RPD Limit 10			Date Analyzed
SampID: 24030927-002BMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Nitrogen, Nitrate-Nitrite (as N)		0.250		3.25	1.250	1.987	100.8	3.178	2.15	03/14/2024	

Batch R344473		SampType: MBLK		Units mg/L				RPD Limit 10		Date Analyzed
SampID: ICB/MBLK										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrate (as N)		0.050		< 0.050						03/15/2024
Nitrogen, Nitrate-Nitrite (as N)		0.050		< 0.050	0.0090	0	0	-100	100	03/15/2024

Batch R344473		SampType: LCS		Units mg/L				RPD Limit 10		Date Analyzed
SampID: ICV/LCS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrate-Nitrite (as N)		0.050		0.483	0.5000	0	96.6	90	110	03/15/2024

Batch R344473		SampType: MS		Units mg/L				RPD Limit 10		Date Analyzed
SampID: 24030008-013BMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrate-Nitrite (as N)		0.500		5.28	2.500	2.876	96.4	85	115	03/15/2024

Batch R344473		SampType: MSD		Units mg/L				RPD Limit 10			Date Analyzed
SampID: 24030008-013BMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Nitrogen, Nitrate-Nitrite (as N)		0.500		5.21	2.500	2.876	93.3	5.285	1.45	03/15/2024	

Batch R344473		SampType: MS		Units mg/L				RPD Limit 10		Date Analyzed
SampID: 24031109-004AMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrate-Nitrite (as N)		0.500		5.47	2.500	3.156	92.5	90	110	03/15/2024

Batch R344473		SampType: MSD		Units mg/L				RPD Limit 10			Date Analyzed
SampID: 24031109-004AMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Nitrogen, Nitrate-Nitrite (as N)		0.500		5.46	2.500	3.156	92.0	5.469	0.24	03/15/2024	



Quality Control Results

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Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24030008

Client Project: Meredosia GW Monitoring Q1 2024

Report Date: 22-Mar-24

STANDARD METHODS 4500-NO3 F (DISSOLVED) 2000, 2011

Batch R344473		SampType: MS		Units mg/L							Date Analyzed
SampID: 24031156-001CMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrate-Nitrite (as N)		1.00		16.2	5.000	10.94	105.6	90	110	03/15/2024	

Batch R344473		SampType: MSD		Units mg/L							RPD Limit 10	Date Analyzed
SampID: 24031156-001CMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Nitrogen, Nitrate-Nitrite (as N)		1.00		16.0	5.000	10.94	100.8	16.22	1.50	03/15/2024		

SW-846 9012A (TOTAL)

Batch 219887		SampType: MBLK		Units mg/L							Date Analyzed
SampID: MBLK 240313 TCN1											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Cyanide		0.005		< 0.005	0.0015	0	0	-100	100	03/14/2024	

Batch 219887		SampType: LCS		Units mg/L							Date Analyzed
SampID: LCS 240313 TCN1											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Cyanide		0.005		0.025	0.0250	0	99.6	90	110	03/14/2024	

Batch 220174		SampType: MBLK		Units mg/L							Date Analyzed
SampID: MBLK 240320 TCN1											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Cyanide		0.005		< 0.005	0.0015	0	0	-100	100	03/21/2024	

Batch 220174		SampType: LCS		Units mg/L							Date Analyzed
SampID: LCS 240320 TCN1											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Cyanide		0.005		0.024	0.0250	0	96.4	90	110	03/21/2024	

Batch 220174		SampType: MS		Units mg/L							Date Analyzed
SampID: 24030008-014EMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Cyanide		0.005		0.025	0.0250	0	100.5	75	125	03/21/2024	



Quality Control Results

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Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24030008

Client Project: Meredosia GW Monitoring Q1 2024

Report Date: 22-Mar-24

SW-846 9012A (TOTAL)

Batch 220174		SampType: MSD		Units mg/L				RPD Limit 15			Date Analyzed
SampID: 24030008-014EMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Cyanide		0.005		0.025	0.0250	0	100.4	0.02514	0.16	03/21/2024	

Batch 220174		SampType: MS		Units mg/L				Low Limit	High Limit	Date Analyzed
SampID: 24031058-001CMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Cyanide		0.025		0.139	0.1250	0.02000	95.4	90	110	03/21/2024

Batch 220174		SampType: MSD		Units mg/L				RPD Limit 15			Date Analyzed
SampID: 24031058-001CMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Cyanide		0.025		0.141	0.1250	0.02000	97.0	0.1392	1.48	03/21/2024	

SW-846 9036 (DISSOLVED)

Batch R344317		SampType: MBLK		Units mg/L				Low Limit	High Limit	Date Analyzed
SampID: MB-R344317										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		10		< 10	6.140	0	0	-100	100	03/13/2024

Batch R344317		SampType: LCS		Units mg/L				Low Limit	High Limit	Date Analyzed
SampID: LCS-R344317										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		10		20	20.00	0	98.4	90	110	03/13/2024

Batch R344317		SampType: MS		Units mg/L				Low Limit	High Limit	Date Analyzed
SampID: 24030008-004BMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		20		74	40.00	37.96	90.9	85	115	03/13/2024

Batch R344317		SampType: MSD		Units mg/L				RPD Limit 10			Date Analyzed
SampID: 24030008-004BMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Sulfate		20		75	40.00	37.96	93.7	74.30	1.52	03/13/2024	



Quality Control Results

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Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24030008

Client Project: Meredosia GW Monitoring Q1 2024

Report Date: 22-Mar-24

SW-846 9036 (DISSOLVED)

Batch R344317		SampType: MS		Units mg/L							Date Analyzed
SampID: 24030818-001AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		20		87	40.00	49.00	94.1	85	115	03/13/2024	

Batch R344317		SampType: MSD		Units mg/L							RPD Limit 10	Date Analyzed
SampID: 24030818-001AMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Sulfate		20		89	40.00	49.00	100.8	86.65	3.03	03/13/2024		

Batch R344317		SampType: MS		Units mg/L							Date Analyzed
SampID: 24030866-002AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		10		40	20.00	21.62	93.6	85	115	03/13/2024	

Batch R344317		SampType: MSD		Units mg/L							RPD Limit 10	Date Analyzed
SampID: 24030866-002AMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Sulfate		10		41	20.00	21.62	97.4	40.34	1.87	03/13/2024		

Batch R344355		SampType: MBLK		Units mg/L							Date Analyzed
SampID: MB-R344355											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		10		< 10	6.140	0	0	-100	100	03/14/2024	

Batch R344355		SampType: LCS		Units mg/L							Date Analyzed
SampID: LCS-R344355											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		10		20	20.00	0	99.9	90	110	03/14/2024	

Batch R344355		SampType: MS		Units mg/L							Date Analyzed
SampID: 24030002-006AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		50		208	100.0	104.9	102.6	85	115	03/14/2024	

Batch R344355		SampType: MSD		Units mg/L							RPD Limit 10	Date Analyzed
SampID: 24030002-006AMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Sulfate		50		202	100.0	104.9	97.6	207.5	2.45	03/14/2024		



Quality Control Results

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Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24030008

Client Project: Meredosia GW Monitoring Q1 2024

Report Date: 22-Mar-24

SW-846 9036 (DISSOLVED)

Batch R344355		SampType: MS		Units mg/L							Date Analyzed
SampID: 24030008-002BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		10	S	26	20.00	9.440	81.5	85	115	03/14/2024	

Batch R344355		SampType: MSD		Units mg/L							RPD Limit 10	Date Analyzed
SampID: 24030008-002BMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Sulfate		10	S	26	20.00	9.440	81.4	25.74	0.08	03/14/2024		

Batch R344515		SampType: MBLK		Units mg/L							Date Analyzed
SampID: MB-R344515											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		10		< 10	6.140	0	0	-100	100	03/18/2024	

Batch R344515		SampType: LCS		Units mg/L							Date Analyzed
SampID: LCS-R344515											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		10		20	20.00	0	98.0	90	110	03/18/2024	

Batch R344515		SampType: MS		Units mg/L							Date Analyzed
SampID: 24030002-007AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		20	E	108	40.00	74.02	85.6	85	115	03/18/2024	

Batch R344515		SampType: MSD		Units mg/L							RPD Limit 10	Date Analyzed
SampID: 24030002-007AMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Sulfate		20	E	110	40.00	74.02	90.7	108.3	1.85	03/18/2024		

Batch R344515		SampType: MS		Units mg/L							Date Analyzed
SampID: 24030008-001BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		10		30	20.00	12.59	88.2	85	115	03/18/2024	

Batch R344515		SampType: MSD		Units mg/L							RPD Limit 10	Date Analyzed
SampID: 24030008-001BMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Sulfate		10		31	20.00	12.59	90.6	30.24	1.51	03/18/2024		



Quality Control Results

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Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24030008

Client Project: Meredosia GW Monitoring Q1 2024

Report Date: 22-Mar-24

SW-846 9036 (DISSOLVED)

Batch R344515		SampType: MS		Units mg/L							Date Analyzed
SampID: 24031148-002AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		50		197	100.0	109.3	88.1	85	115	03/18/2024	

Batch R344515		SampType: MSD		Units mg/L							RPD Limit 10	Date Analyzed
SampID: 24031148-002AMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Sulfate		50		206	100.0	109.3	96.5	197.4	4.13	03/18/2024		

Batch R344515		SampType: MS		Units mg/L							Date Analyzed
SampID: 24031149-001AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		100		432	200.0	243.3	94.2	85	115	03/18/2024	

Batch R344515		SampType: MSD		Units mg/L							RPD Limit 10	Date Analyzed
SampID: 24031149-001AMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Sulfate		100		428	200.0	243.3	92.2	431.7	0.95	03/18/2024		

Batch R344515		SampType: MS		Units mg/L							Date Analyzed
SampID: 24031150-001AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		50	E	253	100.0	162.8	90.7	85	115	03/18/2024	

Batch R344515		SampType: MSD		Units mg/L							RPD Limit 10	Date Analyzed
SampID: 24031150-001AMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Sulfate		50	E	256	100.0	162.8	93.4	253.5	1.07	03/18/2024		

Batch R344515		SampType: MS		Units mg/L							Date Analyzed
SampID: 24031151-002AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		50	E	262	100.0	172.9	89.3	85	115	03/18/2024	

Batch R344515		SampType: MSD		Units mg/L							RPD Limit 10	Date Analyzed
SampID: 24031151-002AMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Sulfate		50	E	263	100.0	172.9	90.4	262.2	0.41	03/18/2024		



Quality Control Results

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Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24030008

Client Project: Meredosia GW Monitoring Q1 2024

Report Date: 22-Mar-24

SW-846 9036 (DISSOLVED)

Batch R344515		SampType: MS		Units mg/L							Date Analyzed
SampID: 24031152-008AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		20		82	40.00	45.01	93.3	85	115	03/18/2024	

Batch R344515		SampType: MSD		Units mg/L							RPD Limit 10	Date Analyzed
SampID: 24031152-008AMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Sulfate		20		83	40.00	45.01	94.9	82.33	0.77	03/18/2024		

SW-846 9214 (DISSOLVED)

Batch R344290		SampType: MBLK		Units mg/L							Date Analyzed
SampID: MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Fluoride		0.10		< 0.10	0.0500	0	0	-100	100	03/13/2024	

Batch R344290		SampType: LCS		Units mg/L							Date Analyzed
SampID: LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Fluoride		0.10		0.92	1.000	0	92.2	90	110	03/13/2024	

Batch R344290		SampType: MS		Units mg/L							Date Analyzed
SampID: 24030002-011AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Fluoride		0.10		2.73	2.000	0.5760	107.6	75	125	03/13/2024	

Batch R344290		SampType: MSD		Units mg/L							RPD Limit 15	Date Analyzed
SampID: 24030002-011AMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Fluoride		0.10		2.80	2.000	0.5760	111.1	2.729	2.50	03/13/2024		

Batch R344388		SampType: MBLK		Units mg/L							Date Analyzed
SampID: MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Fluoride		0.10		< 0.10	0.0500	0	0	-100	100	03/14/2024	



Quality Control Results

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Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24030008

Client Project: Meredosia GW Monitoring Q1 2024

Report Date: 22-Mar-24

SW-846 9214 (DISSOLVED)

Batch R344388		SampType: LCS		Units mg/L							
SampID: LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Fluoride		0.10		1.09	1.000	0	108.7	90	110	03/14/2024	

Batch R344388		SampType: MS		Units mg/L							
SampID: 24030002-006AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Fluoride		0.10		2.87	2.000	0.5390	116.5	75	125	03/14/2024	

Batch R344388		SampType: MSD		Units mg/L						RPD Limit 15		Date Analyzed
SampID: 24030002-006AMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Fluoride		0.10		2.94	2.000	0.5390	119.8	2.869	2.31	03/14/2024		

Batch R344388		SampType: MS		Units mg/L							
SampID: 24030002-010AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Fluoride		0.10		1.98	2.000	0	98.8	75	125	03/15/2024	

Batch R344388		SampType: MSD		Units mg/L						RPD Limit 15		Date Analyzed
SampID: 24030002-010AMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Fluoride		0.10		2.04	2.000	0	102.0	1.976	3.24	03/15/2024		

Batch R344388		SampType: MS		Units mg/L							
SampID: 24031032-001AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Fluoride		0.10		3.06	2.000	0.7840	113.7	75	125	03/14/2024	

Batch R344388		SampType: MSD		Units mg/L						RPD Limit 15		Date Analyzed
SampID: 24031032-001AMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Fluoride		0.10		3.00	2.000	0.7840	111.0	3.057	1.72	03/14/2024		

Batch R344388		SampType: MS		Units mg/L							
SampID: 24031115-002AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Fluoride		0.10		2.75	2.000	0.7170	101.6	75	125	03/15/2024	



Quality Control Results

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Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24030008

Client Project: Meredosia GW Monitoring Q1 2024

Report Date: 22-Mar-24

SW-846 9214 (DISSOLVED)

Batch R344388		SampType: MSD		Units mg/L				RPD Limit 15			Date Analyzed
SampID: 24031115-002AMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Fluoride		0.10		2.72	2.000	0.7170	100.3	2.749	0.95	03/15/2024	

Batch R344388		SampType: MS		Units mg/L				RPD Limit 15		Date Analyzed
SampID: 24031115-008AMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.10		2.88	2.000	0.8430	101.7	75	125	03/15/2024

Batch R344388		SampType: MSD		Units mg/L				RPD Limit 15			Date Analyzed
SampID: 24031115-008AMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Fluoride		0.10		2.76	2.000	0.8430	95.7	2.877	4.30	03/15/2024	

SW-846 9251 (DISSOLVED)

Batch R344318		SampType: MBLK		Units mg/L				RPD Limit 15		Date Analyzed
SampID: ICB/MBLK										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloride		4		< 4	0.5000	0	0	-100	100	03/13/2024

Batch R344318		SampType: LCS		Units mg/L				RPD Limit 15		Date Analyzed
SampID: ICV/LCS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloride		4		21	20.00	0	102.8	90	110	03/13/2024

Batch R344318		SampType: MS		Units mg/L				RPD Limit 15		Date Analyzed
SampID: 24030008-004BMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloride		4	E	52	20.00	34.34	87.9	85	115	03/13/2024

Batch R344318		SampType: MSD		Units mg/L				RPD Limit 15			Date Analyzed
SampID: 24030008-004BMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Chloride		4	E	52	20.00	34.34	87.1	51.92	0.31	03/13/2024	



Quality Control Results

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Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24030008

Client Project: Meredosia GW Monitoring Q1 2024

Report Date: 22-Mar-24

SW-846 9251 (DISSOLVED)

Batch R344318		SampType: MS		Units mg/L							Date Analyzed
SampID: 24030670-006BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		400		2970	2000	1227	86.9	85	115	03/13/2024	

Batch R344318		SampType: MSD		Units mg/L							RPD Limit 15	Date Analyzed
SampID: 24030670-006BMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Chloride		400		2980	2000	1227	87.5	2965	0.38	03/13/2024		

Batch R344318		SampType: MS		Units mg/L							Date Analyzed
SampID: 24030818-001AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		4		37	20.00	19.52	87.8	85	115	03/13/2024	

Batch R344318		SampType: MSD		Units mg/L							RPD Limit 15	Date Analyzed
SampID: 24030818-001AMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Chloride		4		37	20.00	19.52	87.2	37.07	0.30	03/13/2024		

Batch R344318		SampType: MS		Units mg/L							Date Analyzed
SampID: 24030866-002AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		4		46	20.00	28.67	88.6	85	115	03/13/2024	

Batch R344318		SampType: MSD		Units mg/L							RPD Limit 15	Date Analyzed
SampID: 24030866-002AMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Chloride		4		47	20.00	28.67	89.4	46.39	0.32	03/13/2024		

Batch R344357		SampType: MBLK		Units mg/L							Date Analyzed
SampID: ICB/MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		4		< 4	0.5000	0	0	-100	100	03/14/2024	

Batch R344357		SampType: LCS		Units mg/L							Date Analyzed
SampID: ICV/LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		4		21	20.00	0	103.2	90	110	03/14/2024	



Quality Control Results

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Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24030008

Client Project: Meredosia GW Monitoring Q1 2024

Report Date: 22-Mar-24

SW-846 9251 (DISSOLVED)

Batch R344357		SampType: MS		Units mg/L							Date Analyzed
SampID: 24030002-006AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		4		22	20.00	2.700	94.4	85	115	03/14/2024	

Batch R344357		SampType: MSD		Units mg/L							RPD Limit 15	Date Analyzed
SampID: 24030002-006AMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Chloride		4		21	20.00	2.700	94.0	21.59	0.46	03/14/2024		

Batch R344357		SampType: MS		Units mg/L							Date Analyzed
SampID: 24030008-002BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		4		21	20.00	2.250	95.9	85	115	03/14/2024	

Batch R344357		SampType: MSD		Units mg/L							RPD Limit 15	Date Analyzed
SampID: 24030008-002BMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Chloride		4		22	20.00	2.250	97.0	21.43	0.98	03/14/2024		

Batch R344517		SampType: MBLK		Units mg/L							Date Analyzed
SampID: ICB/MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		4		< 4	0.5000	0	0	-100	100	03/18/2024	

Batch R344517		SampType: LCS		Units mg/L							Date Analyzed
SampID: ICV/LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		4		21	20.00	0	103.4	90	110	03/18/2024	

Batch R344517		SampType: MS		Units mg/L							Date Analyzed
SampID: 24030002-007AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		4		37	20.00	19.45	88.2	85	115	03/18/2024	

Batch R344517		SampType: MSD		Units mg/L							RPD Limit 15	Date Analyzed
SampID: 24030002-007AMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Chloride		4		37	20.00	19.45	87.4	37.10	0.46	03/18/2024		



Quality Control Results

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Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24030008

Client Project: Meredosia GW Monitoring Q1 2024

Report Date: 22-Mar-24

SW-846 9251 (DISSOLVED)

Batch R344517		SampType: MS		Units mg/L							Date Analyzed
SampID: 24030008-001BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		40		260	200.0	79.21	90.2	85	115	03/18/2024	

Batch R344517		SampType: MSD		Units mg/L							RPD Limit 15	Date Analyzed
SampID: 24030008-001BMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Chloride		40		264	200.0	79.21	92.4	259.6	1.67	03/18/2024		

SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)

Batch 219902		SampType: MBLK		Units mg/L							Date Analyzed
SampID: MBLK-219902											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Barium		0.0025		< 0.0025	0.0007	0	0	-100	100	03/14/2024	
Beryllium		0.0005		< 0.0005	0.0002	0	0	-100	100	03/14/2024	
Boron		0.0200		< 0.0200	0.0090	0	0	-100	100	03/14/2024	
Cadmium		0.0020		< 0.0020	0.0005	0	0	-100	100	03/14/2024	
Chromium		0.0050		< 0.0050	0.0028	0	0	-100	100	03/14/2024	
Cobalt		0.0050		< 0.0050	0.0020	0	0	-100	100	03/14/2024	
Copper		0.0050		< 0.0050	0.0013	0	0	-100	100	03/14/2024	
Iron		0.0400		< 0.0400	0.0200	0	0	-100	100	03/14/2024	
Manganese		0.0070		< 0.0070	0.0025	0	0	-100	100	03/14/2024	
Nickel		0.0050		< 0.0050	0.0016	0	0	-100	100	03/14/2024	
Selenium		0.0400		< 0.0400	0.0170	0	0	-100	100	03/14/2024	
Silver		0.0070		< 0.0070	0.0027	0	0	-100	100	03/14/2024	
Vanadium		0.0100		< 0.0100	0.0009	0	0	-100	100	03/14/2024	
Zinc		0.0100		< 0.0100	0.0050	0	0	-100	100	03/14/2024	



Quality Control Results

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Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24030008

Client Project: Meredosia GW Monitoring Q1 2024

Report Date: 22-Mar-24

SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)

Batch 219902 SampType: LCS Units mg/L

SampID: LCS-219902

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Barium		0.0025		1.92	2.000	0	95.9	85	115	03/14/2024
Beryllium		0.0005		0.0485	0.0500	0	97.0	85	115	03/14/2024
Boron		0.0200		0.462	0.5000	0	92.4	85	115	03/14/2024
Cadmium		0.0020		0.0455	0.0500	0	91.0	85	115	03/14/2024
Chromium		0.0050		0.184	0.2000	0	92.0	85	115	03/14/2024
Cobalt		0.0050		0.487	0.5000	0	97.5	85	115	03/14/2024
Copper		0.0050		0.253	0.2500	0	101.0	85	115	03/14/2024
Iron		0.0400		1.90	2.000	0	94.8	85	115	03/14/2024
Manganese		0.0070		0.477	0.5000	0	95.4	85	115	03/14/2024
Nickel		0.0050		0.473	0.5000	0	94.6	85	115	03/14/2024
Selenium		0.0400		0.472	0.5000	0	94.3	85	115	03/14/2024
Silver		0.0070		0.0462	0.0500	0	92.4	85	115	03/14/2024
Vanadium		0.0100		0.466	0.5000	0	93.1	85	115	03/14/2024
Zinc		0.0100		0.472	0.5000	0	94.5	85	115	03/14/2024

Batch 219902 SampType: MS Units mg/L

SampID: 24030008-006DMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Barium		0.0025		1.81	2.000	0.01240	89.7	75	125	03/15/2024
Beryllium		0.0005		0.0465	0.0500	0	93.0	75	125	03/15/2024
Boron		0.0200		0.908	0.5000	0.4701	87.6	75	125	03/15/2024
Cadmium		0.0020		0.0434	0.0500	0	86.8	75	125	03/15/2024
Chromium		0.0050		0.178	0.2000	0	88.8	75	125	03/15/2024
Cobalt		0.0050		0.440	0.5000	0	87.9	75	125	03/15/2024
Copper		0.0050		0.233	0.2500	0	93.1	75	125	03/15/2024
Iron		0.0400		1.76	2.000	0	88.0	75	125	03/15/2024
Manganese		0.0070		0.457	0.5000	0.007500	89.9	75	125	03/15/2024
Nickel		0.0050		0.442	0.5000	0	88.5	75	125	03/15/2024
Selenium		0.0400		0.463	0.5000	0.01910	88.8	75	125	03/15/2024
Silver		0.0070		0.0438	0.0500	0	87.6	75	125	03/15/2024
Vanadium		0.0100		0.450	0.5000	0.001100	89.8	75	125	03/15/2024
Zinc		0.0100		0.450	0.5000	0	90.1	75	125	03/15/2024



Quality Control Results

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Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24030008

Client Project: Meredosia GW Monitoring Q1 2024

Report Date: 22-Mar-24

SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)

Batch 219902		SampType: MSD		Units mg/L				RPD Limit 20			Date Analyzed
SampID: 24030008-006DMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Barium		0.0025		1.84	2.000	0.01240	91.2	1.805	1.71	03/15/2024	
Beryllium		0.0005		0.0475	0.0500	0	95.0	0.04650	2.13	03/15/2024	
Boron		0.0200		0.925	0.5000	0.4701	91.0	0.9082	1.84	03/15/2024	
Cadmium		0.0020		0.0446	0.0500	0	89.2	0.04340	2.73	03/15/2024	
Chromium		0.0050		0.181	0.2000	0	90.3	0.1775	1.73	03/15/2024	
Cobalt		0.0050		0.449	0.5000	0	89.8	0.4395	2.12	03/15/2024	
Copper		0.0050		0.236	0.2500	0	94.3	0.2328	1.24	03/15/2024	
Iron		0.0400		1.79	2.000	0	89.4	1.760	1.57	03/15/2024	
Manganese		0.0070		0.463	0.5000	0.007500	91.2	0.4569	1.39	03/15/2024	
Nickel		0.0050		0.449	0.5000	0	89.9	0.4425	1.53	03/15/2024	
Selenium		0.0400		0.472	0.5000	0.01910	90.6	0.4632	1.92	03/15/2024	
Silver		0.0070		0.0454	0.0500	0	90.8	0.04380	3.59	03/15/2024	
Vanadium		0.0100		0.458	0.5000	0.001100	91.3	0.4500	1.72	03/15/2024	
Zinc		0.0100		0.459	0.5000	0	91.9	0.4505	1.93	03/15/2024	

Batch 219902		SampType: MS		Units mg/L						Date Analyzed
SampID: 24030991-004BMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Iron		0.0400		1.77	2.000	0	88.7	75	125	03/15/2024

Batch 219902		SampType: MSD		Units mg/L				RPD Limit 20			Date Analyzed
SampID: 24030991-004BMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Iron		0.0400		1.88	2.000	0	94.1	1.774	5.92	03/15/2024	



Quality Control Results

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Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24030008

Client Project: Meredosia GW Monitoring Q1 2024

Report Date: 22-Mar-24

SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)

Batch 220058 SampType: MBLK Units mg/L

SampID: MBLK-220058

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Barium		0.0025		< 0.0025	0.0007	0	0	-100	100	03/19/2024
Beryllium		0.0005		< 0.0005	0.0002	0	0	-100	100	03/19/2024
Boron		0.0200		< 0.0200	0.0090	0	0	-100	100	03/19/2024
Cadmium		0.0020		< 0.0020	0.0005	0	0	-100	100	03/19/2024
Chromium		0.0050		< 0.0050	0.0028	0	0	-100	100	03/19/2024
Cobalt		0.0050		< 0.0050	0.0020	0	0	-100	100	03/19/2024
Copper		0.0050		< 0.0050	0.0013	0	0	-100	100	03/19/2024
Iron		0.0400		< 0.0400	0.0200	0	0	-100	100	03/19/2024
Manganese		0.0070		< 0.0070	0.0025	0	0	-100	100	03/19/2024
Nickel		0.0050		< 0.0050	0.0016	0	0	-100	100	03/19/2024
Selenium		0.0400		< 0.0400	0.0170	0	0	-100	100	03/19/2024
Silver		0.0070		< 0.0070	0.0027	0	0	-100	100	03/19/2024
Vanadium		0.0100		< 0.0100	0.0009	0	0	-100	100	03/19/2024
Zinc		0.0100		< 0.0100	0.0050	0	0	-100	100	03/19/2024

Batch 220058 SampType: LCS Units mg/L

SampID: LCS-220058

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Barium		0.0025		1.84	2.000	0	92.2	85	115	03/19/2024
Beryllium		0.0005		0.0474	0.0500	0	94.8	85	115	03/19/2024
Boron		0.0200		0.448	0.5000	0	89.7	85	115	03/19/2024
Cadmium		0.0020		0.0457	0.0500	0	91.4	85	115	03/19/2024
Chromium		0.0050		0.184	0.2000	0	92.0	85	115	03/19/2024
Cobalt		0.0050		0.468	0.5000	0	93.5	85	115	03/19/2024
Copper		0.0050		0.237	0.2500	0	94.8	85	115	03/19/2024
Iron		0.0400		1.86	2.000	0	92.8	85	115	03/19/2024
Manganese		0.0070		0.466	0.5000	0	93.2	85	115	03/19/2024
Nickel		0.0050		0.464	0.5000	0	92.8	85	115	03/19/2024
Selenium		0.0400		0.460	0.5000	0	92.0	85	115	03/19/2024
Silver		0.0070		0.0442	0.0500	0	88.4	85	115	03/19/2024
Vanadium		0.0100		0.457	0.5000	0	91.4	85	115	03/19/2024
Zinc		0.0100		0.457	0.5000	0	91.5	85	115	03/19/2024



Quality Control Results

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Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24030008

Client Project: Meredosia GW Monitoring Q1 2024

Report Date: 22-Mar-24

SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)

Batch 220058 SampType: MS Units mg/L

SampleID: 24030008-010DMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Barium		0.0025		1.93	2.000	0.01430	95.9	75	125	03/19/2024
Beryllium		0.0005		0.0496	0.0500	0.0003000	98.6	75	125	03/19/2024
Boron		0.0200		0.498	0.5000	0.03220	93.1	75	125	03/19/2024
Cadmium		0.0020		0.0463	0.0500	0	92.6	75	125	03/19/2024
Chromium		0.0050		0.191	0.2000	0	95.5	75	125	03/19/2024
Cobalt		0.0050		0.480	0.5000	0	96.0	75	125	03/19/2024
Copper		0.0050		0.249	0.2500	0	99.6	75	125	03/19/2024
Iron		0.0400		1.93	2.000	0	96.7	75	125	03/19/2024
Manganese		0.0070		0.510	0.5000	0.02900	96.2	75	125	03/19/2024
Nickel		0.0050		0.478	0.5000	0	95.6	75	125	03/19/2024
Selenium		0.0400		0.498	0.5000	0	99.5	75	125	03/19/2024
Silver		0.0070		0.0461	0.0500	0	92.2	75	125	03/19/2024
Vanadium		0.0100		0.479	0.5000	0.001200	95.6	75	125	03/19/2024
Zinc		0.0100		0.478	0.5000	0	95.5	75	125	03/19/2024

Batch 220058 SampType: MSD Units mg/L

RPD Limit 20

SampleID: 24030008-010DMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Barium		0.0025		1.91	2.000	0.01430	94.6	1.932	1.28	03/19/2024
Beryllium		0.0005		0.0488	0.0500	0.0003000	97.0	0.04960	1.63	03/19/2024
Boron		0.0200		0.492	0.5000	0.03220	91.9	0.4975	1.13	03/19/2024
Cadmium		0.0020		0.0457	0.0500	0	91.4	0.04630	1.30	03/19/2024
Chromium		0.0050		0.189	0.2000	0	94.3	0.1909	1.21	03/19/2024
Cobalt		0.0050		0.474	0.5000	0	94.8	0.4802	1.30	03/19/2024
Copper		0.0050		0.246	0.2500	0	98.5	0.2489	1.09	03/19/2024
Iron		0.0400		1.90	2.000	0	94.8	1.934	2.03	03/19/2024
Manganese		0.0070		0.502	0.5000	0.02900	94.6	0.5102	1.60	03/19/2024
Nickel		0.0050		0.471	0.5000	0	94.3	0.4779	1.37	03/19/2024
Selenium		0.0400		0.484	0.5000	0	96.8	0.4975	2.71	03/19/2024
Silver		0.0070		0.0457	0.0500	0	91.4	0.04610	0.87	03/19/2024
Vanadium		0.0100		0.474	0.5000	0.001200	94.5	0.4793	1.20	03/19/2024
Zinc		0.0100		0.473	0.5000	0	94.5	0.4776	1.03	03/19/2024



Quality Control Results

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

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24030008

Client Project: Meredosia GW Monitoring Q1 2024

Report Date: 22-Mar-24

SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)

Batch 220058		SampType: MS		Units mg/L							Date Analyzed
SampID: 24031117-003DMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Iron		0.0400		1.94	2.000	0	96.8	75	125	03/19/2024	

Batch 220058		SampType: MSD		Units mg/L							RPD Limit 20	Date Analyzed
SampID: 24031117-003DMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Iron		0.0400		1.86	2.000	0	93.2	1.936	3.82	03/19/2024		

SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 219890		SampType: MBLK		Units mg/L							Date Analyzed
SampID: MBLK-219890											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Barium		0.0025		< 0.0025	0.0007	0	0	-100	100	03/14/2024	
Beryllium		0.0005		< 0.0005	0.0002	0	0	-100	100	03/14/2024	
Boron		0.0200		< 0.0200	0.0090	0	0	-100	100	03/14/2024	
Cadmium		0.0020		< 0.0020	0.0005	0	0	-100	100	03/14/2024	
Chromium		0.0050		< 0.0050	0.0028	0	0	-100	100	03/14/2024	
Cobalt		0.0050		< 0.0050	0.0020	0	0	-100	100	03/14/2024	
Copper		0.0050		< 0.0050	0.0013	0	0	-100	100	03/14/2024	
Iron		0.0400		< 0.0400	0.0200	0	0	-100	100	03/14/2024	
Manganese		0.0070		< 0.0070	0.0025	0	0	-100	100	03/14/2024	
Nickel		0.0050	JS	0.0037	0.0016	0	231.2	-100	100	03/14/2024	
Nickel		0.0050		< 0.0050	0.0016	0	0	-100	100	03/15/2024	
Selenium		0.0400		< 0.0400	0.0170	0	0	-100	100	03/14/2024	
Silver		0.0070		< 0.0070	0.0027	0	0	-100	100	03/14/2024	
Vanadium		0.0100		< 0.0100	0.0009	0	0	-100	100	03/14/2024	
Zinc		0.0100		< 0.0100	0.0050	0	0	-100	100	03/14/2024	



Quality Control Results

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

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24030008

Client Project: Meredosia GW Monitoring Q1 2024

Report Date: 22-Mar-24

SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 219890 SampType: LCS Units mg/L

SampID: LCS-219890

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Barium		0.0025		2.04	2.000	0	102.0	85	115	03/14/2024
Beryllium		0.0005		0.0555	0.0500	0	111.0	85	115	03/14/2024
Boron		0.0200		0.526	0.5000	0	105.3	85	115	03/14/2024
Cadmium		0.0020		0.0501	0.0500	0	100.2	85	115	03/14/2024
Chromium		0.0050		0.206	0.2000	0	103.1	85	115	03/14/2024
Cobalt		0.0050		0.555	0.5000	0	111.0	85	115	03/14/2024
Copper		0.0050		0.266	0.2500	0	106.2	85	115	03/15/2024
Copper		0.0050	S	0.290	0.2500	0	116.2	85	115	03/14/2024
Iron		0.0400		2.19	2.000	0	109.5	85	115	03/14/2024
Manganese		0.0070		0.540	0.5000	0	108.0	85	115	03/14/2024
Nickel		0.0050	B	0.533	0.5000	0	106.7	85	115	03/14/2024
Selenium		0.0400		0.538	0.5000	0	107.6	85	115	03/14/2024
Silver		0.0070		0.0529	0.0500	0	105.8	85	115	03/14/2024
Vanadium		0.0100		0.529	0.5000	0	105.8	85	115	03/14/2024
Zinc		0.0100		0.537	0.5000	0	107.4	85	115	03/14/2024

Batch 219890 SampType: MS Units mg/L

SampID: 24030002-011CMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Barium		0.0025		2.15	2.000	0.05440	104.8	75	125	03/14/2024
Boron		0.0200		0.555	0.5000	0.01230	108.6	75	125	03/14/2024

Batch 219890 SampType: MSD Units mg/L

SampID: 24030002-011CMSD

RPD Limit 20

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Barium		0.0025		2.17	2.000	0.05440	105.8	2.150	0.93	03/14/2024
Boron		0.0200		0.559	0.5000	0.01230	109.4	0.5553	0.74	03/14/2024

Batch 219890 SampType: MS Units mg/L

SampID: 24030922-001BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Boron		0.0200		1.02	0.5000	0.4727	109.4	75	125	03/14/2024



Quality Control Results

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

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24030008

Client Project: Meredosia GW Monitoring Q1 2024

Report Date: 22-Mar-24

SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 219890		SampType: MSD		Units mg/L			RPD Limit 20			
SampID: 24030922-001BMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Boron		0.0200		1.03	0.5000	0.4727	111.1	1.020	0.83	03/14/2024

Batch 219911		SampType: MBLK		Units mg/L						
SampID: MBLK-219911										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Barium		0.0025		< 0.0025	0.0007	0	0	-100	100	03/18/2024
Barium		0.0025		< 0.0025	0.0007	0	0	-100	100	03/14/2024
Beryllium		0.0005		< 0.0005	0.0002	0	0	-100	100	03/18/2024
Beryllium		0.0005		< 0.0005	0.0002	0	0	-100	100	03/14/2024
Boron		0.0200		< 0.0200	0.0090	0	0	-100	100	03/18/2024
Boron		0.0200		< 0.0200	0.0090	0	0	-100	100	03/14/2024
Cadmium		0.0020		< 0.0020	0.0005	0	0	-100	100	03/18/2024
Cadmium		0.0020		< 0.0020	0.0005	0	0	-100	100	03/14/2024
Chromium		0.0050		< 0.0050	0.0028	0	0	-100	100	03/18/2024
Chromium		0.0050		< 0.0050	0.0028	0	0	-100	100	03/14/2024
Cobalt		0.0050		< 0.0050	0.0020	0	0	-100	100	03/18/2024
Cobalt		0.0050		< 0.0050	0.0020	0	0	-100	100	03/14/2024
Copper		0.0050		< 0.0050	0.0013	0	0	-100	100	03/14/2024
Copper		0.0050		< 0.0050	0.0013	0	0	-100	100	03/18/2024
Iron		0.0400		< 0.0400	0.0200	0	0	-100	100	03/14/2024
Iron		0.0400		< 0.0400	0.0200	0	0	-100	100	03/18/2024
Manganese		0.0070		< 0.0070	0.0025	0	0	-100	100	03/14/2024
Manganese		0.0070		< 0.0070	0.0025	0	0	-100	100	03/18/2024
Nickel		0.0050		< 0.0050	0.0016	0	0	-100	100	03/14/2024
Nickel		0.0050		< 0.0050	0.0016	0	0	-100	100	03/18/2024
Selenium		0.0400		< 0.0400	0.0170	0	0	-100	100	03/14/2024
Selenium		0.0400		< 0.0400	0.0170	0	0	-100	100	03/18/2024
Silver		0.0070		< 0.0070	0.0027	0	0	-100	100	03/14/2024
Silver		0.0070		< 0.0070	0.0027	0	0	-100	100	03/18/2024
Vanadium		0.0100		< 0.0100	0.0009	0	0	-100	100	03/14/2024
Vanadium		0.0100		< 0.0100	0.0009	0	0	-100	100	03/18/2024
Zinc		0.0100		< 0.0100	0.0050	0	0	-100	100	03/18/2024
Zinc		0.0100		< 0.0100	0.0050	0	0	-100	100	03/14/2024



Quality Control Results

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

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24030008

Client Project: Meredosia GW Monitoring Q1 2024

Report Date: 22-Mar-24

SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 219911 SampType: LCS Units mg/L

SampID: LCS-219911

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Barium		0.0025		1.84	2.000	0	92.0	85	115	03/14/2024
Barium		0.0025		1.97	2.000	0	98.5	85	115	03/18/2024
Beryllium		0.0005		0.0515	0.0500	0	103.0	85	115	03/18/2024
Beryllium		0.0005		0.0476	0.0500	0	95.2	85	115	03/14/2024
Boron		0.0200		0.488	0.5000	0	97.7	85	115	03/18/2024
Boron		0.0200		0.444	0.5000	0	88.9	85	115	03/14/2024
Cadmium		0.0020		0.0529	0.0500	0	105.8	85	115	03/14/2024
Cadmium		0.0020		0.0507	0.0500	0	101.4	85	115	03/18/2024
Chromium		0.0050		0.180	0.2000	0	90.1	85	115	03/14/2024
Chromium		0.0050		0.195	0.2000	0	97.5	85	115	03/18/2024
Cobalt		0.0050		0.454	0.5000	0	90.8	85	115	03/14/2024
Cobalt		0.0050		0.498	0.5000	0	99.7	85	115	03/18/2024
Copper		0.0050		0.255	0.2500	0	102.0	85	115	03/18/2024
Copper		0.0050		0.228	0.2500	0	91.1	85	115	03/14/2024
Iron		0.0400		1.98	2.000	0	99.1	85	115	03/18/2024
Iron		0.0400		1.89	2.000	0	94.3	85	115	03/14/2024
Manganese		0.0070		0.502	0.5000	0	100.3	85	115	03/18/2024
Manganese		0.0070		0.450	0.5000	0	90.0	85	115	03/14/2024
Nickel		0.0050		0.501	0.5000	0	100.2	85	115	03/18/2024
Nickel		0.0050		0.470	0.5000	0	94.0	85	115	03/14/2024
Selenium		0.0400		0.505	0.5000	0	101.0	85	115	03/18/2024
Selenium		0.0400		0.466	0.5000	0	93.3	85	115	03/14/2024
Silver		0.0070		0.0477	0.0500	0	95.4	85	115	03/18/2024
Silver		0.0070		0.0484	0.0500	0	96.8	85	115	03/14/2024
Vanadium		0.0100		0.485	0.5000	0	96.9	85	115	03/18/2024
Vanadium		0.0100		0.459	0.5000	0	91.8	85	115	03/14/2024
Zinc		0.0100		0.467	0.5000	0	93.3	85	115	03/14/2024
Zinc		0.0100		0.496	0.5000	0	99.1	85	115	03/18/2024



Quality Control Results

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

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24030008

Client Project: Meredosia GW Monitoring Q1 2024

Report Date: 22-Mar-24

SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 219911 SampType: MS Units mg/L

SampID: 24030008-008CMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Barium		0.0025		2.03	2.000	0.06610	98.2	75	125	03/18/2024
Beryllium		0.0005		0.0493	0.0500	0	98.6	75	125	03/14/2024
Boron		0.0200	S	7.05	0.5000	6.729	64.7	75	125	03/18/2024
Cadmium		0.0020		0.0536	0.0500	0	107.2	75	125	03/14/2024
Chromium		0.0050		0.208	0.2000	0.01200	97.8	75	125	03/18/2024
Cobalt		0.0050		0.465	0.5000	0.002900	92.3	75	125	03/14/2024
Copper		0.0050		0.238	0.2500	0.003100	93.9	75	125	03/14/2024
Iron		0.0400		2.36	2.000	0.2851	103.7	75	125	03/14/2024
Manganese		0.0070		0.489	0.5000	0.02440	92.9	75	125	03/14/2024
Nickel		0.0050		0.478	0.5000	0	95.6	75	125	03/14/2024
Selenium		0.0400		0.555	0.5000	0.06340	98.2	75	125	03/18/2024
Silver		0.0070		0.0527	0.0500	0.004600	96.2	75	125	03/14/2024
Vanadium		0.0100		0.478	0.5000	0.0009000	95.5	75	125	03/14/2024
Zinc		0.0100		0.488	0.5000	0	97.6	75	125	03/14/2024

Batch 219911 SampType: MSD Units mg/L

RPD Limit 20

SampID: 24030008-008CMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Barium		0.0025		2.04	2.000	0.06610	98.7	2.030	0.49	03/18/2024
Beryllium		0.0005		0.0490	0.0500	0	98.0	0.04930	0.61	03/14/2024
Boron		0.0200	S	7.05	0.5000	6.729	63.8	7.052	0.06	03/18/2024
Cadmium		0.0020		0.0534	0.0500	0	106.8	0.05360	0.37	03/14/2024
Chromium		0.0050		0.210	0.2000	0.01200	99.0	0.2075	1.15	03/18/2024
Cobalt		0.0050		0.462	0.5000	0.002900	91.8	0.4646	0.56	03/14/2024
Copper		0.0050		0.238	0.2500	0.003100	93.8	0.2378	0.08	03/14/2024
Iron		0.0400		2.34	2.000	0.2851	102.7	2.360	0.85	03/14/2024
Manganese		0.0070		0.482	0.5000	0.02440	91.6	0.4889	1.34	03/14/2024
Nickel		0.0050		0.476	0.5000	0	95.1	0.4781	0.55	03/14/2024
Selenium		0.0400		0.571	0.5000	0.06340	101.5	0.5546	2.90	03/18/2024
Silver		0.0070		0.0518	0.0500	0.004600	94.4	0.05270	1.72	03/14/2024
Vanadium		0.0100		0.476	0.5000	0.0009000	95.0	0.4785	0.52	03/14/2024
Zinc		0.0100		0.486	0.5000	0	97.2	0.4880	0.43	03/14/2024



Quality Control Results

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

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24030008

Client Project: Meredosia GW Monitoring Q1 2024

Report Date: 22-Mar-24

SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 219911 SampType: MS Units mg/L

SampID: 24030991-006AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Barium		0.0025		2.02	2.000	0.06070	98.0	75	125	03/14/2024
Beryllium		0.0005		0.0492	0.0500	0	98.4	75	125	03/14/2024
Boron		0.0200		0.719	0.5000	0.2509	93.6	75	125	03/14/2024
Cadmium		0.0020		0.0525	0.0500	0	105.0	75	125	03/14/2024
Chromium		0.0050		0.189	0.2000	0	94.4	75	125	03/14/2024
Copper		0.0050		0.260	0.2500	0.02140	95.5	75	125	03/14/2024
Iron		0.0400		2.41	2.000	0.3177	104.6	75	125	03/14/2024
Manganese		0.0070		0.528	0.5000	0.06120	93.3	75	125	03/14/2024
Nickel		0.0050		0.475	0.5000	0	95.0	75	125	03/14/2024
Silver		0.0070		0.0510	0.0500	0.003100	95.8	75	125	03/14/2024
Zinc		0.0100		0.531	0.5000	0.04370	97.4	75	125	03/14/2024

Batch 219911 SampType: MSD Units mg/L

RPD Limit **20**

SampID: 24030991-006AMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Barium		0.0025		2.07	2.000	0.06070	100.5	2.020	2.44	03/14/2024
Beryllium		0.0005		0.0509	0.0500	0	101.8	0.04920	3.40	03/14/2024
Boron		0.0200		0.736	0.5000	0.2509	97.1	0.7188	2.41	03/14/2024
Cadmium		0.0020		0.0538	0.0500	0	107.6	0.05250	2.45	03/14/2024
Chromium		0.0050		0.193	0.2000	0	96.3	0.1887	2.05	03/14/2024
Copper		0.0050		0.262	0.2500	0.02140	96.2	0.2601	0.69	03/14/2024
Iron		0.0400		2.41	2.000	0.3177	104.6	2.410	0.00	03/14/2024
Manganese		0.0070		0.544	0.5000	0.06120	96.5	0.5277	2.99	03/14/2024
Nickel		0.0050		0.489	0.5000	0	97.8	0.4750	2.90	03/14/2024
Silver		0.0070		0.0523	0.0500	0.003100	98.4	0.05100	2.52	03/14/2024
Zinc		0.0100		0.537	0.5000	0.04370	98.7	0.5306	1.22	03/14/2024



Quality Control Results

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

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24030008

Client Project: Meredosia GW Monitoring Q1 2024

Report Date: 22-Mar-24

SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 219921 SampType: MBLK Units mg/L

SampID: MBLK-219921

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Barium		0.0025		< 0.0025	0.0007	0	0	-100	100	03/19/2024
Barium		0.0025		< 0.0025	0.0007	0	0	-100	100	03/19/2024
Beryllium		0.0005		< 0.0005	0.0002	0	0	-100	100	03/19/2024
Beryllium		0.0005		< 0.0005	0.0002	0	0	-100	100	03/19/2024
Boron		0.0200		< 0.0200	0.0090	0	0	-100	100	03/19/2024
Boron		0.0200		< 0.0200	0.0090	0	0	-100	100	03/19/2024
Cadmium		0.0020		< 0.0020	0.0005	0	0	-100	100	03/19/2024
Cadmium		0.0020		< 0.0020	0.0005	0	0	-100	100	03/19/2024
Chromium		0.0050		< 0.0050	0.0028	0	0	-100	100	03/19/2024
Chromium		0.0050		< 0.0050	0.0028	0	0	-100	100	03/19/2024
Cobalt		0.0050		< 0.0050	0.0020	0	0	-100	100	03/19/2024
Cobalt		0.0050		< 0.0050	0.0020	0	0	-100	100	03/19/2024
Copper		0.0050		< 0.0050	0.0013	0	0	-100	100	03/19/2024
Copper		0.0050		< 0.0050	0.0013	0	0	-100	100	03/19/2024
Iron		0.0400		< 0.0400	0.0200	0	0	-100	100	03/19/2024
Iron		0.0400		< 0.0400	0.0200	0	0	-100	100	03/19/2024
Manganese		0.0070		< 0.0070	0.0025	0	0	-100	100	03/19/2024
Manganese		0.0070		< 0.0070	0.0025	0	0	-100	100	03/19/2024
Nickel		0.0050		< 0.0050	0.0016	0	0	-100	100	03/19/2024
Nickel		0.0050		< 0.0050	0.0016	0	0	-100	100	03/19/2024
Selenium		0.0400		< 0.0400	0.0170	0	0	-100	100	03/19/2024
Selenium		0.0400		< 0.0400	0.0170	0	0	-100	100	03/19/2024
Silver		0.0070		< 0.0070	0.0027	0	0	-100	100	03/19/2024
Silver		0.0070		< 0.0070	0.0027	0	0	-100	100	03/19/2024
Vanadium		0.0100		< 0.0100	0.0009	0	0	-100	100	03/19/2024
Vanadium		0.0100		< 0.0100	0.0009	0	0	-100	100	03/19/2024
Zinc		0.0100		< 0.0100	0.0050	0	0	-100	100	03/19/2024
Zinc		0.0100		< 0.0100	0.0050	0	0	-100	100	03/19/2024



Quality Control Results

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

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24030008

Client Project: Meredosia GW Monitoring Q1 2024

Report Date: 22-Mar-24

SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 219921 SampType: LCS Units mg/L

SampID: LCS-219921

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Barium		0.0025		1.94	2.000	0	97.2	85	115	03/19/2024
Barium		0.0025		1.87	2.000	0	93.7	85	115	03/19/2024
Beryllium		0.0005		0.0507	0.0500	0	101.4	85	115	03/19/2024
Beryllium		0.0005		0.0537	0.0500	0	107.4	85	115	03/19/2024
Boron		0.0200		0.474	0.5000	0	94.8	85	115	03/19/2024
Boron		0.0200		0.513	0.5000	0	102.6	85	115	03/19/2024
Cadmium		0.0020		0.0476	0.0500	0	95.2	85	115	03/19/2024
Cadmium		0.0020		0.0458	0.0500	0	91.6	85	115	03/19/2024
Chromium		0.0050		0.190	0.2000	0	94.9	85	115	03/19/2024
Chromium		0.0050		0.203	0.2000	0	101.6	85	115	03/19/2024
Cobalt		0.0050		0.521	0.5000	0	104.2	85	115	03/19/2024
Cobalt		0.0050		0.480	0.5000	0	95.9	85	115	03/19/2024
Copper		0.0050		0.260	0.2500	0	103.8	85	115	03/19/2024
Copper		0.0050		0.243	0.2500	0	97.1	85	115	03/19/2024
Iron		0.0400		2.11	2.000	0	105.5	85	115	03/19/2024
Iron		0.0400		1.93	2.000	0	96.4	85	115	03/19/2024
Manganese		0.0070		0.486	0.5000	0	97.3	85	115	03/19/2024
Manganese		0.0070		0.539	0.5000	0	107.8	85	115	03/19/2024
Nickel		0.0050		0.475	0.5000	0	95.1	85	115	03/19/2024
Nickel		0.0050		0.496	0.5000	0	99.3	85	115	03/19/2024
Selenium		0.0400		0.511	0.5000	0	102.2	85	115	03/19/2024
Selenium		0.0400		0.482	0.5000	0	96.4	85	115	03/19/2024
Silver		0.0070		0.0488	0.0500	0	97.6	85	115	03/19/2024
Silver		0.0070		0.0478	0.0500	0	95.6	85	115	03/19/2024
Vanadium		0.0100		0.465	0.5000	0	93.0	85	115	03/19/2024
Vanadium		0.0100		0.481	0.5000	0	96.1	85	115	03/19/2024
Zinc		0.0100		0.475	0.5000	0	95.0	85	115	03/19/2024
Zinc		0.0100		0.495	0.5000	0	98.9	85	115	03/19/2024



Quality Control Results

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

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24030008

Client Project: Meredosia GW Monitoring Q1 2024

Report Date: 22-Mar-24

SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 219921 SampType: MS Units mg/L

SampleID: 24030008-011BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Barium		0.0025		2.01	2.000	0	100.5	75	125	03/19/2024
Beryllium		0.0005		0.0531	0.0500	0.0002000	105.8	75	125	03/19/2024
Boron		0.0200		0.494	0.5000	0	98.8	75	125	03/19/2024
Cadmium		0.0020		0.0497	0.0500	0	99.4	75	125	03/19/2024
Chromium		0.0050		0.198	0.2000	0	99.2	75	125	03/19/2024
Cobalt		0.0050		0.500	0.5000	0	99.9	75	125	03/19/2024
Copper		0.0050		0.255	0.2500	0	102.1	75	125	03/19/2024
Iron		0.0400		2.10	2.000	0	105.0	75	125	03/19/2024
Manganese		0.0070		0.508	0.5000	0	101.6	75	125	03/19/2024
Nickel		0.0050		0.497	0.5000	0	99.4	75	125	03/19/2024
Selenium		0.0400		0.499	0.5000	0	99.7	75	125	03/19/2024
Silver		0.0070		0.0501	0.0500	0	100.2	75	125	03/19/2024
Vanadium		0.0100		0.487	0.5000	0	97.4	75	125	03/19/2024
Zinc		0.0100		0.498	0.5000	0	99.6	75	125	03/19/2024

Batch 219921 SampType: MSD Units mg/L

RPD Limit 20

SampleID: 24030008-011BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Barium		0.0025		1.93	2.000	0	96.6	2.010	3.95	03/19/2024
Beryllium		0.0005		0.0521	0.0500	0.0002000	103.8	0.05310	1.90	03/19/2024
Boron		0.0200		0.488	0.5000	0	97.5	0.4942	1.36	03/19/2024
Cadmium		0.0020		0.0490	0.0500	0	98.0	0.04970	1.42	03/19/2024
Chromium		0.0050		0.195	0.2000	0	97.4	0.1983	1.78	03/19/2024
Cobalt		0.0050		0.492	0.5000	0	98.5	0.4997	1.49	03/19/2024
Copper		0.0050		0.251	0.2500	0	100.2	0.2552	1.82	03/19/2024
Iron		0.0400		1.98	2.000	0	98.9	2.100	5.94	03/19/2024
Manganese		0.0070		0.499	0.5000	0	99.8	0.5080	1.79	03/19/2024
Nickel		0.0050		0.490	0.5000	0	98.1	0.4968	1.30	03/19/2024
Selenium		0.0400		0.500	0.5000	0	99.9	0.4986	0.22	03/19/2024
Silver		0.0070		0.0495	0.0500	0	99.0	0.05010	1.20	03/19/2024
Vanadium		0.0100		0.479	0.5000	0	95.8	0.4871	1.72	03/19/2024
Zinc		0.0100		0.490	0.5000	0	97.9	0.4979	1.70	03/19/2024



Quality Control Results

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

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24030008

Client Project: Meredosia GW Monitoring Q1 2024

Report Date: 22-Mar-24

SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 219921		SampType: MS		Units mg/L							Date Analyzed
SampID: 24031148-001BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Barium		0.0025		4.11	4.000	0.03510	101.9	75	125	03/19/2024	
Beryllium		0.0005		0.110	0.1000	0	110.2	75	125	03/19/2024	
Boron		0.0200		6.09	1.000	4.888	119.8	75	125	03/19/2024	
Selenium		0.0400		0.970	1.000	0	97.0	75	125	03/19/2024	

Batch 219921		SampType: MSD		Units mg/L							RPD Limit 20	Date Analyzed
SampID: 24031148-001BMDS												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Barium		0.0025		3.54	4.000	0.03510	87.6	4.110	14.90	03/19/2024		
Beryllium		0.0005		0.0946	0.1000	0	94.6	0.1102	15.23	03/19/2024		
Boron		0.0200	S	5.26	1.000	4.888	37.0	6.086	14.59	03/19/2024		
Selenium		0.0400		0.854	1.000	0	85.4	0.9698	12.68	03/19/2024		

SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

Batch 219902		SampType: MBLK		Units mg/L							Date Analyzed
SampID: MBLK-219902											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Antimony		0.0010		< 0.0010	0.0004	0	0	-100	100	03/14/2024	
Arsenic		0.0010		< 0.0010	0.0004	0	0	-100	100	03/14/2024	
Lead		0.0010		< 0.0010	0.0006	0	0	-100	100	03/14/2024	
Thallium		0.0020		< 0.0020	0.0010	0	0	-100	100	03/14/2024	

Batch 219902		SampType: LCS		Units mg/L							Date Analyzed
SampID: LCS-219902											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Antimony		0.0010		0.557	0.5000	0	111.5	80	120	03/16/2024	
Arsenic		0.0010		0.528	0.5000	0	105.6	80	120	03/14/2024	
Lead		0.0010		0.473	0.5000	0	94.6	80	120	03/14/2024	
Thallium		0.0020		0.246	0.2500	0	98.4	80	120	03/14/2024	



Quality Control Results

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

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24030008

Client Project: Meredosia GW Monitoring Q1 2024

Report Date: 22-Mar-24

SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

Batch 219902		SampType: MS		Units mg/L							Date Analyzed
SampID: 24030008-006DMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Antimony		0.0010		0.498	0.5000	0	99.7	75	125	03/16/2024	
Arsenic		0.0010		0.473	0.5000	0.0005773	94.4	75	125	03/14/2024	
Lead		0.0010		0.436	0.5000	0	87.2	75	125	03/14/2024	
Thallium		0.0020		0.228	0.2500	0	91.0	75	125	03/14/2024	

Batch 219902		SampType: MSD		Units mg/L							RPD Limit 20	Date Analyzed
SampID: 24030008-006DMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Antimony		0.0010		0.496	0.5000	0	99.2	0.4984	0.53	03/16/2024		
Arsenic		0.0010		0.492	0.5000	0.0005773	98.2	0.4728	3.91	03/14/2024		
Lead		0.0010		0.446	0.5000	0	89.1	0.4361	2.18	03/14/2024		
Thallium		0.0020		0.238	0.2500	0	95.3	0.2276	4.56	03/14/2024		

Batch 220058		SampType: MBLK		Units mg/L							Date Analyzed
SampID: MBLK-220058											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Antimony		0.0010		< 0.0010	0.0004	0	0	-100	100	03/20/2024	
Arsenic		0.0010		< 0.0010	0.0004	0	0	-100	100	03/19/2024	
Lead		0.0010		< 0.0010	0.0006	0	0	-100	100	03/19/2024	
Thallium		0.0020		< 0.0020	0.0010	0	0	-100	100	03/19/2024	

Batch 220058		SampType: LCS		Units mg/L							Date Analyzed
SampID: LCS-220058											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Antimony		0.0010		0.441	0.5000	0	88.3	80	120	03/20/2024	
Arsenic		0.0010		0.464	0.5000	0	92.7	80	120	03/19/2024	
Lead		0.0010		0.435	0.5000	0	87.0	80	120	03/19/2024	
Thallium		0.0020		0.233	0.2500	0	93.3	80	120	03/19/2024	

Batch 220058		SampType: MS		Units mg/L							Date Analyzed
SampID: 24030008-010DMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Antimony		0.0010		0.450	0.5000	0	90.0	75	125	03/20/2024	
Arsenic		0.0010		0.478	0.5000	0.0005180	95.5	75	125	03/19/2024	
Lead		0.0010		0.450	0.5000	0	89.9	75	125	03/19/2024	
Thallium		0.0020		0.238	0.2500	0	95.2	75	125	03/19/2024	



Quality Control Results

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Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24030008

Client Project: Meredosia GW Monitoring Q1 2024

Report Date: 22-Mar-24

SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

Batch 220058		SampType: MSD		Units mg/L			RPD Limit 20			
SampID: 24030008-010DMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Antimony		0.0010		0.467	0.5000	0	93.4	0.4498	3.76	03/20/2024
Arsenic		0.0010		0.475	0.5000	0.0005180	94.9	0.4781	0.67	03/19/2024
Lead		0.0010		0.456	0.5000	0	91.3	0.4496	1.52	03/19/2024
Thallium		0.0020		0.240	0.2500	0	95.9	0.2380	0.71	03/19/2024

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 219890		SampType: MBLK		Units mg/L						
SampID: MBLK-219890										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		0.0010		< 0.0010	0.0004	0	0	-100	100	03/20/2024
Arsenic		0.0010		< 0.0010	0.0004	0	0	-100	100	03/14/2024
Lead		0.0010		< 0.0010	0.0006	0	0	-100	100	03/14/2024
Thallium		0.0020		< 0.0020	0.0010	0	0	-100	100	03/14/2024

Batch 219890 SampType: LCS Units mg/L

SampID: LCS-219890										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		0.0010		0.503	0.5000	0	100.7	80	120	03/20/2024
Arsenic		0.0010		0.526	0.5000	0	105.3	85	115	03/14/2024
Lead		0.0010		0.493	0.5000	0	98.7	85	115	03/14/2024
Thallium		0.0020		0.248	0.2500	0	99.0	85	115	03/14/2024

Batch 219890 SampType: MS Units mg/L

SampID: 24030002-011CMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		0.0010		0.549	0.5000	0	109.8	75	125	03/20/2024
Arsenic		0.0010		0.512	0.5000	0.0005940	102.2	75	125	03/14/2024
Beryllium		0.0010		0.0535	0.0500	0	107.0	75	125	03/14/2024
Cadmium		0.0010		0.0563	0.0500	0	112.5	75	125	03/14/2024
Chromium		0.0015		0.198	0.2000	0.002497	97.7	75	125	03/14/2024
Cobalt		0.0010		0.469	0.5000	0.0003830	93.7	75	125	03/14/2024
Lead		0.0010		0.502	0.5000	0	100.3	75	125	03/14/2024
Selenium		0.0010		0.502	0.5000	0	100.4	75	125	03/15/2024
Thallium		0.0020		0.258	0.2500	0	103.2	75	125	03/14/2024



Quality Control Results

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

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24030008

Client Project: Meredosia GW Monitoring Q1 2024

Report Date: 22-Mar-24

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 219890		SampType: MSD		Units mg/L			RPD Limit 20				Date Analyzed
SampID: 24030002-011CMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Antimony		0.0010		0.536	0.5000	0	107.2	0.5489	2.41	03/20/2024	
Arsenic		0.0010		0.560	0.5000	0.0005940	111.9	0.5115	9.02	03/14/2024	
Beryllium		0.0010		0.0534	0.0500	0	106.9	0.05350	0.12	03/14/2024	
Cadmium		0.0010		0.0583	0.0500	0	116.5	0.05627	3.47	03/14/2024	
Chromium		0.0015		0.199	0.2000	0.002497	98.5	0.1980	0.76	03/14/2024	
Cobalt		0.0010		0.473	0.5000	0.0003830	94.5	0.4691	0.80	03/14/2024	
Lead		0.0010		0.502	0.5000	0	100.4	0.5017	0.06	03/14/2024	
Selenium		0.0010		0.523	0.5000	0	104.6	0.5022	4.08	03/15/2024	
Thallium		0.0020		0.253	0.2500	0	101.2	0.2580	1.99	03/14/2024	

Batch 219911		SampType: MBLK		Units mg/L							Date Analyzed
SampID: MBLK-219911											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Antimony		0.0010		< 0.0010	0.0004	0	0	-100	100	03/20/2024	
Arsenic		0.0010		< 0.0010	0.0004	0	0	-100	100	03/15/2024	
Lead		0.0010		< 0.0010	0.0006	0	0	-100	100	03/15/2024	
Selenium		0.0010		< 0.0010	0.0006	0	0	-100	100	03/15/2024	
Thallium		0.0020		< 0.0020	0.0010	0	0	-100	100	03/15/2024	

Batch 219911		SampType: LCS		Units mg/L							Date Analyzed
SampID: LCS-219911											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Antimony		0.0010		0.536	0.5000	0	107.2	80	120	03/20/2024	
Arsenic		0.0010		0.563	0.5000	0	112.5	85	115	03/15/2024	
Lead		0.0010	E	0.511	0.5000	0	102.3	85	115	03/15/2024	
Selenium		0.0010		0.533	0.5000	0	106.6	85	115	03/15/2024	
Thallium		0.0020		0.264	0.2500	0	105.7	85	115	03/18/2024	

Batch 219911		SampType: MS		Units mg/L							Date Analyzed
SampID: 24030008-008CMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Antimony		0.0010		0.571	0.5000	0	114.1	75	125	03/20/2024	
Arsenic		0.0010		0.551	0.5000	0.002181	109.9	75	125	03/16/2024	
Lead		0.0010		0.487	0.5000	0	97.5	75	125	03/16/2024	
Thallium		0.0020		0.259	0.2500	0	103.5	75	125	03/18/2024	



Quality Control Results

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

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24030008

Client Project: Meredosia GW Monitoring Q1 2024

Report Date: 22-Mar-24

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 219911		SampType: MSD		Units mg/L				RPD Limit 20			Date Analyzed
SampID: 24030008-008CMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Antimony		0.0010		0.586	0.5000	0	117.2	0.5706	2.63	03/20/2024	
Arsenic		0.0010		0.564	0.5000	0.002181	112.4	0.5515	2.24	03/16/2024	
Lead		0.0010		0.495	0.5000	0	99.0	0.4874	1.51	03/16/2024	
Thallium		0.0020		0.261	0.2500	0	104.5	0.2588	0.93	03/18/2024	

Batch 219911		SampType: MS		Units mg/L				RPD Limit 20		Date Analyzed
SampID: 24030991-006AMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Selenium		0.0010		0.501	0.5000	0	100.2	70	130	03/16/2024

Batch 219911		SampType: MSD		Units mg/L				RPD Limit 20			Date Analyzed
SampID: 24030991-006AMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Selenium		0.0010		0.541	0.5000	0	108.3	0.5012	7.69	03/16/2024	

Batch 219921		SampType: MBLK		Units mg/L				RPD Limit 20		Date Analyzed
SampID: MBLK-219921										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		0.0010		< 0.0010	0.0004	0	0	-100	100	03/21/2024
Arsenic		0.0010		< 0.0010	0.0004	0	0	-100	100	03/19/2024
Lead		0.0010		< 0.0010	0.0006	0	0	-100	100	03/19/2024
Thallium		0.0020		< 0.0020	0.0010	0	0	-100	100	03/21/2024

Batch 219921		SampType: LCS		Units mg/L				RPD Limit 20		Date Analyzed
SampID: LCS-219921										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		0.0010		0.432	0.5000	0	86.4	80	120	03/21/2024
Arsenic		0.0010		0.502	0.5000	0	100.5	80	120	03/19/2024
Lead		0.0010		0.461	0.5000	0	92.2	80	120	03/19/2024
Thallium		0.0020		0.210	0.2500	0	83.8	80	120	03/21/2024



Quality Control Results

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

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24030008

Client Project: Meredosia GW Monitoring Q1 2024

Report Date: 22-Mar-24

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 219921		SampType: MS		Units mg/L							Date Analyzed
SampID: 24030008-011BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Antimony		0.0010		0.529	0.5000	0.001346	105.5	75	125	03/22/2024	
Arsenic		0.0010		0.524	0.5000	0	104.9	75	125	03/19/2024	
Lead		0.0010		0.486	0.5000	0	97.1	75	125	03/19/2024	
Thallium		0.0020		0.197	0.2500	0	78.7	75	125	03/22/2024	

Batch 219921		SampType: MSD		Units mg/L							RPD Limit 20	Date Analyzed
SampID: 24030008-011BMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Antimony		0.0010		0.602	0.5000	0.001346	120.2	0.5287	13.04	03/22/2024		
Arsenic		0.0010		0.488	0.5000	0	97.6	0.5245	7.18	03/19/2024		
Lead		0.0010		0.476	0.5000	0	95.2	0.4856	2.05	03/19/2024		
Thallium		0.0020		0.210	0.2500	0	83.9	0.1967	6.45	03/22/2024		

Batch 219921		SampType: MS		Units mg/L							Date Analyzed
SampID: 24031148-001BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Arsenic		0.0010		1.01	1.000	0.05907	95.4	75	125	03/19/2024	

Batch 219921		SampType: MSD		Units mg/L							RPD Limit 20	Date Analyzed
SampID: 24031148-001BMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Arsenic		0.0010		0.881	1.000	0.05907	82.1	1.013	14.02	03/19/2024		

SW-846 7470A (DISSOLVED)

Batch 219964		SampType: MS		Units mg/L							Date Analyzed
SampID: 24030008-001DMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.00020		0.00427	0.0050	0	85.4	75	125	03/15/2024	

Batch 219964		SampType: MSD		Units mg/L							RPD Limit 15	Date Analyzed
SampID: 24030008-001DMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Mercury		0.00020		0.00403	0.0050	0	80.7	0.004268	5.63	03/15/2024		



Quality Control Results

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

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24030008

Client Project: Meredosia GW Monitoring Q1 2024

Report Date: 22-Mar-24

SW-846 7470A (DISSOLVED)

Batch 219971		SampType: MS		Units mg/L							Date Analyzed
SampID: 24030008-010DMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.00020		0.00481	0.0050	0	96.1	75	125	03/18/2024	

Batch 219971		SampType: MSD		Units mg/L							RPD Limit 15	Date Analyzed
SampID: 24030008-010DMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Mercury		0.00020		0.00492	0.0050	0	98.5	0.004807	2.40	03/18/2024		

SW-846 7470A (TOTAL)

Batch 219964		SampType: MBLK		Units mg/L							Date Analyzed
SampID: MBLK-219964											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.00020		< 0.00020	0.0001	0	0	-100	100	03/18/2024	

Batch 219964		SampType: LCS		Units mg/L							Date Analyzed
SampID: LCS-219964											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.00020		0.00541	0.0050	0	108.1	85	115	03/18/2024	

Batch 219964		SampType: MS		Units mg/L							Date Analyzed
SampID: 24030008-010CMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.00020		0.00547	0.0050	0	109.4	75	125	03/18/2024	

Batch 219964		SampType: MSD		Units mg/L							RPD Limit 15	Date Analyzed
SampID: 24030008-010CMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Mercury		0.00020		0.00547	0.0050	0	109.4	0.005470	0.02	03/18/2024		

Batch 219971		SampType: MBLK		Units mg/L							Date Analyzed
SampID: MBLK-219971											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.00020		< 0.00020	0.0001	0	0	-100	100	03/18/2024	



Quality Control Results

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

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24030008

Client Project: Meredosia GW Monitoring Q1 2024

Report Date: 22-Mar-24

SW-846 7470A (TOTAL)

Batch 219971		SampType: LCS		Units mg/L							Date Analyzed
SampID: LCS-219971											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.00020		0.00567	0.0050	0	113.4	85	115	03/19/2024	

Batch 219971		SampType: MS		Units mg/L							Date Analyzed
SampID: 24031115-003BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.00020		0.00476	0.0050	0	95.3	75	125	03/18/2024	

Batch 219971		SampType: MSD		Units mg/L							RPD Limit 15	Date Analyzed
SampID: 24031115-003BMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Mercury		0.00020		0.00474	0.0050	0	94.9	0.004763	0.40	03/18/2024		

Batch 220247		SampType: MBLK		Units mg/L							Date Analyzed
SampID: MBLK-220247											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.00020		< 0.00020	0.0001	0	0	-100	100	03/22/2024	

Batch 220247		SampType: LCS		Units mg/L							Date Analyzed
SampID: LCS-220247											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.00020		0.00505	0.0050	0	101.0	85	115	03/22/2024	



Receiving Check List

http://www.teklabinc.com/

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24030008

Client Project: Meredosia GW Monitoring Q1 2024

Report Date: 22-Mar-24

Carrier: Justin Colp

Received By: LEH

Completed by:

Paul Schultz

Reviewed by:

Elizabeth A. Hurley

On:

14-Mar-24

Paul Schultz

On:

14-Mar-24

Elizabeth A. Hurley

Pages to follow: Chain of custody 6

Extra pages included 0

- Shipping container/cooler in good condition? Yes [checked] No [] Not Present [] Temp °C 5.5
Type of thermal preservation? None [] Ice [checked] Blue Ice [] Dry Ice []
Chain of custody present? Yes [checked] No []
Chain of custody signed when relinquished and received? Yes [checked] No []
Chain of custody agrees with sample labels? Yes [checked] No []
Samples in proper container/bottle? Yes [checked] No []
Sample containers intact? Yes [checked] No []
Sufficient sample volume for indicated test? Yes [checked] No []
All samples received within holding time? Yes [checked] No []
Reported field parameters measured: Field [checked] Lab [] NA []
Container/Temp Blank temperature in compliance? Yes [checked] 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 [checked]
Water - TOX containers have zero headspace? Yes [] No [] No TOX containers [checked]
Water - pH acceptable upon receipt? Yes [] No [checked] NA []
NPDES/CWA TCN interferences checked/treated in the field? Yes [] No [checked] NA []

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

pH strip #96651/89660. - LH/ehurley - 3/12/24

Samples were received on 3/13/24 at 15:35 on ice [0.1C - LTG#7]. - LH/pschultz - 3/13/2024 4:00:41 PM

Additional Nitric Acid (96331) was needed in APW3 upon arrival at the laboratory. Additional Sodium Hydroxide (95443) was needed in APW2 and APW3 upon arrival at the laboratory. - LH/pschultz - 3/13/2024 4:01:32 PM

pH strip #96651/89660. - LH/pschultz - 3/13/2024 4:02:54 PM

Samples were received on 3/14/24 at 15:00 on ice [3.9C - LTG#7]. - ES/pschultz - 3/14/2024 3:36:23 PM

pH strip #96651/89660. - ES/pschultz - 3/14/2024 3:37:15 PM

Additional Nitric Acid (96331) and Sodium Hydroxide (95443) were needed upon arrival at the laboratory. - ES/pschultz - 3/14/2024 3:37:42 PM

CHAIN OF CUSTODY

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

Client: AmerenEnergy Medina Valley Cogen, LLC
Address: 1901 Chouteau Avenue
City / State / Zip: St. Louis, MO 63166-6892
Contact: Meghan Maxwell **Phone:** (314) 554-4581
E-Mail: mkohlbusch2@ameren.com **Fax:**

Samples on: ICE BLUE ICE NO ICE 5.5 °C **LTG#** 7
Preserved in: LAB **FIELD** **FOR LAB USE ONLY**
Lab Notes: pH 9.0651/89660 L# 3/12/24

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

Client Comments
 Total Metals: ICP 6010 Ba Be B Cd Cr Co Cu Fe Mn Ni Se Ag V Zn, ICP/MS 6020 Sb As Pb Ti, And Hg
 Dissolved Metals: ICP 6010 Ba Be B Cd Cr Co Cu Fe Mn Ni Se Ag V Zn, ICP/MS 6020 Sb As Pb Ti, And Hg

Project Name/Number				Sample Collector's Name				MATRIX		INDICATE ANALYSIS REQUESTED															
Meredosia GW Monitoring Q1 2024				Justin Golp				Groundwater		Chloride, Dissolved	Cyanide, Total	Dissolved Metals	Field Conductivity	Field DO	Field Elevations	Field ORP	Field pH	Field Temperature	Field Turbidity	Fluoride, Dissolved	Nitrate, Dissolved	Sulfate, Dissolved	TDS, Dissolved	Total Metals	
Results Requested		Billing Instructions		# and Type of Containers																					
<input checked="" type="checkbox"/> Standard <input type="checkbox"/> 1-2 Day (100% Surcharge)	<input type="checkbox"/> Other <input type="checkbox"/> 3 Day (50% Surcharge)			UNP	HNO3	NaOH																			
Lab Use Only	Sample Identification			Date/Time Sampled																					
24030008-001	APW-1							2	2	1															
002	APW-2							2	2	1															
003	APW-3							2	2	1															
004	APW-4			3-12-24 / 1317				2	2	1															
005	APW-5							2	2	1															
006	APW-6			3-12-24 / 1156				2	2	1															
007	APW-7			3-12-24 / 1224				2	2	1															
008	APW-8							2	2	1															
009	APW-9							2	2	1															
010	APW-1 DUP							2	2	1															

Relinquished By		Date/Time		Received By		Date/Time	
J. Golp		3-12-24 / 1530		Tommy Skerson		3/12/24 1530	

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: 86652



CHAIN OF CUSTODY

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

Client: AmerenEnergy Medina Valley Cogen, LLC
Address: 1901 Chouteau Avenue
City / State / Zip: St. Louis, MO 63166-6892
Contact: Meghan Maxwell **Phone:** (314) 554-4581
E-Mail: mkohlbusch2@ameren.com **Fax:**

Samples on: ICE BLUE ICE NO ICE 5.5 °C LTG# 7
Preserved in: LAB FIELD **FOR LAB USE ONLY**
Lab Notes:

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

Client Comments
 Total Metals: ICP 6010 Ba Be B Cd Cr Co Cu Fe Mn Ni Se Ag V Zn, ICP/MS 6020 Sb As Pb Tl, And Hg
 Dissolved Metals: ICP 6010 Ba Be B Cd Cr Co Cu Fe Mn Ni Se Ag V Zn, ICP/MS 6020 Sb As Pb Tl, And Hg

Project Name/Number		Sample Collector's Name	
Meredosia GW Monitoring Q1 2024		J. Colp	
Results Requested		Billing Instructions	
<input type="checkbox"/> Standard <input type="checkbox"/> 1-2 Day (100% Surcharge) <input type="checkbox"/> Other <input type="checkbox"/> 3 Day (50% Surcharge)			
Lab Use Only		# and Type of Containers	
Sample Identification		Date/Time Sampled	
		UNP	HNO3
		NaOH	

MATRIX	INDICATE ANALYSIS REQUESTED														
	Chloride, Dissolved	Cyanide, Total	Dissolved Metals	Field Conductivity	Field DO	Field Elevations	Field ORP	Field pH	Field Temperature	Field Turbidity	Fluoride, Dissolved	Nitrate, Dissolved	Sulfate, Dissolved	TDS, Dissolved	Total Metals
Groundwater	X	X	X								X	X	X	X	X
	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Relinquished By	Date/Time	Received By	Date/Time
Justin Colp	3-12-24 / 1530	[Signature]	3/12/24 1530

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

Client: AmerenEnergy Medina Valley Cogen, LLC
Address: 1901 Chouteau Avenue
City / State / Zip: St. Louis, MO 63166-6892
Contact: Meghan Maxwell **Phone:** (314) 554-4581
E-Mail: mkohlbusch2@ameren.com **Fax:**

Samples on: ICE BLUE ICE NO ICE 0.1 °C LTG# 7
Preserved in: LAB FIELD **FOR LAB USE ONLY**
Lab Notes: pH 9.665/89660 added HNO3(9633) to APW3 added NaOH(95443) to APW2, APW3 L# 3/13/24

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

Client Comments
 Total Metals: ICP 6010 Ba Be B Cd Cr Co Cu Fe Mn Ni Se Ag V Zn, ICP/MS 6020 Sb As Pb Tl, And Hg
 Dissolved Metals: ICP 6010 Ba Be B Cd Cr Co Cu Fe Mn Ni Se Ag V Zn, ICP/MS 6020 Sb As Pb Tl, And Hg

Project Name/Number: Meredostia GW Monitoring Q1 2024
Sample Collector's Name: Justin Golo

Results Requested
 Standard 1-2 Day (100% Surcharge)
 Other 3 Day (50% Surcharge)

Billing Instructions

and Type of Containers

MATRIX **INDICATE ANALYSIS REQUESTED**

Lab Use Only	Sample Identification	Date/Time Sampled	# and Type of Containers			Groundwater	Chloride, Dissolved	Cyanide, Total	Dissolved Metals	Field Conductivity	Field DO	Field Elevations	Field ORP	Field pH	Field Temperature	Field Turbidity	Fluoride, Dissolved	Nitrate, Dissolved	Sulfate, Dissolved	TDS, Dissolved	Total Metals
			UNP	HNO3	NaOH																
24030008-001	APW-1		2	2	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
002	APW-2	3-13-24 / 1207	2	2	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
003	APW-3	3-13-24 / 1123	2	2	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
004	APW-4		2	2	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
005	APW-5		2	2	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
006	APW-6		2	2	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
007	APW-7		2	2	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
008	APW-8	3-13-24 / 1250	2	2	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
009	APW-9		2	2	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
010	APW-1 DUP		2	2	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Groundwater	Chloride, Dissolved	Cyanide, Total	Dissolved Metals	Field Conductivity	Field DO	Field Elevations	Field ORP	Field pH	Field Temperature	Field Turbidity	Fluoride, Dissolved	Nitrate, Dissolved	Sulfate, Dissolved	TDS, Dissolved	Total Metals

Relinquished By	Date/Time	Received By	Date/Time
J Golo	3-13-24 / 1535	Zandbergen	3/13/24 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.

BottleOrder: 86652



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

Client: AmerenEnergy Medina Valley Cogen, LLC
Address: 1901 Chouteau Avenue
City / State / Zip: St. Louis, MO 63166-6892
Contact: Meghan Maxwell **Phone:** (314) 554-4581
E-Mail: mkohlbusch2@ameren.com **Fax:**

Samples on: ICE BLUE ICE NO ICE 0.1 °C LTG# 7
Preserved in: LAB FIELD **FOR LAB USE ONLY**
Lab Notes:

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

Client Comments
 Total Metals: ICP 6010 Ba Be B Cd Cr Co Cu Fe Mn Ni Se Ag V Zn, ICP/MS 6020 Sb As Pb Tl, And Hg
 Dissolved Metals: ICP 6010 Ba Be B Cd Cr Co Cu Fe Mn Ni Se Ag V Zn, ICP/MS 6020 Sb As Pb Tl, And Hg

Project Name/Number			Sample Collector's Name				MATRIX		INDICATE ANALYSIS REQUESTED														
Meredosia GW Monitoring Q1 2024			Justin Colp				Groundwater		Chloride, Dissolved	Cyanide, Total	Dissolved Metals	Field Conductivity	Field DO	Field Elevations	Field ORP	Field pH	Field Temperature	Field Turbidity	Fluoride, Dissolved	Nitrate, Dissolved	Sulfate, Dissolved	TDS, Dissolved	Total Metals
Results Requested	Billing Instructions	# and Type of Containers																					
<input type="checkbox"/> Standard <input type="checkbox"/> 1-2 Day (100% Surcharge) <input type="checkbox"/> Other <input type="checkbox"/> 3 Day (50% Surcharge)		UNP	HNO3	NaOH																			
Lab Use Only	Sample Identification	Date/Time Sampled																					
24030008-011	Field Blank		1	2	1																		
012	APW-10	3-13-24 / 1523	2	2	1																		
013	APW-11		2	2	1																		
014	APW-12	3-13-24 / 1028	2	2	1																		
015	APW-13		2	2	1																		
016	APW-14		2	2	1																		

Relinquished By	Date/Time	Received By	Date/Time
J. Colp	3-13-24 / 1535	[Signature]	3/13/24 1535

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BottleOrder: 86652



CHAIN OF CUSTODY

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

Client: AmerenEnergy Medina Valley Cogen, LLC	Samples on: <input checked="" type="checkbox"/> ICE <input type="checkbox"/> BLUE ICE <input type="checkbox"/> NO ICE 3.9 °C LTG# 7
Address: 1901 Chouteau Avenue	Preserved in: <input checked="" type="checkbox"/> LAB <input type="checkbox"/> FIELD FOR LAB USE ONLY
City / State / Zip: St. Louis, MO 63166-8892	Lab Notes: phr 90651 and 89660 - added HNO3 to samples (96331) and NaOH to sample (95443) ES 3/4/24
Contact: Meghan Maxwell Phone: (314) 554-4581	Client Comments:
E-Mail: mkohlbusch2@ameren.com Fax:	Total Metals: ICP 6010 Ba Be B Cd Cr Co Cu Fe Mn Ni Se Ag V Zn, ICP/MS 6020 Sb As Pb Tl, And 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

Project Name/Number		Sample Collector's Name		MATRIX		INDICATE ANALYSIS REQUESTED																
Meredosia GW Monitoring Q1 2024		Justin Colp		Groundwater								Field ORP	Field pH	Field Temperature	Field Turbidity	Fluoride, Dissolved	Nitrate, Dissolved	Sulfate, Dissolved	TDS, Dissolved	Total Metals		
Results Requested		Billing Instructions																			# and Type of Containers	
Lab Use Only	Sample Identification	Date/Time Sampled	UNP	HNO3	NaOH																	
24030008-DD1	APW-1	3-14-24/1136	2	2	1							X	X	X	X	X	X	X	X	X	X	X
DD2	APW-2		2	2	1							X	X	X	X	X	X	X	X	X	X	X
DD3	APW-3		2	2	1							X	X	X	X	X	X	X	X	X	X	X
DD4	APW-4		2	2	1							X	X	X	X	X	X	X	X	X	X	X
DD5	APW-5	3-14-24/1212	2	2	1							X	X	X	X	X	X	X	X	X	X	X
DD6	APW-6		2	2	1							X	X	X	X	X	X	X	X	X	X	X
DD7	APW-7		2	2	1							X	X	X	X	X	X	X	X	X	X	X
DD8	APW-8		2	2	1							X	X	X	X	X	X	X	X	X	X	X
DD9	APW-9	3-14-24/1012	2	2	1							X	X	X	X	X	X	X	X	X	X	X
DD10	APW-1 DUP	3-14-24/1136	2	2	1							X	X	X	X	X	X	X	X	X	X	X
Relinquished By		Date/Time		Received By		Date/Time																
J. Colp		3-14-24 / 1500		Emily Sackett		3/14/24 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.

BottleOrder: 86652



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

Client: AmerenEnergy Medina Valley Cogen, LLC
Address: 1901 Chouteau Avenue
City / State / Zip: St. Louis, MO 63166-6892
Contact: Meghan Maxwell **Phone:** (314) 554-4581
E-Mail: mkohibusch2@ameren.com **Fax:** _____

Samples on: ICE BLUE ICE NO ICE 3.9 °C **LTG#** 7
Preserved in: LAB FIELD **FOR LAB USE ONLY**
Lab Notes: _____

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

Client Comments
 Total Metals: ICP 6010 Ba Be B Cd Cr Co Cu Fe Mn Ni Se Ag V Zn, ICP/MS 6020 Sb As Pb Tl, And Hg
 Dissolved Metals: ICP 6010 Ba Be B Cd Cr Co Cu Fe Mn Ni Se Ag V Zn, ICP/MS 6020 Sb As Pb Tl, And Hg

Project Name/Number: Meredosia GW Monitoring Q1 2024
Sample Collector's Name: Justin Gelp

Results Requested: Standard 1-2 Day (100% Surcharge) Other 3 Day (50% Surcharge)
Billing Instructions: _____
and Type of Containers:

UNP	HNO3	NaOH					
1	2	1					
2	2	1					
2	2	1					
2	2	1					
2	2	1					
2	2	1					

MATRIX	INDICATE ANALYSIS REQUESTED														
	Chloride, Dissolved	Cyanide, Total	Dissolved Metals	Field Conductivity	Field DO	Field Elevations	Field ORP	Field pH	Field Temperature	Field Turbidity	Fluoride, Dissolved	Nitrate, Dissolved	Sulfate, Dissolved	TDS, Dissolved	Total Metals
Groundwater	X	X	X								X	X	X	X	X
	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Lab Use Only	Sample Identification	Date/Time Sampled	UNP	HNO3	NaOH									
24030008-011	Field Blank	3-14-24 / 1205	1	2	1									
012	APW-10		2	2	1									
013	APW-11	3-14-24 / 1039	2	2	1									
014	APW-12		2	2	1									
015	APW-13		2	2	1									
016	APW-14		2	2	1									

Relinquished By: J. Gelp **Date/Time:** 3-14-24 / 1500

Received By: Emily Lockett **Date/Time:** 3/14/24 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.

EXHIBIT 2

June 21, 2024

Annie Muehlfarth
AmerenEnergy Medina Valley Cogen, LLC
1901 Chouteau Avenue
PO Box 66149, MC602
St. Louis, MO 63166-6892
TEL: (314) 437-6552
FAX:



Illinois	100226
Illinois	1004652024-2
Kansas	E-10374
Louisiana	05002
Louisiana	05003
Oklahoma	9978

RE: Meredosia GW Monitoring Q2 2024

WorkOrder: 24051908

Dear Annie Muehlfarth:

TEKLAB, INC received 16 samples on 6/12/2024 2:40:00 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,



Elizabeth A. Hurley
Director of Customer Service
(618)344-1004 ex 33
ehurley@teklabinc.com



Report Contents

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

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24051908

Client Project: Meredosia GW Monitoring Q2 2024

Report Date: 21-Jun-24

This reporting package includes the following:

Cover Letter	1
Report Contents	2
Definitions	3
Case Narrative	5
Accreditations	6
Laboratory Results	7
Quality Control Results	35
Receiving Check List	78
Chain of Custody	Appended

Definitions

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24051908

Client Project: Meredosia GW Monitoring Q2 2024

Report Date: 21-Jun-24

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

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

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24051908

Client Project: Meredosia GW Monitoring Q2 2024

Report Date: 21-Jun-24

Qualifiers

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



Case Narrative

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

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24051908

Client Project: Meredosia GW Monitoring Q2 2024

Report Date: 21-Jun-24

Cooler Receipt Temp: 10.6 °C

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

APW-13 and APW-14 could not be collected; the wells were dry.

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
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Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24051908

Client Project: Meredosia GW Monitoring Q2 2024

Report Date: 21-Jun-24

State	Dept	Cert #	NELAP	Exp Date	Lab
Illinois	IEPA	100226	NELAP	1/31/2025	Collinsville
Illinois	IEPA	1004652024-2	NELAP	4/30/2025	Collinsville
Kansas	KDHE	E-10374	NELAP	4/30/2025	Collinsville
Louisiana	LDEQ	05002	NELAP	6/30/2024	Collinsville
Louisiana	LDEQ	05003	NELAP	6/30/2024	Collinsville
Oklahoma	ODEQ	9978	NELAP	8/31/2024	Collinsville
Arkansas	ADEQ	88-0966		3/14/2025	Collinsville
Illinois	IDPH	17584		5/31/2025	Collinsville
Iowa	IDNR	430		6/1/2026	Collinsville
Kentucky	UST	0073		1/31/2025	Collinsville
Mississippi	MSDH			4/30/2025	Collinsville
Missouri	MDNR	930		1/31/2025	Collinsville
Missouri	MDNR	00930		10/31/2026	Collinsville



Laboratory Results

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24051908

Client Project: Meredosia GW Monitoring Q2 2024

Report Date: 21-Jun-24

Lab ID: 24051908-001

Client Sample ID: APW-1

Matrix: GROUNDWATER

Collection Date: 06/10/2024 11:52

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		421.22	ft	1	06/10/2024 11:52	R348845
Depth to water	*	-5.00		15.30	ft	1	06/10/2024 11:52	R348845
Depth to water from measuring point	*	0		18.50	ft	1	06/10/2024 11:52	R348845
Elevation of groundwater surface	*	0		430.76	ft	1	06/10/2024 11:52	R348845
Measuring Point Elevation	*	0		449.26	ft	1	06/10/2024 11:52	R348845
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		12	NTU	1	06/10/2024 11:52	R348845
STANDARD METHODS 18TH ED. 2580 B FIELD								
Oxidation-Reduction Potential	*	-300		58	mV	1	06/10/2024 11:52	R348845
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		16.0	°C	1	06/10/2024 11:52	R348845
STANDARD METHODS 4500-O G FIELD								
Oxygen, Dissolved	*	0		4.01	mg/L	1	06/10/2024 11:52	R348845
SW-846 9040B								
pH, Field	*	1.00		6.97		1	06/10/2024 11:52	R348845
SW-846 9050A								
Spec. Conductance, Field	*	1.00		510	µmhos/cm@25C	1	06/10/2024 11:52	R348845
STANDARD METHODS 2540 C (DISSOLVED) 1997, 2011								
Total Dissolved Solids	NELAP	20		290	mg/L	1	06/11/2024 8:07	R348654
STANDARD METHODS 4500-NO3 F (DISSOLVED) 2000, 2011								
Nitrogen, Nitrate (as N)	NELAP	0.250		1.86	mg/L	1	06/11/2024 17:32	R348600
SW-846 9012A (TOTAL)								
Cyanide	NELAP	0.005		< 0.005	mg/L	1	06/12/2024 12:12	224226
SW-846 9036 (DISSOLVED)								
Sulfate	NELAP	10		13	mg/L	1	06/13/2024 21:44	R348727
SW-846 9214 (DISSOLVED)								
Fluoride	NELAP	0.10		0.27	mg/L	1	06/11/2024 10:03	R348588
SW-846 9251 (DISSOLVED)								
Chloride	NELAP	20		63	mg/L	5	06/13/2024 12:28	R348775
SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)								
Barium	NELAP	0.0025		0.0115	mg/L	1	06/11/2024 15:05	224183
Beryllium	NELAP	0.0005		< 0.0005	mg/L	1	06/11/2024 15:05	224183
Boron	NELAP	0.020	J	0.018	mg/L	1	06/11/2024 15:05	224183
Cadmium	NELAP	0.0020		< 0.0020	mg/L	1	06/11/2024 15:05	224183
Chromium	NELAP	0.0050		< 0.0050	mg/L	1	06/11/2024 15:05	224183
Cobalt	NELAP	0.0050		< 0.0050	mg/L	1	06/11/2024 15:05	224183
Copper	NELAP	0.0050		< 0.0050	mg/L	1	06/11/2024 15:05	224183
Iron	NELAP	0.0400		< 0.0400	mg/L	1	06/11/2024 15:05	224183
Manganese	NELAP	0.0070		0.0238	mg/L	1	06/11/2024 15:05	224183
Nickel	NELAP	0.0050		< 0.0050	mg/L	1	06/11/2024 15:05	224183
Selenium	NELAP	0.0400		< 0.0400	mg/L	1	06/11/2024 15:05	224183
Silver	NELAP	0.0070		< 0.0070	mg/L	1	06/11/2024 15:05	224183
Vanadium	NELAP	0.0100		< 0.0100	mg/L	1	06/11/2024 15:05	224183
Zinc	NELAP	0.0100		< 0.0100	mg/L	1	06/11/2024 15:05	224183



Laboratory Results

Client: AmerenEnergy Medina Valley Cogen, LLC
Client Project: Meredosia GW Monitoring Q2 2024
Lab ID: 24051908-001
Matrix: GROUNDWATER

Work Order: 24051908
Report Date: 21-Jun-24

Client Sample ID: APW-1

Collection Date: 06/10/2024 11:52

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		0.0184	mg/L	1	06/12/2024 16:20	224240
Beryllium	NELAP	0.0005		< 0.0005	mg/L	1	06/12/2024 16:20	224240
Boron	NELAP	0.0200		0.0365	mg/L	1	06/12/2024 16:20	224240
Cadmium	NELAP	0.0020		< 0.0020	mg/L	1	06/12/2024 16:20	224240
Chromium	NELAP	0.0050		< 0.0050	mg/L	1	06/12/2024 16:20	224240
Cobalt	NELAP	0.0050		< 0.0050	mg/L	1	06/12/2024 16:20	224240
Copper	NELAP	0.0050	J	0.0035	mg/L	1	06/12/2024 16:20	224240
Iron	NELAP	0.0400		0.914	mg/L	1	06/12/2024 16:20	224240
Manganese	NELAP	0.0070		0.118	mg/L	1	06/12/2024 16:20	224240
Nickel	NELAP	0.0050	J	0.0036	mg/L	1	06/12/2024 16:20	224240
Selenium	NELAP	0.0400		< 0.0400	mg/L	1	06/12/2024 16:20	224240
Silver	NELAP	0.0070		< 0.0070	mg/L	1	06/12/2024 16:20	224240
Vanadium	NELAP	0.010	J	0.0021	mg/L	1	06/12/2024 16:20	224240
Zinc	NELAP	0.0100		< 0.0100	mg/L	1	06/12/2024 16:20	224240
SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)								
Antimony	NELAP	0.0010		< 0.0010	mg/L	5	06/12/2024 11:53	224183
Arsenic	NELAP	0.0010		< 0.0010	mg/L	5	06/12/2024 11:53	224183
Lead	NELAP	0.0010		< 0.0010	mg/L	5	06/12/2024 11:53	224183
Thallium	NELAP	0.0020		< 0.0020	mg/L	5	06/12/2024 11:53	224183
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010	BJ	0.0006	mg/L	5	06/13/2024 11:05	224240
Arsenic	NELAP	0.0010	J	0.0010	mg/L	5	06/13/2024 11:05	224240
Lead	NELAP	0.0010	BJ	0.0008	mg/L	5	06/13/2024 11:05	224240
Thallium	NELAP	0.0020		< 0.0020	mg/L	5	06/14/2024 11:29	224240
<i>Contamination present in the MBLK. Sample results below the reporting limit are reportable per the TNI Standard.</i>								
SW-846 7470A (DISSOLVED)								
Mercury	NELAP	0.00020		< 0.00020	mg/L	1	06/12/2024 13:04	224207
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		< 0.00020	mg/L	1	06/12/2024 12:50	224207



Laboratory Results

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24051908

Client Project: Meredosia GW Monitoring Q2 2024

Report Date: 21-Jun-24

Lab ID: 24051908-002

Client Sample ID: APW-2

Matrix: GROUNDWATER

Collection Date: 06/11/2024 12:48

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		410.57	ft	1	06/11/2024 12:48	R348845
Depth to water	*	-5.00		6.82	ft	1	06/11/2024 12:48	R348845
Depth to water from measuring point	*	0		9.72	ft	1	06/11/2024 12:48	R348845
Elevation of groundwater surface	*	0		427.15	ft	1	06/11/2024 12:48	R348845
Measuring Point Elevation	*	0		436.87	ft	1	06/11/2024 12:48	R348845
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		10	NTU	1	06/11/2024 12:48	R348845
STANDARD METHODS 18TH ED. 2580 B FIELD								
Oxidation-Reduction Potential	*	-300		-41	mV	1	06/11/2024 12:48	R348845
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		13.6	°C	1	06/11/2024 12:48	R348845
STANDARD METHODS 4500-O G FIELD								
Oxygen, Dissolved	*	0		0.74	mg/L	1	06/11/2024 12:48	R348845
SW-846 9040B								
pH, Field	*	1.00		6.94		1	06/11/2024 12:48	R348845
SW-846 9050A								
Spec. Conductance, Field	*	1.00		542	µmhos/cm@25C	1	06/11/2024 12:48	R348845
STANDARD METHODS 2540 C (DISSOLVED) 1997, 2011								
Total Dissolved Solids	NELAP	20		358	mg/L	1	06/12/2024 14:41	R348732
STANDARD METHODS 4500-NO3 F (DISSOLVED) 2000, 2011								
Nitrogen, Nitrate (as N)	NELAP	0.050		< 0.050	mg/L	1	06/11/2024 21:01	R348600
SW-846 9012A (TOTAL)								
Cyanide	NELAP	0.005		< 0.005	mg/L	1	06/13/2024 13:27	224321
SW-846 9036 (DISSOLVED)								
Sulfate	NELAP	10	J	10	mg/L	1	06/13/2024 12:30	R348727
SW-846 9214 (DISSOLVED)								
Fluoride	NELAP	0.10		0.25	mg/L	1	06/12/2024 10:41	R348699
SW-846 9251 (DISSOLVED)								
Chloride	NELAP	4		5	mg/L	1	06/13/2024 12:30	R348775
SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)								
Barium	NELAP	0.0025		0.0393	mg/L	1	06/13/2024 12:50	224311
Beryllium	NELAP	0.0005		< 0.0005	mg/L	1	06/14/2024 11:40	224311
Boron	NELAP	0.0200		0.900	mg/L	1	06/13/2024 12:50	224311
Cadmium	NELAP	0.0020		< 0.0020	mg/L	1	06/13/2024 12:50	224311
Chromium	NELAP	0.0050		< 0.0050	mg/L	1	06/13/2024 12:50	224311
Cobalt	NELAP	0.0050		< 0.0050	mg/L	1	06/13/2024 12:50	224311
Copper	NELAP	0.0050		< 0.0050	mg/L	1	06/13/2024 12:50	224311
Iron	NELAP	0.0400		0.231	mg/L	1	06/13/2024 12:50	224311
Manganese	NELAP	0.0070	X	0.252	mg/L	1	06/13/2024 12:50	224311
Nickel	NELAP	0.0050		< 0.0050	mg/L	1	06/13/2024 12:50	224311
Selenium	NELAP	0.0400		< 0.0400	mg/L	1	06/13/2024 12:50	224311
Silver	NELAP	0.0070		< 0.0070	mg/L	1	06/13/2024 12:50	224311
Vanadium	NELAP	0.0100		< 0.0100	mg/L	1	06/13/2024 12:50	224311
Zinc	NELAP	0.0100		< 0.0100	mg/L	1	06/13/2024 12:50	224311



Laboratory Results

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24051908

Client Project: Meredosia GW Monitoring Q2 2024

Report Date: 21-Jun-24

Lab ID: 24051908-002

Client Sample ID: APW-2

Matrix: GROUNDWATER

Collection Date: 06/11/2024 12:48

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		0.0436	mg/L	1	06/13/2024 11:17	224313
Beryllium	NELAP	0.0005		< 0.0005	mg/L	1	06/13/2024 11:17	224313
Boron	NELAP	0.0200		0.934	mg/L	1	06/13/2024 11:17	224313
Cadmium	NELAP	0.0020		< 0.0020	mg/L	1	06/13/2024 11:17	224313
Chromium	NELAP	0.0050		< 0.0050	mg/L	1	06/13/2024 11:17	224313
Cobalt	NELAP	0.0050		< 0.0050	mg/L	1	06/13/2024 11:17	224313
Copper	NELAP	0.0050		< 0.0050	mg/L	1	06/13/2024 11:17	224313
Iron	NELAP	0.0400		0.665	mg/L	1	06/13/2024 11:17	224313
Manganese	NELAP	0.0070		0.291	mg/L	1	06/13/2024 11:17	224313
Nickel	NELAP	0.0050		< 0.0050	mg/L	1	06/13/2024 11:17	224313
Selenium	NELAP	0.0400		< 0.0400	mg/L	1	06/13/2024 11:17	224313
Silver	NELAP	0.0070		< 0.0070	mg/L	1	06/13/2024 11:17	224313
Vanadium	NELAP	0.0100		< 0.0100	mg/L	1	06/13/2024 11:17	224313
Zinc	NELAP	0.0100		< 0.0100	mg/L	1	06/13/2024 11:17	224313
SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)								
Antimony	NELAP	0.0010	J	0.0005	mg/L	5	06/13/2024 9:28	224311
Arsenic	NELAP	0.0010		0.0015	mg/L	5	06/13/2024 9:28	224311
Lead	NELAP	0.0010		< 0.0010	mg/L	5	06/13/2024 9:28	224311
Thallium	NELAP	0.0020		< 0.0020	mg/L	5	06/13/2024 9:28	224311
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		< 0.0010	mg/L	5	06/13/2024 15:06	224313
Arsenic	NELAP	0.0010		0.0014	mg/L	5	06/13/2024 15:06	224313
Lead	NELAP	0.0010		< 0.0010	mg/L	5	06/13/2024 15:06	224313
Thallium	NELAP	0.0020		< 0.0020	mg/L	5	06/13/2024 15:06	224313
SW-846 7470A (DISSOLVED)								
Mercury	NELAP	0.00020		< 0.00020	mg/L	1	06/14/2024 13:58	224385
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		< 0.00020	mg/L	1	06/14/2024 13:56	224385



Laboratory Results

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24051908

Client Project: Meredosia GW Monitoring Q2 2024

Report Date: 21-Jun-24

Lab ID: 24051908-003

Client Sample ID: APW-3

Matrix: GROUNDWATER

Collection Date: 06/11/2024 13:38

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		410.40	ft	1	06/11/2024 13:38	R348845
Depth to water	*	-5.00		5.25	ft	1	06/11/2024 13:38	R348845
Depth to water from measuring point	*	0		8.18	ft	1	06/11/2024 13:38	R348845
Elevation of groundwater surface	*	0		428.10	ft	1	06/11/2024 13:38	R348845
Measuring Point Elevation	*	0		436.28	ft	1	06/11/2024 13:38	R348845
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		13	NTU	1	06/11/2024 13:38	R348845
STANDARD METHODS 18TH ED. 2580 B FIELD								
Oxidation-Reduction Potential	*	-300		-179	mV	1	06/11/2024 13:38	R348845
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		13.9	°C	1	06/11/2024 13:38	R348845
STANDARD METHODS 4500-O G FIELD								
Oxygen, Dissolved	*	0		0.62	mg/L	1	06/11/2024 13:38	R348845
SW-846 9040B								
pH, Field	*	1.00		7.24		1	06/11/2024 13:38	R348845
SW-846 9050A								
Spec. Conductance, Field	*	1.00		1080	µmhos/cm@25C	1	06/11/2024 13:38	R348845
STANDARD METHODS 2540 C (DISSOLVED) 1997, 2011								
Total Dissolved Solids	NELAP	20		740	mg/L	1	06/12/2024 14:42	R348732
STANDARD METHODS 4500-NO3 F (DISSOLVED) 2000, 2011								
Nitrogen, Nitrate (as N)	NELAP	0.050		< 0.050	mg/L	1	06/11/2024 21:03	R348600
SW-846 9012A (TOTAL)								
Cyanide	NELAP	0.005		< 0.005	mg/L	1	06/13/2024 13:31	224321
SW-846 9036 (DISSOLVED)								
Sulfate	NELAP	50		76	mg/L	5	06/17/2024 9:15	R348903
SW-846 9214 (DISSOLVED)								
Fluoride	NELAP	0.10		0.18	mg/L	1	06/12/2024 10:44	R348699
SW-846 9251 (DISSOLVED)								
Chloride	NELAP	4		19	mg/L	1	06/13/2024 12:41	R348775
SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)								
Barium	NELAP	0.0025		0.111	mg/L	1	06/13/2024 12:33	224311
Beryllium	NELAP	0.0005		< 0.0005	mg/L	1	06/13/2024 12:33	224311
Boron	NELAP	0.0200	X	9.27	mg/L	1	06/13/2024 12:33	224311
Cadmium	NELAP	0.0020		< 0.0020	mg/L	1	06/13/2024 12:33	224311
Chromium	NELAP	0.0050		< 0.0050	mg/L	1	06/13/2024 12:33	224311
Cobalt	NELAP	0.0050		< 0.0050	mg/L	1	06/13/2024 12:33	224311
Copper	NELAP	0.0050		< 0.0050	mg/L	1	06/13/2024 12:33	224311
Iron	NELAP	0.0400		4.59	mg/L	1	06/13/2024 12:33	224311
Manganese	NELAP	0.0070	X	1.24	mg/L	1	06/13/2024 12:33	224311
Nickel	NELAP	0.0050		< 0.0050	mg/L	1	06/13/2024 12:33	224311
Selenium	NELAP	0.0400		< 0.0400	mg/L	1	06/13/2024 12:33	224311
Silver	NELAP	0.0070		< 0.0070	mg/L	1	06/13/2024 12:33	224311
Vanadium	NELAP	0.0100		< 0.0100	mg/L	1	06/13/2024 12:33	224311
Zinc	NELAP	0.0100		< 0.0100	mg/L	1	06/13/2024 12:33	224311



Laboratory Results

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24051908

Client Project: Meredosia GW Monitoring Q2 2024

Report Date: 21-Jun-24

Lab ID: 24051908-003

Client Sample ID: APW-3

Matrix: GROUNDWATER

Collection Date: 06/11/2024 13:38

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		0.122	mg/L	1	06/13/2024 11:19	224313
Beryllium	NELAP	0.0005		< 0.0005	mg/L	1	06/13/2024 11:19	224313
Boron	NELAP	0.0200		10.1	mg/L	1	06/13/2024 11:19	224313
Cadmium	NELAP	0.0020		< 0.0020	mg/L	1	06/13/2024 11:19	224313
Chromium	NELAP	0.0050		< 0.0050	mg/L	1	06/13/2024 11:19	224313
Cobalt	NELAP	0.0050		< 0.0050	mg/L	1	06/13/2024 11:19	224313
Copper	NELAP	0.0050	J	0.0030	mg/L	1	06/13/2024 11:19	224313
Iron	NELAP	0.0400		5.37	mg/L	1	06/13/2024 11:19	224313
Manganese	NELAP	0.0070		1.36	mg/L	1	06/13/2024 11:19	224313
Nickel	NELAP	0.0050		< 0.0050	mg/L	1	06/13/2024 11:19	224313
Selenium	NELAP	0.0400		< 0.0400	mg/L	1	06/13/2024 11:19	224313
Silver	NELAP	0.0070		< 0.0070	mg/L	1	06/13/2024 11:19	224313
Vanadium	NELAP	0.0100		< 0.0100	mg/L	1	06/13/2024 11:19	224313
Zinc	NELAP	0.0100		< 0.0100	mg/L	1	06/13/2024 11:19	224313
SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)								
Antimony	NELAP	0.0010		< 0.0010	mg/L	5	06/20/2024 15:18	224644
Arsenic	NELAP	0.0010	X	0.123	mg/L	5	06/13/2024 9:05	224311
Lead	NELAP	0.0010		< 0.0010	mg/L	5	06/13/2024 9:05	224311
Thallium	NELAP	0.0020		< 0.0020	mg/L	5	06/13/2024 9:05	224311
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		< 0.0010	mg/L	5	06/13/2024 15:12	224313
Arsenic	NELAP	0.0010		0.130	mg/L	5	06/13/2024 15:12	224313
Lead	NELAP	0.0010		< 0.0010	mg/L	5	06/13/2024 15:12	224313
Thallium	NELAP	0.0020		< 0.0020	mg/L	5	06/13/2024 15:12	224313
SW-846 7470A (DISSOLVED)								
Mercury	NELAP	0.00020		< 0.00020	mg/L	1	06/14/2024 14:03	224385
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		< 0.00020	mg/L	1	06/14/2024 14:00	224385



Laboratory Results

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24051908

Client Project: Meredosia GW Monitoring Q2 2024

Report Date: 21-Jun-24

Lab ID: 24051908-004

Client Sample ID: APW-4

Matrix: GROUNDWATER

Collection Date: 06/12/2024 11:10

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		411.96	ft	1	06/12/2024 11:10	R348845
Depth to water	*	-5.00		4.08	ft	1	06/12/2024 11:10	R348845
Depth to water from measuring point	*	0		7.04	ft	1	06/12/2024 11:10	R348845
Elevation of groundwater surface	*	0		427.82	ft	1	06/12/2024 11:10	R348845
Measuring Point Elevation	*	0		434.86	ft	1	06/12/2024 11:10	R348845
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		7.4	NTU	1	06/12/2024 11:10	R348845
STANDARD METHODS 18TH ED. 2580 B FIELD								
Oxidation-Reduction Potential	*	-300		-58	mV	1	06/12/2024 11:10	R348845
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		13.3	°C	1	06/12/2024 11:10	R348845
STANDARD METHODS 4500-O G FIELD								
Oxygen, Dissolved	*	0		0.69	mg/L	1	06/12/2024 11:10	R348845
SW-846 9040B								
pH, Field	*	1.00		6.78		1	06/12/2024 11:10	R348845
SW-846 9050A								
Spec. Conductance, Field	*	1.00		764	µmhos/cm@25C	1	06/12/2024 11:10	R348845
STANDARD METHODS 2540 C (DISSOLVED) 1997, 2011								
Total Dissolved Solids	NELAP	20		578	mg/L	1	06/14/2024 11:06	R348876
STANDARD METHODS 4500-NO3 F (DISSOLVED) 2000, 2011								
Nitrogen, Nitrate (as N)	NELAP	0.050		0.100	mg/L	1	06/13/2024 12:42	R348786
SW-846 9012A (TOTAL)								
Cyanide	NELAP	0.005		< 0.005	mg/L	1	06/14/2024 14:00	224386
SW-846 9036 (DISSOLVED)								
Sulfate	NELAP	10		31	mg/L	1	06/13/2024 13:02	R348727
SW-846 9214 (DISSOLVED)								
Fluoride	NELAP	0.10		0.35	mg/L	1	06/13/2024 11:16	R348746
SW-846 9251 (DISSOLVED)								
Chloride	NELAP	4		34	mg/L	1	06/13/2024 13:03	R348775
SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)								
Barium	NELAP	0.0025		0.0515	mg/L	1	06/13/2024 16:13	224381
Beryllium	NELAP	0.0005		< 0.0005	mg/L	1	06/13/2024 16:13	224381
Boron	NELAP	0.0200		0.532	mg/L	1	06/13/2024 16:13	224381
Cadmium	NELAP	0.0020		< 0.0020	mg/L	1	06/13/2024 16:13	224381
Chromium	NELAP	0.0050		< 0.0050	mg/L	1	06/13/2024 16:13	224381
Cobalt	NELAP	0.0050		< 0.0050	mg/L	1	06/13/2024 16:13	224381
Copper	NELAP	0.0050		< 0.0050	mg/L	1	06/13/2024 16:13	224381
Iron	NELAP	0.0400		2.55	mg/L	1	06/13/2024 16:13	224381
Manganese	NELAP	0.0070	X	1.34	mg/L	1	06/13/2024 16:13	224381
Nickel	NELAP	0.0050		< 0.0050	mg/L	1	06/13/2024 16:13	224381
Selenium	NELAP	0.0400		< 0.0400	mg/L	1	06/13/2024 16:13	224381
Silver	NELAP	0.0070		< 0.0070	mg/L	1	06/13/2024 16:13	224381
Vanadium	NELAP	0.0100		< 0.0100	mg/L	1	06/13/2024 16:13	224381
Zinc	NELAP	0.0100		< 0.0100	mg/L	1	06/13/2024 16:13	224381



Laboratory Results

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24051908

Client Project: Meredosia GW Monitoring Q2 2024

Report Date: 21-Jun-24

Lab ID: 24051908-004

Client Sample ID: APW-4

Matrix: GROUNDWATER

Collection Date: 06/12/2024 11:10

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		0.0681	mg/L	1	06/17/2024 15:52	224424
Beryllium	NELAP	0.0005		< 0.0005	mg/L	1	06/17/2024 15:52	224424
Boron	NELAP	0.0200		0.602	mg/L	1	06/17/2024 15:52	224424
Cadmium	NELAP	0.0020		< 0.0020	mg/L	1	06/17/2024 15:52	224424
Chromium	NELAP	0.0050		< 0.0050	mg/L	1	06/17/2024 15:52	224424
Cobalt	NELAP	0.0050	J	0.0037	mg/L	1	06/17/2024 15:52	224424
Copper	NELAP	0.0050		< 0.0050	mg/L	1	06/17/2024 15:52	224424
Iron	NELAP	0.0400		3.16	mg/L	1	06/17/2024 15:52	224424
Manganese	NELAP	0.0070		1.52	mg/L	1	06/17/2024 15:52	224424
Nickel	NELAP	0.0050		< 0.0050	mg/L	1	06/17/2024 15:52	224424
Selenium	NELAP	0.0400		< 0.0400	mg/L	1	06/17/2024 15:52	224424
Silver	NELAP	0.0070		< 0.0070	mg/L	1	06/17/2024 15:52	224424
Vanadium	NELAP	0.0100		< 0.0100	mg/L	1	06/17/2024 15:52	224424
Zinc	NELAP	0.0100		< 0.0100	mg/L	1	06/17/2024 15:52	224424
SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)								
Antimony	NELAP	0.0010		< 0.0010	mg/L	5	06/20/2024 15:24	224644
Arsenic	NELAP	0.0010		0.0018	mg/L	5	06/14/2024 14:27	224381
Lead	NELAP	0.0010		< 0.0010	mg/L	5	06/14/2024 14:27	224381
Thallium	NELAP	0.0020		< 0.0020	mg/L	5	06/14/2024 14:27	224381
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		< 0.0010	mg/L	5	06/17/2024 21:53	224424
Arsenic	NELAP	0.0010		0.0023	mg/L	5	06/17/2024 21:53	224424
Lead	NELAP	0.0010		< 0.0010	mg/L	5	06/17/2024 21:53	224424
Thallium	NELAP	0.0020		< 0.0020	mg/L	5	06/17/2024 21:53	224424
SW-846 7470A (DISSOLVED)								
Mercury	NELAP	0.00020		< 0.00020	mg/L	1	06/14/2024 14:12	224385
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		< 0.00020	mg/L	1	06/14/2024 14:05	224385



Laboratory Results

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24051908

Client Project: Meredosia GW Monitoring Q2 2024

Report Date: 21-Jun-24

Lab ID: 24051908-005

Client Sample ID: APW-5

Matrix: GROUNDWATER

Collection Date: 06/11/2024 12:04

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		420.28	ft	1	06/11/2024 12:04	R348845
Depth to water	*	-5.00		19.95	ft	1	06/11/2024 12:04	R348845
Depth to water from measuring point	*	0		22.67	ft	1	06/11/2024 12:04	R348845
Elevation of groundwater surface	*	0		430.53	ft	1	06/11/2024 12:04	R348845
Measuring Point Elevation	*	0		453.20	ft	1	06/11/2024 12:04	R348845
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		32	NTU	1	06/11/2024 12:04	R348845
STANDARD METHODS 18TH ED. 2580 B FIELD								
Oxidation-Reduction Potential	*	-300		82	mV	1	06/11/2024 12:04	R348845
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		16.6	°C	1	06/11/2024 12:04	R348845
STANDARD METHODS 4500-O G FIELD								
Oxygen, Dissolved	*	0		5.24	mg/L	1	06/11/2024 12:04	R348845
SW-846 9040B								
pH, Field	*	1.00		7.39		1	06/11/2024 12:04	R348845
SW-846 9050A								
Spec. Conductance, Field	*	1.00		496	µmhos/cm@25C	1	06/11/2024 12:04	R348845
STANDARD METHODS 2540 C (DISSOLVED) 1997, 2011								
Total Dissolved Solids	NELAP	20		298	mg/L	1	06/12/2024 14:42	R348732
STANDARD METHODS 4500-NO3 F (DISSOLVED) 2000, 2011								
Nitrogen, Nitrate (as N)	NELAP	0.500		3.14	mg/L	1	06/11/2024 21:05	R348600
SW-846 9012A (TOTAL)								
Cyanide	NELAP	0.005		< 0.005	mg/L	1	06/13/2024 13:40	224321
SW-846 9036 (DISSOLVED)								
Sulfate	NELAP	10		23	mg/L	1	06/13/2024 13:24	R348727
SW-846 9214 (DISSOLVED)								
Fluoride	NELAP	0.10		0.15	mg/L	1	06/12/2024 10:46	R348699
SW-846 9251 (DISSOLVED)								
Chloride	NELAP	4		9	mg/L	1	06/13/2024 13:24	R348775
SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)								
Barium	NELAP	0.0025		0.0095	mg/L	1	06/13/2024 12:35	224311
Beryllium	NELAP	0.0005		< 0.0005	mg/L	1	06/13/2024 12:35	224311
Boron	NELAP	0.0200		0.0944	mg/L	1	06/13/2024 12:35	224311
Cadmium	NELAP	0.0020		< 0.0020	mg/L	1	06/13/2024 12:35	224311
Chromium	NELAP	0.0050		< 0.0050	mg/L	1	06/13/2024 12:35	224311
Cobalt	NELAP	0.0050		< 0.0050	mg/L	1	06/13/2024 12:35	224311
Copper	NELAP	0.0050		< 0.0050	mg/L	1	06/13/2024 12:35	224311
Iron	NELAP	0.0400		< 0.0400	mg/L	1	06/13/2024 12:35	224311
Manganese	NELAP	0.0070		< 0.0070	mg/L	1	06/13/2024 12:35	224311
Nickel	NELAP	0.0050		< 0.0050	mg/L	1	06/13/2024 12:35	224311
Selenium	NELAP	0.0400		< 0.0400	mg/L	1	06/13/2024 12:35	224311
Silver	NELAP	0.0070		< 0.0070	mg/L	1	06/13/2024 12:35	224311
Vanadium	NELAP	0.0100		< 0.0100	mg/L	1	06/13/2024 12:35	224311
Zinc	NELAP	0.0100		< 0.0100	mg/L	1	06/13/2024 12:35	224311



Laboratory Results

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24051908

Client Project: Meredosia GW Monitoring Q2 2024

Report Date: 21-Jun-24

Lab ID: 24051908-005

Client Sample ID: APW-5

Matrix: GROUNDWATER

Collection Date: 06/11/2024 12:04

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		0.0137	mg/L	1	06/13/2024 11:21	224313
Beryllium	NELAP	0.0005		< 0.0005	mg/L	1	06/13/2024 11:21	224313
Boron	NELAP	0.0200		0.101	mg/L	1	06/14/2024 10:04	224313
Cadmium	NELAP	0.0020		< 0.0020	mg/L	1	06/13/2024 11:21	224313
Chromium	NELAP	0.0050		< 0.0050	mg/L	1	06/13/2024 11:21	224313
Cobalt	NELAP	0.0050		< 0.0050	mg/L	1	06/13/2024 11:21	224313
Copper	NELAP	0.0050		< 0.0050	mg/L	1	06/13/2024 11:21	224313
Iron	NELAP	0.0400		0.827	mg/L	1	06/13/2024 11:21	224313
Manganese	NELAP	0.0070		0.105	mg/L	1	06/13/2024 11:21	224313
Nickel	NELAP	0.0050	J	0.0041	mg/L	1	06/13/2024 11:21	224313
Selenium	NELAP	0.0400		< 0.0400	mg/L	1	06/13/2024 11:21	224313
Silver	NELAP	0.0070		< 0.0070	mg/L	1	06/13/2024 11:21	224313
Vanadium	NELAP	0.010	J	0.0023	mg/L	1	06/13/2024 11:21	224313
Zinc	NELAP	0.0100		< 0.0100	mg/L	1	06/13/2024 11:21	224313
SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)								
Antimony	NELAP	0.0010		< 0.0010	mg/L	5	06/20/2024 15:30	224644
Arsenic	NELAP	0.0010	J	0.0005	mg/L	5	06/13/2024 9:11	224311
Lead	NELAP	0.0010		< 0.0010	mg/L	5	06/13/2024 9:11	224311
Thallium	NELAP	0.0020		< 0.0020	mg/L	5	06/13/2024 9:11	224311
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		< 0.0010	mg/L	5	06/13/2024 15:18	224313
Arsenic	NELAP	0.0010	J	0.0009	mg/L	5	06/13/2024 15:18	224313
Lead	NELAP	0.0010		0.0011	mg/L	5	06/13/2024 15:18	224313
Thallium	NELAP	0.0020		< 0.0020	mg/L	5	06/13/2024 15:18	224313
SW-846 7470A (DISSOLVED)								
Mercury	NELAP	0.00020		< 0.00020	mg/L	1	06/14/2024 14:16	224385
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		< 0.00020	mg/L	1	06/14/2024 14:14	224385



Laboratory Results

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24051908

Client Project: Meredosia GW Monitoring Q2 2024

Report Date: 21-Jun-24

Lab ID: 24051908-006

Client Sample ID: APW-6

Matrix: GROUNDWATER

Collection Date: 06/10/2024 10:51

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		421.04	ft	1	06/10/2024 10:51	R348845
Depth to water	*	-5.00		17.69	ft	1	06/10/2024 10:51	R348845
Depth to water from measuring point	*	0		20.99	ft	1	06/10/2024 10:51	R348845
Elevation of groundwater surface	*	0		430.91	ft	1	06/10/2024 10:51	R348845
Measuring Point Elevation	*	0		451.90	ft	1	06/10/2024 10:51	R348845
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		8.2	NTU	1	06/10/2024 10:51	R348845
STANDARD METHODS 18TH ED. 2580 B FIELD								
Oxidation-Reduction Potential	*	-300		74	mV	1	06/10/2024 10:51	R348845
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		15.4	°C	1	06/10/2024 10:51	R348845
STANDARD METHODS 4500-O G FIELD								
Oxygen, Dissolved	*	0		7.05	mg/L	1	06/10/2024 10:51	R348845
SW-846 9040B								
pH, Field	*	1.00		7.22		1	06/10/2024 10:51	R348845
SW-846 9050A								
Spec. Conductance, Field	*	1.00		464	µmhos/cm@25C	1	06/10/2024 10:51	R348845
STANDARD METHODS 2540 C (DISSOLVED) 1997, 2011								
Total Dissolved Solids	NELAP	20		282	mg/L	1	06/11/2024 8:07	R348654
STANDARD METHODS 4500-NO3 F (DISSOLVED) 2000, 2011								
Nitrogen, Nitrate (as N)	NELAP	0.050		0.211	mg/L	1	06/11/2024 17:47	R348600
SW-846 9012A (TOTAL)								
Cyanide	NELAP	0.005		< 0.005	mg/L	1	06/12/2024 12:16	224226
SW-846 9036 (DISSOLVED)								
Sulfate	NELAP	10		16	mg/L	1	06/13/2024 13:26	R348727
SW-846 9214 (DISSOLVED)								
Fluoride	NELAP	0.10		0.15	mg/L	1	06/11/2024 10:06	R348588
SW-846 9251 (DISSOLVED)								
Chloride	NELAP	4	J	1	mg/L	1	06/13/2024 13:26	R348775
SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)								
Barium	NELAP	0.0025		0.0105	mg/L	1	06/11/2024 15:07	224183
Beryllium	NELAP	0.0005		< 0.0005	mg/L	1	06/11/2024 15:07	224183
Boron	NELAP	0.0200		0.675	mg/L	1	06/11/2024 15:07	224183
Cadmium	NELAP	0.0020		< 0.0020	mg/L	1	06/11/2024 15:07	224183
Chromium	NELAP	0.0050		< 0.0050	mg/L	1	06/11/2024 15:07	224183
Cobalt	NELAP	0.0050		< 0.0050	mg/L	1	06/11/2024 15:07	224183
Copper	NELAP	0.0050		< 0.0050	mg/L	1	06/11/2024 15:07	224183
Iron	NELAP	0.0400		< 0.0400	mg/L	1	06/11/2024 15:07	224183
Manganese	NELAP	0.0070		< 0.0070	mg/L	1	06/11/2024 15:07	224183
Nickel	NELAP	0.0050		< 0.0050	mg/L	1	06/11/2024 15:07	224183
Selenium	NELAP	0.0400		< 0.0400	mg/L	1	06/11/2024 15:07	224183
Silver	NELAP	0.0070		< 0.0070	mg/L	1	06/11/2024 15:07	224183
Vanadium	NELAP	0.0100		< 0.0100	mg/L	1	06/11/2024 15:07	224183
Zinc	NELAP	0.0100		< 0.0100	mg/L	1	06/11/2024 15:07	224183



Laboratory Results

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24051908

Client Project: Meredosia GW Monitoring Q2 2024

Report Date: 21-Jun-24

Lab ID: 24051908-006

Client Sample ID: APW-6

Matrix: GROUNDWATER

Collection Date: 06/10/2024 10:51

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		0.0159	mg/L	1	06/12/2024 16:22	224240
Beryllium	NELAP	0.0005		< 0.0005	mg/L	1	06/12/2024 16:22	224240
Boron	NELAP	0.0200		0.823	mg/L	1	06/12/2024 16:22	224240
Cadmium	NELAP	0.0020		< 0.0020	mg/L	1	06/12/2024 16:22	224240
Chromium	NELAP	0.0050		< 0.0050	mg/L	1	06/12/2024 16:22	224240
Cobalt	NELAP	0.0050		< 0.0050	mg/L	1	06/12/2024 16:22	224240
Copper	NELAP	0.0050	J	0.0032	mg/L	1	06/12/2024 16:22	224240
Iron	NELAP	0.0400		0.470	mg/L	1	06/12/2024 16:22	224240
Manganese	NELAP	0.0070		0.0283	mg/L	1	06/12/2024 16:22	224240
Nickel	NELAP	0.0050		< 0.0050	mg/L	1	06/12/2024 16:22	224240
Selenium	NELAP	0.0400		< 0.0400	mg/L	1	06/12/2024 16:22	224240
Silver	NELAP	0.0070		< 0.0070	mg/L	1	06/12/2024 16:22	224240
Vanadium	NELAP	0.010	J	0.0020	mg/L	1	06/12/2024 16:22	224240
Zinc	NELAP	0.0100		< 0.0100	mg/L	1	06/12/2024 16:22	224240
SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)								
Antimony	NELAP	0.0010		< 0.0010	mg/L	5	06/20/2024 15:35	224644
Arsenic	NELAP	0.0010	J	0.0006	mg/L	5	06/12/2024 11:31	224183
Lead	NELAP	0.0010		< 0.0010	mg/L	5	06/12/2024 11:31	224183
Thallium	NELAP	0.0020		< 0.0020	mg/L	5	06/12/2024 11:31	224183
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010	J	0.0005	mg/L	5	06/14/2024 11:35	224240
Arsenic	NELAP	0.0010		0.0014	mg/L	5	06/13/2024 11:40	224240
Lead	NELAP	0.0010	J	0.0007	mg/L	5	06/14/2024 11:35	224240
Thallium	NELAP	0.0020		< 0.0020	mg/L	5	06/14/2024 11:35	224240
SW-846 7470A (DISSOLVED)								
Mercury	NELAP	0.00020		< 0.00020	mg/L	1	06/12/2024 13:09	224207
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		< 0.00020	mg/L	1	06/12/2024 13:07	224207



Laboratory Results

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24051908

Client Project: Meredosia GW Monitoring Q2 2024

Report Date: 21-Jun-24

Lab ID: 24051908-007

Client Sample ID: APW-7

Matrix: GROUNDWATER

Collection Date: 06/12/2024 11:42

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		418.59	ft	1	06/12/2024 11:42	R348845
Depth to water	*	-5.00		5.74	ft	1	06/12/2024 11:42	R348845
Depth to water from measuring point	*	0		9.44	ft	1	06/12/2024 11:42	R348845
Elevation of groundwater surface	*	0		429.26	ft	1	06/12/2024 11:42	R348845
Measuring Point Elevation	*	0		438.70	ft	1	06/12/2024 11:42	R348845
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		4.1	NTU	1	06/12/2024 11:42	R348845
STANDARD METHODS 18TH ED. 2580 B FIELD								
Oxidation-Reduction Potential	*	-300		56	mV	1	06/12/2024 11:42	R348845
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		15.9	°C	1	06/12/2024 11:42	R348845
STANDARD METHODS 4500-O G FIELD								
Oxygen, Dissolved	*	0		2.14	mg/L	1	06/12/2024 11:42	R348845
SW-846 9040B								
pH, Field	*	1.00		6.81		1	06/12/2024 11:42	R348845
SW-846 9050A								
Spec. Conductance, Field	*	1.00		624	µmhos/cm@25C	1	06/12/2024 11:42	R348845
STANDARD METHODS 2540 C (DISSOLVED) 1997, 2011								
Total Dissolved Solids	NELAP	20		428	mg/L	1	06/14/2024 11:06	R348876
STANDARD METHODS 4500-NO3 F (DISSOLVED) 2000, 2011								
Nitrogen, Nitrate (as N)	NELAP	0.100		1.16	mg/L	1	06/13/2024 12:45	R348786
SW-846 9012A (TOTAL)								
Cyanide	NELAP	0.005		< 0.005	mg/L	1	06/14/2024 14:04	224386
SW-846 9036 (DISSOLVED)								
Sulfate	NELAP	20		29	mg/L	2	06/13/2024 13:42	R348727
SW-846 9214 (DISSOLVED)								
Fluoride	NELAP	0.10		0.27	mg/L	1	06/13/2024 11:19	R348746
SW-846 9251 (DISSOLVED)								
Chloride	NELAP	4		43	mg/L	1	06/13/2024 13:32	R348775
SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)								
Barium	NELAP	0.0025		0.0406	mg/L	1	06/13/2024 16:14	224381
Beryllium	NELAP	0.0005		< 0.0005	mg/L	1	06/13/2024 16:14	224381
Boron	NELAP	0.0200		0.101	mg/L	1	06/13/2024 16:14	224381
Cadmium	NELAP	0.0020		< 0.0020	mg/L	1	06/13/2024 16:14	224381
Chromium	NELAP	0.0050		< 0.0050	mg/L	1	06/13/2024 16:14	224381
Cobalt	NELAP	0.0050		< 0.0050	mg/L	1	06/13/2024 16:14	224381
Copper	NELAP	0.0050		< 0.0050	mg/L	1	06/13/2024 16:14	224381
Iron	NELAP	0.0400		< 0.0400	mg/L	1	06/13/2024 16:14	224381
Manganese	NELAP	0.0070	J	0.0025	mg/L	1	06/13/2024 16:14	224381
Nickel	NELAP	0.0050		< 0.0050	mg/L	1	06/13/2024 16:14	224381
Selenium	NELAP	0.0400		< 0.0400	mg/L	1	06/13/2024 16:14	224381
Silver	NELAP	0.0070		< 0.0070	mg/L	1	06/13/2024 16:14	224381
Vanadium	NELAP	0.0100		< 0.0100	mg/L	1	06/13/2024 16:14	224381
Zinc	NELAP	0.0100		< 0.0100	mg/L	1	06/13/2024 16:14	224381



Laboratory Results

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24051908

Client Project: Meredosia GW Monitoring Q2 2024

Report Date: 21-Jun-24

Lab ID: 24051908-007

Client Sample ID: APW-7

Matrix: GROUNDWATER

Collection Date: 06/12/2024 11:42

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		0.0494	mg/L	1	06/17/2024 15:53	224424
Beryllium	NELAP	0.0005		< 0.0005	mg/L	1	06/17/2024 15:53	224424
Boron	NELAP	0.0200		0.110	mg/L	1	06/17/2024 15:53	224424
Cadmium	NELAP	0.0020		< 0.0020	mg/L	1	06/17/2024 15:53	224424
Chromium	NELAP	0.0050		< 0.0050	mg/L	1	06/17/2024 15:53	224424
Cobalt	NELAP	0.0050	J	0.0031	mg/L	1	06/17/2024 15:53	224424
Copper	NELAP	0.0050		< 0.0050	mg/L	1	06/17/2024 15:53	224424
Iron	NELAP	0.0400		0.385	mg/L	1	06/17/2024 15:53	224424
Manganese	NELAP	0.0070		0.0466	mg/L	1	06/17/2024 15:53	224424
Nickel	NELAP	0.0050		< 0.0050	mg/L	1	06/17/2024 15:53	224424
Selenium	NELAP	0.0400		< 0.0400	mg/L	1	06/17/2024 15:53	224424
Silver	NELAP	0.0070		< 0.0070	mg/L	1	06/17/2024 15:53	224424
Vanadium	NELAP	0.0100		< 0.0100	mg/L	1	06/17/2024 15:53	224424
Zinc	NELAP	0.0100		< 0.0100	mg/L	1	06/17/2024 15:53	224424
SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)								
Antimony	NELAP	0.0010		< 0.0010	mg/L	5	06/20/2024 15:41	224644
Arsenic	NELAP	0.0010		< 0.0010	mg/L	5	06/14/2024 14:32	224381
Lead	NELAP	0.0010		< 0.0010	mg/L	5	06/14/2024 14:32	224381
Thallium	NELAP	0.0020		< 0.0020	mg/L	5	06/14/2024 14:32	224381
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		< 0.0010	mg/L	5	06/17/2024 21:59	224424
Arsenic	NELAP	0.0010	J	0.0005	mg/L	5	06/17/2024 21:59	224424
Lead	NELAP	0.0010		< 0.0010	mg/L	5	06/17/2024 21:59	224424
Thallium	NELAP	0.0020		< 0.0020	mg/L	5	06/17/2024 21:59	224424
SW-846 7470A (DISSOLVED)								
Mercury	NELAP	0.00020		< 0.00020	mg/L	1	06/14/2024 14:43	224385
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		< 0.00020	mg/L	1	06/14/2024 14:40	224385



Laboratory Results

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24051908

Client Project: Meredosia GW Monitoring Q2 2024

Report Date: 21-Jun-24

Lab ID: 24051908-008

Client Sample ID: APW-8

Matrix: GROUNDWATER

Collection Date: 06/11/2024 10:12

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		420.92	ft	1	06/11/2024 10:12	R348845
Depth to water	*	-5.00		30.45	ft	1	06/11/2024 10:12	R348845
Depth to water from measuring point	*	0		33.85	ft	1	06/11/2024 10:12	R348845
Elevation of groundwater surface	*	0		430.05	ft	1	06/11/2024 10:12	R348845
Measuring Point Elevation	*	0		463.90	ft	1	06/11/2024 10:12	R348845
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		13	NTU	1	06/11/2024 10:12	R348845
STANDARD METHODS 18TH ED. 2580 B FIELD								
Oxidation-Reduction Potential	*	-300		90	mV	1	06/11/2024 10:12	R348845
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		15.0	°C	1	06/11/2024 10:12	R348845
STANDARD METHODS 4500-O G FIELD								
Oxygen, Dissolved	*	0		7.63	mg/L	1	06/11/2024 10:12	R348845
SW-846 9040B								
pH, Field	*	1.00		7.44		1	06/11/2024 10:12	R348845
SW-846 9050A								
Spec. Conductance, Field	*	1.00		721	µmhos/cm@25C	1	06/11/2024 10:12	R348845
STANDARD METHODS 2540 C (DISSOLVED) 1997, 2011								
Total Dissolved Solids	NELAP	20		510	mg/L	1	06/12/2024 14:43	R348732
STANDARD METHODS 4500-NO3 F (DISSOLVED) 2000, 2011								
Nitrogen, Nitrate (as N)	NELAP	0.500		4.11	mg/L	1	06/11/2024 21:08	R348600
SW-846 9012A (TOTAL)								
Cyanide	NELAP	0.005		< 0.005	mg/L	1	06/13/2024 13:44	224321
SW-846 9036 (DISSOLVED)								
Sulfate	NELAP	100		163	mg/L	10	06/13/2024 14:11	R348727
SW-846 9214 (DISSOLVED)								
Fluoride	NELAP	0.10		0.14	mg/L	1	06/12/2024 10:48	R348699
SW-846 9251 (DISSOLVED)								
Chloride	NELAP	4		9	mg/L	1	06/13/2024 13:53	R348775
SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)								
Barium	NELAP	0.0025		0.0545	mg/L	1	06/13/2024 12:55	224311
Beryllium	NELAP	0.0005		< 0.0005	mg/L	1	06/13/2024 12:55	224311
Boron	NELAP	0.0200	X	4.60	mg/L	1	06/13/2024 12:55	224311
Cadmium	NELAP	0.0020		< 0.0020	mg/L	1	06/13/2024 12:55	224311
Chromium	NELAP	0.0050		0.0056	mg/L	1	06/13/2024 12:55	224311
Cobalt	NELAP	0.0050		< 0.0050	mg/L	1	06/13/2024 12:55	224311
Copper	NELAP	0.0050		< 0.0050	mg/L	1	06/13/2024 12:55	224311
Iron	NELAP	0.0400		< 0.0400	mg/L	1	06/13/2024 12:55	224311
Manganese	NELAP	0.0070		< 0.0070	mg/L	1	06/13/2024 12:55	224311
Nickel	NELAP	0.0050		< 0.0050	mg/L	1	06/13/2024 12:55	224311
Selenium	NELAP	0.0400	X	0.0570	mg/L	1	06/13/2024 12:55	224311
Silver	NELAP	0.0070		< 0.0070	mg/L	1	06/13/2024 12:55	224311
Vanadium	NELAP	0.0100		< 0.0100	mg/L	1	06/13/2024 12:55	224311
Zinc	NELAP	0.0100		< 0.0100	mg/L	1	06/13/2024 12:55	224311



Laboratory Results

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24051908

Client Project: Meredosia GW Monitoring Q2 2024

Report Date: 21-Jun-24

Lab ID: 24051908-008

Client Sample ID: APW-8

Matrix: GROUNDWATER

Collection Date: 06/11/2024 10:12

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		0.0646	mg/L	1	06/13/2024 11:22	224313
Beryllium	NELAP	0.0005		< 0.0005	mg/L	1	06/13/2024 11:22	224313
Boron	NELAP	0.0200		5.04	mg/L	1	06/13/2024 11:22	224313
Cadmium	NELAP	0.0020		< 0.0020	mg/L	1	06/13/2024 11:22	224313
Chromium	NELAP	0.0050		0.0085	mg/L	1	06/13/2024 11:22	224313
Cobalt	NELAP	0.0050		< 0.0050	mg/L	1	06/13/2024 11:22	224313
Copper	NELAP	0.0050		0.0063	mg/L	1	06/13/2024 11:22	224313
Iron	NELAP	0.0400		1.68	mg/L	1	06/13/2024 11:22	224313
Manganese	NELAP	0.0070		0.103	mg/L	1	06/13/2024 11:22	224313
Nickel	NELAP	0.0050	J	0.0036	mg/L	1	06/13/2024 11:22	224313
Selenium	NELAP	0.0400		0.0602	mg/L	1	06/13/2024 11:22	224313
Silver	NELAP	0.0070		< 0.0070	mg/L	1	06/13/2024 11:22	224313
Vanadium	NELAP	0.010	J	0.0045	mg/L	1	06/13/2024 11:22	224313
Zinc	NELAP	0.0100		< 0.0100	mg/L	1	06/13/2024 11:22	224313
SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)								
Antimony	NELAP	0.0010	J	0.0010	mg/L	5	06/13/2024 9:17	224311
Arsenic	NELAP	0.0010		0.0017	mg/L	5	06/13/2024 9:17	224311
Lead	NELAP	0.0010		< 0.0010	mg/L	5	06/13/2024 9:17	224311
Thallium	NELAP	0.0020		< 0.0020	mg/L	5	06/13/2024 9:17	224311
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010	J	0.0009	mg/L	5	06/21/2024 9:58	224635
Arsenic	NELAP	0.0010		0.0032	mg/L	5	06/21/2024 8:34	224635
Lead	NELAP	0.0010		0.0018	mg/L	5	06/21/2024 8:34	224635
Thallium	NELAP	0.0020		< 0.0020	mg/L	5	06/20/2024 14:36	224635
SW-846 7470A (DISSOLVED)								
Mercury	NELAP	0.00020		< 0.00020	mg/L	1	06/14/2024 14:47	224385
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		< 0.00020	mg/L	1	06/14/2024 14:45	224385



Laboratory Results

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24051908

Client Project: Meredosia GW Monitoring Q2 2024

Report Date: 21-Jun-24

Lab ID: 24051908-009

Client Sample ID: APW-9

Matrix: GROUNDWATER

Collection Date: 06/10/2024 13:47

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		415.60	ft	1	06/10/2024 13:47	R348845
Depth to water	*	-5.00		15.44	ft	1	06/10/2024 13:47	R348845
Depth to water from measuring point	*	0		18.54	ft	1	06/10/2024 13:47	R348845
Elevation of groundwater surface	*	0		429.56	ft	1	06/10/2024 13:47	R348845
Measuring Point Elevation	*	0		448.10	ft	1	06/10/2024 13:47	R348845
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		12	NTU	1	06/10/2024 13:47	R348845
STANDARD METHODS 18TH ED. 2580 B FIELD								
Oxidation-Reduction Potential	*	-300		93	mV	1	06/10/2024 13:47	R348845
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		15.8	°C	1	06/10/2024 13:47	R348845
STANDARD METHODS 4500-O G FIELD								
Oxygen, Dissolved	*	0		5.95	mg/L	1	06/10/2024 13:47	R348845
SW-846 9040B								
pH, Field	*	1.00		7.09		1	06/10/2024 13:47	R348845
SW-846 9050A								
Spec. Conductance, Field	*	1.00		1170	µmhos/cm@25C	1	06/10/2024 13:47	R348845
STANDARD METHODS 2540 C (DISSOLVED) 1997, 2011								
Total Dissolved Solids	NELAP	20		928	mg/L	1	06/11/2024 8:08	R348654
STANDARD METHODS 4500-NO3 F (DISSOLVED) 2000, 2011								
Nitrogen, Nitrate (as N)	NELAP	0.500		3.30	mg/L	1	06/11/2024 17:56	R348600
SW-846 9012A (TOTAL)								
Cyanide	NELAP	0.005		< 0.005	mg/L	1	06/12/2024 12:21	224226
SW-846 9036 (DISSOLVED)								
Sulfate	NELAP	100	X	408	mg/L	10	06/13/2024 14:19	R348727
SW-846 9214 (DISSOLVED)								
Fluoride	NELAP	0.10		0.32	mg/L	1	06/11/2024 10:09	R348588
SW-846 9251 (DISSOLVED)								
Chloride	NELAP	4	J	3	mg/L	1	06/13/2024 14:14	R348775
SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)								
Barium	NELAP	0.0025		0.0239	mg/L	1	06/11/2024 15:07	224183
Beryllium	NELAP	0.0005		< 0.0005	mg/L	1	06/11/2024 15:07	224183
Boron	NELAP	0.0200		1.94	mg/L	1	06/11/2024 15:07	224183
Cadmium	NELAP	0.0020		< 0.0020	mg/L	1	06/11/2024 15:07	224183
Chromium	NELAP	0.0050		< 0.0050	mg/L	1	06/11/2024 15:07	224183
Cobalt	NELAP	0.0050	J	0.0027	mg/L	1	06/11/2024 15:07	224183
Copper	NELAP	0.0050		< 0.0050	mg/L	1	06/11/2024 15:07	224183
Iron	NELAP	0.0400		< 0.0400	mg/L	1	06/11/2024 15:07	224183
Manganese	NELAP	0.0070		< 0.0070	mg/L	1	06/11/2024 15:07	224183
Nickel	NELAP	0.0050		< 0.0050	mg/L	1	06/11/2024 15:07	224183
Selenium	NELAP	0.040	J	0.018	mg/L	1	06/11/2024 15:07	224183
Silver	NELAP	0.0070		< 0.0070	mg/L	1	06/11/2024 15:07	224183
Vanadium	NELAP	0.010	J	0.0026	mg/L	1	06/11/2024 15:07	224183
Zinc	NELAP	0.0100		< 0.0100	mg/L	1	06/11/2024 15:07	224183



Laboratory Results

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24051908

Client Project: Meredosia GW Monitoring Q2 2024

Report Date: 21-Jun-24

Lab ID: 24051908-009

Client Sample ID: APW-9

Matrix: GROUNDWATER

Collection Date: 06/10/2024 13:47

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		0.0355	mg/L	1	06/12/2024 16:23	224240
Beryllium	NELAP	0.0005		< 0.0005	mg/L	1	06/12/2024 16:23	224240
Boron	NELAP	0.0200		2.56	mg/L	1	06/12/2024 16:23	224240
Cadmium	NELAP	0.0020		< 0.0020	mg/L	1	06/12/2024 16:23	224240
Chromium	NELAP	0.0050		< 0.0050	mg/L	1	06/12/2024 16:23	224240
Cobalt	NELAP	0.0050		< 0.0050	mg/L	1	06/12/2024 16:23	224240
Copper	NELAP	0.0050		< 0.0050	mg/L	1	06/12/2024 16:23	224240
Iron	NELAP	0.0400		0.528	mg/L	1	06/12/2024 16:23	224240
Manganese	NELAP	0.0070		0.0393	mg/L	1	06/12/2024 16:23	224240
Nickel	NELAP	0.0050		< 0.0050	mg/L	1	06/12/2024 16:23	224240
Selenium	NELAP	0.0400		< 0.0400	mg/L	1	06/12/2024 16:23	224240
Silver	NELAP	0.0070		< 0.0070	mg/L	1	06/12/2024 16:23	224240
Vanadium	NELAP	0.010	J	0.0049	mg/L	1	06/12/2024 16:23	224240
Zinc	NELAP	0.0100		< 0.0100	mg/L	1	06/12/2024 16:23	224240
SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)								
Antimony	NELAP	0.0010		0.0011	mg/L	5	06/12/2024 11:36	224183
Arsenic	NELAP	0.0010		0.0012	mg/L	5	06/12/2024 11:36	224183
Lead	NELAP	0.0010		< 0.0010	mg/L	5	06/12/2024 11:36	224183
Thallium	NELAP	0.0020		< 0.0020	mg/L	5	06/12/2024 11:36	224183
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010	J	0.0007	mg/L	5	06/14/2024 11:40	224240
Arsenic	NELAP	0.0010		0.0016	mg/L	5	06/13/2024 11:46	224240
Lead	NELAP	0.0010	BJ	0.0006	mg/L	5	06/13/2024 11:46	224240
Thallium	NELAP	0.0020		< 0.0020	mg/L	5	06/14/2024 11:40	224240
<i>Contamination present in the MBLK. Sample results below the reporting limit are reportable per the TNI Standard.</i>								
SW-846 7470A (DISSOLVED)								
Mercury	NELAP	0.00020		< 0.00020	mg/L	1	06/12/2024 13:13	224207
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		< 0.00020	mg/L	1	06/12/2024 13:11	224207



Laboratory Results

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24051908

Client Project: Meredosia GW Monitoring Q2 2024

Report Date: 21-Jun-24

Lab ID: 24051908-010

Client Sample ID: APW-1 DUP

Matrix: GROUNDWATER

Collection Date: 06/10/2024 11:52

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		421.22	ft	1	06/10/2024 11:52	R348845
Depth to water	*	-5.00		15.30	ft	1	06/10/2024 11:52	R348845
Depth to water from measuring point	*	0		18.50	ft	1	06/10/2024 11:52	R348845
Elevation of groundwater surface	*	0		430.76	ft	1	06/10/2024 11:52	R348845
Measuring Point Elevation	*	0		449.26	ft	1	06/10/2024 11:52	R348845
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		12	NTU	1	06/10/2024 11:52	R348845
STANDARD METHODS 18TH ED. 2580 B FIELD								
Oxidation-Reduction Potential	*	-300		58	mV	1	06/10/2024 11:52	R348845
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		16.0	°C	1	06/10/2024 11:52	R348845
STANDARD METHODS 4500-O G FIELD								
Oxygen, Dissolved	*	0		4.01	mg/L	1	06/10/2024 11:52	R348845
SW-846 9040B								
pH, Field	*	1.00		6.97		1	06/10/2024 11:52	R348845
SW-846 9050A								
Spec. Conductance, Field	*	1.00		510	µmhos/cm@25C	1	06/10/2024 11:52	R348845
STANDARD METHODS 2540 C (DISSOLVED) 1997, 2011								
Total Dissolved Solids	NELAP	20		274	mg/L	1	06/11/2024 8:08	R348654
STANDARD METHODS 4500-NO3 F (DISSOLVED) 2000, 2011								
Nitrogen, Nitrate (as N)	NELAP	0.250		1.85	mg/L	1	06/11/2024 17:58	R348600
SW-846 9012A (TOTAL)								
Cyanide	NELAP	0.005		< 0.005	mg/L	1	06/12/2024 12:25	224226
SW-846 9036 (DISSOLVED)								
Sulfate	NELAP	10		15	mg/L	1	06/17/2024 9:26	R348903
SW-846 9214 (DISSOLVED)								
Fluoride	NELAP	0.10		0.25	mg/L	1	06/11/2024 10:11	R348588
SW-846 9251 (DISSOLVED)								
Chloride	NELAP	20		64	mg/L	5	06/13/2024 14:27	R348775
SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)								
Barium	NELAP	0.0025		0.0114	mg/L	1	06/11/2024 15:08	224183
Beryllium	NELAP	0.0005		< 0.0005	mg/L	1	06/11/2024 15:08	224183
Boron	NELAP	0.020	J	0.019	mg/L	1	06/11/2024 15:08	224183
Cadmium	NELAP	0.0020		< 0.0020	mg/L	1	06/11/2024 15:08	224183
Chromium	NELAP	0.0050		< 0.0050	mg/L	1	06/11/2024 15:08	224183
Cobalt	NELAP	0.0050		< 0.0050	mg/L	1	06/11/2024 15:08	224183
Copper	NELAP	0.0050		< 0.0050	mg/L	1	06/11/2024 15:08	224183
Iron	NELAP	0.0400		< 0.0400	mg/L	1	06/11/2024 15:08	224183
Manganese	NELAP	0.0070		0.0217	mg/L	1	06/11/2024 15:08	224183
Nickel	NELAP	0.0050		< 0.0050	mg/L	1	06/11/2024 15:08	224183
Selenium	NELAP	0.0400		< 0.0400	mg/L	1	06/11/2024 15:08	224183
Silver	NELAP	0.0070		< 0.0070	mg/L	1	06/11/2024 15:08	224183
Vanadium	NELAP	0.0100		< 0.0100	mg/L	1	06/11/2024 15:08	224183
Zinc	NELAP	0.0100		< 0.0100	mg/L	1	06/11/2024 15:08	224183



Laboratory Results

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24051908

Client Project: Meredosia GW Monitoring Q2 2024

Report Date: 21-Jun-24

Lab ID: 24051908-010

Client Sample ID: APW-1 DUP

Matrix: GROUNDWATER

Collection Date: 06/10/2024 11:52

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		0.0195	mg/L	1	06/12/2024 16:25	224240
Beryllium	NELAP	0.0005		< 0.0005	mg/L	1	06/12/2024 16:25	224240
Boron	NELAP	0.0200		0.0395	mg/L	1	06/12/2024 16:25	224240
Cadmium	NELAP	0.0020		< 0.0020	mg/L	1	06/12/2024 16:25	224240
Chromium	NELAP	0.0050		< 0.0050	mg/L	1	06/12/2024 16:25	224240
Cobalt	NELAP	0.0050		< 0.0050	mg/L	1	06/13/2024 10:44	224240
Copper	NELAP	0.0050		< 0.0050	mg/L	1	06/13/2024 10:44	224240
Iron	NELAP	0.0400		1.07	mg/L	1	06/12/2024 16:25	224240
Manganese	NELAP	0.0070		0.136	mg/L	1	06/12/2024 16:25	224240
Nickel	NELAP	0.0050	J	0.0047	mg/L	1	06/12/2024 16:25	224240
Selenium	NELAP	0.0400		< 0.0400	mg/L	1	06/13/2024 10:44	224240
Silver	NELAP	0.0070		< 0.0070	mg/L	1	06/12/2024 16:25	224240
Vanadium	NELAP	0.010	J	0.0026	mg/L	1	06/12/2024 16:25	224240
Zinc	NELAP	0.0100		< 0.0100	mg/L	1	06/12/2024 16:25	224240
SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)								
Antimony	NELAP	0.0010	J	0.0007	mg/L	5	06/12/2024 11:43	224183
Arsenic	NELAP	0.0010		< 0.0010	mg/L	5	06/12/2024 11:43	224183
Lead	NELAP	0.0010		< 0.0010	mg/L	5	06/12/2024 11:43	224183
Thallium	NELAP	0.0020		< 0.0020	mg/L	5	06/12/2024 11:43	224183
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		< 0.0010	mg/L	5	06/14/2024 11:57	224240
Arsenic	NELAP	0.0010	J	0.0007	mg/L	5	06/14/2024 11:57	224240
Lead	NELAP	0.0010	J	0.0010	mg/L	5	06/17/2024 11:34	224240
Thallium	NELAP	0.0020		< 0.0020	mg/L	5	06/14/2024 11:57	224240
SW-846 7470A (DISSOLVED)								
Mercury	NELAP	0.00020		< 0.00020	mg/L	1	06/12/2024 13:18	224207
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		< 0.00020	mg/L	1	06/12/2024 13:16	224207



Laboratory Results

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24051908

Client Project: Meredosia GW Monitoring Q2 2024

Report Date: 21-Jun-24

Lab ID: 24051908-011

Client Sample ID: Field Blank

Matrix: AQUEOUS

Collection Date: 06/12/2024 11:52

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
STANDARD METHODS 2540 C (DISSOLVED) 1997, 2011								
Total Dissolved Solids	NELAP	20		< 20	mg/L	1	06/14/2024 11:07	R348876
STANDARD METHODS 4500-NO3 F (DISSOLVED) 2000, 2011								
Nitrogen, Nitrate (as N)	NELAP	0.050		< 0.050	mg/L	1	06/13/2024 12:47	R348786
SW-846 9012A (TOTAL)								
Cyanide	NELAP	0.005		< 0.005	mg/L	1	06/14/2024 14:08	224386
SW-846 9036 (DISSOLVED)								
Sulfate	NELAP	10		< 10	mg/L	1	06/13/2024 14:30	R348727
SW-846 9214 (DISSOLVED)								
Fluoride	NELAP	0.10	J	0.06	mg/L	1	06/13/2024 11:21	R348746
SW-846 9251 (DISSOLVED)								
Chloride	NELAP	4		< 4	mg/L	1	06/13/2024 14:30	R348775
SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)								
Barium	NELAP	0.0025		< 0.0025	mg/L	1	06/13/2024 16:15	224381
Beryllium	NELAP	0.0005		< 0.0005	mg/L	1	06/13/2024 16:15	224381
Boron	NELAP	0.0200		< 0.0200	mg/L	1	06/13/2024 16:15	224381
Cadmium	NELAP	0.0020		< 0.0020	mg/L	1	06/13/2024 16:15	224381
Chromium	NELAP	0.0050		< 0.0050	mg/L	1	06/13/2024 16:15	224381
Cobalt	NELAP	0.0050		< 0.0050	mg/L	1	06/13/2024 16:15	224381
Copper	NELAP	0.0050		< 0.0050	mg/L	1	06/13/2024 16:15	224381
Iron	NELAP	0.0400		< 0.0400	mg/L	1	06/13/2024 16:15	224381
Manganese	NELAP	0.0070		< 0.0070	mg/L	1	06/13/2024 16:15	224381
Nickel	NELAP	0.0050		< 0.0050	mg/L	1	06/13/2024 16:15	224381
Selenium	NELAP	0.0400		< 0.0400	mg/L	1	06/13/2024 16:15	224381
Silver	NELAP	0.0070		< 0.0070	mg/L	1	06/13/2024 16:15	224381
Vanadium	NELAP	0.0100		< 0.0100	mg/L	1	06/13/2024 16:15	224381
Zinc	NELAP	0.0100		< 0.0100	mg/L	1	06/13/2024 16:15	224381
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		< 0.0025	mg/L	1	06/17/2024 15:57	224424
Beryllium	NELAP	0.0005	J	0.0002	mg/L	1	06/17/2024 15:57	224424
Boron	NELAP	0.0200		< 0.0200	mg/L	1	06/17/2024 15:57	224424
Cadmium	NELAP	0.0020		< 0.0020	mg/L	1	06/17/2024 15:57	224424
Chromium	NELAP	0.0050		< 0.0050	mg/L	1	06/17/2024 15:57	224424
Cobalt	NELAP	0.0050		< 0.0050	mg/L	1	06/17/2024 15:57	224424
Copper	NELAP	0.0050		< 0.0050	mg/L	1	06/17/2024 15:57	224424
Iron	NELAP	0.0400		< 0.0400	mg/L	1	06/17/2024 15:57	224424
Manganese	NELAP	0.0070		< 0.0070	mg/L	1	06/17/2024 15:57	224424
Nickel	NELAP	0.0050		< 0.0050	mg/L	1	06/17/2024 15:57	224424
Selenium	NELAP	0.0400		< 0.0400	mg/L	1	06/17/2024 15:57	224424
Silver	NELAP	0.0070		< 0.0070	mg/L	1	06/17/2024 15:57	224424
Vanadium	NELAP	0.0100		< 0.0100	mg/L	1	06/17/2024 15:57	224424
Zinc	NELAP	0.0100		< 0.0100	mg/L	1	06/17/2024 15:57	224424
SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)								
Antimony	NELAP	0.0010	J	0.0009	mg/L	5	06/14/2024 14:38	224381
Arsenic	NELAP	0.0010		< 0.0010	mg/L	5	06/14/2024 14:38	224381
Lead	NELAP	0.0010		< 0.0010	mg/L	5	06/14/2024 14:38	224381
Thallium	NELAP	0.0020		< 0.0020	mg/L	5	06/14/2024 14:38	224381



Laboratory Results

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

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24051908

Client Project: Meredosia GW Monitoring Q2 2024

Report Date: 21-Jun-24

Lab ID: 24051908-011

Client Sample ID: Field Blank

Matrix: AQUEOUS

Collection Date: 06/12/2024 11:52

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		< 0.0010	mg/L	5	06/17/2024 22:04	224424
Arsenic	NELAP	0.0010		< 0.0010	mg/L	5	06/17/2024 22:04	224424
Lead	NELAP	0.0010		< 0.0010	mg/L	5	06/17/2024 22:04	224424
Thallium	NELAP	0.0020		< 0.0020	mg/L	5	06/17/2024 22:04	224424
SW-846 7470A (DISSOLVED)								
Mercury	NELAP	0.00020		< 0.00020	mg/L	1	06/14/2024 14:52	224385
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		< 0.00020	mg/L	1	06/14/2024 14:49	224385



Laboratory Results

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24051908

Client Project: Meredosia GW Monitoring Q2 2024

Report Date: 21-Jun-24

Lab ID: 24051908-012

Client Sample ID: APW-10

Matrix: GROUNDWATER

Collection Date: 06/10/2024 13:00

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		414.82	ft	1	06/10/2024 13:00	R348845
Depth to water	*	-5.00		23.48	ft	1	06/10/2024 13:00	R348845
Depth to water from measuring point	*	0		26.83	ft	1	06/10/2024 13:00	R348845
Elevation of groundwater surface	*	0		430.62	ft	1	06/10/2024 13:00	R348845
Measuring Point Elevation	*	0		457.45	ft	1	06/10/2024 13:00	R348845
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		7.6	NTU	1	06/10/2024 13:00	R348845
STANDARD METHODS 18TH ED. 2580 B FIELD								
Oxidation-Reduction Potential	*	-300		75	mV	1	06/10/2024 13:00	R348845
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		14.8	°C	1	06/10/2024 13:00	R348845
STANDARD METHODS 4500-O G FIELD								
Oxygen, Dissolved	*	0		3.22	mg/L	1	06/10/2024 13:00	R348845
SW-846 9040B								
pH, Field	*	1.00		7.64		1	06/10/2024 13:00	R348845
SW-846 9050A								
Spec. Conductance, Field	*	1.00		418	µmhos/cm@25C	1	06/10/2024 13:00	R348845
STANDARD METHODS 2540 C (DISSOLVED) 1997, 2011								
Total Dissolved Solids	NELAP	20		264	mg/L	1	06/11/2024 8:08	R348654
STANDARD METHODS 4500-NO3 F (DISSOLVED) 2000, 2011								
Nitrogen, Nitrate (as N)	NELAP	0.250		1.91	mg/L	1	06/11/2024 18:00	R348600
SW-846 9012A (TOTAL)								
Cyanide	NELAP	0.005		< 0.005	mg/L	1	06/12/2024 12:29	224226
SW-846 9036 (DISSOLVED)								
Sulfate	NELAP	10		45	mg/L	1	06/13/2024 14:33	R348727
SW-846 9214 (DISSOLVED)								
Fluoride	NELAP	0.10	J	0.07	mg/L	1	06/11/2024 10:13	R348588
SW-846 9251 (DISSOLVED)								
Chloride	NELAP	4	J	3	mg/L	1	06/13/2024 14:33	R348775
SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)								
Barium	NELAP	0.0025		0.0142	mg/L	1	06/11/2024 15:09	224183
Beryllium	NELAP	0.0005		< 0.0005	mg/L	1	06/11/2024 15:09	224183
Boron	NELAP	0.0200		1.26	mg/L	1	06/11/2024 15:09	224183
Cadmium	NELAP	0.0020		< 0.0020	mg/L	1	06/11/2024 15:09	224183
Chromium	NELAP	0.0050		< 0.0050	mg/L	1	06/11/2024 15:09	224183
Cobalt	NELAP	0.0050		< 0.0050	mg/L	1	06/11/2024 15:09	224183
Copper	NELAP	0.0050		< 0.0050	mg/L	1	06/11/2024 15:09	224183
Iron	NELAP	0.0400		< 0.0400	mg/L	1	06/11/2024 15:09	224183
Manganese	NELAP	0.0070		< 0.0070	mg/L	1	06/11/2024 15:09	224183
Nickel	NELAP	0.0050		< 0.0050	mg/L	1	06/11/2024 15:09	224183
Selenium	NELAP	0.0400		< 0.0400	mg/L	1	06/11/2024 15:09	224183
Silver	NELAP	0.0070		< 0.0070	mg/L	1	06/11/2024 15:09	224183
Vanadium	NELAP	0.0100		< 0.0100	mg/L	1	06/11/2024 15:09	224183
Zinc	NELAP	0.0100		< 0.0100	mg/L	1	06/11/2024 15:09	224183



Laboratory Results

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24051908

Client Project: Meredosia GW Monitoring Q2 2024

Report Date: 21-Jun-24

Lab ID: 24051908-012

Client Sample ID: APW-10

Matrix: GROUNDWATER

Collection Date: 06/10/2024 13:00

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		0.0203	mg/L	1	06/12/2024 16:30	224240
Beryllium	NELAP	0.0005		< 0.0005	mg/L	1	06/12/2024 16:30	224240
Boron	NELAP	0.0200		1.56	mg/L	1	06/12/2024 16:30	224240
Cadmium	NELAP	0.0020		< 0.0020	mg/L	1	06/12/2024 16:30	224240
Chromium	NELAP	0.0050		0.0052	mg/L	1	06/12/2024 16:30	224240
Cobalt	NELAP	0.0050		< 0.0050	mg/L	1	06/12/2024 16:30	224240
Copper	NELAP	0.0050	J	0.0032	mg/L	1	06/12/2024 16:30	224240
Iron	NELAP	0.0400		0.363	mg/L	1	06/12/2024 16:30	224240
Manganese	NELAP	0.0070		0.0310	mg/L	1	06/12/2024 16:30	224240
Nickel	NELAP	0.0050		< 0.0050	mg/L	1	06/12/2024 16:30	224240
Selenium	NELAP	0.0400		< 0.0400	mg/L	1	06/12/2024 16:30	224240
Silver	NELAP	0.0070		< 0.0070	mg/L	1	06/12/2024 16:30	224240
Vanadium	NELAP	0.010	J	0.0028	mg/L	1	06/12/2024 16:30	224240
Zinc	NELAP	0.0100		< 0.0100	mg/L	1	06/12/2024 16:30	224240
SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)								
Antimony	NELAP	0.0010		< 0.0010	mg/L	5	06/12/2024 11:48	224183
Arsenic	NELAP	0.0010		0.0015	mg/L	5	06/12/2024 11:48	224183
Lead	NELAP	0.0010		< 0.0010	mg/L	5	06/12/2024 11:48	224183
Thallium	NELAP	0.0020		< 0.0020	mg/L	5	06/12/2024 11:48	224183
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010	BJ	0.0006	mg/L	5	06/13/2024 11:51	224240
Arsenic	NELAP	0.0010		0.0027	mg/L	5	06/13/2024 11:51	224240
Lead	NELAP	0.0010	B	< 0.0010	mg/L	5	06/13/2024 11:51	224240
Thallium	NELAP	0.0020		< 0.0020	mg/L	5	06/14/2024 11:46	224240
<i>Contamination present in the MBLK. Sample results below the reporting limit are reportable per the TNI Standard.</i>								
SW-846 7470A (DISSOLVED)								
Mercury	NELAP	0.00020		< 0.00020	mg/L	1	06/12/2024 13:22	224207
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		< 0.00020	mg/L	1	06/12/2024 13:20	224207



Laboratory Results

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24051908

Client Project: Meredosia GW Monitoring Q2 2024

Report Date: 21-Jun-24

Lab ID: 24051908-013

Client Sample ID: APW-11

Matrix: GROUNDWATER

Collection Date: 06/10/2024 12:24

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		417.30	ft	1	06/10/2024 12:24	R348845
Depth to water	*	-5.00		30.82	ft	1	06/10/2024 12:24	R348845
Depth to water from measuring point	*	0		34.33	ft	1	06/10/2024 12:24	R348845
Elevation of groundwater surface	*	0		431.07	ft	1	06/10/2024 12:24	R348845
Measuring Point Elevation	*	0		465.40	ft	1	06/10/2024 12:24	R348845
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		18	NTU	1	06/10/2024 12:24	R348845
STANDARD METHODS 18TH ED. 2580 B FIELD								
Oxidation-Reduction Potential	*	-300		51	mV	1	06/10/2024 12:24	R348845
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		16.3	°C	1	06/10/2024 12:24	R348845
STANDARD METHODS 4500-O G FIELD								
Oxygen, Dissolved	*	0		1.36	mg/L	1	06/10/2024 12:24	R348845
SW-846 9040B								
pH, Field	*	1.00		7.53		1	06/10/2024 12:24	R348845
SW-846 9050A								
Spec. Conductance, Field	*	1.00		554	µmhos/cm@25C	1	06/10/2024 12:24	R348845
STANDARD METHODS 2540 C (DISSOLVED) 1997, 2011								
Total Dissolved Solids	NELAP	20		360	mg/L	1	06/11/2024 8:09	R348654
STANDARD METHODS 4500-NO3 F (DISSOLVED) 2000, 2011								
Nitrogen, Nitrate (as N)	NELAP	0.250		1.46	mg/L	1	06/11/2024 18:03	R348600
SW-846 9012A (TOTAL)								
Cyanide	NELAP	0.005		< 0.005	mg/L	1	06/12/2024 12:34	224226
SW-846 9036 (DISSOLVED)								
Sulfate	NELAP	20		67	mg/L	2	06/13/2024 14:46	R348727
SW-846 9214 (DISSOLVED)								
Fluoride	NELAP	0.10	J	0.09	mg/L	1	06/11/2024 10:15	R348588
SW-846 9251 (DISSOLVED)								
Chloride	NELAP	4	J	3	mg/L	1	06/13/2024 14:41	R348775
SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)								
Barium	NELAP	0.0025		0.0131	mg/L	1	06/11/2024 15:10	224183
Beryllium	NELAP	0.0005		< 0.0005	mg/L	1	06/11/2024 15:10	224183
Boron	NELAP	0.0200	X	2.31	mg/L	1	06/11/2024 15:10	224183
Cadmium	NELAP	0.0020		< 0.0020	mg/L	1	06/11/2024 15:10	224183
Chromium	NELAP	0.0050		< 0.0050	mg/L	1	06/11/2024 15:10	224183
Cobalt	NELAP	0.0050		< 0.0050	mg/L	1	06/11/2024 15:10	224183
Copper	NELAP	0.0050		< 0.0050	mg/L	1	06/11/2024 15:10	224183
Iron	NELAP	0.0400		< 0.0400	mg/L	1	06/11/2024 15:10	224183
Manganese	NELAP	0.0070		0.0277	mg/L	1	06/11/2024 15:10	224183
Nickel	NELAP	0.0050		< 0.0050	mg/L	1	06/11/2024 15:10	224183
Selenium	NELAP	0.0400		< 0.0400	mg/L	1	06/11/2024 15:10	224183
Silver	NELAP	0.0070		< 0.0070	mg/L	1	06/11/2024 15:10	224183
Vanadium	NELAP	0.0100		< 0.0100	mg/L	1	06/11/2024 15:10	224183
Zinc	NELAP	0.0100		< 0.0100	mg/L	1	06/11/2024 15:10	224183



Laboratory Results

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Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24051908

Client Project: Meredosia GW Monitoring Q2 2024

Report Date: 21-Jun-24

Lab ID: 24051908-013

Client Sample ID: APW-11

Matrix: GROUNDWATER

Collection Date: 06/10/2024 12:24

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		0.0193	mg/L	1	06/12/2024 16:31	224240
Beryllium	NELAP	0.0005		< 0.0005	mg/L	1	06/12/2024 16:31	224240
Boron	NELAP	0.0200		2.76	mg/L	1	06/12/2024 16:31	224240
Cadmium	NELAP	0.0020		< 0.0020	mg/L	1	06/12/2024 16:31	224240
Chromium	NELAP	0.0050		< 0.0050	mg/L	1	06/12/2024 16:31	224240
Cobalt	NELAP	0.0050		< 0.0050	mg/L	1	06/12/2024 16:31	224240
Copper	NELAP	0.0050	J	0.0046	mg/L	1	06/12/2024 16:31	224240
Iron	NELAP	0.0400		0.287	mg/L	1	06/12/2024 16:31	224240
Manganese	NELAP	0.0070		0.0953	mg/L	1	06/12/2024 16:31	224240
Nickel	NELAP	0.0050		< 0.0050	mg/L	1	06/12/2024 16:31	224240
Selenium	NELAP	0.0400		< 0.0400	mg/L	1	06/12/2024 16:31	224240
Silver	NELAP	0.0070		< 0.0070	mg/L	1	06/12/2024 16:31	224240
Vanadium	NELAP	0.0100		< 0.0100	mg/L	1	06/12/2024 16:31	224240
Zinc	NELAP	0.010	J	0.0072	mg/L	1	06/12/2024 16:31	224240
SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)								
Antimony	NELAP	0.0010	J	0.0008	mg/L	5	06/12/2024 13:10	224183
Arsenic	NELAP	0.0010	J	0.0007	mg/L	5	06/12/2024 13:10	224183
Lead	NELAP	0.0010		< 0.0010	mg/L	5	06/12/2024 13:10	224183
Thallium	NELAP	0.0020	J	0.0015	mg/L	5	06/12/2024 13:10	224183
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010	BJ	0.0005	mg/L	5	06/13/2024 11:57	224240
Arsenic	NELAP	0.0010	J	0.0009	mg/L	5	06/13/2024 11:57	224240
Lead	NELAP	0.0010	B	< 0.0010	mg/L	5	06/13/2024 11:57	224240
Thallium	NELAP	0.0020		< 0.0020	mg/L	5	06/14/2024 11:52	224240
<i>Contamination present in the MBLK. Sample results below the reporting limit are reportable per the TNI Standard.</i>								
SW-846 7470A (DISSOLVED)								
Mercury	NELAP	0.00020		< 0.00020	mg/L	1	06/12/2024 13:35	224207
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		< 0.00020	mg/L	1	06/12/2024 13:24	224207



Laboratory Results

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24051908

Client Project: Meredosia GW Monitoring Q2 2024

Report Date: 21-Jun-24

Lab ID: 24051908-014

Client Sample ID: APW-12

Matrix: GROUNDWATER

Collection Date: 06/12/2024 10:34

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		411.80	ft	1	06/12/2024 10:34	R348845
Depth to water	*	-5.00		3.72	ft	1	06/12/2024 10:34	R348845
Depth to water from measuring point	*	0		7.30	ft	1	06/12/2024 10:34	R348845
Elevation of groundwater surface	*	0		428.22	ft	1	06/12/2024 10:34	R348845
Measuring Point Elevation	*	0		435.52	ft	1	06/12/2024 10:34	R348845
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		5.8	NTU	1	06/12/2024 10:34	R348845
STANDARD METHODS 18TH ED. 2580 B FIELD								
Oxidation-Reduction Potential	*	-300		-17	mV	1	06/12/2024 10:34	R348845
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		16.0	°C	1	06/12/2024 10:34	R348845
STANDARD METHODS 4500-O G FIELD								
Oxygen, Dissolved	*	0		0.63	mg/L	1	06/12/2024 10:34	R348845
SW-846 9040B								
pH, Field	*	1.00		6.93		1	06/12/2024 10:34	R348845
SW-846 9050A								
Spec. Conductance, Field	*	1.00		628	µmhos/cm@25C	1	06/12/2024 10:34	R348845
STANDARD METHODS 2540 C (DISSOLVED) 1997, 2011								
Total Dissolved Solids	NELAP	20		460	mg/L	1	06/14/2024 11:06	R348876
STANDARD METHODS 4500-NO3 F (DISSOLVED) 2000, 2011								
Nitrogen, Nitrate (as N)	NELAP	0.100		1.01	mg/L	1	06/13/2024 12:49	R348786
SW-846 9012A (TOTAL)								
Cyanide	NELAP	0.005		< 0.005	mg/L	1	06/14/2024 14:13	224386
SW-846 9036 (DISSOLVED)								
Sulfate	NELAP	10		32	mg/L	1	06/13/2024 15:05	R348727
SW-846 9214 (DISSOLVED)								
Fluoride	NELAP	0.10		0.29	mg/L	1	06/13/2024 11:09	R348746
SW-846 9251 (DISSOLVED)								
Chloride	NELAP	4		45	mg/L	1	06/13/2024 15:05	R348775
SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)								
Barium	NELAP	0.0025		0.116	mg/L	1	06/13/2024 16:15	224381
Beryllium	NELAP	0.0005		< 0.0005	mg/L	1	06/13/2024 16:15	224381
Boron	NELAP	0.0200		0.0849	mg/L	1	06/13/2024 16:15	224381
Cadmium	NELAP	0.0020		< 0.0020	mg/L	1	06/13/2024 16:15	224381
Chromium	NELAP	0.0050		< 0.0050	mg/L	1	06/13/2024 16:15	224381
Cobalt	NELAP	0.0050	J	0.0039	mg/L	1	06/13/2024 16:15	224381
Copper	NELAP	0.0050		< 0.0050	mg/L	1	06/13/2024 16:15	224381
Iron	NELAP	0.0400		0.119	mg/L	1	06/13/2024 16:15	224381
Manganese	NELAP	0.0070	X	0.879	mg/L	1	06/13/2024 16:15	224381
Nickel	NELAP	0.0050	J	0.0043	mg/L	1	06/13/2024 16:15	224381
Selenium	NELAP	0.0400		< 0.0400	mg/L	1	06/13/2024 16:15	224381
Silver	NELAP	0.0070		< 0.0070	mg/L	1	06/13/2024 16:15	224381
Vanadium	NELAP	0.0100		< 0.0100	mg/L	1	06/13/2024 16:15	224381
Zinc	NELAP	0.0100		< 0.0100	mg/L	1	06/13/2024 16:15	224381



Laboratory Results

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24051908

Client Project: Meredosia GW Monitoring Q2 2024

Report Date: 21-Jun-24

Lab ID: 24051908-014

Client Sample ID: APW-12

Matrix: GROUNDWATER

Collection Date: 06/12/2024 10:34

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		0.171	mg/L	1	06/17/2024 16:12	224439
Beryllium	NELAP	0.0005		< 0.0005	mg/L	1	06/17/2024 16:12	224439
Boron	NELAP	0.0200		0.104	mg/L	1	06/17/2024 16:12	224439
Cadmium	NELAP	0.0020		< 0.0020	mg/L	1	06/17/2024 16:12	224439
Chromium	NELAP	0.0050		< 0.0050	mg/L	1	06/17/2024 16:12	224439
Cobalt	NELAP	0.0050	J	0.0044	mg/L	1	06/17/2024 16:12	224439
Copper	NELAP	0.0050	J	0.0043	mg/L	1	06/17/2024 16:12	224439
Iron	NELAP	0.0400		0.551	mg/L	1	06/17/2024 16:12	224439
Manganese	NELAP	0.0070		2.07	mg/L	1	06/17/2024 16:12	224439
Nickel	NELAP	0.0050		0.0126	mg/L	1	06/17/2024 16:12	224439
Selenium	NELAP	0.0400		< 0.0400	mg/L	1	06/17/2024 16:12	224439
Silver	NELAP	0.0070		< 0.0070	mg/L	1	06/17/2024 16:12	224439
Vanadium	NELAP	0.0100		< 0.0100	mg/L	1	06/17/2024 16:12	224439
Zinc	NELAP	0.010	J	0.0067	mg/L	1	06/17/2024 16:12	224439
SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)								
Antimony	NELAP	0.0010		< 0.0010	mg/L	5	06/14/2024 14:44	224381
Arsenic	NELAP	0.0010		0.0011	mg/L	5	06/20/2024 17:01	224644
Lead	NELAP	0.0010		< 0.0010	mg/L	5	06/14/2024 14:44	224381
Thallium	NELAP	0.0020		< 0.0020	mg/L	5	06/14/2024 14:44	224381
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010	BJ	0.0005	mg/L	5	06/18/2024 18:09	224439
Arsenic	NELAP	0.0010		0.0024	mg/L	5	06/18/2024 18:09	224439
Lead	NELAP	0.0010		< 0.0010	mg/L	5	06/18/2024 18:09	224439
Thallium	NELAP	0.0020		< 0.0020	mg/L	5	06/18/2024 18:09	224439
<i>Contamination present in the MBLK. Sample results below the reporting limit are reportable per the TNI Standard.</i>								
SW-846 7470A (DISSOLVED)								
Mercury	NELAP	0.00020		< 0.00020	mg/L	1	06/14/2024 14:56	224385
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		< 0.00020	mg/L	1	06/14/2024 14:54	224385



Quality Control Results

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Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24051908

Client Project: Meredosia GW Monitoring Q2 2024

Report Date: 21-Jun-24

SW-846 9040B

Batch R348845		SampType: LCS		Units							
SampID: LCS-1											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
pH, Field	*	1.00		7.01	7.000	0	100.1	98.57	101.4	06/10/2024	

Batch R348845		SampType: LCS		Units							
SampID: LCS-2											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
pH, Field	*	1.00		6.99	7.000	0	99.9	98.57	101.4	06/11/2024	

Batch R348845		SampType: LCS		Units							
SampID: LCS-3											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
pH, Field	*	1.00		7.00	7.000	0	100.0	98.57	101.4	06/12/2024	

SW-846 9050A

Batch R348845		SampType: LCS		Units µmhos/cm @25C							
SampID: LCS-1											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Spec. Conductance, Field	*	1.00		1410	1412	0	99.9	90	110	06/10/2024	

Batch R348845		SampType: LCS		Units µmhos/cm @25C							
SampID: LCS-2											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Spec. Conductance, Field	*	1.00		1410	1412	0	99.9	90	110	06/11/2024	

Batch R348845		SampType: LCS		Units µmhos/cm @25C							
SampID: LCS-3											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Spec. Conductance, Field	*	1.00		1410	1412	0	100.0	90	110	06/12/2024	

STANDARD METHODS 2540 C (DISSOLVED) 1997, 2011

Batch R348654		SampType: MBLK		Units mg/L							
SampID: MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Total Dissolved Solids		20		< 20	16.00	0	0	-100	100	06/11/2024	



Quality Control Results

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

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24051908

Client Project: Meredosia GW Monitoring Q2 2024

Report Date: 21-Jun-24

STANDARD METHODS 2540 C (DISSOLVED) 1997, 2011

Batch R348654		SampType: LCS		Units mg/L							Date Analyzed
SampID: LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Total Dissolved Solids		20		970	1000	0	97.0	90	110	06/11/2024	

Batch R348732		SampType: MBLK		Units mg/L							Date Analyzed
SampID: MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Total Dissolved Solids		20		< 20	16.00	0	0	-100	100	06/12/2024	

Batch R348732		SampType: LCS		Units mg/L							Date Analyzed
SampID: LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Total Dissolved Solids		20		944	1000	0	94.4	90	110	06/12/2024	

Batch R348732		SampType: DUP		Units mg/L							RPD Limit 10	Date Analyzed
SampID: 24060766-001EDUP												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Total Dissolved Solids		50		4020				3955	1.63	06/12/2024		

Batch R348732		SampType: DUP		Units mg/L							RPD Limit 10	Date Analyzed
SampID: 24060846-004ADUP												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Total Dissolved Solids		50		95				90.00	5.41	06/12/2024		

Batch R348876		SampType: MBLK		Units mg/L							Date Analyzed
SampID: MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Total Dissolved Solids		20		< 20	16.00	0	0	-100	100	06/14/2024	

Batch R348876		SampType: LCS		Units mg/L							Date Analyzed
SampID: LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Total Dissolved Solids		20		972	1000	0	97.2	90	110	06/14/2024	

Batch R348876		SampType: DUP		Units mg/L							RPD Limit 10	Date Analyzed
SampID: 24060969-005ADUP												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Total Dissolved Solids		20		418				422.0	0.95	06/14/2024		



Quality Control Results

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

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24051908

Client Project: Meredosia GW Monitoring Q2 2024

Report Date: 21-Jun-24

STANDARD METHODS 2540 C (DISSOLVED) 1997, 2011

Batch R348876		SampType: DUP		Units mg/L				RPD Limit 10			Date Analyzed
SampID: 24061018-001ADUP											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Total Dissolved Solids		20		500				510.0	1.98	06/14/2024	

STANDARD METHODS 4500-NO2 B (DISSOLVED) 2000, 2011

Batch R348516		SampType: MBLK		Units mg/L				RPD Limit 10		Date Analyzed
SampID: MBLK										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrite (as N)		0.05		< 0.05	0.0250	0	0	-100	100	06/10/2024
Nitrogen, Nitrite (as N)		0.05		< 0.05	0.0250	0	0	-100	100	06/10/2024

Batch R348516		SampType: LCS		Units mg/L				RPD Limit 10		Date Analyzed
SampID: LCS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrite (as N)		0.05		0.30	0.3045	0	97.5	90	110	06/10/2024
Nitrogen, Nitrite (as N)		0.05		0.30	0.3045	0	100.2	90	110	06/10/2024

Batch R348516		SampType: MS		Units mg/L				RPD Limit 10		Date Analyzed
SampID: 24051908-001BMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrite (as N)		0.05		0.53	0.5000	0	105.4	85	115	06/10/2024

Batch R348516		SampType: MSD		Units mg/L				RPD Limit 10			Date Analyzed
SampID: 24051908-001BMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Nitrogen, Nitrite (as N)		0.05		0.51	0.5000	0	102.2	0.5270	3.08	06/10/2024	

Batch R348516		SampType: MS		Units mg/L				RPD Limit 10		Date Analyzed
SampID: 24060723-002AMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrite (as N)		0.05		0.52	0.5000	0.02500	98.0	85	115	06/10/2024

Batch R348516		SampType: MSD		Units mg/L				RPD Limit 10			Date Analyzed
SampID: 24060723-002AMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Nitrogen, Nitrite (as N)		0.05		0.50	0.5000	0.02500	94.6	0.5150	3.36	06/10/2024	



Quality Control Results

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

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24051908

Client Project: Meredosia GW Monitoring Q2 2024

Report Date: 21-Jun-24

STANDARD METHODS 4500-NO2 B (DISSOLVED) 2000, 2011

Batch R348516		SampType: MS		Units mg/L							Date Analyzed
SampID: 24060761-001AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrite (as N)		0.05		0.47	0.5000	0	93.6	85	115	06/10/2024	

Batch R348516		SampType: MSD		Units mg/L							RPD Limit 10	Date Analyzed
SampID: 24060761-001AMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Nitrogen, Nitrite (as N)		0.05		0.48	0.5000	0	95.2	0.4680	1.69	06/10/2024		

Batch R348671		SampType: MBLK		Units mg/L							Date Analyzed
SampID: MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrite (as N)		0.05		< 0.05	0.0250	0	0	-100	100	06/12/2024	
Nitrogen, Nitrite (as N)		0.05		< 0.05	0.0250	0	0	-100	100	06/12/2024	

Batch R348671		SampType: LCS		Units mg/L							Date Analyzed
SampID: LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrite (as N)		0.05		0.31	0.3045	0	101.8	90	110	06/12/2024	
Nitrogen, Nitrite (as N)		0.05		0.31	0.3045	0	101.5	90	110	06/12/2024	

Batch R348671		SampType: MS		Units mg/L							Date Analyzed
SampID: 24060914-001AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrite (as N)		0.05	H	0.48	0.5000	0	96.8	85	115	06/12/2024	

Batch R348671		SampType: MSD		Units mg/L							RPD Limit 10	Date Analyzed
SampID: 24060914-001AMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Nitrogen, Nitrite (as N)		0.05	H	0.48	0.5000	0	96.8	0.4840	0.00	06/12/2024		

Batch R348671		SampType: MS		Units mg/L							Date Analyzed
SampID: 24060932-001AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrite (as N)		0.05		0.50	0.5000	0.03500	92.2	85	115	06/12/2024	



Quality Control Results

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

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24051908

Client Project: Meredosia GW Monitoring Q2 2024

Report Date: 21-Jun-24

STANDARD METHODS 4500-NO2 B (DISSOLVED) 2000, 2011

Batch R348671		SampType: MSD		Units mg/L				RPD Limit 10			
SampID: 24060932-001AMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Nitrogen, Nitrite (as N)		0.05	S	0.45	0.5000	0.03500	83.6	0.4960	9.06	06/12/2024	

Batch R348671		SampType: MS		Units mg/L							
SampID: 24060969-005CMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrite (as N)		0.05	S	0.60	0.5000	0	120.2	85	115	06/12/2024	

Batch R348671		SampType: MSD		Units mg/L				RPD Limit 10			
SampID: 24060969-005CMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Nitrogen, Nitrite (as N)		0.05	S	0.59	0.5000	0	118.6	0.6010	1.34	06/12/2024	

Batch R348671		SampType: MS		Units mg/L							
SampID: 24061018-002AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrite (as N)		0.05	S	0.62	0.5000	0	124.8	85	115	06/12/2024	

Batch R348671		SampType: MSD		Units mg/L				RPD Limit 10			
SampID: 24061018-002AMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Nitrogen, Nitrite (as N)		0.05	S	0.61	0.5000	0	122.4	0.6240	1.94	06/12/2024	

Batch R348753		SampType: MBLK		Units mg/L							
SampID: MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrite (as N)		0.05		< 0.05	0.0250	0	0	-100	100	06/13/2024	

Batch R348753		SampType: LCS		Units mg/L							
SampID: LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrite (as N)		0.05		0.30	0.3045	0	98.5	90	110	06/13/2024	

Batch R348753		SampType: MS		Units mg/L							
SampID: 24051908-007BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrite (as N)		0.05	S	0.63	0.5000	0	125.2	85	115	06/13/2024	



Quality Control Results

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Client: AmerenEnergy Medina Valley Cogen, LLC
 Client Project: Meredosia GW Monitoring Q2 2024

Work Order: 24051908
 Report Date: 21-Jun-24

STANDARD METHODS 4500-NO2 B (DISSOLVED) 2000, 2011

Batch R348753		SampType: MSD		Units mg/L			RPD Limit 10				Date Analyzed
SampID: 24051908-007BMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD		
Nitrogen, Nitrite (as N)		0.05	S	0.60	0.5000	0	120.0	0.6260	4.24	06/13/2024	

STANDARD METHODS 4500-NO3 F (DISSOLVED) 2000, 2011

Batch R348600		SampType: MBLK		Units mg/L							Date Analyzed
SampID: ICB/MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit		
Nitrogen, Nitrate (as N)		0.050		< 0.050						06/11/2024	
Nitrogen, Nitrate-Nitrite (as N)		0.050		< 0.050	0.0090	0	0	-100	100	06/11/2024	

Batch R348600 SampType: LCS Units mg/L

SampID: ICV/LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrate-Nitrite (as N)		0.050		0.496	0.5000	0	99.2	90	110	06/11/2024	

Batch R348600 SampType: MS Units mg/L

SampID: 24051908-006BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrate-Nitrite (as N)		0.050		0.456	0.2500	0.2110	98.0	85	115	06/11/2024	

Batch R348600 SampType: MSD Units mg/L

SampID: 24051908-006BMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Nitrogen, Nitrate-Nitrite (as N)		0.050		0.462	0.2500	0.2110	100.4	0.4560	1.31	06/11/2024	

Batch R348600 SampType: MS Units mg/L

SampID: 24051908-008BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrate-Nitrite (as N)		0.500		6.65	2.500	4.105	101.6	85	115	06/11/2024	

Batch R348600 SampType: MSD Units mg/L

SampID: 24051908-008BMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Nitrogen, Nitrate-Nitrite (as N)		0.500		6.55	2.500	4.105	97.7	6.646	1.50	06/11/2024	



Quality Control Results

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Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24051908

Client Project: Meredosia GW Monitoring Q2 2024

Report Date: 21-Jun-24

STANDARD METHODS 4500-NO3 F (DISSOLVED) 2000, 2011

Batch R348600		SampType: MS		Units mg/L							Date Analyzed
SampID: 24060339-001JMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrate-Nitrite (as N)		2.50		28.5	12.50	15.93	100.8	90	110	06/11/2024	

Batch R348600		SampType: MSD		Units mg/L							RPD Limit 10	Date Analyzed
SampID: 24060339-001JMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Nitrogen, Nitrate-Nitrite (as N)		2.50		28.4	12.50	15.93	99.7	28.54	0.51	06/11/2024		

Batch R348600		SampType: MS		Units mg/L							Date Analyzed
SampID: 24060552-002DMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrate-Nitrite (as N)		0.050		0.267	0.2500	0.01000	102.8	90	110	06/11/2024	

Batch R348600		SampType: MSD		Units mg/L							RPD Limit 10	Date Analyzed
SampID: 24060552-002DMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Nitrogen, Nitrate-Nitrite (as N)		0.050		0.264	0.2500	0.01000	101.6	0.2670	1.13	06/11/2024		

Batch R348600		SampType: MS		Units mg/L							Date Analyzed
SampID: 24060553-007EMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrate-Nitrite (as N)		0.050		0.241	0.2500	0	96.4	90	110	06/11/2024	

Batch R348600		SampType: MSD		Units mg/L							RPD Limit 10	Date Analyzed
SampID: 24060553-007EMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Nitrogen, Nitrate-Nitrite (as N)		0.050		0.257	0.2500	0	102.8	0.2410	6.43	06/11/2024		

Batch R348600		SampType: MS		Units mg/L							Date Analyzed
SampID: 24060614-001BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrate-Nitrite (as N)		1.00	E	20.4	5.000	15.38	100.9	90	110	06/11/2024	

Batch R348600		SampType: MSD		Units mg/L							RPD Limit 10	Date Analyzed
SampID: 24060614-001BMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Nitrogen, Nitrate-Nitrite (as N)		1.00	E	20.5	5.000	15.38	102.3	20.43	0.33	06/11/2024		



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Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24051908

Client Project: Meredosia GW Monitoring Q2 2024

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STANDARD METHODS 4500-NO3 F (DISSOLVED) 2000, 2011

Batch R348600		SampType: MS		Units mg/L							Date Analyzed
SampID: 24060616-007BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrate-Nitrite (as N)		1.00		17.5	5.000	12.48	101.4	90	110	06/11/2024	

Batch R348600		SampType: MSD		Units mg/L							RPD Limit 10	Date Analyzed
SampID: 24060616-007BMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Nitrogen, Nitrate-Nitrite (as N)		1.00		17.5	5.000	12.48	99.9	17.55	0.42	06/11/2024		

Batch R348600		SampType: MS		Units mg/L							Date Analyzed
SampID: 24060723-002AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrate-Nitrite (as N)		2.50		26.9	12.50	14.26	101.4	90	110	06/11/2024	

Batch R348600		SampType: MSD		Units mg/L							RPD Limit 10	Date Analyzed
SampID: 24060723-002AMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Nitrogen, Nitrate-Nitrite (as N)		2.50		27.0	12.50	14.26	102.0	26.93	0.29	06/11/2024		

Batch R348600		SampType: MS		Units mg/L							Date Analyzed
SampID: 24060756-001FMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrate-Nitrite (as N)		0.050		0.719	0.2500	0.4550	105.6	90	110	06/11/2024	

Batch R348600		SampType: MSD		Units mg/L							RPD Limit 10	Date Analyzed
SampID: 24060756-001FMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Nitrogen, Nitrate-Nitrite (as N)		0.050		0.722	0.2500	0.4550	106.8	0.7190	0.42	06/11/2024		

Batch R348600		SampType: MS		Units mg/L							Date Analyzed
SampID: 24060824-001AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrate-Nitrite (as N)		1.00		12.9	5.000	7.820	100.7	90	110	06/11/2024	

Batch R348600		SampType: MSD		Units mg/L							RPD Limit 10	Date Analyzed
SampID: 24060824-001AMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Nitrogen, Nitrate-Nitrite (as N)		1.00		12.6	5.000	7.820	96.3	12.86	1.76	06/11/2024		



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Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24051908

Client Project: Meredosia GW Monitoring Q2 2024

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STANDARD METHODS 4500-NO3 F (DISSOLVED) 2000, 2011

Batch R348600		SampType: MS		Units mg/L							Date Analyzed
SampID: 24060837-001AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrate-Nitrite (as N)		2.50		27.9	12.50	15.20	101.3	90	110	06/11/2024	

Batch R348600		SampType: MSD		Units mg/L							RPD Limit 10	Date Analyzed
SampID: 24060837-001AMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Nitrogen, Nitrate-Nitrite (as N)		2.50		27.9	12.50	15.20	101.5	27.86	0.11	06/11/2024		

Batch R348786		SampType: MBLK		Units mg/L							Date Analyzed
SampID: ICB/MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrate (as N)		0.050		< 0.050						06/13/2024	
Nitrogen, Nitrate-Nitrite (as N)		0.050		< 0.050	0.0090	0	0	-100	100	06/13/2024	

Batch R348786		SampType: LCS		Units mg/L							Date Analyzed
SampID: ICV/LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrate-Nitrite (as N)		0.050		0.513	0.5000	0	102.6	90	110	06/13/2024	

Batch R348786		SampType: MS		Units mg/L							Date Analyzed
SampID: 24061018-003AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrate-Nitrite (as N)		0.050		0.237	0.2500	0.009000	91.2	85	115	06/13/2024	

Batch R348786		SampType: MSD		Units mg/L							RPD Limit 10	Date Analyzed
SampID: 24061018-003AMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Nitrogen, Nitrate-Nitrite (as N)		0.050		0.248	0.2500	0.009000	95.6	0.2370	4.54	06/13/2024		

SW-846 9012A (TOTAL)

Batch 224226		SampType: MBLK		Units mg/L							Date Analyzed
SampID: MBLK 240611 TCN1											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Cyanide		0.005		< 0.005	0.0015	0	0	-100	100	06/12/2024	



Quality Control Results

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Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24051908

Client Project: Meredosia GW Monitoring Q2 2024

Report Date: 21-Jun-24

SW-846 9012A (TOTAL)

Batch 224226		SampType: LCS		Units mg/L							
SampID: LCS 240611 TCN1											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Cyanide		0.005		0.025	0.0250	0	100.9	90	110	06/12/2024	

Batch 224226		SampType: MS		Units µg/L							
SampID: 24060799-002BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Cyanide		5.00		25.7	25.00	0	102.9	90	110	06/12/2024	

Batch 224226		SampType: MSD		Units µg/L						RPD Limit 15		Date Analyzed
SampID: 24060799-002BMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Cyanide		5.00		25.7	25.00	0	103.0	25.72	0.06	06/12/2024		

Batch 224321		SampType: MBLK		Units mg/L							
SampID: MBLK 240612 TCN1											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Cyanide		0.005		< 0.005	0.0015	0	0	-100	100	06/13/2024	

Batch 224321		SampType: LCS		Units mg/L							
SampID: LCS 240612 TCN1											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Cyanide		0.005		0.026	0.0250	0	104.3	90	110	06/13/2024	

Batch 224321		SampType: MS		Units mg/L							
SampID: 24060830-001CMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Cyanide		0.005		0.026	0.0250	0.001500	98.9	90	110	06/13/2024	

Batch 224321		SampType: MSD		Units mg/L						RPD Limit 15		Date Analyzed
SampID: 24060830-001CMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Cyanide		0.005		0.027	0.0250	0.001500	101.1	0.02622	2.11	06/13/2024		

Batch 224321		SampType: MS		Units mg/L							
SampID: 24060893-001AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Cyanide		0.005		0.026	0.0250	0	105.7	90	110	06/13/2024	



Quality Control Results

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Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24051908

Client Project: Meredosia GW Monitoring Q2 2024

Report Date: 21-Jun-24

SW-846 9012A (TOTAL)

Batch 224321		SampType: MSD		Units mg/L				RPD Limit 15			Date Analyzed
SampID: 24060893-001AMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Cyanide		0.005		0.027	0.0250	0	107.2	0.02643	1.43	06/13/2024	

Batch 224386		SampType: MBLK		Units mg/L				Low Limit		High Limit	Date Analyzed
SampID: MBLK 240613 TCN1											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Cyanide		0.005		< 0.005	0.0015	0	0	-100	100	06/14/2024	

Batch 224386		SampType: LCS		Units mg/L				Low Limit		High Limit	Date Analyzed
SampID: LCS 240613 TCN1											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Cyanide		0.005		0.026	0.0250	0	105.0	90	110	06/14/2024	

Batch 224386		SampType: MS		Units mg/L				Low Limit		High Limit	Date Analyzed
SampID: 24061006-001CMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Cyanide		0.005	S	0.010	0.0250	0	38.5	90	110	06/14/2024	

Batch 224386		SampType: MSD		Units mg/L				RPD Limit 15			Date Analyzed
SampID: 24061006-001CMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Cyanide		0.005	SR	0.012	0.0250	0	46.0	0.009615	17.90	06/14/2024	

Batch 224386		SampType: MS		Units mg/L				Low Limit		High Limit	Date Analyzed
SampID: 24061048-001CMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Cyanide		0.025		0.134	0.1250	0	107.0	90	110	06/14/2024	

Batch 224386		SampType: MSD		Units mg/L				RPD Limit 15			Date Analyzed
SampID: 24061048-001CMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Cyanide		0.025		0.129	0.1250	0	103.5	0.1338	3.40	06/14/2024	



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Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24051908

Client Project: Meredosia GW Monitoring Q2 2024

Report Date: 21-Jun-24

SW-846 9036 (DISSOLVED)

Batch R348727		SampType: MBLK		Units mg/L						
SampID: ICB/MBLK										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		10		< 10	6.140	0	0	-100	100	06/13/2024

Batch R348727		SampType: LCS		Units mg/L						
SampID: ICV/LCS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		10		19	20.00	0	94.2	90	110	06/13/2024

Batch R348727		SampType: MS		Units mg/L						
SampID: 24051908-007BMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		20		66	40.00	28.55	93.3	85	115	06/13/2024

Batch R348727		SampType: MSD		Units mg/L							RPD Limit 10
SampID: 24051908-007BMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Sulfate		20		72	40.00	28.55	109.0	65.86	9.12	06/13/2024	

Batch R348727		SampType: MS		Units mg/L						
SampID: 24060969-005AMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		10	S	20	20.00	6.370	68.2	85	115	06/13/2024

Batch R348727		SampType: MSD		Units mg/L							RPD Limit 10
SampID: 24060969-005AMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Sulfate		10	S	22	20.00	6.370	77.8	20.01	9.11	06/13/2024	

Batch R348727		SampType: MS		Units mg/L						
SampID: 24060999-008AMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Sulfate		20		77	40.00	38.57	95.6	90	110	06/13/2024

Batch R348727		SampType: MSD		Units mg/L							RPD Limit 10
SampID: 24060999-008AMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Sulfate		20		80	40.00	38.57	102.9	76.82	3.73	06/13/2024	



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Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24051908

Client Project: Meredosia GW Monitoring Q2 2024

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SW-846 9036 (DISSOLVED)

Batch R348727		SampType: MS		Units mg/L							Date Analyzed
SampID: 24061018-001AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		10		45	20.00	26.76	91.3	85	115	06/13/2024	

Batch R348727		SampType: MSD		Units mg/L							RPD Limit 10	Date Analyzed
SampID: 24061018-001AMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Sulfate		10		46	20.00	26.76	97.4	45.01	2.67	06/13/2024		

Batch R348903		SampType: MBLK		Units mg/L							Date Analyzed
SampID: ICB/MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		10		< 10	6.140	0	0	-100	100	06/17/2024	

Batch R348903		SampType: LCS		Units mg/L							Date Analyzed
SampID: ICV/LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		10		19	20.00	0	94.0	90	110	06/17/2024	

Batch R348903		SampType: MS		Units mg/L							Date Analyzed
SampID: 24051908-003BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		50		168	100.0	75.72	91.9	85	115	06/17/2024	

Batch R348903		SampType: MSD		Units mg/L							RPD Limit 10	Date Analyzed
SampID: 24051908-003BMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Sulfate		50		169	100.0	75.72	93.5	167.6	0.97	06/17/2024		

Batch R348903		SampType: MS		Units mg/L							Date Analyzed
SampID: 24061253-001AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		10		42	20.00	23.57	93.6	85	115	06/17/2024	

Batch R348903		SampType: MSD		Units mg/L							RPD Limit 10	Date Analyzed
SampID: 24061253-001AMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Sulfate		10		42	20.00	23.57	93.6	42.28	0.02	06/17/2024		



Quality Control Results

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Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24051908

Client Project: Meredosia GW Monitoring Q2 2024

Report Date: 21-Jun-24

SW-846 9036 (DISSOLVED)

Batch R348903		SampType: MS		Units mg/L							Date Analyzed
SampID: 24061283-001AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Sulfate		10	E	61	20.00	41.74	98.2	85	115	06/17/2024	

Batch R348903		SampType: MSD		Units mg/L							RPD Limit 10	Date Analyzed
SampID: 24061283-001AMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Sulfate		10	E	61	20.00	41.74	94.8	61.38	1.11	06/17/2024		

SW-846 9214 (DISSOLVED)

Batch R348588		SampType: MBLK		Units mg/L							Date Analyzed
SampID: MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Fluoride		0.10	J	0.04	0.0500	0	74.0	-100	100	06/11/2024	

Batch R348588		SampType: LCS		Units mg/L							Date Analyzed
SampID: LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Fluoride		0.10		1.00	1.000	0	100.0	90	110	06/11/2024	

Batch R348588		SampType: MS		Units mg/L							Date Analyzed
SampID: 24060766-001FMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Fluoride		0.10		2.49	2.000	0.3130	108.8	75	125	06/11/2024	

Batch R348588		SampType: MSD		Units mg/L							RPD Limit 15	Date Analyzed
SampID: 24060766-001FMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Fluoride		0.10		2.24	2.000	0.3130	96.4	2.489	10.44	06/11/2024		

Batch R348588		SampType: MS		Units mg/L							Date Analyzed
SampID: 24060813-001AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Fluoride		0.10		3.10	2.000	0.7200	119.2	75	125	06/11/2024	



Quality Control Results

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Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24051908

Client Project: Meredosia GW Monitoring Q2 2024

Report Date: 21-Jun-24

SW-846 9214 (DISSOLVED)

Batch R348588		SampType: MSD		Units mg/L				RPD Limit 15			Date Analyzed
SampID: 24060813-001AMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Fluoride		0.10		2.90	2.000	0.7200	108.9	3.104	6.90	06/11/2024	

Batch R348699		SampType: MBLK		Units mg/L				RPD Limit 15			Date Analyzed
SampID: MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Fluoride		0.10		< 0.10	0.0500	0	0	-100	100	06/12/2024	

Batch R348699		SampType: LCS		Units mg/L				RPD Limit 15			Date Analyzed
SampID: LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Fluoride		0.10		0.92	1.000	0	92.1	90	110	06/12/2024	

Batch R348699		SampType: MS		Units mg/L				RPD Limit 15			Date Analyzed
SampID: 24060856-001AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Fluoride		0.10		2.60	2.000	0.5760	101.0	75	125	06/12/2024	

Batch R348699		SampType: MSD		Units mg/L				RPD Limit 15			Date Analyzed
SampID: 24060856-001AMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Fluoride		0.10		2.61	2.000	0.5760	101.6	2.596	0.46	06/12/2024	

Batch R348746		SampType: MBLK		Units mg/L				RPD Limit 15			Date Analyzed
SampID: MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Fluoride		0.10		< 0.10	0.0500	0	0	-100	100	06/13/2024	

Batch R348746		SampType: LCS		Units mg/L				RPD Limit 15			Date Analyzed
SampID: LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Fluoride		0.10		1.03	1.000	0	103.4	90	110	06/13/2024	

Batch R348746		SampType: MS		Units mg/L				RPD Limit 15			Date Analyzed
SampID: 24051908-014BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Fluoride		0.10		2.35	2.000	0.2890	103.2	75	125	06/13/2024	



Quality Control Results

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Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24051908

Client Project: Meredosia GW Monitoring Q2 2024

Report Date: 21-Jun-24

SW-846 9214 (DISSOLVED)

Batch R348746		SampType: MSD		Units mg/L			RPD Limit 15			
SampID: 24051908-014BMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride		0.10		2.35	2.000	0.2890	103.0	2.354	0.17	06/13/2024

Batch R348746		SampType: MS		Units mg/L						
SampID: 24060969-008AMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.10		2.86	2.000	0.5900	113.6	75	125	06/13/2024

Batch R348746		SampType: MSD		Units mg/L			RPD Limit 15			
SampID: 24060969-008AMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride		0.10		2.66	2.000	0.5900	103.4	2.861	7.32	06/13/2024

SW-846 9251 (DISSOLVED)

Batch R348775		SampType: MBLK		Units mg/L						
SampID: ICB/MBLK										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloride		4		< 4	0.5000	0	0	-100	100	06/13/2024

Batch R348775		SampType: LCS		Units mg/L						
SampID: ICV/LCS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloride		4		20	20.00	0	97.6	90	110	06/13/2024

Batch R348775		SampType: MS		Units mg/L						
SampID: 24051908-003BMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chloride		4		38	20.00	19.17	94.2	85	115	06/13/2024

Batch R348775		SampType: MSD		Units mg/L			RPD Limit 15			
SampID: 24051908-003BMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Chloride		4		39	20.00	19.17	97.0	38.00	1.49	06/13/2024



Quality Control Results

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Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24051908

Client Project: Meredosia GW Monitoring Q2 2024

Report Date: 21-Jun-24

SW-846 9251 (DISSOLVED)

Batch R348775		SampType: MS		Units mg/L							Date Analyzed
SampID: 24051908-007BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		4	E	63	20.00	42.53	102.8	85	115	06/13/2024	

Batch R348775		SampType: MSD		Units mg/L							RPD Limit 15	Date Analyzed
SampID: 24051908-007BMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Chloride		4	E	63	20.00	42.53	102.6	63.10	0.08	06/13/2024		

Batch R348775		SampType: MS		Units mg/L							Date Analyzed
SampID: 24060863-002AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		40		388	200.0	212.7	87.6	85	115	06/13/2024	

Batch R348775		SampType: MSD		Units mg/L							RPD Limit 15	Date Analyzed
SampID: 24060863-002AMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Chloride		40		390	200.0	212.7	88.5	387.9	0.49	06/13/2024		

Batch R348775		SampType: MS		Units mg/L							Date Analyzed
SampID: 24060884-001AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		800		5600	4000	1778	95.6	85	115	06/13/2024	

Batch R348775		SampType: MSD		Units mg/L							RPD Limit 15	Date Analyzed
SampID: 24060884-001AMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Chloride		800		5640	4000	1778	96.6	5604	0.65	06/13/2024		

Batch R348775		SampType: MS		Units mg/L							Date Analyzed
SampID: 24060969-005AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		40		245	200.0	53.60	95.6	85	115	06/13/2024	

Batch R348775		SampType: MSD		Units mg/L							RPD Limit 15	Date Analyzed
SampID: 24060969-005AMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Chloride		40		250	200.0	53.60	98.3	244.8	2.18	06/13/2024		



Quality Control Results

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Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24051908

Client Project: Meredosia GW Monitoring Q2 2024

Report Date: 21-Jun-24

SW-846 9251 (DISSOLVED)

Batch R348775		SampType: MS		Units mg/L							Date Analyzed
SampID: 24061018-001AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		4	E	60	20.00	40.72	96.8	85	115	06/13/2024	

Batch R348775		SampType: MSD		Units mg/L							RPD Limit 15	Date Analyzed
SampID: 24061018-001AMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Chloride		4	E	61	20.00	40.72	99.8	60.09	0.99	06/13/2024		

Batch R348929		SampType: MBLK		Units mg/L							Date Analyzed
SampID: ICB/MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		4		< 4	0.5000	0	0	-100	100	06/17/2024	

Batch R348929		SampType: LCS		Units mg/L							Date Analyzed
SampID: ICV/LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		4		19	20.00	0	97.3	90	110	06/17/2024	

Batch R348929		SampType: MS		Units mg/L							Date Analyzed
SampID: 24061162-002AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		80		686	400.0	316.7	92.4	85	115	06/17/2024	

Batch R348929		SampType: MSD		Units mg/L							RPD Limit 15	Date Analyzed
SampID: 24061162-002AMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Chloride		80		690	400.0	316.7	93.3	686.2	0.52	06/17/2024		

Batch R348929		SampType: MS		Units mg/L							Date Analyzed
SampID: 24061283-001AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chloride		20		131	100.0	34.91	96.3	85	115	06/17/2024	

Batch R348929		SampType: MSD		Units mg/L							RPD Limit 15	Date Analyzed
SampID: 24061283-001AMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Chloride		20		133	100.0	34.91	98.1	131.2	1.32	06/17/2024		



Quality Control Results

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Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24051908

Client Project: Meredosia GW Monitoring Q2 2024

Report Date: 21-Jun-24

SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)

Batch 224183 SampType: MBLK Units mg/L

SampID: MBLK-224183

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Barium		0.0025		< 0.0025	0.0007	0	0	-100	100	06/11/2024
Beryllium		0.0005		< 0.0005	0.0002	0	0	-100	100	06/11/2024
Boron		0.0200		< 0.0200	0.0090	0	0	-100	100	06/11/2024
Cadmium		0.0020		< 0.0020	0.0005	0	0	-100	100	06/11/2024
Chromium		0.0050		< 0.0050	0.0028	0	0	-100	100	06/11/2024
Cobalt		0.0050		< 0.0050	0.0020	0	0	-100	100	06/11/2024
Copper		0.0050		< 0.0050	0.0013	0	0	-100	100	06/11/2024
Iron		0.0400		< 0.0400	0.0200	0	0	-100	100	06/11/2024
Manganese		0.0070		< 0.0070	0.0025	0	0	-100	100	06/11/2024
Nickel		0.0050		< 0.0050	0.0016	0	0	-100	100	06/11/2024
Selenium		0.0400		< 0.0400	0.0170	0	0	-100	100	06/11/2024
Silver		0.0070		< 0.0070	0.0027	0	0	-100	100	06/11/2024
Vanadium		0.0100		< 0.0100	0.0009	0	0	-100	100	06/11/2024
Zinc		0.0100		< 0.0100	0.0050	0	0	-100	100	06/11/2024

Batch 224183 SampType: LCS Units mg/L

SampID: LCS-224183

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Barium		0.0025		1.84	2.000	0	91.9	85	115	06/11/2024
Beryllium		0.0005		0.0462	0.0500	0	92.4	85	115	06/11/2024
Boron		0.0200		0.450	0.5000	0	90.1	85	115	06/11/2024
Cadmium		0.0020		0.0485	0.0500	0	97.0	85	115	06/11/2024
Chromium		0.0050		0.187	0.2000	0	93.4	85	115	06/11/2024
Cobalt		0.0050		0.466	0.5000	0	93.2	85	115	06/11/2024
Copper		0.0050		0.232	0.2500	0	92.7	85	115	06/11/2024
Iron		0.0400		1.89	2.000	0	94.7	85	115	06/11/2024
Manganese		0.0070		0.471	0.5000	0	94.3	85	115	06/11/2024
Nickel		0.0050		0.471	0.5000	0	94.3	85	115	06/11/2024
Selenium		0.0400		0.458	0.5000	0	91.6	85	115	06/11/2024
Silver		0.0070		0.0466	0.0500	0	93.2	85	115	06/11/2024
Vanadium		0.0100		0.462	0.5000	0	92.5	85	115	06/11/2024
Zinc		0.0100		0.468	0.5000	0	93.6	85	115	06/11/2024



Quality Control Results

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Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24051908

Client Project: Meredosia GW Monitoring Q2 2024

Report Date: 21-Jun-24

SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)

Batch 224183 **SampType: MS** Units mg/L

SampleID: 24051908-001DMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Barium		0.0025		1.84	2.000	0.01150	91.6	75	125	06/11/2024
Beryllium		0.0005		0.0458	0.0500	0	91.6	75	125	06/11/2024
Boron		0.0200		0.477	0.5000	0.01800	91.7	75	125	06/11/2024
Cadmium		0.0020		0.0450	0.0500	0	90.0	75	125	06/11/2024
Chromium		0.0050		0.184	0.2000	0	92.0	75	125	06/11/2024
Cobalt		0.0050		0.457	0.5000	0	91.4	75	125	06/11/2024
Copper		0.0050		0.236	0.2500	0	94.2	75	125	06/11/2024
Iron		0.0400		1.85	2.000	0	92.3	75	125	06/11/2024
Manganese		0.0070		0.491	0.5000	0.02380	93.5	75	125	06/11/2024
Nickel		0.0050		0.452	0.5000	0	90.5	75	125	06/11/2024
Selenium		0.0400		0.462	0.5000	0	92.4	75	125	06/11/2024
Silver		0.0070		0.0470	0.0500	0	94.0	75	125	06/11/2024
Vanadium		0.0100		0.458	0.5000	0	91.5	75	125	06/11/2024
Zinc		0.0100		0.460	0.5000	0	92.0	75	125	06/11/2024

Batch 224183 **SampType: MSD** Units mg/L

RPD Limit **20**

SampleID: 24051908-001DMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Barium		0.0025		1.90	2.000	0.01150	94.6	1.844	3.22	06/11/2024
Beryllium		0.0005		0.0476	0.0500	0	95.2	0.04580	3.85	06/11/2024
Boron		0.0200		0.492	0.5000	0.01800	94.7	0.4766	3.10	06/11/2024
Cadmium		0.0020		0.0466	0.0500	0	93.2	0.04500	3.49	06/11/2024
Chromium		0.0050		0.192	0.2000	0	95.8	0.1840	3.99	06/11/2024
Cobalt		0.0050		0.474	0.5000	0	94.9	0.4568	3.80	06/11/2024
Copper		0.0050		0.243	0.2500	0	97.1	0.2355	3.05	06/11/2024
Iron		0.0400		1.92	2.000	0	95.9	1.846	3.83	06/11/2024
Manganese		0.0070		0.512	0.5000	0.02380	97.6	0.4912	4.11	06/11/2024
Nickel		0.0050		0.470	0.5000	0	94.0	0.4523	3.80	06/11/2024
Selenium		0.0400		0.480	0.5000	0	96.0	0.4621	3.76	06/11/2024
Silver		0.0070		0.0489	0.0500	0	97.8	0.04700	3.96	06/11/2024
Vanadium		0.0100		0.474	0.5000	0	94.8	0.4577	3.50	06/11/2024
Zinc		0.0100		0.478	0.5000	0	95.6	0.4602	3.75	06/11/2024



Quality Control Results

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Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24051908

Client Project: Meredosia GW Monitoring Q2 2024

Report Date: 21-Jun-24

SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)

Batch 224183 SampType: MS Units mg/L

SampID: 24060652-001CMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Iron		0.0400		4.37	4.000	0.3103	101.5	75	125	06/11/2024

Batch 224183 SampType: MSD Units mg/L

RPD Limit 20

SampID: 24060652-001CMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Iron		0.0400		4.30	4.000	0.3103	99.7	4.370	1.61	06/11/2024

Batch 224311 SampType: MBLK Units mg/L

SampID: MBLK-224311

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Barium		0.0025		< 0.0025	0.0007	0	0	-100	100	06/13/2024
Beryllium		0.0005		< 0.0005	0.0002	0	0	-100	100	06/13/2024
Boron		0.0200		< 0.0200	0.0090	0	0	-100	100	06/13/2024
Cadmium		0.0020		< 0.0020	0.0005	0	0	-100	100	06/13/2024
Chromium		0.0050		< 0.0050	0.0028	0	0	-100	100	06/13/2024
Cobalt		0.0050		< 0.0050	0.0020	0	0	-100	100	06/13/2024
Copper		0.0050		< 0.0050	0.0013	0	0	-100	100	06/13/2024
Iron		0.0400		< 0.0400	0.0200	0	0	-100	100	06/13/2024
Manganese		0.0070		< 0.0070	0.0025	0	0	-100	100	06/13/2024
Nickel		0.0050		< 0.0050	0.0016	0	0	-100	100	06/13/2024
Selenium		0.0400		< 0.0400	0.0170	0	0	-100	100	06/13/2024
Silver		0.0070		< 0.0070	0.0027	0	0	-100	100	06/13/2024
Vanadium		0.0100		< 0.0100	0.0009	0	0	-100	100	06/13/2024
Zinc		0.0100		< 0.0100	0.0050	0	0	-100	100	06/13/2024



Quality Control Results

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

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24051908

Client Project: Meredosia GW Monitoring Q2 2024

Report Date: 21-Jun-24

SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)

Batch 224311 SampType: LCS Units mg/L

SampID: LCS-224311

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Barium		0.0025		1.87	2.000	0	93.6	85	115	06/13/2024
Beryllium		0.0005		0.0466	0.0500	0	93.2	85	115	06/13/2024
Boron		0.0200		0.447	0.5000	0	89.4	85	115	06/13/2024
Cadmium		0.0020		0.0447	0.0500	0	89.4	85	115	06/13/2024
Chromium		0.0050		0.185	0.2000	0	92.7	85	115	06/13/2024
Cobalt		0.0050		0.489	0.5000	0	97.8	85	115	06/13/2024
Copper		0.0050		0.243	0.2500	0	97.2	85	115	06/13/2024
Iron		0.0400		1.79	2.000	0	89.6	85	115	06/13/2024
Manganese		0.0070		0.462	0.5000	0	92.4	85	115	06/13/2024
Nickel		0.0050		0.474	0.5000	0	94.9	85	115	06/13/2024
Selenium		0.0400		0.473	0.5000	0	94.6	85	115	06/13/2024
Silver		0.0070		0.0443	0.0500	0	88.6	85	115	06/13/2024
Vanadium		0.0100		0.468	0.5000	0	93.7	85	115	06/13/2024
Zinc		0.0100		0.462	0.5000	0	92.3	85	115	06/13/2024

Batch 224311 SampType: MS Units mg/L

SampID: 24051908-002DMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Barium		0.0025		1.95	2.000	0.03930	95.3	75	125	06/13/2024
Beryllium		0.0005		0.0474	0.0500	0	94.8	75	125	06/14/2024
Boron		0.0200		1.35	0.5000	0.8996	90.1	75	125	06/13/2024
Cadmium		0.0020		0.0423	0.0500	0	84.6	75	125	06/13/2024
Chromium		0.0050		0.186	0.2000	0	93.2	75	125	06/13/2024
Cobalt		0.0050		0.488	0.5000	0	97.7	75	125	06/13/2024
Copper		0.0050		0.253	0.2500	0	101.0	75	125	06/13/2024
Iron		0.0400		2.14	2.000	0.2312	95.4	75	125	06/13/2024
Manganese		0.0070		0.714	0.5000	0.2518	92.5	75	125	06/13/2024
Nickel		0.0050		0.471	0.5000	0	94.2	75	125	06/13/2024
Selenium		0.0400		0.472	0.5000	0	94.5	75	125	06/13/2024
Silver		0.0070		0.0421	0.0500	0	84.2	75	125	06/13/2024
Vanadium		0.0100		0.481	0.5000	0	96.2	75	125	06/13/2024
Zinc		0.0100		0.466	0.5000	0	93.3	75	125	06/13/2024



Quality Control Results

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Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24051908

Client Project: Meredosia GW Monitoring Q2 2024

Report Date: 21-Jun-24

SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)

Batch 224311		SampType: MSD		Units mg/L				RPD Limit 20			Date Analyzed
SampID: 24051908-002DMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Barium		0.0025		1.95	2.000	0.03930	95.4	1.946	0.12	06/13/2024	
Beryllium		0.0005		0.0481	0.0500	0	96.2	0.04740	1.47	06/14/2024	
Boron		0.0200		1.35	0.5000	0.8996	89.6	1.350	0.17	06/13/2024	
Cadmium		0.0020		0.0435	0.0500	0	87.0	0.04230	2.80	06/13/2024	
Chromium		0.0050		0.189	0.2000	0	94.4	0.1865	1.17	06/13/2024	
Cobalt		0.0050		0.494	0.5000	0	98.8	0.4885	1.08	06/13/2024	
Copper		0.0050		0.253	0.2500	0	101.1	0.2526	0.08	06/13/2024	
Iron		0.0400		2.16	2.000	0.2312	96.4	2.140	0.93	06/13/2024	
Manganese		0.0070		0.722	0.5000	0.2518	93.9	0.7145	0.97	06/13/2024	
Nickel		0.0050		0.480	0.5000	0	95.9	0.4711	1.77	06/13/2024	
Selenium		0.0400		0.485	0.5000	0	97.1	0.4725	2.67	06/13/2024	
Silver		0.0070		0.0426	0.0500	0	85.2	0.04210	1.18	06/13/2024	
Vanadium		0.0100		0.486	0.5000	0	97.1	0.4810	0.93	06/13/2024	
Zinc		0.0100		0.472	0.5000	0	94.4	0.4664	1.17	06/13/2024	

Batch 224311		SampType: MS		Units mg/L						Date Analyzed
SampID: 24060945-003AMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Copper		0.0050		0.252	0.2500	0	100.9	75	125	06/13/2024

Batch 224311		SampType: MSD		Units mg/L				RPD Limit 20			Date Analyzed
SampID: 24060945-003AMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Copper		0.0050		0.247	0.2500	0	99.0	0.2523	1.96	06/13/2024	



Quality Control Results

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Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24051908

Client Project: Meredosia GW Monitoring Q2 2024

Report Date: 21-Jun-24

SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)

Batch 224381 SampType: MBLK Units mg/L

SampID: MBLK-224381

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Barium		0.0025		< 0.0025	0.0007	0	0	-100	100	06/13/2024
Beryllium		0.0005		< 0.0005	0.0002	0	0	-100	100	06/13/2024
Boron		0.0200		< 0.0200	0.0090	0	0	-100	100	06/13/2024
Cadmium		0.0020		< 0.0020	0.0005	0	0	-100	100	06/13/2024
Chromium		0.0050		< 0.0050	0.0028	0	0	-100	100	06/13/2024
Cobalt		0.0050		< 0.0050	0.0020	0	0	-100	100	06/13/2024
Copper		0.0050		< 0.0050	0.0013	0	0	-100	100	06/13/2024
Iron		0.0400		< 0.0400	0.0200	0	0	-100	100	06/13/2024
Manganese		0.0070		< 0.0070	0.0025	0	0	-100	100	06/13/2024
Nickel		0.0050		< 0.0050	0.0016	0	0	-100	100	06/13/2024
Selenium		0.0400		< 0.0400	0.0170	0	0	-100	100	06/13/2024
Silver		0.0070		< 0.0070	0.0027	0	0	-100	100	06/13/2024
Vanadium		0.0100		< 0.0100	0.0009	0	0	-100	100	06/13/2024
Zinc		0.0100		< 0.0100	0.0050	0	0	-100	100	06/13/2024

Batch 224381 SampType: LCS Units mg/L

SampID: LCS-224381

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Barium		0.0025		1.82	2.000	0	91.0	85	115	06/13/2024
Beryllium		0.0005		0.0448	0.0500	0	89.6	85	115	06/13/2024
Boron		0.0200		0.443	0.5000	0	88.7	85	115	06/13/2024
Cadmium		0.0020		0.0456	0.0500	0	91.2	85	115	06/13/2024
Chromium		0.0050		0.181	0.2000	0	90.3	85	115	06/13/2024
Cobalt		0.0050		0.454	0.5000	0	90.9	85	115	06/13/2024
Copper		0.0050		0.231	0.2500	0	92.3	85	115	06/13/2024
Iron		0.0400		1.83	2.000	0	91.4	85	115	06/13/2024
Manganese		0.0070		0.460	0.5000	0	92.1	85	115	06/13/2024
Nickel		0.0050		0.451	0.5000	0	90.1	85	115	06/13/2024
Selenium		0.0400		0.446	0.5000	0	89.3	85	115	06/13/2024
Silver		0.0070		0.0449	0.0500	0	89.8	85	115	06/13/2024
Vanadium		0.0100		0.450	0.5000	0	89.9	85	115	06/13/2024
Zinc		0.0100		0.450	0.5000	0	89.9	85	115	06/13/2024



Quality Control Results

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Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24051908

Client Project: Meredosia GW Monitoring Q2 2024

Report Date: 21-Jun-24

SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)

Batch 224381 SampType: MS Units mg/L

SampID: 24060984-001CMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Iron		0.0400		1.82	2.000	0	91.0	75	125	06/13/2024

Batch 224381 SampType: MSD Units mg/L

RPD Limit 20

SampID: 24060984-001CMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Iron		0.0400		1.88	2.000	0	93.9	1.819	3.21	06/13/2024

SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 224240 SampType: MBLK Units mg/L

SampID: MBLK-224240

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Barium		0.0025		< 0.0025	0.0007	0	0	-100	100	06/12/2024
Beryllium		0.0005		< 0.0005	0.0002	0	0	-100	100	06/12/2024
Boron		0.0200		< 0.0200	0.0090	0	0	-100	100	06/12/2024
Cadmium		0.0020		< 0.0020	0.0005	0	0	-100	100	06/12/2024
Chromium		0.0050		< 0.0050	0.0028	0	0	-100	100	06/12/2024
Cobalt		0.0050		< 0.0050	0.0020	0	0	-100	100	06/12/2024
Copper		0.0050		< 0.0050	0.0013	0	0	-100	100	06/12/2024
Iron		0.0400		< 0.0400	0.0200	0	0	-100	100	06/12/2024
Manganese		0.0070		< 0.0070	0.0025	0	0	-100	100	06/12/2024
Nickel		0.0050		< 0.0050	0.0016	0	0	-100	100	06/12/2024
Selenium		0.0400		< 0.0400	0.0170	0	0	-100	100	06/12/2024
Silver		0.0070		< 0.0070	0.0027	0	0	-100	100	06/12/2024
Vanadium		0.0100		< 0.0100	0.0009	0	0	-100	100	06/12/2024
Zinc		0.0100		< 0.0100	0.0050	0	0	-100	100	06/12/2024



Quality Control Results

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

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24051908

Client Project: Meredosia GW Monitoring Q2 2024

Report Date: 21-Jun-24

SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 224240 SampType: LCS Units mg/L

SampID: LCS-224240

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Barium		0.0025		2.00	2.000	0	100.0	85	115	06/13/2024
Beryllium		0.0005		0.0520	0.0500	0	104.0	85	115	06/13/2024
Boron		0.0200		0.501	0.5000	0	100.1	85	115	06/13/2024
Cadmium		0.0020		0.0495	0.0500	0	99.0	85	115	06/13/2024
Chromium		0.0050		0.204	0.2000	0	101.8	85	115	06/13/2024
Cobalt		0.0050		0.538	0.5000	0	107.7	85	115	06/13/2024
Copper		0.0050		0.272	0.2500	0	108.9	85	115	06/13/2024
Iron		0.0400		2.10	2.000	0	105.0	85	115	06/13/2024
Manganese		0.0070		0.508	0.5000	0	101.7	85	115	06/13/2024
Nickel		0.0050		0.524	0.5000	0	104.9	85	115	06/13/2024
Selenium		0.0400		0.530	0.5000	0	106.0	85	115	06/13/2024
Silver		0.0070		0.0481	0.0500	0	96.2	85	115	06/13/2024
Vanadium		0.0100		0.519	0.5000	0	103.9	85	115	06/13/2024
Zinc		0.0100		0.516	0.5000	0	103.2	85	115	06/13/2024

Batch 224240 SampType: MS Units mg/L

SampID: 24051908-010CMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Barium		0.0025		2.34	2.000	0.01950	116.0	75	125	06/12/2024
Beryllium		0.0005		0.0616	0.0500	0	123.2	75	125	06/12/2024
Boron		0.0200		0.624	0.5000	0.03950	117.0	75	125	06/12/2024
Cadmium		0.0020		0.0575	0.0500	0	115.0	75	125	06/12/2024
Chromium		0.0050		0.242	0.2000	0	120.9	75	125	06/12/2024
Cobalt		0.0050		0.575	0.5000	0	115.0	75	125	06/13/2024
Copper		0.0050		0.294	0.2500	0	117.7	75	125	06/13/2024
Iron		0.0400		3.51	2.000	1.072	121.9	75	125	06/12/2024
Manganese		0.0070		0.742	0.5000	0.1361	121.2	75	125	06/12/2024
Nickel		0.0050		0.622	0.5000	0.004700	123.4	75	125	06/12/2024
Selenium		0.0400		0.569	0.5000	0	113.9	75	125	06/13/2024
Silver		0.0070		0.0545	0.0500	0	109.0	75	125	06/12/2024
Vanadium		0.0100		0.625	0.5000	0.002600	124.5	75	125	06/12/2024
Zinc		0.0100		0.615	0.5000	0	123.0	75	125	06/12/2024



Quality Control Results

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

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24051908

Client Project: Meredosia GW Monitoring Q2 2024

Report Date: 21-Jun-24

SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 224240		SampType: MSD		Units mg/L				RPD Limit 20			Date Analyzed
SampID: 24051908-010CMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Barium		0.0025		2.33	2.000	0.01950	115.5	2.340	0.43	06/12/2024	
Beryllium		0.0005		0.0615	0.0500	0	123.0	0.06160	0.16	06/12/2024	
Boron		0.0200		0.624	0.5000	0.03950	116.9	0.6243	0.06	06/12/2024	
Cadmium		0.0020		0.0571	0.0500	0	114.2	0.05750	0.70	06/12/2024	
Chromium		0.0050		0.241	0.2000	0	120.7	0.2418	0.17	06/12/2024	
Cobalt		0.0050		0.576	0.5000	0	115.1	0.5751	0.07	06/13/2024	
Copper		0.0050		0.294	0.2500	0	117.7	0.2943	0.03	06/13/2024	
Iron		0.0400		3.44	2.000	1.072	118.4	3.510	2.01	06/12/2024	
Manganese		0.0070		0.738	0.5000	0.1361	120.4	0.7423	0.55	06/12/2024	
Nickel		0.0050		0.620	0.5000	0.004700	123.1	0.6215	0.21	06/12/2024	
Selenium		0.0400		0.563	0.5000	0	112.6	0.5694	1.13	06/13/2024	
Silver		0.0070		0.0548	0.0500	0	109.6	0.05450	0.55	06/12/2024	
Vanadium		0.0100		0.623	0.5000	0.002600	124.1	0.6249	0.26	06/12/2024	
Zinc		0.0100		0.614	0.5000	0	122.8	0.6151	0.15	06/12/2024	

Batch 224240		SampType: MS		Units mg/L				RPD Limit 20		Date Analyzed
SampID: 24060615-001AMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Zinc		0.0100		0.522	0.5000	0.01940	100.5	75	125	06/13/2024

Batch 224240		SampType: MSD		Units mg/L				RPD Limit 20			Date Analyzed
SampID: 24060615-001AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Zinc		0.0100		0.497	0.5000	0.01940	95.6	0.5221	4.89	06/13/2024	



Quality Control Results

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Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24051908

Client Project: Meredosia GW Monitoring Q2 2024

Report Date: 21-Jun-24

SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 224313 SampType: MBLK Units mg/L

SampleID: MBLK-224313

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Barium		0.0025		< 0.0025	0.0007	0	0	-100	100	06/13/2024
Beryllium		0.0005		< 0.0005	0.0002	0	0	-100	100	06/13/2024
Boron		0.0200		< 0.0200	0.0090	0	0	-100	100	06/13/2024
Cadmium		0.0020		< 0.0020	0.0005	0	0	-100	100	06/13/2024
Chromium		0.0050		< 0.0050	0.0028	0	0	-100	100	06/13/2024
Cobalt		0.0050		< 0.0050	0.0020	0	0	-100	100	06/13/2024
Copper		0.0050		< 0.0050	0.0013	0	0	-100	100	06/13/2024
Iron		0.0400		< 0.0400	0.0200	0	0	-100	100	06/13/2024
Manganese		0.0070		< 0.0070	0.0025	0	0	-100	100	06/13/2024
Nickel		0.0050		< 0.0050	0.0016	0	0	-100	100	06/13/2024
Selenium		0.0400		< 0.0400	0.0170	0	0	-100	100	06/13/2024
Silver		0.0070		< 0.0070	0.0027	0	0	-100	100	06/13/2024
Vanadium		0.0100		< 0.0100	0.0009	0	0	-100	100	06/13/2024
Zinc		0.0100		< 0.0100	0.0050	0	0	-100	100	06/13/2024

Batch 224313 SampType: LCS Units mg/L

SampleID: LCS-224313

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Barium		0.0025		2.09	2.000	0	104.5	85	115	06/13/2024
Beryllium		0.0005		0.0539	0.0500	0	107.8	85	115	06/13/2024
Boron		0.0200		0.513	0.5000	0	102.6	85	115	06/13/2024
Cadmium		0.0020		0.0518	0.0500	0	103.6	85	115	06/13/2024
Chromium		0.0050		0.213	0.2000	0	106.4	85	115	06/13/2024
Cobalt		0.0050		0.563	0.5000	0	112.7	85	115	06/13/2024
Copper		0.0050		0.276	0.2500	0	110.6	85	115	06/13/2024
Iron		0.0400		2.17	2.000	0	108.5	85	115	06/13/2024
Manganese		0.0070		0.529	0.5000	0	105.8	85	115	06/13/2024
Nickel		0.0050		0.552	0.5000	0	110.4	85	115	06/13/2024
Selenium		0.0400		0.547	0.5000	0	109.5	85	115	06/13/2024
Silver		0.0070		0.0485	0.0500	0	97.0	85	115	06/13/2024
Vanadium		0.0100		0.537	0.5000	0	107.4	85	115	06/13/2024
Zinc		0.0100		0.534	0.5000	0	106.8	85	115	06/13/2024



Quality Control Results

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Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24051908

Client Project: Meredosia GW Monitoring Q2 2024

Report Date: 21-Jun-24

SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 224313		SampType: MS		Units mg/L							Date Analyzed
SampID: 24060718-002CMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Boron		0.0200		2.39	0.5000	1.903	97.9	75	125	06/13/2024	
Selenium		0.0400		0.538	0.5000	0	107.6	75	125	06/13/2024	

Batch 224313		SampType: MSD		Units mg/L							RPD Limit 20	Date Analyzed
SampID: 24060718-002CMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Boron		0.0200		2.47	0.5000	1.903	113.0	2.392	3.11	06/13/2024		
Selenium		0.0400		0.557	0.5000	0	111.4	0.5379	3.51	06/13/2024		

Batch 224313		SampType: MS		Units mg/L							Date Analyzed
SampID: 24060725-001BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Chromium		0.0050		0.208	0.2000	0	104.2	75	125	06/13/2024	

Batch 224313		SampType: MSD		Units mg/L							RPD Limit 20	Date Analyzed
SampID: 24060725-001BMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Chromium		0.0050		0.212	0.2000	0	105.8	0.2084	1.48	06/13/2024		

Batch 224424		SampType: MBLK		Units mg/L							Date Analyzed
SampID: MBLK-224424											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Barium		0.0025		< 0.0025	0.0007	0	0	-100	100	06/17/2024	
Beryllium		0.0005		< 0.0005	0.0002	0	0	-100	100	06/17/2024	
Boron		0.0200		< 0.0200	0.0090	0	0	-100	100	06/17/2024	
Cadmium		0.0020		< 0.0020	0.0005	0	0	-100	100	06/17/2024	
Chromium		0.0050		< 0.0050	0.0028	0	0	-100	100	06/17/2024	
Cobalt		0.0050		< 0.0050	0.0020	0	0	-100	100	06/17/2024	
Copper		0.0050		< 0.0050	0.0013	0	0	-100	100	06/17/2024	
Iron		0.0400		< 0.0400	0.0200	0	0	-100	100	06/17/2024	
Manganese		0.0070		< 0.0070	0.0025	0	0	-100	100	06/17/2024	
Nickel		0.0050		< 0.0050	0.0016	0	0	-100	100	06/17/2024	
Selenium		0.0400		< 0.0400	0.0170	0	0	-100	100	06/17/2024	
Silver		0.0070		< 0.0070	0.0027	0	0	-100	100	06/17/2024	
Vanadium		0.0100		< 0.0100	0.0009	0	0	-100	100	06/17/2024	
Zinc		0.0100		< 0.0100	0.0050	0	0	-100	100	06/17/2024	



Quality Control Results

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Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24051908

Client Project: Meredosia GW Monitoring Q2 2024

Report Date: 21-Jun-24

SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 224424 SampType: LCS Units mg/L

SampID: LCS-224424

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Barium		0.0025		2.15	2.000	0	107.5	85	115	06/17/2024
Beryllium		0.0005		0.0528	0.0500	0	105.6	85	115	06/17/2024
Boron		0.0200		0.530	0.5000	0	106.0	85	115	06/17/2024
Cadmium		0.0020		0.0518	0.0500	0	103.6	85	115	06/17/2024
Chromium		0.0050		0.212	0.2000	0	106.0	85	115	06/17/2024
Cobalt		0.0050		0.526	0.5000	0	105.1	85	115	06/17/2024
Copper		0.0050		0.277	0.2500	0	111.0	85	115	06/17/2024
Iron		0.0400		2.23	2.000	0	111.5	85	115	06/17/2024
Manganese		0.0070		0.535	0.5000	0	107.1	85	115	06/17/2024
Nickel		0.0050		0.522	0.5000	0	104.5	85	115	06/17/2024
Selenium		0.0400		0.526	0.5000	0	105.3	85	115	06/17/2024
Silver		0.0070		0.0556	0.0500	0	111.2	85	115	06/17/2024
Vanadium		0.0100		0.542	0.5000	0	108.3	85	115	06/17/2024
Zinc		0.0100		0.527	0.5000	0	105.4	85	115	06/17/2024

Batch 224424 SampType: MS Units mg/L

SampID: 24051908-011BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Barium		0.0025		2.13	2.000	0	106.5	75	125	06/17/2024
Beryllium		0.0005		0.0524	0.0500	0.0002000	104.4	75	125	06/17/2024
Boron		0.0200		0.529	0.5000	0	105.9	75	125	06/17/2024
Cadmium		0.0020		0.0511	0.0500	0	102.2	75	125	06/17/2024
Chromium		0.0050		0.211	0.2000	0	105.3	75	125	06/17/2024
Cobalt		0.0050		0.525	0.5000	0	104.9	75	125	06/17/2024
Copper		0.0050		0.278	0.2500	0	111.1	75	125	06/17/2024
Iron		0.0400		2.21	2.000	0	110.5	75	125	06/17/2024
Manganese		0.0070		0.530	0.5000	0	106.0	75	125	06/17/2024
Nickel		0.0050		0.518	0.5000	0	103.6	75	125	06/17/2024
Selenium		0.0400		0.532	0.5000	0	106.5	75	125	06/17/2024
Silver		0.0070		0.0552	0.0500	0	110.4	75	125	06/17/2024
Vanadium		0.0100		0.538	0.5000	0	107.7	75	125	06/17/2024
Zinc		0.0100		0.522	0.5000	0	104.3	75	125	06/17/2024



Quality Control Results

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Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24051908

Client Project: Meredosia GW Monitoring Q2 2024

Report Date: 21-Jun-24

SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 224424		SampType: MSD		Units mg/L				RPD Limit 20			
SampID: 24051908-011BMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Barium		0.0025		2.15	2.000	0	107.5	2.130	0.93	06/17/2024	
Beryllium		0.0005		0.0528	0.0500	0.0002000	105.2	0.05240	0.76	06/17/2024	
Boron		0.0200		0.529	0.5000	0	105.7	0.5293	0.13	06/17/2024	
Cadmium		0.0020		0.0514	0.0500	0	102.8	0.05110	0.59	06/17/2024	
Chromium		0.0050		0.211	0.2000	0	105.4	0.2106	0.09	06/17/2024	
Cobalt		0.0050		0.521	0.5000	0	104.3	0.5247	0.65	06/17/2024	
Copper		0.0050		0.277	0.2500	0	110.8	0.2777	0.25	06/17/2024	
Iron		0.0400		2.22	2.000	0	111.0	2.210	0.45	06/17/2024	
Manganese		0.0070		0.534	0.5000	0	106.9	0.5298	0.88	06/17/2024	
Nickel		0.0050		0.520	0.5000	0	104.0	0.5182	0.39	06/17/2024	
Selenium		0.0400		0.532	0.5000	0	106.5	0.5324	0.02	06/17/2024	
Silver		0.0070		0.0552	0.0500	0	110.4	0.05520	0.00	06/17/2024	
Vanadium		0.0100		0.538	0.5000	0	107.6	0.5385	0.07	06/17/2024	
Zinc		0.0100		0.525	0.5000	0	105.0	0.5215	0.69	06/17/2024	

Batch 224424		SampType: MS		Units mg/L						
SampID: 24061088-003CMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Manganese		0.0070		1.06	0.5000	0.5243	106.5	75	125	06/17/2024

Batch 224424		SampType: MSD		Units mg/L				RPD Limit 20			
SampID: 24061088-003CMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Manganese		0.0070		1.06	0.5000	0.5243	106.6	1.057	0.05	06/17/2024	



Quality Control Results

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Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24051908

Client Project: Meredosia GW Monitoring Q2 2024

Report Date: 21-Jun-24

SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 224439 SampType: MBLK Units mg/L

SampID: MBLK-224439

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Barium		0.0025		< 0.0025	0.0007	0	0	-100	100	06/17/2024
Beryllium		0.0005		< 0.0005	0.0002	0	0	-100	100	06/17/2024
Boron		0.0200		< 0.0200	0.0090	0	0	-100	100	06/17/2024
Cadmium		0.0020	J	0.0005	0.0005	0	100.0	-100	100	06/17/2024
Chromium		0.0050		< 0.0050	0.0028	0	0	-100	100	06/17/2024
Cobalt		0.0050		< 0.0050	0.0020	0	0	-100	100	06/17/2024
Copper		0.0050		< 0.0050	0.0013	0	0	-100	100	06/17/2024
Iron		0.0400		< 0.0400	0.0200	0	0	-100	100	06/17/2024
Manganese		0.0070		< 0.0070	0.0025	0	0	-100	100	06/17/2024
Nickel		0.0050		< 0.0050	0.0016	0	0	-100	100	06/17/2024
Selenium		0.0400		< 0.0400	0.0170	0	0	-100	100	06/17/2024
Silver		0.0070		< 0.0070	0.0027	0	0	-100	100	06/17/2024
Vanadium		0.0100		< 0.0100	0.0009	0	0	-100	100	06/17/2024
Zinc		0.0100		< 0.0100	0.0050	0	0	-100	100	06/17/2024

Batch 224439 SampType: LCS Units mg/L

SampID: LCS-224439

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Barium		0.0025		1.96	2.000	0	98.2	85	115	06/17/2024
Beryllium		0.0005		0.0492	0.0500	0	98.4	85	115	06/17/2024
Boron		0.0200		0.491	0.5000	0	98.3	85	115	06/17/2024
Cadmium		0.0020		0.0510	0.0500	0	102.0	85	115	06/17/2024
Chromium		0.0050		0.200	0.2000	0	99.8	85	115	06/17/2024
Cobalt		0.0050		0.488	0.5000	0	97.5	85	115	06/17/2024
Copper		0.0050		0.244	0.2500	0	97.5	85	115	06/17/2024
Iron		0.0400		2.02	2.000	0	101.0	85	115	06/17/2024
Manganese		0.0070		0.496	0.5000	0	99.2	85	115	06/17/2024
Nickel		0.0050		0.496	0.5000	0	99.2	85	115	06/17/2024
Selenium		0.0400		0.477	0.5000	0	95.3	85	115	06/17/2024
Silver		0.0070		0.0459	0.0500	0	91.8	85	115	06/17/2024
Vanadium		0.0100		0.497	0.5000	0	99.4	85	115	06/17/2024
Zinc		0.0100		0.495	0.5000	0	99.0	85	115	06/17/2024



Quality Control Results

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

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24051908

Client Project: Meredosia GW Monitoring Q2 2024

Report Date: 21-Jun-24

SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 224439		SampType: MS		Units mg/L							Date Analyzed
SampID: 24061096-003CMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Iron		0.0400		2.08	2.000	0	104.0	75	125	06/17/2024	

Batch 224439		SampType: MSD		Units mg/L							RPD Limit 20	Date Analyzed
SampID: 24061096-003CMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Iron		0.0400		2.05	2.000	0	102.5	2.080	1.45	06/17/2024		

Batch 224439		SampType: MS		Units mg/L							Date Analyzed
SampID: 24061163-003BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Barium		0.0025		2.05	2.000	0.05490	99.8	75	125	06/17/2024	
Beryllium		0.0005		0.0504	0.0500	0	100.8	75	125	06/17/2024	
Cadmium		0.0020		0.0484	0.0500	0	96.8	75	125	06/17/2024	
Chromium		0.0050		0.216	0.2000	0.01250	101.6	75	125	06/17/2024	
Copper		0.0050		0.609	0.2500	0.3162	117.0	75	125	06/18/2024	
Iron		0.0400		15.3	2.000	12.94	119.0	75	125	06/17/2024	
Manganese		0.0070		0.574	0.5000	0.06180	102.5	75	125	06/17/2024	
Nickel		0.0050		0.517	0.5000	0.01150	101.1	75	125	06/17/2024	
Selenium		0.0400		0.474	0.5000	0	94.7	75	125	06/17/2024	
Silver		0.0070		0.0442	0.0500	0	88.4	75	125	06/17/2024	
Zinc		0.0100		0.839	0.5000	0.3130	105.1	75	125	06/17/2024	

Batch 224439		SampType: MSD		Units mg/L							RPD Limit 20	Date Analyzed
SampID: 24061163-003BMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Barium		0.0025		2.05	2.000	0.05490	99.8	2.050	0.00	06/17/2024		
Beryllium		0.0005		0.0510	0.0500	0	102.0	0.05040	1.18	06/17/2024		
Cadmium		0.0020		0.0489	0.0500	0	97.8	0.04840	1.03	06/17/2024		
Chromium		0.0050		0.218	0.2000	0.01250	102.7	0.2156	1.06	06/17/2024		
Iron		0.0400		15.3	2.000	12.94	119.0	15.32	0.00	06/17/2024		
Manganese		0.0070		0.577	0.5000	0.06180	103.1	0.5741	0.54	06/17/2024		
Nickel		0.0050		0.517	0.5000	0.01150	101.1	0.5171	0.00	06/17/2024		
Selenium		0.0400		0.466	0.5000	0	93.2	0.4736	1.64	06/17/2024		
Silver		0.0070		0.0450	0.0500	0	90.0	0.04420	1.79	06/17/2024		
Zinc		0.0100		0.846	0.5000	0.3130	106.6	0.8387	0.89	06/17/2024		



Quality Control Results

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Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24051908

Client Project: Meredosia GW Monitoring Q2 2024

Report Date: 21-Jun-24

SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 224635 SampType: MBLK Units mg/L

SampID: MBLK-224635

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Barium		0.0025		< 0.0025	0.0007	0	0	-100	100	06/20/2024
Beryllium		0.0005		< 0.0005	0.0002	0	0	-100	100	06/20/2024
Boron		0.0200		< 0.0200	0.0090	0	0	-100	100	06/20/2024
Cadmium		0.0020		< 0.0020	0.0005	0	0	-100	100	06/20/2024
Chromium		0.0050		< 0.0050	0.0028	0	0	-100	100	06/20/2024
Cobalt		0.0050		< 0.0050	0.0020	0	0	-100	100	06/20/2024
Copper		0.0050		< 0.0050	0.0013	0	0	-100	100	06/20/2024
Iron		0.0400		< 0.0400	0.0200	0	0	-100	100	06/20/2024
Manganese		0.0070		< 0.0070	0.0025	0	0	-100	100	06/20/2024
Nickel		0.0050		< 0.0050	0.0016	0	0	-100	100	06/20/2024
Selenium		0.0400		< 0.0400	0.0170	0	0	-100	100	06/20/2024
Silver		0.0070		< 0.0070	0.0027	0	0	-100	100	06/20/2024
Vanadium		0.0100		< 0.0100	0.0009	0	0	-100	100	06/20/2024
Zinc		0.0100		< 0.0100	0.0050	0	0	-100	100	06/20/2024

Batch 224635 SampType: LCS Units mg/L

SampID: LCS-224635

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Barium		0.0025		2.08	2.000	0	104.0	85	115	06/20/2024
Beryllium		0.0005		0.0513	0.0500	0	102.6	85	115	06/20/2024
Boron		0.0200		0.502	0.5000	0	100.4	85	115	06/20/2024
Cadmium		0.0020		0.0546	0.0500	0	109.2	85	115	06/20/2024
Chromium		0.0050		0.206	0.2000	0	103.0	85	115	06/20/2024
Cobalt		0.0050		0.494	0.5000	0	98.8	85	115	06/20/2024
Copper		0.0050		0.255	0.2500	0	101.8	85	115	06/20/2024
Iron		0.0400		1.99	2.000	0	99.7	85	115	06/20/2024
Manganese		0.0070		0.495	0.5000	0	99.1	85	115	06/20/2024
Nickel		0.0050		0.513	0.5000	0	102.5	85	115	06/20/2024
Selenium		0.0400		0.514	0.5000	0	102.7	85	115	06/20/2024
Silver		0.0070		0.0495	0.0500	0	99.0	85	115	06/20/2024
Vanadium		0.0100		0.510	0.5000	0	101.9	85	115	06/20/2024
Zinc		0.0100		0.508	0.5000	0	101.5	85	115	06/20/2024



Quality Control Results

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

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24051908

Client Project: Meredosia GW Monitoring Q2 2024

Report Date: 21-Jun-24

SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 224635		SampType: MS		Units mg/L							Date Analyzed
SampID: 24061163-003BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Copper		0.0050		1.39	0.5000	0.8703	104.0	75	125	06/20/2024	

Batch 224635		SampType: MSD		Units mg/L							RPD Limit 20	Date Analyzed
SampID: 24061163-003BMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Copper		0.0050		1.26	0.5000	0.8703	77.1	1.390	10.14	06/20/2024		

SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

Batch 224183		SampType: MBLK		Units mg/L							Date Analyzed
SampID: MBLK-224183											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Antimony		0.0010		< 0.0010	0.0004	0	0	-100	100	06/12/2024	
Arsenic		0.0010		< 0.0010	0.0004	0	0	-100	100	06/12/2024	
Lead		0.0010		< 0.0010	0.0006	0	0	-100	100	06/12/2024	
Thallium		0.0020		< 0.0020	0.0010	0	0	-100	100	06/12/2024	

Batch 224183		SampType: LCS		Units mg/L							Date Analyzed
SampID: LCS-224183											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Antimony		0.0010		0.435	0.5000	0	87.1	80	120	06/12/2024	
Arsenic		0.0010		0.457	0.5000	0	91.4	80	120	06/12/2024	
Lead		0.0010		0.450	0.5000	0	90.1	80	120	06/12/2024	
Thallium		0.0020		0.242	0.2500	0	96.9	80	120	06/12/2024	

Batch 224183		SampType: MS		Units mg/L							Date Analyzed
SampID: 24051908-001DMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Antimony		0.0010		0.422	0.5000	0	84.4	75	125	06/12/2024	
Arsenic		0.0010		0.456	0.5000	0	91.3	75	125	06/12/2024	
Lead		0.0010		0.440	0.5000	0	88.0	75	125	06/12/2024	
Thallium		0.0020		0.221	0.2500	0	88.3	75	125	06/12/2024	



Quality Control Results

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Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24051908

Client Project: Meredosia GW Monitoring Q2 2024

Report Date: 21-Jun-24

SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

Batch 224183		SampType: MSD		Units mg/L				RPD Limit 20			Date Analyzed
SampID: 24051908-001DMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Antimony		0.0010		0.446	0.5000	0	89.3	0.4221	5.57	06/12/2024	
Arsenic		0.0010		0.448	0.5000	0	89.5	0.4565	1.94	06/12/2024	
Lead		0.0010		0.446	0.5000	0	89.3	0.4402	1.41	06/12/2024	
Thallium		0.0020		0.219	0.2500	0	87.7	0.2208	0.72	06/12/2024	

Batch 224311		SampType: MBLK		Units mg/L				Date Analyzed		
SampID: MBLK-224311										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		0.0010		< 0.0010	0.0004	0	0	-100	100	06/13/2024
Arsenic		0.0010		< 0.0010	0.0004	0	0	-100	100	06/13/2024
Lead		0.0010		< 0.0010	0.0006	0	0	-100	100	06/13/2024
Thallium		0.0020		< 0.0020	0.0010	0	0	-100	100	06/13/2024

Batch 224311		SampType: LCS		Units mg/L				Date Analyzed		
SampID: LCS-224311										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		0.0010		0.482	0.5000	0	96.4	85	115	06/13/2024
Arsenic		0.0010		0.482	0.5000	0	96.4	85	115	06/13/2024
Lead		0.0010		0.492	0.5000	0	98.4	85	115	06/13/2024
Thallium		0.0020		0.237	0.2500	0	94.7	85	115	06/13/2024

Batch 224311		SampType: MS		Units mg/L				Date Analyzed		
SampID: 24051908-002DMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		0.0010		0.459	0.5000	0.0005106	91.7	75	125	06/13/2024
Arsenic		0.0010		0.450	0.5000	0.001463	89.8	75	125	06/13/2024
Lead		0.0010		0.445	0.5000	0	88.9	75	125	06/13/2024
Thallium		0.0020		0.219	0.2500	0	87.8	75	125	06/13/2024

Batch 224311		SampType: MSD		Units mg/L				RPD Limit 20			Date Analyzed
SampID: 24051908-002DMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Antimony		0.0010		0.485	0.5000	0.0005106	97.0	0.4589	5.61	06/13/2024	
Arsenic		0.0010		0.455	0.5000	0.001463	90.6	0.4505	0.89	06/13/2024	
Lead		0.0010		0.445	0.5000	0	89.0	0.4445	0.08	06/13/2024	
Thallium		0.0020		0.227	0.2500	0	90.9	0.2195	3.47	06/13/2024	



Quality Control Results

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Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24051908

Client Project: Meredosia GW Monitoring Q2 2024

Report Date: 21-Jun-24

SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

Batch 224381 SampType: MBLK Units mg/L

SampID: MBLK-224381

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		0.0010		< 0.0010	0.0004	0	0	-100	100	06/14/2024
Arsenic		0.0010		< 0.0010	0.0004	0	0	-100	100	06/14/2024
Lead		0.0010		< 0.0010	0.0006	0	0	-100	100	06/14/2024
Thallium		0.0020		< 0.0020	0.0010	0	0	-100	100	06/14/2024

Batch 224381 SampType: LCS Units mg/L

SampID: LCS-224381

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		0.0010		0.492	0.5000	0	98.3	80	120	06/14/2024
Arsenic		0.0010		0.485	0.5000	0	97.0	80	120	06/14/2024
Lead		0.0010		0.493	0.5000	0	98.6	80	120	06/14/2024
Thallium		0.0020		0.250	0.2500	0	100.0	80	120	06/14/2024

Batch 224381 SampType: MS Units mg/L

SampID: 24060969-005GMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		0.0010		0.505	0.5000	0	100.9	75	125	06/14/2024
Arsenic		0.0010		0.477	0.5000	0.0008406	95.2	75	125	06/14/2024

Batch 224381 SampType: MSD Units mg/L

SampID: 24060969-005GMSD

RPD Limit 20

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Antimony		0.0010		0.514	0.5000	0	102.9	0.5047	1.88	06/14/2024
Arsenic		0.0010		0.466	0.5000	0.0008406	93.1	0.4771	2.25	06/14/2024

Batch 224644 SampType: MBLK Units mg/L

SampID: MBLK-224644

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		0.0010		< 0.0010	0.0004	0	0	-100	100	06/20/2024
Arsenic		0.0010		< 0.0010	0.0004	0	0	-100	100	06/20/2024
Lead		0.0010		< 0.0010	0.0006	0	0	-100	100	06/20/2024
Thallium		0.0020		< 0.0020	0.0010	0	0	-100	100	06/20/2024



Quality Control Results

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Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24051908

Client Project: Meredosia GW Monitoring Q2 2024

Report Date: 21-Jun-24

SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

Batch 224644 SampType: LCS Units mg/L

SampID: LCS-224644

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		0.0010		0.459	0.5000	0	91.8	80	120	06/20/2024
Arsenic		0.0010		0.464	0.5000	0	92.8	80	120	06/20/2024
Lead		0.0010		0.444	0.5000	0	88.8	80	120	06/20/2024
Thallium		0.0020		0.235	0.2500	0	94.2	80	120	06/20/2024

Batch 224644 SampType: MS Units mg/L

SampID: 24051908-014DMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Arsenic		0.0010		0.457	0.5000	0.001143	91.2	75	125	06/20/2024

Batch 224644 SampType: MSD Units mg/L

SampID: 24051908-014DMSD

RPD Limit 20

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Arsenic		0.0010		0.453	0.5000	0.001143	90.3	0.4569	0.93	06/20/2024

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 224240 SampType: MBLK Units mg/L

SampID: MBLK-224240

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		0.0010		< 0.0010	0.0004	0	0	-100	100	06/14/2024
Antimony		0.0010	S	0.0024	0.0004	0	543.5	-100	100	06/13/2024
Arsenic		0.0010		< 0.0010	0.0004	0	0	-100	100	06/13/2024
Lead		0.0010	S	0.0047	0.0006	0	790.2	-100	100	06/13/2024
Lead		0.0010		< 0.0010	0.0006	0	0	-100	100	06/14/2024
Thallium		0.0020		< 0.0020	0.0010	0	0	-100	100	06/13/2024

Batch 224240 SampType: LCS Units mg/L

SampID: LCS-224240

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		0.0010	B	0.554	0.5000	0	110.8	85	115	06/13/2024
Arsenic		0.0010		0.500	0.5000	0	100.0	85	115	06/13/2024
Lead		0.0010	B	0.487	0.5000	0	97.3	85	115	06/13/2024
Thallium		0.0020		0.239	0.2500	0	95.5	85	115	06/14/2024



Quality Control Results

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Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24051908

Client Project: Meredosia GW Monitoring Q2 2024

Report Date: 21-Jun-24

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 224240 SampType: MS Units mg/L

SampID: 24051908-010CMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		0.0010		0.510	0.5000	0	101.9	75	125	06/14/2024
Arsenic		0.0010		0.493	0.5000	0.0006514	98.5	75	125	06/14/2024
Lead		0.0010		0.471	0.5000	0.0009748	94.0	75	125	06/17/2024
Thallium		0.0020		0.224	0.2500	0	89.4	75	125	06/14/2024

Batch 224240 SampType: MSD Units mg/L

SampID: 24051908-010CMSD

RPD Limit 20

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Antimony		0.0010		0.504	0.5000	0	100.7	0.5096	1.17	06/14/2024
Arsenic		0.0010		0.470	0.5000	0.0006514	93.8	0.4929	4.81	06/14/2024
Lead		0.0010		0.460	0.5000	0.0009748	91.7	0.4710	2.44	06/17/2024
Thallium		0.0020		0.204	0.2500	0	81.4	0.2236	9.38	06/14/2024

Batch 224313 SampType: MBLK Units mg/L

SampID: MBLK-224313

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		0.0010		< 0.0010	0.0004	0	0	-100	100	06/13/2024
Arsenic		0.0010		< 0.0010	0.0004	0	0	-100	100	06/13/2024
Lead		0.0010		< 0.0010	0.0006	0	0	-100	100	06/13/2024
Thallium		0.0020		< 0.0020	0.0010	0	0	-100	100	06/13/2024

Batch 224313 SampType: LCS Units mg/L

SampID: LCS-224313

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		0.0010		0.562	0.5000	0	112.4	85	115	06/13/2024
Arsenic		0.0010		0.509	0.5000	0	101.8	85	115	06/13/2024
Lead		0.0010		0.493	0.5000	0	98.7	85	115	06/13/2024
Manganese		0.0020		0.530	0.5000	0	106.0	85	115	06/14/2024
Thallium		0.0020		0.215	0.2500	0	86.1	85	115	06/13/2024



Quality Control Results

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Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24051908

Client Project: Meredosia GW Monitoring Q2 2024

Report Date: 21-Jun-24

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 224424 SampType: MBLK Units mg/L

SampID: MBLK-224424

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		0.0010		< 0.0010	0.0004	0	0	-100	100	06/17/2024
Arsenic		0.0010		< 0.0010	0.0004	0	0	-100	100	06/17/2024
Lead		0.0010		< 0.0010	0.0006	0	0	-100	100	06/17/2024
Thallium		0.0020		< 0.0020	0.0010	0	0	-100	100	06/17/2024

Batch 224424 SampType: LCS Units mg/L

SampID: LCS-224424

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		0.0010		0.554	0.5000	0	110.8	85	115	06/17/2024
Arsenic		0.0010		0.524	0.5000	0	104.9	85	115	06/17/2024
Lead		0.0010	E	0.501	0.5000	0	100.3	85	115	06/17/2024
Thallium		0.0020		0.215	0.2500	0	85.9	85	115	06/17/2024

Batch 224424 SampType: MS Units mg/L

SampID: 24051908-011BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		0.0010		0.541	0.5000	0	108.2	75	125	06/17/2024
Arsenic		0.0010		0.500	0.5000	0	99.9	75	125	06/17/2024
Lead		0.0010		0.489	0.5000	0	97.9	75	125	06/17/2024
Thallium		0.0020		0.203	0.2500	0	81.4	75	125	06/17/2024

Batch 224424 SampType: MSD Units mg/L

RPD Limit 20

SampID: 24051908-011BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Antimony		0.0010		0.536	0.5000	0	107.3	0.5408	0.84	06/17/2024
Arsenic		0.0010		0.510	0.5000	0	102.1	0.4997	2.12	06/17/2024
Lead		0.0010		0.493	0.5000	0	98.7	0.4893	0.81	06/17/2024
Thallium		0.0020		0.213	0.2500	0	85.3	0.2035	4.64	06/17/2024

Batch 224439 SampType: MBLK Units mg/L

SampID: MBLK-224439

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		0.0010	S	0.0013	0.0004	0	280.2	-100	100	06/18/2024
Arsenic		0.0010		< 0.0010	0.0004	0	0	-100	100	06/18/2024
Lead		0.0010		< 0.0010	0.0006	0	0	-100	100	06/18/2024
Thallium		0.0020		< 0.0020	0.0010	0	0	-100	100	06/18/2024



Quality Control Results

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Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24051908

Client Project: Meredosia GW Monitoring Q2 2024

Report Date: 21-Jun-24

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 224439 SampType: LCS Units mg/L

SampID: LCS-224439

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		0.0010	B	0.507	0.5000	0	101.5	85	115	06/18/2024
Arsenic		0.0010		0.492	0.5000	0	98.4	85	115	06/18/2024
Lead		0.0010		0.487	0.5000	0	97.5	85	115	06/18/2024
Thallium		0.0020		0.216	0.2500	0	86.3	85	115	06/20/2024

Batch 224635 SampType: MBLK Units mg/L

SampID: MBLK-224635

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		0.0010		< 0.0010	0.0004	0	0	-100	100	06/21/2024
Arsenic		0.0010		< 0.0010	0.0004	0	0	-100	100	06/20/2024
Lead		0.0010		< 0.0010	0.0006	0	0	-100	100	06/20/2024
Thallium		0.0020		< 0.0020	0.0010	0	0	-100	100	06/20/2024

Batch 224635 SampType: LCS Units mg/L

SampID: LCS-224635

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		0.0010		0.569	0.5000	0	113.7	85	115	06/21/2024
Arsenic		0.0010		0.530	0.5000	0	105.9	85	115	06/20/2024
Lead		0.0010	E	0.523	0.5000	0	104.7	85	115	06/20/2024
Thallium		0.0020		0.254	0.2500	0	101.6	85	115	06/20/2024

Batch 224635 SampType: MS Units mg/L

SampID: 24061591-004DMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Arsenic		0.0010		0.538	0.5000	0	107.6	75	125	06/20/2024
Lead		0.0010		0.500	0.5000	0	99.9	75	125	06/20/2024

Batch 224635 SampType: MSD Units mg/L

SampID: 24061591-004DMSD

RPD Limit 20

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Arsenic		0.0010		0.539	0.5000	0	107.8	0.5378	0.26	06/20/2024
Lead		0.0010		0.518	0.5000	0	103.6	0.4997	3.59	06/20/2024



Quality Control Results

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Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24051908

Client Project: Meredosia GW Monitoring Q2 2024

Report Date: 21-Jun-24

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 224635		SampType: DUP		Units mg/L				RPD Limit 20			Date Analyzed
SampID: 24051908-008CDUP											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Antimony		0.0010		< 0.0010				0.0008614	0.00	06/21/2024	

SW-846 7470A (TOTAL)

Batch 224207		SampType: MBLK		Units mg/L				RPD Limit 20			Date Analyzed
SampID: MBLK-224207											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.00020		< 0.00020	0.0001	0	0	-100	100	06/12/2024	

Batch 224207		SampType: LCS		Units mg/L				RPD Limit 20			Date Analyzed
SampID: LCS-224207											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.00020		0.00567	0.0050	0	113.5	85	115	06/12/2024	

Batch 224207		SampType: MS		Units mg/L				RPD Limit 20			Date Analyzed
SampID: 24051908-001CMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.00020		0.00518	0.0050	0	103.5	75	125	06/12/2024	

Batch 224207		SampType: MSD		Units mg/L				RPD Limit 15			Date Analyzed
SampID: 24051908-001CMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Mercury		0.00020		0.00515	0.0050	0	103.1	0.005177	0.44	06/12/2024	

Batch 224207		SampType: MS		Units mg/L				RPD Limit 20			Date Analyzed
SampID: 24060661-002BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.00020		0.00557	0.0050	0	111.5	75	125	06/12/2024	

Batch 224207		SampType: MSD		Units mg/L				RPD Limit 15			Date Analyzed
SampID: 24060661-002BMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Mercury		0.00020		0.00548	0.0050	0	109.5	0.005573	1.76	06/12/2024	



Quality Control Results

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Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24051908

Client Project: Meredosia GW Monitoring Q2 2024

Report Date: 21-Jun-24

SW-846 7470A (TOTAL)

Batch 224385		SampType: MBLK		Units mg/L						
SampID: MBLK-224385										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Mercury		0.00020		< 0.00020	0.0001	0	0	-100	100	06/14/2024

Batch 224385		SampType: LCS		Units mg/L						
SampID: LCS-224385										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Mercury		0.00020		0.00552	0.0050	0	110.5	85	115	06/14/2024

Batch 224385		SampType: MS		Units mg/L						
SampID: 24051908-004CMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Mercury		0.00020		0.00568	0.0050	0	113.6	75	125	06/14/2024

Batch 224385		SampType: MSD		Units mg/L						
SampID: 24051908-004CMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Mercury		0.00020		0.00571	0.0050	0	114.3	0.005680	0.62	06/14/2024

Batch 224385		SampType: MS		Units mg/L						
SampID: 24060997-001CMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Mercury		0.00020		0.00554	0.0050	0	110.7	75	125	06/14/2024

Batch 224385		SampType: MSD		Units mg/L						
SampID: 24060997-001CMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Mercury		0.00020		0.00562	0.0050	0	112.4	0.005536	1.48	06/14/2024



Receiving Check List

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

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24051908

Client Project: Meredosia GW Monitoring Q2 2024

Report Date: 21-Jun-24

Carrier: Justin Colp

Received By: AMD

Completed by:

Amber Dilallo

Reviewed by:

Ellie Hopkins

On:

10-Jun-24

Amber Dilallo

On:

12-Jun-24

Ellie Hopkins

Pages to follow: Chain of custody

Extra pages included

- | | | | | |
|---|---|---|--------------------------------------|----------------------------------|
| Shipping container/cooler in good condition? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> | Temp °C 10.6 |
| Type of thermal preservation? | None <input type="checkbox"/> | Ice <input checked="" type="checkbox"/> | Blue Ice <input type="checkbox"/> | Dry Ice <input type="checkbox"/> |
| Chain of custody present? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | | |
| Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | | |
| Chain of custody agrees with sample labels? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | | |
| Samples in proper container/bottle? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | | |
| Sample containers intact? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | | |
| Sufficient sample volume for indicated test? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | | |
| All samples received within holding time? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | | |
| Reported field parameters measured: | Field <input checked="" type="checkbox"/> | Lab <input type="checkbox"/> | NA <input type="checkbox"/> | |
| Container/Temp Blank temperature in compliance? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | | |

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 <input type="checkbox"/> | No <input type="checkbox"/> | No VOA vials <input checked="" type="checkbox"/> |
| Water - TOX containers have zero headspace? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | No TOX containers <input checked="" type="checkbox"/> |
| Water - pH acceptable upon receipt? | Yes <input type="checkbox"/> | No <input checked="" type="checkbox"/> | NA <input type="checkbox"/> |
| NPDES/CWA TCN interferences checked/treated in the field? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/> |

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

pH strip #89660/96651. - LH/amberdilallo - 6/10/2024 4:02:57 PM

Additional Nitric Acid (97737) was needed in APW-6 and APW-11 upon arrival at the laboratory. - LH/amberdilallo - 6/10/2024 4:02:59 PM

Samples were received on 6/11/24 at 1545 on ice [9.5C - LTG#5]. Additional Nitric Acid (97737) was needed in APW-3 upon arrival at the laboratory. pH strip #89660/96651. - LH/amberdilallo - 6/11/2024 4:12:59 PM

Samples were received on 6/12/24 at 1440 on ice [6.7C - LTG#7]. pH strip #96651/89660. Field Blank was filtered and preserved with Nitric Acid (97737) for the dissolved parameters upon arrival at the laboratory. - Imaddox - 6/12/2024 3:35:14 PM

CHAIN OF CUSTODY

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

Client: AmerenEnergy Medina Valley Cogen, LLC
Address: 1901 Chouteau Avenue
City / State / Zip: St. Louis, MO 63166-8892
Contact: Annie Muehlfarth **Phone:** (314) 554-4581
E-Mail: amuehlfarth@ameren.com **Fax:**

Samples on: ICE BLUE ICE NO ICE 10.6 °C LTG# 5
Preserved in: LAB FIELD **FOR LAB USE ONLY**
Lab Notes: PH 9.6651 / P9660
 added HNO3 (97737) to APW6, APW11 LT# 6/10/24

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

Client Comments
 Total Metals: ICP 6010 Ba Be B Cd Cr Co Cu Fe Mn Ni Se Ag V Zn, ICP/MS 6020 Sb As Pb Tl, And Hg
 Dissolved Metals: ICP 6010 Ba Be B Cd Cr Co Cu Fe Mn Ni Se Ag V Zn, ICP/MS 6020 Sb As Pb Tl, And Hg
 Field Blank - filter upon arrival at the lab

Project Name/Number: Meredosia GW Monitoring Q2 2024
Sample Collector's Name: Justin Colp

Results Requested: Standard 1-2 Day (100% Surcharge)
 Other 3 Day (50% Surcharge)
Billing Instructions:
and Type of Containers:

Lab Use Only	Sample Identification	Date/Time Sampled	# and Type of Containers			INDICATE ANALYSIS REQUESTED																		
			UNP	HNO3	NaOH	Groundwater	Aqueous	Chloride, Dissolved	Cyanide, Total	Dissolved Metals	Field Conductivity	Field DO	Field Elevations	Field ORP	Field pH	Field Temperature	Field Turbidity	Fluoride, Dissolved	Nitrate, Dissolved	Sulfate, Dissolved	TDS, Dissolved	Total Metals		
24051908-001	APW-1	6-10-24 / 1152	2	2	1	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
-002	APW-2		2	2	1	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
-003	APW-3		2	2	1	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
-004	APW-4		2	2	1	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
-005	APW-5		2	2	1	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
-006	APW-6	6-10-24 / 1051	2	2	1	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
-007	APW-7		2	2	1	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
-008	APW-8		2	2	1	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
-009	APW-9	6-10-24 / 1347	2	2	1	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
-010	APW-1 DUP	6-10-24 / 1152	2	2	1	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Relinquished By: J. Colp **Date/Time:** 6-10-24 / 1545

Received By: Amber Daniels **Date/Time:** 6/10/24 1545

CHAIN OF CUSTODY

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

Client: AmerenEnergy Medina Valley Cogen, LLC Address: 1901 Chouteau Avenue City / State / Zip: St. Louis, MO 63166-6892 Contact: Annie Muehlfarth Phone: (314) 554-4581 E-Mail: amuehlfarth@ameren.com Fax:	Samples on: <input checked="" type="checkbox"/> ICE <input type="checkbox"/> BLUE ICE <input type="checkbox"/> NO ICE °C LTG# Preserved in: <input type="checkbox"/> LAB <input type="checkbox"/> FIELD FOR LAB USE ONLY Lab Notes:
---	---

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

Client Comments
 Total Metals: ICP 6010 Ba Be B Cd Cr Co Cu Fe Mn Ni Se Ag V Zn, ICP/MS 6020 Sb As Pb Tl, And Hg
 Dissolved Metals: ICP 6010 Ba Be B Cd Cr Co Cu Fe Mn Ni Se Ag V Zn, ICP/MS 6020 Sb As Pb Tl, And Hg
 Field Blank - filter upon arrival at the lab

Project Name/Number		Sample Collector's Name			MATRIX		INDICATE ANALYSIS REQUESTED															
Meredosia GW Monitoring Q2 2024		Justin Colp			Aqueous	Groundwater	Chloride, Dissolved	Cyanide, Total	Dissolved Metals	Field Conductivity	Field DO	Field Elevations	Field ORP	Field pH	Field Temperature	Field Turbidity	Fluoride, Dissolved	Nitrate, Dissolved	Sulfate, Dissolved	TDS, Dissolved	Total Metals	
Results Requested	Billing Instructions	# and Type of Containers																				
<input checked="" type="checkbox"/> Standard <input type="checkbox"/> 1-2 Day (100% Surcharge) <input type="checkbox"/> Other <input type="checkbox"/> 3 Day (50% Surcharge)		UNP	HNO3	NaOH																		
Lab Use Only	Sample Identification	Date/Time Sampled																				
24051908-011	Field Blank		2	1	1																	
-012	APW-10	6-10-24 / 1300	2	2	1																	
-013	APW-11	6-10-24 / 1224	2	2	1																	
-014	APW-12		2	2	1																	
-015	APW-13 DRY	6-10-24 / 1355	2	2	1																	
-016	APW-14 DRY	6-10-24 / 1358	2	2	1																	

Relinquished By	Date/Time	Received By	Date/Time
J. Colp	6-10-24 / 1545	Diana Dill	6/10/24 1545

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.

Bottle Order: 89265



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

Client: AmerenEnergy Medina Valley Cogen, LLC	Samples on: <input checked="" type="checkbox"/> ICE <input type="checkbox"/> BLUE ICE <input type="checkbox"/> NO ICE <u>9.5 °C</u> LTG# <u>5</u>
Address: 1901 Chouteau Avenue	Preserved in: <input checked="" type="checkbox"/> LAB <input type="checkbox"/> FIELD FOR LAB USE ONLY
City / State / Zip: St. Louis, MO 63166-6892	Lab Notes: PHN 96651/89660 added HNO3 (97737) to APW3 LT# 6/11/24
Contact: Annie Muehfarth Phone: (314) 554-4581	Client Comments
E-Mail: amuehfarth@ameren.com Fax:	Total Metals: ICP 6010 Ba Be B Cd Cr Co Cu Fe Mn Ni Se Ag V Zn, ICP/MS 6020 Sb As Pb Tl, And Hg Dissolved Metals: ICP 6010 Ba Be B Cd Cr Co Cu Fe Mn Ni Se Ag V Zn, ICP/MS 6020 Sb As Pb Tl, And 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

Field Blank - filter upon arrival at the lab

Project Name/Number		Sample Collector's Name			MATRIX		INDICATE ANALYSIS REQUESTED															
Meredosia GW Monitoring Q2 2024		Danny Brett			Aqueous	Groundwater	Chloride, Dissolved	Cyanide, Total	Dissolved Metals	Field Conductivity	Field DO	Field Elevations	Field ORP	Field pH	Field Temperature	Field Turbidity	Fluoride, Dissolved	Nitrate, Dissolved	Sulfate, Dissolved	TDS, Dissolved	Total Metals	
Results Requested	Billing Instructions	# and Type of Containers																				
<input checked="" type="checkbox"/> Standard <input type="checkbox"/> 1-2 Day (100% Surcharge)		UNP	HNO3	NaOH																		
<input type="checkbox"/> Other <input type="checkbox"/> 3 Day (50% Surcharge)																						
Lab Use Only	Sample Identification	Date/Time Sampled																				
24051908-001	APW-1		2	2	1																	
-002	APW-2	6-11-24 1245	2	2	1																	
-003	APW-3	6-11-24 1338	2	2	1																	
-004	APW-4		2	2	1																	
-005	APW-5	6-11-24 1204	2	2	1																	
-006	APW-6		2	2	1																	
-007	APW-7		2	2	1																	
-008	APW-8	6-11-24 1012	2	2	1																	
-009	APW-9		2	2	1																	
-010	APW-1 DUP		2	2	1																	

Relinquished By	Date/Time	Received By	Date/Time
<i>Daniel Camp</i>	6-11/24 1545	<i>Zaffer</i>	6/11/24 1545

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

Client: AmerenEnergy Medina Valley Cogen, LLC Address: 1901 Chouteau Avenue City / State / Zip: St. Louis, MO 63166-6892 Contact: Annie Muehfarth Phone: (314) 554-4581 E-Mail: amuehfarth@ameren.com Fax:	Samples on: <input checked="" type="checkbox"/> ICE <input checked="" type="checkbox"/> BLUE ICE <input checked="" type="checkbox"/> NO ICE 6.7 °C LTG# 7 Preserved in: <input checked="" type="checkbox"/> LAB <input checked="" type="checkbox"/> FIELD FOR LAB USE ONLY Lab Notes: 96051/89000 m 6/12
---	--

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

Client Comments
 Total Metals: ICP 6010 Ba Be B Cd Cr Co Cu Fe Mn Ni Se Ag V Zn, ICP/MS 6020 Sb As Pb Tl, And Hg
 Dissolved Metals: ICP 6010 Ba Be B Cd Cr Co Cu Fe Mn Ni Se Ag V Zn, ICP/MS 6020 Sb As Pb Tl, And Hg
 Field Blank - filter upon arrival at the lab

Project Name/Number		Sample Collector's Name				MATRIX		INDICATE ANALYSIS REQUESTED														
Meredosia GW Monitoring Q2 2024						Groundwater	Aqueous	Chloride, Dissolved	Cyanide, Total	Dissolved Metals	Field Conductivity	Field DO	Field Elevations	Field ORP	Field pH	Field Temperature	Field Turbidity	Fluoride, Dissolved	Nitrate, Dissolved	Sulfate, Dissolved	TDS, Dissolved	Total Metals
Results Requested	Billing Instructions	# and Type of Containers																				
<input checked="" type="checkbox"/> Standard <input type="checkbox"/> 1-2 Day (100% Surcharge) <input type="checkbox"/> Other <input type="checkbox"/> 3 Day (50% Surcharge)		UNP	HNO3	NaOH																		
Lab Use Only	Sample Identification	Date/Time Sampled																				
	APW-1	6-12-24		2	2	1																
	-002 APW-2			2	2	1																
	-003 APW-3			2	2	1																
	-004 APW-4	11/10		2	2	1																
	-005 APW-5			2	2	1																
	-006 APW-6			2	2	1																
	-007 APW-7	11/42		2	2	1																
	-008 APW-8			2	2	1																
	-009 APW-9			2	2	1																
	-010 APW-1 DUP			2	2	1																

Relinquished By	Date/Time	Received By	Date/Time
<i>Daniel Cunniff</i>	6-12/24 1440	<i>Mark Reed</i>	6/12/24 1440

CHAIN OF CUSTODY

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

Client: AmerenEnergy Medina Valley Cogen, LLC
Address: 1901 Chouteau Avenue
City / State / Zip: St. Louis, MO 63166-6892
Contact: Annie Muehlfarth **Phone:** (314) 554-4581
E-Mail: amuehlfarth@ameren.com **Fax:**

Samples on: ICE BLUE ICE NO ICE _____ °C **LTG#** _____
Preserved in: LAB FIELD **FOR LAB USE ONLY**
Lab Notes:

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

Client Comments
 Total Metals: ICP 6010 Ba Be B Cd Cr Co Cu Fe Mn Ni Se Ag V Zn, ICP/MS 6020 Sb As Pb Tl, And Hg
 Dissolved Metals: ICP 6010 Ba Be B Cd Cr Co Cu Fe Mn Ni Se Ag V Zn, ICP/MS 6020 Sb As Pb Tl, And Hg
 Field Blank - filter upon arrival at the lab

Project Name/Number		Sample Collector's Name				MATRIX		INDICATE ANALYSIS REQUESTED															
Meredosia GW Monitoring Q2 2024						Groundwater	Aqueous	Chloride, Dissolved	Cyanide, Total	Dissolved Metals	Field Conductivity	Field DO	Field Elevations	Field ORP	Field pH	Field Temperature	Field Turbidity	Fluoride, Dissolved	Nitrate, Dissolved	Sulfate, Dissolved	TDS, Dissolved	Total Metals	
Results Requested	Billing Instructions	# and Type of Containers																					
<input checked="" type="checkbox"/> Standard <input type="checkbox"/> 1-2 Day (100% Surcharge) <input type="checkbox"/> Other <input type="checkbox"/> 3 Day (50% Surcharge)		UNP	HNO3	NaOH																			
Lab Use Only	Sample Identification	Date/Time Sampled																					
24051908-011	Field Blank	6-12-24 1152				2	1	1															
-012	APW-10	2	2	1																			
-013	APW-11	2	2	1																			
-014	APW-12	1034				2	2	1															
-015	APW-13	2	2	1																			
-016	APW-14	2	2	1																			

Relinquished By	Date/Time	Received By	Date/Time
Daniel Camp	6-12/1990	Ann Reed	6/12/24 1440

EXHIBIT 3

September 09, 2024

Annie Muehlfarth
AmerenEnergy Medina Valley Cogen, LLC
1901 Chouteau Avenue
PO Box 66149, MC602
St. Louis, MO 63166-6892
TEL: (314) 437-6552
FAX:



Illinois	100226
Illinois	1004652024-2
Kansas	E-10374
Louisiana	05002
Louisiana	05003
Oklahoma	9978

RE: Meredosia GW Monitoring Q3 2024

WorkOrder: 24080263

Dear Annie Muehlfarth:

TEKLAB, INC received 16 samples on 8/28/2024 2:33:00 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,



Elizabeth A. Hurley
Director of Customer Service
(618)344-1004 ex 33
ehurley@teklabinc.com



Report Contents

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

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24080263

Client Project: Meredosia GW Monitoring Q3 2024

Report Date: 09-Sep-24

This reporting package includes the following:

Cover Letter	1
Report Contents	2
Definitions	3
Case Narrative	5
Accreditations	6
Laboratory Results	7
Quality Control Results	35
Receiving Check List	71
Chain of Custody	Appended

Definitions

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24080263

Client Project: Meredosia GW Monitoring Q3 2024

Report Date: 09-Sep-24

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

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

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24080263

Client Project: Meredosia GW Monitoring Q3 2024

Report Date: 09-Sep-24

Qualifiers

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



Case Narrative

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

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24080263

Client Project: Meredosia GW Monitoring Q3 2024

Report Date: 09-Sep-24

Cooler Receipt Temp: 10.1 °C

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

APW-13 and APW-14 could not be collected; the wells were dry.

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
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Accreditations

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Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24080263

Client Project: Meredosia GW Monitoring Q3 2024

Report Date: 09-Sep-24

State	Dept	Cert #	NELAP	Exp Date	Lab
Illinois	IEPA	100226	NELAP	1/31/2025	Collinsville
Illinois	IEPA	1004652024-2	NELAP	4/30/2025	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	12/31/2024	Collinsville
Arkansas	ADEQ	88-0966		3/14/2025	Collinsville
Illinois	IDPH	17584		5/31/2025	Collinsville
Iowa	IDNR	430		6/1/2026	Collinsville
Kentucky	UST	0073		1/31/2025	Collinsville
Mississippi	MSDH			4/30/2025	Collinsville
Missouri	MDNR	930		1/31/2025	Collinsville
Missouri	MDNR	00930		10/31/2026	Collinsville



Laboratory Results

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24080263

Client Project: Meredosia GW Monitoring Q3 2024

Report Date: 09-Sep-24

Lab ID: 24080263-001

Client Sample ID: APW-1

Matrix: GROUNDWATER

Collection Date: 08/27/2024 11:02

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		421.22	ft	1	08/27/2024 11:02	R352458
Depth to water	*	-5.00		16.15	ft	1	08/27/2024 11:02	R352458
Depth to water from measuring point	*	0		19.35	ft	1	08/27/2024 11:02	R352458
Elevation of groundwater surface	*	0		429.91	ft	1	08/27/2024 11:02	R352458
Measuring Point Elevation	*	0		449.26	ft	1	08/27/2024 11:02	R352458
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		15	NTU	1	08/27/2024 11:02	R352458
STANDARD METHODS 18TH ED. 2580 B FIELD								
Oxidation-Reduction Potential	*	-300		103	mV	1	08/27/2024 11:02	R352458
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		18.0	°C	1	08/27/2024 11:02	R352458
STANDARD METHODS 4500-O G FIELD								
Oxygen, Dissolved	*	0		6.34	mg/L	1	08/27/2024 11:02	R352458
SW-846 9040B								
pH, Field	*	1.00		6.75	S.U.	1	08/27/2024 11:02	R352458
SW-846 9050A								
Spec. Conductance, Field	*	1.00		450	µmhos/cm@25C	1	08/27/2024 11:02	R352458
STANDARD METHODS 2540 C (DISSOLVED) 1997, 2011								
Total Dissolved Solids	NELAP	20		254	mg/L	1	08/30/2024 9:31	R352631
STANDARD METHODS 4500-NO3 F (DISSOLVED) 2000, 2011								
Nitrogen, Nitrate (as N)	NELAP	0.500		6.45	mg/L	1	08/28/2024 14:00	R352453
SW-846 9012A (TOTAL)								
Cyanide	NELAP	0.005		< 0.005	mg/L	1	08/29/2024 12:25	227742
SW846 9056A DISSOLVED ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	*	0.50	J	0.12	mg/L	10	08/28/2024 10:23	R352382
Chloride	*	5.00		44.6	mg/L	10	08/28/2024 10:23	R352382
Sulfate	*	10.0		11.5	mg/L	10	08/28/2024 10:23	R352382
SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)								
Barium	NELAP	0.0025		0.0121	mg/L	1	08/30/2024 15:14	227702
Beryllium	NELAP	0.0005		< 0.0005	mg/L	1	08/30/2024 15:14	227702
Boron	NELAP	0.0200		0.0377	mg/L	1	08/30/2024 15:14	227702
Cadmium	NELAP	0.0020		< 0.0020	mg/L	1	08/30/2024 15:14	227702
Chromium	NELAP	0.0050		< 0.0050	mg/L	1	08/30/2024 15:14	227702
Cobalt	NELAP	0.0050		< 0.0050	mg/L	1	08/30/2024 15:14	227702
Copper	NELAP	0.0050		< 0.0050	mg/L	1	08/30/2024 15:14	227702
Iron	NELAP	0.0400		< 0.0400	mg/L	1	08/30/2024 15:14	227702
Manganese	NELAP	0.0070		0.0206	mg/L	1	08/30/2024 15:14	227702
Nickel	NELAP	0.0050		< 0.0050	mg/L	1	09/03/2024 12:43	227702
Selenium	NELAP	0.0400		< 0.0400	mg/L	1	08/30/2024 15:14	227702
Silver	NELAP	0.0070		< 0.0070	mg/L	1	08/30/2024 15:14	227702
Vanadium	NELAP	0.0100		< 0.0100	mg/L	1	08/30/2024 15:14	227702
Zinc	NELAP	0.0100		< 0.0100	mg/L	1	08/30/2024 15:14	227702
CCV recovered outside the upper control limits. Sample results are below the reporting limit. Data is reportable per the TNI standard.								
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		0.0222	mg/L	1	08/30/2024 16:39	227779



Laboratory Results

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24080263

Client Project: Meredosia GW Monitoring Q3 2024

Report Date: 09-Sep-24

Lab ID: 24080263-001

Client Sample ID: APW-1

Matrix: GROUNDWATER

Collection Date: 08/27/2024 11:02

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Beryllium	NELAP	0.0005		< 0.0005	mg/L	1	08/30/2024 16:39	227779
Boron	NELAP	0.0200		0.0649	mg/L	1	08/30/2024 16:39	227779
Cadmium	NELAP	0.0020		< 0.0020	mg/L	1	08/30/2024 16:39	227779
Chromium	NELAP	0.0050	J	0.0037	mg/L	1	08/30/2024 16:39	227779
Cobalt	NELAP	0.0050		0.0066	mg/L	1	08/30/2024 16:39	227779
Copper	NELAP	0.0050		0.0063	mg/L	1	08/30/2024 16:39	227779
Iron	NELAP	0.0400		2.63	mg/L	1	08/30/2024 16:39	227779
Manganese	NELAP	0.0070		0.389	mg/L	1	08/30/2024 16:39	227779
Nickel	NELAP	0.0050		0.0096	mg/L	1	08/30/2024 16:39	227779
Selenium	NELAP	0.0400		< 0.0400	mg/L	1	08/30/2024 16:39	227779
Silver	NELAP	0.0070		< 0.0070	mg/L	1	08/30/2024 16:39	227779
Vanadium	NELAP	0.010	J	0.0046	mg/L	1	08/30/2024 16:39	227779
Zinc	NELAP	0.0100		0.0103	mg/L	1	08/30/2024 16:39	227779
SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)								
Antimony	NELAP	0.0010		< 0.0010	mg/L	5	09/05/2024 13:24	227702
Arsenic	NELAP	0.0010		< 0.0010	mg/L	5	08/28/2024 9:02	227702
Lead	NELAP	0.0010		< 0.0010	mg/L	5	08/28/2024 9:02	227702
Thallium	NELAP	0.0020		< 0.0020	mg/L	5	08/28/2024 9:02	227702
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010	B	< 0.0010	mg/L	5	09/03/2024 22:50	227779
Arsenic	NELAP	0.0010		0.0015	mg/L	5	09/03/2024 22:50	227779
Lead	NELAP	0.0010		0.0032	mg/L	5	09/03/2024 22:50	227779
Thallium	NELAP	0.0020		< 0.0020	mg/L	5	09/03/2024 22:50	227779
<i>Contamination present in the MBLK for Sb. Sample results below the reporting limit are reportable per the TNI Standard.</i>								
SW-846 7470A (DISSOLVED)								
Mercury	NELAP	0.00020		< 0.00020	mg/L	1	08/29/2024 8:36	227737
<i>LCS recovered outside upper control limits. Sample results are below the reporting limit. Data is reportable per the TNI Standard.</i>								
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		< 0.00020	mg/L	1	08/29/2024 8:33	227737
<i>LCS recovered outside upper control limits. Sample results are below the reporting limit. Data is reportable per the TNI Standard.</i>								



Laboratory Results

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24080263

Client Project: Meredosia GW Monitoring Q3 2024

Report Date: 09-Sep-24

Lab ID: 24080263-002

Client Sample ID: APW-2

Matrix: GROUNDWATER

Collection Date: 08/28/2024 10:31

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		410.57	ft	1	08/28/2024 10:31	R352458
Depth to water	*	-5.00		11.14	ft	1	08/28/2024 10:31	R352458
Depth to water from measuring point	*	0		14.04	ft	1	08/28/2024 10:31	R352458
Elevation of groundwater surface	*	0		422.83	ft	1	08/28/2024 10:31	R352458
Measuring Point Elevation	*	0		436.87	ft	1	08/28/2024 10:31	R352458
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		11	NTU	1	08/28/2024 10:31	R352458
STANDARD METHODS 18TH ED. 2580 B FIELD								
Oxidation-Reduction Potential	*	-300		-5	mV	1	08/28/2024 10:31	R352458
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		16.6	°C	1	08/28/2024 10:31	R352458
STANDARD METHODS 4500-O G FIELD								
Oxygen, Dissolved	*	0		0.77	mg/L	1	08/28/2024 10:31	R352458
SW-846 9040B								
pH, Field	*	1.00		6.52	S.U.	1	08/28/2024 10:31	R352458
SW-846 9050A								
Spec. Conductance, Field	*	1.00		485	µmhos/cm@25C	1	08/28/2024 10:31	R352458
STANDARD METHODS 2540 C (DISSOLVED) 1997, 2011								
Total Dissolved Solids	NELAP	20		340	mg/L	1	08/30/2024 9:31	R352631
STANDARD METHODS 4500-NO3 F (DISSOLVED) 2000, 2011								
Nitrogen, Nitrate (as N)	NELAP	0.050		< 0.050	mg/L	1	08/28/2024 15:57	R352453
SW-846 9012A (TOTAL)								
Cyanide	NELAP	0.005	B	< 0.005	mg/L	1	08/30/2024 14:16	227805
LCS recovered outside upper control limits. Sample results are below the reporting limit. Data is reportable per the TNI Standard.								
Contamination present in the MBLK. Sample results below the reporting limit are reportable per the TNI Standard.								
SW846 9056A DISSOLVED ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	*	0.50	J	0.15	mg/L	10	08/29/2024 9:45	R352440
Chloride	*	5.00		5.92	mg/L	10	08/29/2024 9:45	R352440
Sulfate	*	10	J	6.8	mg/L	10	08/29/2024 9:45	R352440
SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)								
Barium	NELAP	0.0025		0.0416	mg/L	1	08/30/2024 15:03	227786
Beryllium	NELAP	0.0005		< 0.0005	mg/L	1	08/30/2024 15:03	227786
Boron	NELAP	0.0200		1.01	mg/L	1	08/30/2024 15:03	227786
Cadmium	NELAP	0.0020		< 0.0020	mg/L	1	08/30/2024 15:03	227786
Chromium	NELAP	0.0050		< 0.0050	mg/L	1	08/30/2024 15:03	227786
Cobalt	NELAP	0.0050		< 0.0050	mg/L	1	08/30/2024 15:03	227786
Copper	NELAP	0.0050		< 0.0050	mg/L	1	08/30/2024 15:03	227786
Iron	NELAP	0.0400		0.718	mg/L	1	08/30/2024 15:03	227786
Manganese	NELAP	0.0070	X	0.192	mg/L	1	08/30/2024 15:03	227786
Nickel	NELAP	0.0050		< 0.0050	mg/L	1	08/30/2024 15:03	227786
Selenium	NELAP	0.0400		< 0.0400	mg/L	1	08/30/2024 15:03	227786
Silver	NELAP	0.0070		< 0.0070	mg/L	1	08/30/2024 15:03	227786
Vanadium	NELAP	0.0100		< 0.0100	mg/L	1	08/30/2024 15:03	227786
Zinc	NELAP	0.0100		< 0.0100	mg/L	1	08/30/2024 15:03	227786



Laboratory Results

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24080263

Client Project: Meredosia GW Monitoring Q3 2024

Report Date: 09-Sep-24

Lab ID: 24080263-002

Client Sample ID: APW-2

Matrix: GROUNDWATER

Collection Date: 08/28/2024 10:31

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		0.0464	mg/L	1	08/30/2024 16:52	227779
Beryllium	NELAP	0.0005		< 0.0005	mg/L	1	08/30/2024 16:52	227779
Boron	NELAP	0.0200		1.05	mg/L	1	08/30/2024 16:52	227779
Cadmium	NELAP	0.0020		< 0.0020	mg/L	1	08/30/2024 16:52	227779
Chromium	NELAP	0.0050		< 0.0050	mg/L	1	08/30/2024 16:52	227779
Cobalt	NELAP	0.0050		< 0.0050	mg/L	1	08/30/2024 16:52	227779
Copper	NELAP	0.0050		< 0.0050	mg/L	1	08/30/2024 16:52	227779
Iron	NELAP	0.0400		1.18	mg/L	1	08/30/2024 16:52	227779
Manganese	NELAP	0.0070		0.203	mg/L	1	08/30/2024 16:52	227779
Nickel	NELAP	0.0050		< 0.0050	mg/L	1	08/30/2024 16:52	227779
Selenium	NELAP	0.0400		< 0.0400	mg/L	1	08/30/2024 16:52	227779
Silver	NELAP	0.0070		< 0.0070	mg/L	1	08/30/2024 16:52	227779
Vanadium	NELAP	0.0100		< 0.0100	mg/L	1	08/30/2024 16:52	227779
Zinc	NELAP	0.0100		< 0.0100	mg/L	1	08/30/2024 16:52	227779
SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)								
Antimony	NELAP	0.0010		< 0.0010	mg/L	5	09/06/2024 10:24	227786
Arsenic	NELAP	0.0010		0.0012	mg/L	5	08/29/2024 19:37	227786
Lead	NELAP	0.0010		< 0.0010	mg/L	5	08/29/2024 19:37	227786
Thallium	NELAP	0.0020		< 0.0020	mg/L	5	08/29/2024 19:37	227786
<i>LCS recovered outside upper control limits. Sample results are below the reporting limit. Data is reportable per the TNI Standard.</i>								
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010	J	0.0008	mg/L	5	09/05/2024 11:58	227779
Arsenic	NELAP	0.0010		0.0016	mg/L	5	09/03/2024 23:30	227779
Lead	NELAP	0.0010		< 0.0010	mg/L	5	09/03/2024 23:30	227779
Thallium	NELAP	0.0020		< 0.0020	mg/L	5	09/03/2024 23:30	227779
SW-846 7470A (DISSOLVED)								
Mercury	NELAP	0.00020		< 0.00020	mg/L	1	08/30/2024 13:13	227774
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		< 0.00020	mg/L	1	08/30/2024 13:06	227774



Laboratory Results

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24080263

Client Project: Meredosia GW Monitoring Q3 2024

Report Date: 09-Sep-24

Lab ID: 24080263-003

Client Sample ID: APW-3

Matrix: GROUNDWATER

Collection Date: 08/26/2024 14:03

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		410.40	ft	1	08/26/2024 14:03	R352458
Depth to water	*	-5.00		10.92	ft	1	08/26/2024 14:03	R352458
Depth to water from measuring point	*	0		13.85	ft	1	08/26/2024 14:03	R352458
Elevation of groundwater surface	*	0		422.43	ft	1	08/26/2024 14:03	R352458
Measuring Point Elevation	*	0		436.28	ft	1	08/26/2024 14:03	R352458
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		13	NTU	1	08/26/2024 14:03	R352458
STANDARD METHODS 18TH ED. 2580 B FIELD								
Oxidation-Reduction Potential	*	-300		-161	mV	1	08/26/2024 14:03	R352458
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		17.0	°C	1	08/26/2024 14:03	R352458
STANDARD METHODS 4500-O G FIELD								
Oxygen, Dissolved	*	0		0.57	mg/L	1	08/26/2024 14:03	R352458
SW-846 9040B								
pH, Field	*	1.00		7.24	S.U.	1	08/26/2024 14:03	R352458
SW-846 9050A								
Spec. Conductance, Field	*	1.00		1150	µmhos/cm@25C	1	08/26/2024 14:03	R352458
STANDARD METHODS 2540 C (DISSOLVED) 1997, 2011								
Total Dissolved Solids	NELAP	50		685	mg/L	2.5	08/30/2024 9:31	R352631
STANDARD METHODS 4500-NO3 F (DISSOLVED) 2000, 2011								
Nitrogen, Nitrate (as N)	NELAP	0.050	J	0.046	mg/L	1	08/27/2024 11:03	R352365
SW-846 9012A (TOTAL)								
Cyanide	NELAP	0.005		< 0.005	mg/L	1	08/29/2024 12:29	227742
SW846 9056A DISSOLVED ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	*	0.50	J	0.04	mg/L	10	08/27/2024 8:31	R352311
Chloride	*	5.00		17.1	mg/L	10	08/27/2024 8:31	R352311
Sulfate	*	10.0		45.8	mg/L	10	08/27/2024 8:31	R352311
SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)								
Barium	NELAP	0.0025		0.145	mg/L	1	08/30/2024 15:18	227702
Beryllium	NELAP	0.0005		< 0.0005	mg/L	1	08/30/2024 15:18	227702
Boron	NELAP	0.0200	X	13.8	mg/L	1	08/30/2024 15:18	227702
Cadmium	NELAP	0.0020		< 0.0020	mg/L	1	08/30/2024 15:18	227702
Chromium	NELAP	0.0050		< 0.0050	mg/L	1	08/30/2024 15:18	227702
Cobalt	NELAP	0.0050		< 0.0050	mg/L	1	08/30/2024 15:18	227702
Copper	NELAP	0.0050		< 0.0050	mg/L	1	08/30/2024 15:18	227702
Iron	NELAP	0.0400		4.92	mg/L	1	09/03/2024 11:58	227702
Manganese	NELAP	0.0070	X	1.55	mg/L	1	08/30/2024 15:18	227702
Nickel	NELAP	0.0050		< 0.0050	mg/L	1	09/03/2024 11:58	227702
Selenium	NELAP	0.0400		< 0.0400	mg/L	1	08/30/2024 15:18	227702
Silver	NELAP	0.0070	J	0.0042	mg/L	1	08/30/2024 15:18	227702
Vanadium	NELAP	0.0100		< 0.0100	mg/L	1	08/30/2024 15:18	227702
Zinc	NELAP	0.0100		< 0.0100	mg/L	1	08/30/2024 15:18	227702
<i>CCV recovered outside the upper control limits. Sample results are below the reporting limit. Data is reportable per the TNI standard.</i>								
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		0.161	mg/L	1	08/29/2024 16:39	227662



Laboratory Results

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24080263

Client Project: Meredosia GW Monitoring Q3 2024

Report Date: 09-Sep-24

Lab ID: 24080263-003

Client Sample ID: APW-3

Matrix: GROUNDWATER

Collection Date: 08/26/2024 14:03

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Beryllium	NELAP	0.0005		< 0.0005	mg/L	1	08/29/2024 16:39	227662
Boron	NELAP	0.0200		14.3	mg/L	1	08/29/2024 16:39	227662
Cadmium	NELAP	0.0020		< 0.0020	mg/L	1	08/29/2024 16:39	227662
Chromium	NELAP	0.0050		< 0.0050	mg/L	1	08/29/2024 16:39	227662
Cobalt	NELAP	0.0050	J	0.0025	mg/L	1	08/29/2024 16:39	227662
Copper	NELAP	0.0050		0.0053	mg/L	1	08/29/2024 16:39	227662
Iron	NELAP	0.0400		7.02	mg/L	1	08/29/2024 16:39	227662
Manganese	NELAP	0.0070		1.64	mg/L	1	08/29/2024 16:39	227662
Nickel	NELAP	0.0050		< 0.0050	mg/L	1	08/29/2024 16:39	227662
Selenium	NELAP	0.0400		< 0.0400	mg/L	1	08/29/2024 16:39	227662
Silver	NELAP	0.0070	J	0.0031	mg/L	1	08/29/2024 16:39	227662
Vanadium	NELAP	0.0100		< 0.0100	mg/L	1	08/29/2024 16:39	227662
Zinc	NELAP	0.0100		< 0.0100	mg/L	1	08/29/2024 16:39	227662
SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)								
Antimony	NELAP	0.0010	J	0.0005	mg/L	5	09/06/2024 10:15	227702
Arsenic	NELAP	0.0010	X	0.211	mg/L	5	08/28/2024 9:07	227702
Lead	NELAP	0.0010		< 0.0010	mg/L	5	08/28/2024 9:07	227702
Thallium	NELAP	0.0020		< 0.0020	mg/L	5	08/28/2024 9:07	227702
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010	J	0.0007	mg/L	5	08/29/2024 12:05	227662
Arsenic	NELAP	0.0010		0.344	mg/L	5	08/29/2024 12:05	227662
Lead	NELAP	0.0010		0.0011	mg/L	5	08/29/2024 12:05	227662
Thallium	NELAP	0.0020		< 0.0020	mg/L	5	08/29/2024 12:05	227662
SW-846 7470A (DISSOLVED)								
Mercury	NELAP	0.00020		< 0.00020	mg/L	1	08/29/2024 8:45	227737
<i>LCS recovered outside upper control limits. Sample results are below the reporting limit. Data is reportable per the TNI Standard.</i>								
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		< 0.00020	mg/L	1	08/29/2024 8:38	227737
<i>LCS recovered outside upper control limits. Sample results are below the reporting limit. Data is reportable per the TNI Standard.</i>								



Laboratory Results

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24080263

Client Project: Meredosia GW Monitoring Q3 2024

Report Date: 09-Sep-24

Lab ID: 24080263-004

Client Sample ID: APW-4

Matrix: GROUNDWATER

Collection Date: 08/26/2024 12:39

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		411.96	ft	1	08/26/2024 12:39	R352458
Depth to water	*	-5.00		7.56	ft	1	08/26/2024 12:39	R352458
Depth to water from measuring point	*	0		10.52	ft	1	08/26/2024 12:39	R352458
Elevation of groundwater surface	*	0		424.34	ft	1	08/26/2024 12:39	R352458
Measuring Point Elevation	*	0		434.86	ft	1	08/26/2024 12:39	R352458
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		12	NTU	1	08/26/2024 12:39	R352458
STANDARD METHODS 18TH ED. 2580 B FIELD								
Oxidation-Reduction Potential	*	-300		-46	mV	1	08/26/2024 12:39	R352458
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		18.4	°C	1	08/26/2024 12:39	R352458
STANDARD METHODS 4500-O G FIELD								
Oxygen, Dissolved	*	0		0.74	mg/L	1	08/26/2024 12:39	R352458
SW-846 9040B								
pH, Field	*	1.00		6.72	S.U.	1	08/26/2024 12:39	R352458
SW-846 9050A								
Spec. Conductance, Field	*	1.00		750	µmhos/cm@25C	1	08/26/2024 12:39	R352458
STANDARD METHODS 2540 C (DISSOLVED) 1997, 2011								
Total Dissolved Solids	NELAP	50		425	mg/L	2.5	08/30/2024 9:32	R352631
STANDARD METHODS 4500-NO3 F (DISSOLVED) 2000, 2011								
Nitrogen, Nitrate (as N)	NELAP	0.050		0.134	mg/L	1	08/27/2024 11:05	R352365
SW-846 9012A (TOTAL)								
Cyanide	NELAP	0.005		< 0.005	mg/L	1	08/29/2024 12:34	227742
SW846 9056A DISSOLVED ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	*	0.50	J	0.24	mg/L	10	08/27/2024 8:43	R352311
Chloride	*	5.00		23.1	mg/L	10	08/27/2024 8:43	R352311
Sulfate	*	10.0		27.6	mg/L	10	08/27/2024 8:43	R352311
SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)								
Barium	NELAP	0.0025		0.0602	mg/L	1	08/30/2024 15:18	227702
Beryllium	NELAP	0.0005		< 0.0005	mg/L	1	08/30/2024 15:18	227702
Boron	NELAP	0.0200		0.966	mg/L	1	08/30/2024 15:18	227702
Cadmium	NELAP	0.0020		< 0.0020	mg/L	1	08/30/2024 15:18	227702
Chromium	NELAP	0.0050		< 0.0050	mg/L	1	08/30/2024 15:18	227702
Cobalt	NELAP	0.0050	J	0.0031	mg/L	1	08/30/2024 15:18	227702
Copper	NELAP	0.0050		< 0.0050	mg/L	1	08/30/2024 15:18	227702
Iron	NELAP	0.0400		2.63	mg/L	1	09/03/2024 11:58	227702
Manganese	NELAP	0.0070	X	1.80	mg/L	1	08/30/2024 15:18	227702
Nickel	NELAP	0.0050		< 0.0050	mg/L	1	09/03/2024 11:58	227702
Selenium	NELAP	0.0400		< 0.0400	mg/L	1	08/30/2024 15:18	227702
Silver	NELAP	0.0070		< 0.0070	mg/L	1	08/30/2024 15:18	227702
Vanadium	NELAP	0.0100		< 0.0100	mg/L	1	08/30/2024 15:18	227702
Zinc	NELAP	0.0100		< 0.0100	mg/L	1	08/30/2024 15:18	227702
CCV recovered outside the upper control limits. Sample results are below the reporting limit. Data is reportable per the TNI standard.								
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		0.0901	mg/L	1	08/30/2024 16:07	227662



Laboratory Results

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24080263

Client Project: Meredosia GW Monitoring Q3 2024

Report Date: 09-Sep-24

Lab ID: 24080263-004

Client Sample ID: APW-4

Matrix: GROUNDWATER

Collection Date: 08/26/2024 12:39

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Beryllium	NELAP	0.0005		< 0.0005	mg/L	1	08/30/2024 16:07	227662
Boron	NELAP	0.0200		1.06	mg/L	1	08/30/2024 16:07	227662
Cadmium	NELAP	0.0020		< 0.0020	mg/L	1	08/30/2024 16:07	227662
Chromium	NELAP	0.0050		< 0.0050	mg/L	1	08/30/2024 16:07	227662
Cobalt	NELAP	0.0050		< 0.0050	mg/L	1	08/30/2024 16:07	227662
Copper	NELAP	0.0050	J	0.0032	mg/L	1	08/30/2024 16:07	227662
Iron	NELAP	0.0400		7.91	mg/L	1	09/03/2024 16:29	227662
Manganese	NELAP	0.0070		2.02	mg/L	1	08/30/2024 16:07	227662
Nickel	NELAP	0.0050		< 0.0050	mg/L	1	09/03/2024 16:29	227662
Selenium	NELAP	0.0400		< 0.0400	mg/L	1	08/30/2024 16:07	227662
Silver	NELAP	0.0070		< 0.0070	mg/L	1	08/30/2024 16:07	227662
Vanadium	NELAP	0.0100		< 0.0100	mg/L	1	08/30/2024 16:07	227662
Zinc	NELAP	0.0100		< 0.0100	mg/L	1	08/30/2024 16:07	227662

CCV recovered outside the upper control limits. Sample results are below the reporting limit. Data is reportable per the TNI standard.

SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)								
Antimony	NELAP	0.0010		0.0011	mg/L	5	08/28/2024 9:12	227702
Arsenic	NELAP	0.0010		0.0020	mg/L	5	08/28/2024 9:12	227702
Lead	NELAP	0.0010		< 0.0010	mg/L	5	08/28/2024 9:12	227702
Thallium	NELAP	0.0020		< 0.0020	mg/L	5	08/28/2024 9:12	227702

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		0.0089	mg/L	5	08/29/2024 12:54	227662
Arsenic	NELAP	0.0010		0.0059	mg/L	5	08/29/2024 12:54	227662
Lead	NELAP	0.0010		< 0.0010	mg/L	5	08/29/2024 12:54	227662
Thallium	NELAP	0.0020		< 0.0020	mg/L	5	08/29/2024 12:54	227662

CCV recovered outside the upper control limits for TI. Sample results are below the reporting limit. Data is reportable per the TNI standard.

SW-846 7470A (DISSOLVED)								
Mercury	NELAP	0.00020		< 0.00020	mg/L	1	08/29/2024 8:54	227737

LCS recovered outside upper control limits. Sample results are below the reporting limit. Data is reportable per the TNI Standard.

SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		< 0.00020	mg/L	1	08/29/2024 8:51	227737

LCS recovered outside upper control limits. Sample results are below the reporting limit. Data is reportable per the TNI Standard.



Laboratory Results

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24080263

Client Project: Meredosia GW Monitoring Q3 2024

Report Date: 09-Sep-24

Lab ID: 24080263-005

Client Sample ID: APW-5

Matrix: GROUNDWATER

Collection Date: 08/27/2024 13:01

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		420.28	ft	1	08/27/2024 13:01	R352458
Depth to water	*	-5.00		22.42	ft	1	08/27/2024 13:01	R352458
Depth to water from measuring point	*	0		25.14	ft	1	08/27/2024 13:01	R352458
Elevation of groundwater surface	*	0		428.06	ft	1	08/27/2024 13:01	R352458
Measuring Point Elevation	*	0		453.20	ft	1	08/27/2024 13:01	R352458
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		37	NTU	1	08/27/2024 13:01	R352458
STANDARD METHODS 18TH ED. 2580 B FIELD								
Oxidation-Reduction Potential	*	-300		143	mV	1	08/27/2024 13:01	R352458
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		17.7	°C	1	08/27/2024 13:01	R352458
STANDARD METHODS 4500-O G FIELD								
Oxygen, Dissolved	*	0		5.99	mg/L	1	08/27/2024 13:01	R352458
SW-846 9040B								
pH, Field	*	1.00		7.31	S.U.	1	08/27/2024 13:01	R352458
SW-846 9050A								
Spec. Conductance, Field	*	1.00		432	µmhos/cm@25C	1	08/27/2024 13:01	R352458
STANDARD METHODS 2540 C (DISSOLVED) 1997, 2011								
Total Dissolved Solids	NELAP	20		248	mg/L	1	08/30/2024 9:32	R352631
STANDARD METHODS 4500-NO3 F (DISSOLVED) 2000, 2011								
Nitrogen, Nitrate (as N)	NELAP	0.250		2.82	mg/L	1	08/28/2024 14:02	R352453
SW-846 9012A (TOTAL)								
Cyanide	NELAP	0.005		< 0.005	mg/L	1	08/29/2024 12:38	227742
SW846 9056A DISSOLVED ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	*	0.50	J	0.05	mg/L	10	08/28/2024 10:58	R352382
Chloride	*	5.00		6.49	mg/L	10	08/28/2024 10:58	R352382
Sulfate	*	10.0		18.9	mg/L	10	08/28/2024 10:58	R352382
SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)								
Barium	NELAP	0.0025		0.0083	mg/L	1	08/30/2024 15:19	227702
Beryllium	NELAP	0.0005		< 0.0005	mg/L	1	08/30/2024 15:19	227702
Boron	NELAP	0.0200		0.0928	mg/L	1	08/30/2024 15:19	227702
Cadmium	NELAP	0.0020		< 0.0020	mg/L	1	08/30/2024 15:19	227702
Chromium	NELAP	0.0050		< 0.0050	mg/L	1	08/30/2024 15:19	227702
Cobalt	NELAP	0.0050		< 0.0050	mg/L	1	08/30/2024 15:19	227702
Copper	NELAP	0.0050		< 0.0050	mg/L	1	08/30/2024 15:19	227702
Iron	NELAP	0.0400		< 0.0400	mg/L	1	08/30/2024 15:19	227702
Manganese	NELAP	0.0070		0.0098	mg/L	1	08/30/2024 15:19	227702
Nickel	NELAP	0.0050		< 0.0050	mg/L	1	09/03/2024 12:44	227702
Selenium	NELAP	0.0400		< 0.0400	mg/L	1	08/30/2024 15:19	227702
Silver	NELAP	0.0070		< 0.0070	mg/L	1	08/30/2024 15:19	227702
Vanadium	NELAP	0.0100		< 0.0100	mg/L	1	08/30/2024 15:19	227702
Zinc	NELAP	0.0100		< 0.0100	mg/L	1	08/30/2024 15:19	227702
CCV recovered outside the upper control limits. Sample results are below the reporting limit. Data is reportable per the TNI standard.								
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		0.0151	mg/L	1	08/30/2024 13:53	227783



Laboratory Results

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24080263

Client Project: Meredosia GW Monitoring Q3 2024

Report Date: 09-Sep-24

Lab ID: 24080263-005

Client Sample ID: APW-5

Matrix: GROUNDWATER

Collection Date: 08/27/2024 13:01

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Beryllium	NELAP	0.0005		< 0.0005	mg/L	1	09/03/2024 16:21	227783
Boron	NELAP	0.0200		0.0962	mg/L	1	08/30/2024 13:53	227783
Cadmium	NELAP	0.0020		< 0.0020	mg/L	1	09/03/2024 16:21	227783
Chromium	NELAP	0.0050	J	0.0033	mg/L	1	08/30/2024 13:53	227783
Cobalt	NELAP	0.0050		0.0074	mg/L	1	08/30/2024 13:53	227783
Copper	NELAP	0.0050	J	0.0045	mg/L	1	08/30/2024 13:53	227783
Iron	NELAP	0.0400		2.19	mg/L	1	08/30/2024 13:53	227783
Manganese	NELAP	0.0070		0.255	mg/L	1	08/30/2024 13:53	227783
Nickel	NELAP	0.0050		0.0057	mg/L	1	09/03/2024 16:21	227783
Selenium	NELAP	0.0400		< 0.0400	mg/L	1	08/30/2024 13:53	227783
Silver	NELAP	0.0070		< 0.0070	mg/L	1	08/30/2024 13:53	227783
Vanadium	NELAP	0.010	J	0.0042	mg/L	1	08/30/2024 13:53	227783
Zinc	NELAP	0.010	J	0.0084	mg/L	1	08/30/2024 13:53	227783
SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)								
Antimony	NELAP	0.0010	J	0.0009	mg/L	5	08/28/2024 9:17	227702
Arsenic	NELAP	0.0010		< 0.0010	mg/L	5	08/28/2024 9:17	227702
Lead	NELAP	0.0010		< 0.0010	mg/L	5	08/28/2024 9:17	227702
Thallium	NELAP	0.0020		< 0.0020	mg/L	5	08/28/2024 9:17	227702
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010	J	0.0009	mg/L	5	09/05/2024 9:23	227783
Arsenic	NELAP	0.0010		0.0020	mg/L	5	08/30/2024 17:00	227783
Lead	NELAP	0.0010		0.0022	mg/L	5	09/03/2024 15:36	227783
Thallium	NELAP	0.0020		< 0.0020	mg/L	5	09/03/2024 15:36	227783
SW-846 7470A (DISSOLVED)								
Mercury	NELAP	0.00020		< 0.00020	mg/L	1	08/29/2024 8:58	227737
<i>LCS recovered outside upper control limits. Sample results are below the reporting limit. Data is reportable per the TNI Standard.</i>								
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		< 0.00020	mg/L	1	08/29/2024 8:56	227737
<i>LCS recovered outside upper control limits. Sample results are below the reporting limit. Data is reportable per the TNI Standard.</i>								



Laboratory Results

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24080263

Client Project: Meredosia GW Monitoring Q3 2024

Report Date: 09-Sep-24

Lab ID: 24080263-006

Client Sample ID: APW-6

Matrix: GROUNDWATER

Collection Date: 08/26/2024 11:12

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		421.04	ft	1	08/26/2024 11:12	R352458
Depth to water	*	-5.00		20.63	ft	1	08/26/2024 11:12	R352458
Depth to water from measuring point	*	0		23.93	ft	1	08/26/2024 11:12	R352458
Elevation of groundwater surface	*	0		427.97	ft	1	08/26/2024 11:12	R352458
Measuring Point Elevation	*	0		451.90	ft	1	08/26/2024 11:12	R352458
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		4.1	NTU	1	08/26/2024 11:12	R352458
STANDARD METHODS 18TH ED. 2580 B FIELD								
Oxidation-Reduction Potential	*	-300		136	mV	1	08/26/2024 11:12	R352458
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		16.7	°C	1	08/26/2024 11:12	R352458
STANDARD METHODS 4500-O G FIELD								
Oxygen, Dissolved	*	0		8.25	mg/L	1	08/26/2024 11:12	R352458
SW-846 9040B								
pH, Field	*	1.00		7.06	S.U.	1	08/26/2024 11:12	R352458
SW-846 9050A								
Spec. Conductance, Field	*	1.00		487	µmhos/cm@25C	1	08/26/2024 11:12	R352458
STANDARD METHODS 2540 C (DISSOLVED) 1997, 2011								
Total Dissolved Solids	NELAP	20		308	mg/L	1	08/30/2024 9:32	R352631
STANDARD METHODS 4500-NO3 F (DISSOLVED) 2000, 2011								
Nitrogen, Nitrate (as N)	NELAP	0.050		0.096	mg/L	1	08/27/2024 11:07	R352365
SW-846 9012A (TOTAL)								
Cyanide	NELAP	0.005		< 0.005	mg/L	1	08/29/2024 12:42	227742
SW846 9056A DISSOLVED ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	*	0.50		ND	mg/L	10	08/27/2024 8:54	R352311
Chloride	*	5.0	J	1.9	mg/L	10	08/27/2024 8:54	R352311
Sulfate	*	10.0		22.8	mg/L	10	08/27/2024 8:54	R352311
SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)								
Barium	NELAP	0.0025		0.0114	mg/L	1	08/30/2024 15:20	227702
Beryllium	NELAP	0.0005		< 0.0005	mg/L	1	08/30/2024 15:20	227702
Boron	NELAP	0.0200		0.853	mg/L	1	08/30/2024 15:20	227702
Cadmium	NELAP	0.0020		< 0.0020	mg/L	1	08/30/2024 15:20	227702
Chromium	NELAP	0.0050		< 0.0050	mg/L	1	08/30/2024 15:20	227702
Cobalt	NELAP	0.0050		< 0.0050	mg/L	1	08/30/2024 15:20	227702
Copper	NELAP	0.0050		< 0.0050	mg/L	1	08/30/2024 15:20	227702
Iron	NELAP	0.0400		< 0.0400	mg/L	1	08/30/2024 15:20	227702
Manganese	NELAP	0.0070		< 0.0070	mg/L	1	08/30/2024 15:20	227702
Nickel	NELAP	0.0050		< 0.0050	mg/L	1	09/03/2024 12:45	227702
Selenium	NELAP	0.0400		0.0428	mg/L	1	08/30/2024 15:20	227702
Silver	NELAP	0.0070		< 0.0070	mg/L	1	08/30/2024 15:20	227702
Vanadium	NELAP	0.0100		< 0.0100	mg/L	1	08/30/2024 15:20	227702
Zinc	NELAP	0.0100		< 0.0100	mg/L	1	08/30/2024 15:20	227702
CCV recovered outside the upper control limits. Sample results are below the reporting limit. Data is reportable per the TNI standard.								
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		0.0185	mg/L	1	08/30/2024 16:08	227662



Laboratory Results

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24080263

Client Project: Meredosia GW Monitoring Q3 2024

Report Date: 09-Sep-24

Lab ID: 24080263-006

Client Sample ID: APW-6

Matrix: GROUNDWATER

Collection Date: 08/26/2024 11:12

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Beryllium	NELAP	0.0005		< 0.0005	mg/L	1	08/30/2024 16:08	227662
Boron	NELAP	0.0200		0.938	mg/L	1	08/30/2024 16:08	227662
Cadmium	NELAP	0.0020		< 0.0020	mg/L	1	08/30/2024 16:08	227662
Chromium	NELAP	0.0050		< 0.0050	mg/L	1	08/30/2024 16:08	227662
Cobalt	NELAP	0.0050	J	0.0045	mg/L	1	08/30/2024 16:08	227662
Copper	NELAP	0.0050	J	0.0043	mg/L	1	08/30/2024 16:08	227662
Iron	NELAP	0.0400		1.94	mg/L	1	08/30/2024 16:08	227662
Manganese	NELAP	0.0070		0.107	mg/L	1	08/30/2024 16:08	227662
Nickel	NELAP	0.0050		< 0.0050	mg/L	1	09/03/2024 16:30	227662
Selenium	NELAP	0.040	J	0.040	mg/L	1	08/30/2024 16:08	227662
Silver	NELAP	0.0070		< 0.0070	mg/L	1	08/30/2024 16:08	227662
Vanadium	NELAP	0.010	J	0.0036	mg/L	1	08/30/2024 16:08	227662
Zinc	NELAP	0.010	J	0.0081	mg/L	1	08/30/2024 16:08	227662

CCV recovered outside the upper control limits. Sample results are below the reporting limit. Data is reportable per the TNI standard.

SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)								
Antimony	NELAP	0.0010	J	0.0007	mg/L	5	08/28/2024 9:22	227702
Arsenic	NELAP	0.0010	J	0.0005	mg/L	5	08/28/2024 9:22	227702
Lead	NELAP	0.0010		< 0.0010	mg/L	5	08/28/2024 9:22	227702
Thallium	NELAP	0.0020		< 0.0020	mg/L	5	08/28/2024 9:22	227702

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		0.0031	mg/L	5	08/29/2024 13:00	227662
Arsenic	NELAP	0.0010		0.0021	mg/L	5	08/29/2024 13:00	227662
Lead	NELAP	0.0010		0.0026	mg/L	5	08/29/2024 13:00	227662
Thallium	NELAP	0.0020		< 0.0020	mg/L	5	08/29/2024 13:00	227662

CCV recovered outside the upper control limits for TI. Sample results are below the reporting limit. Data is reportable per the TNI standard.

SW-846 7470A (DISSOLVED)								
Mercury	NELAP	0.00020		< 0.00020	mg/L	1	08/29/2024 9:03	227737

LCS recovered outside upper control limits. Sample results are below the reporting limit. Data is reportable per the TNI Standard.

SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		< 0.00020	mg/L	1	08/29/2024 9:00	227737

LCS recovered outside upper control limits. Sample results are below the reporting limit. Data is reportable per the TNI Standard.



Laboratory Results

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24080263

Client Project: Meredosia GW Monitoring Q3 2024

Report Date: 09-Sep-24

Lab ID: 24080263-007

Client Sample ID: APW-7

Matrix: GROUNDWATER

Collection Date: 08/26/2024 11:51

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		418.59	ft	1	08/26/2024 11:51	R352458
Depth to water	*	-5.00		8.74	ft	1	08/26/2024 11:51	R352458
Depth to water from measuring point	*	0		12.44	ft	1	08/26/2024 11:51	R352458
Elevation of groundwater surface	*	0		426.26	ft	1	08/26/2024 11:51	R352458
Measuring Point Elevation	*	0		438.70	ft	1	08/26/2024 11:51	R352458
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		7.8	NTU	1	08/26/2024 11:51	R352458
STANDARD METHODS 18TH ED. 2580 B FIELD								
Oxidation-Reduction Potential	*	-300		140	mV	1	08/26/2024 11:51	R352458
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		20.8	°C	1	08/26/2024 11:51	R352458
STANDARD METHODS 4500-O G FIELD								
Oxygen, Dissolved	*	0		3.38	mg/L	1	08/26/2024 11:51	R352458
SW-846 9040B								
pH, Field	*	1.00		6.82	S.U.	1	08/26/2024 11:51	R352458
SW-846 9050A								
Spec. Conductance, Field	*	1.00		618	µmhos/cm@25C	1	08/26/2024 11:51	R352458
STANDARD METHODS 2540 C (DISSOLVED) 1997, 2011								
Total Dissolved Solids	NELAP	20		384	mg/L	1	08/30/2024 9:40	R352631
STANDARD METHODS 4500-NO3 F (DISSOLVED) 2000, 2011								
Nitrogen, Nitrate (as N)	NELAP	0.250		1.96	mg/L	1	08/27/2024 11:09	R352365
SW-846 9012A (TOTAL)								
Cyanide	NELAP	0.005		< 0.005	mg/L	1	08/29/2024 12:47	227742
SW846 9056A DISSOLVED ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	*	0.50	J	0.18	mg/L	10	08/27/2024 9:29	R352311
Chloride	*	5.00		35.8	mg/L	10	08/27/2024 9:29	R352311
Sulfate	*	10.0		25.3	mg/L	10	08/27/2024 9:29	R352311
SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)								
Barium	NELAP	0.0025		0.0315	mg/L	1	08/30/2024 15:21	227702
Beryllium	NELAP	0.0005		< 0.0005	mg/L	1	08/30/2024 15:21	227702
Boron	NELAP	0.0200		0.135	mg/L	1	08/30/2024 15:21	227702
Cadmium	NELAP	0.0020		< 0.0020	mg/L	1	08/30/2024 15:21	227702
Chromium	NELAP	0.0050		< 0.0050	mg/L	1	08/30/2024 15:21	227702
Cobalt	NELAP	0.0050		< 0.0050	mg/L	1	08/30/2024 15:21	227702
Copper	NELAP	0.0050		< 0.0050	mg/L	1	08/30/2024 15:21	227702
Iron	NELAP	0.0400		< 0.0400	mg/L	1	08/30/2024 15:21	227702
Manganese	NELAP	0.0070		< 0.0070	mg/L	1	08/30/2024 15:21	227702
Nickel	NELAP	0.0050		< 0.0050	mg/L	1	09/03/2024 12:46	227702
Selenium	NELAP	0.0400		< 0.0400	mg/L	1	08/30/2024 15:21	227702
Silver	NELAP	0.0070		< 0.0070	mg/L	1	08/30/2024 15:21	227702
Vanadium	NELAP	0.0100		< 0.0100	mg/L	1	08/30/2024 15:21	227702
Zinc	NELAP	0.0100		< 0.0100	mg/L	1	08/30/2024 15:21	227702
<i>CCV recovered outside the upper control limits. Sample results are below the reporting limit. Data is reportable per the TNI standard.</i>								
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		0.0352	mg/L	1	08/30/2024 16:09	227662



Laboratory Results

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24080263

Client Project: Meredosia GW Monitoring Q3 2024

Report Date: 09-Sep-24

Lab ID: 24080263-007

Client Sample ID: APW-7

Matrix: GROUNDWATER

Collection Date: 08/26/2024 11:51

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Beryllium	NELAP	0.0005		< 0.0005	mg/L	1	08/30/2024 16:09	227662
Boron	NELAP	0.0200		0.147	mg/L	1	08/30/2024 16:09	227662
Cadmium	NELAP	0.0020		< 0.0020	mg/L	1	08/30/2024 16:09	227662
Chromium	NELAP	0.0050		< 0.0050	mg/L	1	08/30/2024 16:09	227662
Cobalt	NELAP	0.0050		< 0.0050	mg/L	1	08/30/2024 16:09	227662
Copper	NELAP	0.0050		< 0.0050	mg/L	1	08/30/2024 16:09	227662
Iron	NELAP	0.0400		0.0589	mg/L	1	08/30/2024 16:09	227662
Manganese	NELAP	0.0070		0.0079	mg/L	1	08/30/2024 16:09	227662
Nickel	NELAP	0.0050		< 0.0050	mg/L	1	09/03/2024 16:31	227662
Selenium	NELAP	0.0400		< 0.0400	mg/L	1	08/30/2024 16:09	227662
Silver	NELAP	0.0070		< 0.0070	mg/L	1	08/30/2024 16:09	227662
Vanadium	NELAP	0.0100		< 0.0100	mg/L	1	08/30/2024 16:09	227662
Zinc	NELAP	0.0100		< 0.0100	mg/L	1	08/30/2024 16:09	227662

CCV recovered outside the upper control limits. Sample results are below the reporting limit. Data is reportable per the TNI standard.

SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)								
Antimony	NELAP	0.0010		0.0012	mg/L	5	08/28/2024 9:54	227702
Arsenic	NELAP	0.0010		< 0.0010	mg/L	5	08/28/2024 9:54	227702
Lead	NELAP	0.0010		< 0.0010	mg/L	5	08/28/2024 9:54	227702
Thallium	NELAP	0.0020		< 0.0020	mg/L	5	08/28/2024 9:54	227702

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		0.0014	mg/L	5	08/29/2024 13:05	227662
Arsenic	NELAP	0.0010	J	0.0004	mg/L	5	08/29/2024 13:05	227662
Lead	NELAP	0.0010		< 0.0010	mg/L	5	08/29/2024 13:05	227662
Thallium	NELAP	0.0020		< 0.0020	mg/L	5	08/29/2024 13:05	227662

CCV recovered outside the upper control limits for TI. Sample results are below the reporting limit. Data is reportable per the TNI standard.

SW-846 7470A (DISSOLVED)								
Mercury	NELAP	0.00020		< 0.00020	mg/L	1	08/29/2024 9:07	227737

LCS recovered outside upper control limits. Sample results are below the reporting limit. Data is reportable per the TNI Standard.

SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		< 0.00020	mg/L	1	08/29/2024 9:05	227737

LCS recovered outside upper control limits. Sample results are below the reporting limit. Data is reportable per the TNI Standard.



Laboratory Results

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24080263

Client Project: Meredosia GW Monitoring Q3 2024

Report Date: 09-Sep-24

Lab ID: 24080263-008

Client Sample ID: APW-8

Matrix: GROUNDWATER

Collection Date: 08/28/2024 11:21

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		420.92	ft	1	08/28/2024 11:21	R352458
Depth to water	*	-5.00		34.45	ft	1	08/28/2024 11:21	R352458
Depth to water from measuring point	*	0		37.82	ft	1	08/28/2024 11:21	R352458
Elevation of groundwater surface	*	0		426.05	ft	1	08/28/2024 11:21	R352458
Measuring Point Elevation	*	0		463.90	ft	1	08/28/2024 11:21	R352458
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		430	NTU	1	08/28/2024 11:21	R352458
STANDARD METHODS 18TH ED. 2580 B FIELD								
Oxidation-Reduction Potential	*	-300		144	mV	1	08/28/2024 11:21	R352458
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		16.9	°C	1	08/28/2024 11:21	R352458
STANDARD METHODS 4500-O G FIELD								
Oxygen, Dissolved	*	0		8.28	mg/L	1	08/28/2024 11:21	R352458
SW-846 9040B								
pH, Field	*	1.00		7.21	S.U.	1	08/28/2024 11:21	R352458
SW-846 9050A								
Spec. Conductance, Field	*	1.00		650	µmhos/cm@25C	1	08/28/2024 11:21	R352458
STANDARD METHODS 2540 C (DISSOLVED) 1997, 2011								
Total Dissolved Solids	NELAP	20		496	mg/L	1	08/30/2024 9:40	R352631
STANDARD METHODS 4500-NO3 F (DISSOLVED) 2000, 2011								
Nitrogen, Nitrate (as N)	NELAP	0.250		2.78	mg/L	1	08/28/2024 15:59	R352453
SW-846 9012A (TOTAL)								
Cyanide	NELAP	0.005	B	< 0.005	mg/L	1	08/30/2024 14:20	227805
<i>LCS recovered outside upper control limits. Sample results are below the reporting limit. Data is reportable per the TNI Standard.</i>								
<i>Contamination present in the MBLK. Sample results below the reporting limit are reportable per the TNI Standard.</i>								
SW846 9056A DISSOLVED ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	*	0.50		ND	mg/L	10	08/29/2024 9:56	R352440
Chloride	*	5.00		7.48	mg/L	10	08/29/2024 9:56	R352440
Sulfate	*	10.0		185	mg/L	10	08/29/2024 9:56	R352440
SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)								
Barium	NELAP	0.0025		0.0560	mg/L	1	08/30/2024 15:04	227786
Beryllium	NELAP	0.0005		< 0.0005	mg/L	1	08/30/2024 15:04	227786
Boron	NELAP	0.0200	X	4.25	mg/L	1	08/30/2024 15:04	227786
Cadmium	NELAP	0.0020		< 0.0020	mg/L	1	08/30/2024 15:04	227786
Chromium	NELAP	0.0050	J	0.0048	mg/L	1	08/30/2024 15:04	227786
Cobalt	NELAP	0.0050		< 0.0050	mg/L	1	08/30/2024 15:04	227786
Copper	NELAP	0.0050	J	0.0034	mg/L	1	08/30/2024 15:04	227786
Iron	NELAP	0.0400		< 0.0400	mg/L	1	08/30/2024 15:04	227786
Manganese	NELAP	0.0070		< 0.0070	mg/L	1	08/30/2024 15:04	227786
Nickel	NELAP	0.0050		< 0.0050	mg/L	1	08/30/2024 15:04	227786
Selenium	NELAP	0.040	J	0.023	mg/L	1	08/30/2024 15:04	227786
Silver	NELAP	0.0070		< 0.0070	mg/L	1	08/30/2024 15:04	227786
Vanadium	NELAP	0.0100		< 0.0100	mg/L	1	08/30/2024 15:04	227786
Zinc	NELAP	0.0100		< 0.0100	mg/L	1	08/30/2024 15:04	227786



Laboratory Results

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24080263

Client Project: Meredosia GW Monitoring Q3 2024

Report Date: 09-Sep-24

Lab ID: 24080263-008

Client Sample ID: APW-8

Matrix: GROUNDWATER

Collection Date: 08/28/2024 11:21

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		0.0967	mg/L	1	08/30/2024 16:54	227779
Beryllium	NELAP	0.0005	J	0.0003	mg/L	1	08/30/2024 16:54	227779
Boron	NELAP	0.0200		4.73	mg/L	1	08/30/2024 16:54	227779
Cadmium	NELAP	0.0020		< 0.0020	mg/L	1	08/30/2024 16:54	227779
Chromium	NELAP	0.0050		0.0164	mg/L	1	08/30/2024 16:54	227779
Cobalt	NELAP	0.0050		0.0107	mg/L	1	08/30/2024 16:54	227779
Copper	NELAP	0.0050		0.0197	mg/L	1	08/30/2024 16:54	227779
Iron	NELAP	0.0400		12.9	mg/L	1	08/30/2024 16:54	227779
Manganese	NELAP	0.0070		0.654	mg/L	1	08/30/2024 16:54	227779
Nickel	NELAP	0.0050		0.0198	mg/L	1	08/30/2024 16:54	227779
Selenium	NELAP	0.040	J	0.033	mg/L	1	08/30/2024 16:54	227779
Silver	NELAP	0.0070		< 0.0070	mg/L	1	08/30/2024 16:54	227779
Vanadium	NELAP	0.0100		0.0185	mg/L	1	08/30/2024 16:54	227779
Zinc	NELAP	0.0100		0.0312	mg/L	1	08/30/2024 16:54	227779
SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)								
Antimony	NELAP	0.0010		< 0.0010	mg/L	5	09/06/2024 10:29	227786
Arsenic	NELAP	0.0010		0.0013	mg/L	5	09/03/2024 19:41	227786
Lead	NELAP	0.0010		< 0.0010	mg/L	5	08/29/2024 19:42	227786
Thallium	NELAP	0.0020		< 0.0020	mg/L	5	08/29/2024 19:42	227786
<i>LCS recovered outside upper control limits. Sample results are below the reporting limit. Data is reportable per the TNI Standard.</i>								
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		0.0010	mg/L	5	09/05/2024 12:04	227779
Arsenic	NELAP	0.0010		0.0094	mg/L	5	09/03/2024 23:36	227779
Lead	NELAP	0.0010		0.0124	mg/L	5	09/03/2024 23:36	227779
Thallium	NELAP	0.0020		< 0.0020	mg/L	5	09/03/2024 23:36	227779
SW-846 7470A (DISSOLVED)								
Mercury	NELAP	0.00020		< 0.00020	mg/L	1	08/30/2024 14:36	227774
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		< 0.00020	mg/L	1	08/30/2024 14:34	227774



Laboratory Results

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24080263

Client Project: Meredosia GW Monitoring Q3 2024

Report Date: 09-Sep-24

Lab ID: 24080263-009

Client Sample ID: APW-9

Matrix: GROUNDWATER

Collection Date: 08/27/2024 13:46

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		415.60	ft	1	08/27/2024 13:46	R352458
Depth to water	*	-5.00		20.89	ft	1	08/27/2024 13:46	R352458
Depth to water from measuring point	*	0		23.99	ft	1	08/27/2024 13:46	R352458
Elevation of groundwater surface	*	0		424.11	ft	1	08/27/2024 13:46	R352458
Measuring Point Elevation	*	0		448.10	ft	1	08/27/2024 13:46	R352458
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		9.0	NTU	1	08/27/2024 13:46	R352458
STANDARD METHODS 18TH ED. 2580 B FIELD								
Oxidation-Reduction Potential	*	-300		166	mV	1	08/27/2024 13:46	R352458
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		17.1	°C	1	08/27/2024 13:46	R352458
STANDARD METHODS 4500-O G FIELD								
Oxygen, Dissolved	*	0		6.25	mg/L	1	08/27/2024 13:46	R352458
SW-846 9040B								
pH, Field	*	1.00		6.77	S.U.	1	08/27/2024 13:46	R352458
SW-846 9050A								
Spec. Conductance, Field	*	1.00		1060	µmhos/cm@25C	1	08/27/2024 13:46	R352458
STANDARD METHODS 2540 C (DISSOLVED) 1997, 2011								
Total Dissolved Solids	NELAP	20		926	mg/L	1	08/30/2024 9:40	R352631
STANDARD METHODS 4500-NO3 F (DISSOLVED) 2000, 2011								
Nitrogen, Nitrate (as N)	NELAP	0.250		3.64	mg/L	1	08/28/2024 14:04	R352453
SW-846 9012A (TOTAL)								
Cyanide	NELAP	0.005		< 0.005	mg/L	1	08/29/2024 12:51	227742
SW846 9056A DISSOLVED ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	*	0.50	J	0.32	mg/L	10	08/28/2024 11:09	R352382
Chloride	*	5.0	J	1.8	mg/L	10	08/28/2024 11:09	R352382
Sulfate	*	10.0		409	mg/L	10	08/28/2024 11:09	R352382
SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)								
Barium	NELAP	0.0025		0.0186	mg/L	1	08/30/2024 15:21	227702
Beryllium	NELAP	0.0005		< 0.0005	mg/L	1	08/30/2024 15:21	227702
Boron	NELAP	0.0200		1.01	mg/L	1	08/30/2024 15:21	227702
Cadmium	NELAP	0.0020		< 0.0020	mg/L	1	08/30/2024 15:21	227702
Chromium	NELAP	0.0050		< 0.0050	mg/L	1	08/30/2024 15:21	227702
Cobalt	NELAP	0.0050	J	0.0027	mg/L	1	09/03/2024 14:10	227702
Copper	NELAP	0.0050		< 0.0050	mg/L	1	08/30/2024 15:21	227702
Iron	NELAP	0.0400		< 0.0400	mg/L	1	08/30/2024 15:21	227702
Manganese	NELAP	0.0070		< 0.0070	mg/L	1	08/30/2024 15:21	227702
Nickel	NELAP	0.0050		< 0.0050	mg/L	1	09/03/2024 11:59	227702
Selenium	NELAP	0.0400		< 0.0400	mg/L	1	08/30/2024 15:21	227702
Silver	NELAP	0.0070		< 0.0070	mg/L	1	08/30/2024 15:21	227702
Vanadium	NELAP	0.010	J	0.0029	mg/L	1	08/30/2024 15:21	227702
Zinc	NELAP	0.0100		< 0.0100	mg/L	1	08/30/2024 15:21	227702
CCV recovered outside the upper control limits. Sample results are below the reporting limit. Data is reportable per the TNI standard.								
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		0.0225	mg/L	1	08/30/2024 13:53	227783



Laboratory Results

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24080263

Client Project: Meredosia GW Monitoring Q3 2024

Report Date: 09-Sep-24

Lab ID: 24080263-009

Client Sample ID: APW-9

Matrix: GROUNDWATER

Collection Date: 08/27/2024 13:46

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Beryllium	NELAP	0.0005		< 0.0005	mg/L	1	09/03/2024 16:22	227783
Boron	NELAP	0.0200		1.06	mg/L	1	08/30/2024 13:53	227783
Cadmium	NELAP	0.0020		< 0.0020	mg/L	1	09/03/2024 16:22	227783
Chromium	NELAP	0.0050		< 0.0050	mg/L	1	08/30/2024 13:53	227783
Cobalt	NELAP	0.0050	J	0.0049	mg/L	1	08/30/2024 13:53	227783
Copper	NELAP	0.0050		< 0.0050	mg/L	1	08/30/2024 13:53	227783
Iron	NELAP	0.0400		0.570	mg/L	1	08/30/2024 13:53	227783
Manganese	NELAP	0.0070		0.0573	mg/L	1	08/30/2024 13:53	227783
Nickel	NELAP	0.0050		< 0.0050	mg/L	1	09/03/2024 16:22	227783
Selenium	NELAP	0.0400		< 0.0400	mg/L	1	08/30/2024 13:53	227783
Silver	NELAP	0.0070		< 0.0070	mg/L	1	08/30/2024 13:53	227783
Vanadium	NELAP	0.010	J	0.0042	mg/L	1	08/30/2024 13:53	227783
Zinc	NELAP	0.0100		< 0.0100	mg/L	1	08/30/2024 13:53	227783
SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)								
Antimony	NELAP	0.0010		< 0.0010	mg/L	5	09/06/2024 10:20	227702
Arsenic	NELAP	0.0010		0.0011	mg/L	5	08/28/2024 9:59	227702
Lead	NELAP	0.0010		< 0.0010	mg/L	5	08/28/2024 9:59	227702
Thallium	NELAP	0.0020		< 0.0020	mg/L	5	08/28/2024 9:59	227702
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		0.0010	mg/L	5	09/05/2024 9:29	227783
Arsenic	NELAP	0.0010		0.0016	mg/L	5	08/30/2024 17:06	227783
Lead	NELAP	0.0010	J	0.0008	mg/L	5	09/05/2024 9:29	227783
Thallium	NELAP	0.0020		< 0.0020	mg/L	5	09/05/2024 9:29	227783
SW-846 7470A (DISSOLVED)								
Mercury	NELAP	0.00020		< 0.00020	mg/L	1	08/29/2024 9:12	227737
<i>LCS recovered outside upper control limits. Sample results are below the reporting limit. Data is reportable per the TNI Standard.</i>								
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		< 0.00020	mg/L	1	08/29/2024 9:09	227737
<i>LCS recovered outside upper control limits. Sample results are below the reporting limit. Data is reportable per the TNI Standard.</i>								



Laboratory Results

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24080263

Client Project: Meredosia GW Monitoring Q3 2024

Report Date: 09-Sep-24

Lab ID: 24080263-010

Client Sample ID: APW-1 DUP

Matrix: GROUNDWATER

Collection Date: 08/27/2024 11:02

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		421.22	ft	1	08/27/2024 11:02	R352458
Depth to water	*	-5.00		16.15	ft	1	08/27/2024 11:02	R352458
Depth to water from measuring point	*	0		19.35	ft	1	08/27/2024 11:02	R352458
Elevation of groundwater surface	*	0		429.91	ft	1	08/27/2024 11:02	R352458
Measuring Point Elevation	*	0		449.26	ft	1	08/27/2024 11:02	R352458
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		15	NTU	1	08/27/2024 11:02	R352458
STANDARD METHODS 18TH ED. 2580 B FIELD								
Oxidation-Reduction Potential	*	-300		103	mV	1	08/27/2024 11:02	R352458
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		18.0	°C	1	08/27/2024 11:02	R352458
STANDARD METHODS 4500-O G FIELD								
Oxygen, Dissolved	*	0		6.34	mg/L	1	08/27/2024 11:02	R352458
SW-846 9040B								
pH, Field	*	1.00		6.75	S.U.	1	08/27/2024 11:02	R352458
SW-846 9050A								
Spec. Conductance, Field	*	1.00		450	µmhos/cm@25C	1	08/27/2024 11:02	R352458
STANDARD METHODS 2540 C (DISSOLVED) 1997, 2011								
Total Dissolved Solids	NELAP	20		278	mg/L	1	08/30/2024 9:40	R352631
STANDARD METHODS 4500-NO3 F (DISSOLVED) 2000, 2011								
Nitrogen, Nitrate (as N)	NELAP	0.500		6.28	mg/L	1	08/28/2024 14:06	R352453
SW-846 9012A (TOTAL)								
Cyanide	NELAP	0.005		< 0.005	mg/L	1	08/29/2024 12:55	227742
SW846 9056A DISSOLVED ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	*	0.50	J	0.12	mg/L	10	08/28/2024 11:56	R352382
Chloride	*	5.00		44.8	mg/L	10	08/28/2024 11:56	R352382
Sulfate	*	10.0		11.5	mg/L	10	08/28/2024 11:56	R352382
SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)								
Barium	NELAP	0.0025		0.0115	mg/L	1	08/30/2024 15:22	227702
Beryllium	NELAP	0.0005		< 0.0005	mg/L	1	08/30/2024 15:22	227702
Boron	NELAP	0.0200		0.0392	mg/L	1	08/30/2024 15:22	227702
Cadmium	NELAP	0.0020		< 0.0020	mg/L	1	08/30/2024 15:22	227702
Chromium	NELAP	0.0050		< 0.0050	mg/L	1	08/30/2024 15:22	227702
Cobalt	NELAP	0.0050		< 0.0050	mg/L	1	08/30/2024 15:22	227702
Copper	NELAP	0.0050		< 0.0050	mg/L	1	08/30/2024 15:22	227702
Iron	NELAP	0.0400		< 0.0400	mg/L	1	08/30/2024 15:22	227702
Manganese	NELAP	0.0070		0.0194	mg/L	1	08/30/2024 15:22	227702
Nickel	NELAP	0.0050		< 0.0050	mg/L	1	09/03/2024 12:46	227702
Selenium	NELAP	0.0400		< 0.0400	mg/L	1	08/30/2024 15:22	227702
Silver	NELAP	0.0070		< 0.0070	mg/L	1	08/30/2024 15:22	227702
Vanadium	NELAP	0.0100		< 0.0100	mg/L	1	08/30/2024 15:22	227702
Zinc	NELAP	0.0100		< 0.0100	mg/L	1	08/30/2024 15:22	227702
<i>CCV recovered outside the upper control limits. Sample results are below the reporting limit. Data is reportable per the TNI standard.</i>								
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		0.0185	mg/L	1	08/30/2024 12:10	227726



Laboratory Results

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24080263

Client Project: Meredosia GW Monitoring Q3 2024

Report Date: 09-Sep-24

Lab ID: 24080263-010

Client Sample ID: APW-1 DUP

Matrix: GROUNDWATER

Collection Date: 08/27/2024 11:02

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Beryllium	NELAP	0.0005		< 0.0005	mg/L	1	08/30/2024 12:10	227726
Boron	NELAP	0.0200		0.0485	mg/L	1	08/30/2024 12:10	227726
Cadmium	NELAP	0.0020		< 0.0020	mg/L	1	08/30/2024 12:10	227726
Chromium	NELAP	0.0050	J	0.0031	mg/L	1	08/30/2024 12:10	227726
Cobalt	NELAP	0.0050	J	0.0036	mg/L	1	08/30/2024 12:10	227726
Copper	NELAP	0.0050	J	0.0043	mg/L	1	08/30/2024 12:10	227726
Iron	NELAP	0.0400		1.74	mg/L	1	08/30/2024 12:10	227726
Manganese	NELAP	0.0070		0.169	mg/L	1	08/30/2024 12:10	227726
Nickel	NELAP	0.0050	J	0.0047	mg/L	1	08/30/2024 12:10	227726
Selenium	NELAP	0.0400		< 0.0400	mg/L	1	08/30/2024 12:10	227726
Silver	NELAP	0.0070		< 0.0070	mg/L	1	08/30/2024 12:10	227726
Vanadium	NELAP	0.010	J	0.0036	mg/L	1	08/30/2024 12:10	227726
Zinc	NELAP	0.010	J	0.0071	mg/L	1	08/30/2024 12:10	227726
SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)								
Antimony	NELAP	0.0010	J	0.0006	mg/L	5	08/28/2024 10:04	227702
Arsenic	NELAP	0.0010		< 0.0010	mg/L	5	08/28/2024 10:04	227702
Lead	NELAP	0.0010		< 0.0010	mg/L	5	08/28/2024 10:04	227702
Thallium	NELAP	0.0020		< 0.0020	mg/L	5	08/28/2024 10:04	227702
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010	BJ	0.0006	mg/L	5	09/03/2024 22:27	227726
Arsenic	NELAP	0.0010		0.0013	mg/L	5	09/03/2024 22:27	227726
Lead	NELAP	0.0010		0.0021	mg/L	5	09/03/2024 22:27	227726
Thallium	NELAP	0.0020		< 0.0020	mg/L	5	09/03/2024 22:27	227726
<i>Contamination present in the MBLK for Sb. Sample results below the reporting limit are reportable per the TNI Standard.</i>								
SW-846 7470A (DISSOLVED)								
Mercury	NELAP	0.00020		< 0.00020	mg/L	1	08/30/2024 14:38	227774
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		< 0.00020	mg/L	1	08/29/2024 9:18	227737
<i>LCS recovered outside upper control limits. Sample results are below the reporting limit. Data is reportable per the TNI Standard.</i>								



Laboratory Results

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24080263

Client Project: Meredosia GW Monitoring Q3 2024

Report Date: 09-Sep-24

Lab ID: 24080263-011

Client Sample ID: Field Blank

Matrix: AQUEOUS

Collection Date: 08/28/2024 12:30

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
STANDARD METHODS 2540 C (DISSOLVED) 1997, 2011								
Total Dissolved Solids	NELAP	20		< 20	mg/L	1	08/30/2024 9:41	R352631
STANDARD METHODS 4500-NO3 F (DISSOLVED) 2000, 2011								
Nitrogen, Nitrate (as N)	NELAP	0.050		< 0.050	mg/L	1	08/28/2024 16:01	R352453
SW-846 9012A (TOTAL)								
Cyanide	NELAP	0.005	B	< 0.005	mg/L	1	08/30/2024 14:24	227805
<i>LCS recovered outside upper control limits. Sample results are below the reporting limit. Data is reportable per the TNI Standard.</i>								
<i>Contamination present in the MBLK. Sample results below the reporting limit are reportable per the TNI Standard.</i>								
SW846 9056A DISSOLVED ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	*	0.50		ND	mg/L	10	08/29/2024 11:06	R352440
Chloride	*	5.00		ND	mg/L	10	08/29/2024 11:06	R352440
Sulfate	*	10	J	0.73	mg/L	10	08/29/2024 11:06	R352440
SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)								
Barium	NELAP	0.0025		< 0.0025	mg/L	1	08/30/2024 15:27	227786
Beryllium	NELAP	0.0005		< 0.0005	mg/L	1	08/30/2024 15:27	227786
Boron	NELAP	0.0200		< 0.0200	mg/L	1	08/30/2024 15:27	227786
Cadmium	NELAP	0.0020		< 0.0020	mg/L	1	08/30/2024 15:27	227786
Chromium	NELAP	0.0050		< 0.0050	mg/L	1	08/30/2024 15:27	227786
Cobalt	NELAP	0.0050		< 0.0050	mg/L	1	08/30/2024 15:27	227786
Copper	NELAP	0.0050		< 0.0050	mg/L	1	08/30/2024 15:27	227786
Iron	NELAP	0.0400		< 0.0400	mg/L	1	08/30/2024 15:27	227786
Manganese	NELAP	0.0070		< 0.0070	mg/L	1	08/30/2024 15:27	227786
Nickel	NELAP	0.0050		< 0.0050	mg/L	1	08/30/2024 15:27	227786
Selenium	NELAP	0.0400		< 0.0400	mg/L	1	08/30/2024 15:27	227786
Silver	NELAP	0.0070		< 0.0070	mg/L	1	08/30/2024 15:27	227786
Vanadium	NELAP	0.0100		< 0.0100	mg/L	1	08/30/2024 15:27	227786
Zinc	NELAP	0.0100		< 0.0100	mg/L	1	08/30/2024 15:27	227786
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		< 0.0025	mg/L	1	08/30/2024 16:56	227779
Beryllium	NELAP	0.0005		< 0.0005	mg/L	1	08/30/2024 16:56	227779
Boron	NELAP	0.0200		< 0.0200	mg/L	1	08/30/2024 16:56	227779
Cadmium	NELAP	0.0020		< 0.0020	mg/L	1	08/30/2024 16:56	227779
Chromium	NELAP	0.0050		< 0.0050	mg/L	1	08/30/2024 16:56	227779
Cobalt	NELAP	0.0050		< 0.0050	mg/L	1	08/30/2024 16:56	227779
Copper	NELAP	0.0050		< 0.0050	mg/L	1	08/30/2024 16:56	227779
Iron	NELAP	0.0400		< 0.0400	mg/L	1	08/30/2024 16:56	227779
Manganese	NELAP	0.0070		< 0.0070	mg/L	1	08/30/2024 16:56	227779
Nickel	NELAP	0.0050		< 0.0050	mg/L	1	08/30/2024 16:56	227779
Selenium	NELAP	0.0400		< 0.0400	mg/L	1	08/30/2024 16:56	227779
Silver	NELAP	0.0070		< 0.0070	mg/L	1	08/30/2024 16:56	227779
Vanadium	NELAP	0.0100		< 0.0100	mg/L	1	08/30/2024 16:56	227779
Zinc	NELAP	0.0100		< 0.0100	mg/L	1	08/30/2024 16:56	227779
SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)								
Antimony	NELAP	0.0010	J	0.0006	mg/L	5	09/05/2024 13:30	227786
Arsenic	NELAP	0.0010		< 0.0010	mg/L	5	08/29/2024 19:48	227786
Lead	NELAP	0.0010		< 0.0010	mg/L	5	08/29/2024 19:48	227786
Thallium	NELAP	0.0020		< 0.0020	mg/L	5	08/29/2024 19:48	227786



Laboratory Results

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

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24080263

Client Project: Meredosia GW Monitoring Q3 2024

Report Date: 09-Sep-24

Lab ID: 24080263-011

Client Sample ID: Field Blank

Matrix: AQUEOUS

Collection Date: 08/28/2024 12:30

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)								
<i>LCS recovered outside upper control limits. Sample results are below the reporting limit. Data is reportable per the TNI Standard.</i>								
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010	B	< 0.0010	mg/L	5	09/03/2024 23:42	227779
Arsenic	NELAP	0.0010		< 0.0010	mg/L	5	09/03/2024 23:42	227779
Lead	NELAP	0.0010		< 0.0010	mg/L	5	09/03/2024 23:42	227779
Thallium	NELAP	0.0020		< 0.0020	mg/L	5	09/03/2024 23:42	227779
<i>Contamination present in the MBLK for Sb. Sample results below the reporting limit are reportable per the TNI Standard.</i>								
SW-846 7470A (DISSOLVED)								
Mercury	NELAP	0.00020		< 0.00020	mg/L	1	08/30/2024 14:59	227774
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		< 0.00020	mg/L	1	08/30/2024 14:57	227774



Laboratory Results

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24080263

Client Project: Meredosia GW Monitoring Q3 2024

Report Date: 09-Sep-24

Lab ID: 24080263-012

Client Sample ID: APW-10

Matrix: GROUNDWATER

Collection Date: 08/28/2024 12:04

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		414.82	ft	1	08/28/2024 12:04	R352458
Depth to water	*	-5.00		27.26	ft	1	08/28/2024 12:04	R352458
Depth to water from measuring point	*	0		30.61	ft	1	08/28/2024 12:04	R352458
Elevation of groundwater surface	*	0		426.84	ft	1	08/28/2024 12:04	R352458
Measuring Point Elevation	*	0		457.45	ft	1	08/28/2024 12:04	R352458
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		42	NTU	1	08/28/2024 12:04	R352458
STANDARD METHODS 18TH ED. 2580 B FIELD								
Oxidation-Reduction Potential	*	-300		163	mV	1	08/28/2024 12:04	R352458
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		16.3	°C	1	08/28/2024 12:04	R352458
STANDARD METHODS 4500-O G FIELD								
Oxygen, Dissolved	*	0		6.40	mg/L	1	08/28/2024 12:04	R352458
SW-846 9040B								
pH, Field	*	1.00		7.39	S.U.	1	08/28/2024 12:04	R352458
SW-846 9050A								
Spec. Conductance, Field	*	1.00		380	µmhos/cm@25C	1	08/28/2024 12:04	R352458
STANDARD METHODS 2540 C (DISSOLVED) 1997, 2011								
Total Dissolved Solids	NELAP	20		266	mg/L	1	08/30/2024 9:41	R352631
STANDARD METHODS 4500-NO3 F (DISSOLVED) 2000, 2011								
Nitrogen, Nitrate (as N)	NELAP	0.250		2.05	mg/L	1	08/28/2024 16:03	R352453
SW-846 9012A (TOTAL)								
Cyanide	NELAP	0.005	B	< 0.005	mg/L	1	08/30/2024 14:50	227805
<i>LCS recovered outside upper control limits. Sample results are below the reporting limit. Data is reportable per the TNI Standard.</i>								
<i>Contamination present in the MBLK. Sample results below the reporting limit are reportable per the TNI Standard.</i>								
SW846 9056A DISSOLVED ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	*	0.50		ND	mg/L	10	08/29/2024 11:18	R352440
Chloride	*	5.0	J	3.1	mg/L	10	08/29/2024 11:18	R352440
Sulfate	*	10.0		46.9	mg/L	10	08/29/2024 11:18	R352440
SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)								
Barium	NELAP	0.0025		0.0170	mg/L	1	08/30/2024 15:28	227786
Beryllium	NELAP	0.0005		< 0.0005	mg/L	1	08/30/2024 15:28	227786
Boron	NELAP	0.0200		0.949	mg/L	1	08/30/2024 15:28	227786
Cadmium	NELAP	0.0020		< 0.0020	mg/L	1	08/30/2024 15:28	227786
Chromium	NELAP	0.0050		< 0.0050	mg/L	1	08/30/2024 15:28	227786
Cobalt	NELAP	0.0050		< 0.0050	mg/L	1	08/30/2024 15:28	227786
Copper	NELAP	0.0050		< 0.0050	mg/L	1	08/30/2024 15:28	227786
Iron	NELAP	0.0400		< 0.0400	mg/L	1	08/30/2024 15:28	227786
Manganese	NELAP	0.0070		< 0.0070	mg/L	1	08/30/2024 15:28	227786
Nickel	NELAP	0.0050		< 0.0050	mg/L	1	08/30/2024 15:28	227786
Selenium	NELAP	0.0400		< 0.0400	mg/L	1	08/30/2024 15:28	227786
Silver	NELAP	0.0070		< 0.0070	mg/L	1	08/30/2024 15:28	227786
Vanadium	NELAP	0.0100		< 0.0100	mg/L	1	08/30/2024 15:28	227786
Zinc	NELAP	0.0100		< 0.0100	mg/L	1	08/30/2024 15:28	227786



Laboratory Results

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24080263

Client Project: Meredosia GW Monitoring Q3 2024

Report Date: 09-Sep-24

Lab ID: 24080263-012

Client Sample ID: APW-10

Matrix: GROUNDWATER

Collection Date: 08/28/2024 12:04

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		0.0264	mg/L	1	08/30/2024 16:57	227779
Beryllium	NELAP	0.0005		< 0.0005	mg/L	1	08/30/2024 16:57	227779
Boron	NELAP	0.0200		1.01	mg/L	1	08/30/2024 16:57	227779
Cadmium	NELAP	0.0020		< 0.0020	mg/L	1	08/30/2024 16:57	227779
Chromium	NELAP	0.0050	J	0.0048	mg/L	1	08/30/2024 16:57	227779
Cobalt	NELAP	0.0050	J	0.0044	mg/L	1	08/30/2024 16:57	227779
Copper	NELAP	0.0050		0.0064	mg/L	1	08/30/2024 16:57	227779
Iron	NELAP	0.0400		2.90	mg/L	1	08/30/2024 16:57	227779
Manganese	NELAP	0.0070		0.181	mg/L	1	08/30/2024 16:57	227779
Nickel	NELAP	0.0050	J	0.0042	mg/L	1	08/30/2024 16:57	227779
Selenium	NELAP	0.0400		< 0.0400	mg/L	1	08/30/2024 16:57	227779
Silver	NELAP	0.0070		< 0.0070	mg/L	1	08/30/2024 16:57	227779
Vanadium	NELAP	0.010	J	0.0071	mg/L	1	08/30/2024 16:57	227779
Zinc	NELAP	0.0100		0.0101	mg/L	1	08/30/2024 16:57	227779
SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)								
Antimony	NELAP	0.0010	J	0.0006	mg/L	5	08/29/2024 19:53	227786
Arsenic	NELAP	0.0010		0.0016	mg/L	5	08/29/2024 19:53	227786
Lead	NELAP	0.0010		< 0.0010	mg/L	5	08/29/2024 19:53	227786
Thallium	NELAP	0.0020		< 0.0020	mg/L	5	08/29/2024 19:53	227786
<i>LCS recovered outside upper control limits. Sample results are below the reporting limit. Data is reportable per the TNI Standard.</i>								
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010	BJ	0.0005	mg/L	5	09/03/2024 23:47	227779
Arsenic	NELAP	0.0010		0.0037	mg/L	5	09/03/2024 23:47	227779
Lead	NELAP	0.0010		0.0031	mg/L	5	09/03/2024 23:47	227779
Thallium	NELAP	0.0020		< 0.0020	mg/L	5	09/03/2024 23:47	227779
<i>Contamination present in the MBLK for Sb. Sample results below the reporting limit are reportable per the TNI Standard.</i>								
SW-846 7470A (DISSOLVED)								
Mercury	NELAP	0.00020		< 0.00020	mg/L	1	08/30/2024 15:03	227774
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		< 0.00020	mg/L	1	08/30/2024 15:01	227774



Laboratory Results

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24080263

Client Project: Meredosia GW Monitoring Q3 2024

Report Date: 09-Sep-24

Lab ID: 24080263-013

Client Sample ID: APW-11

Matrix: GROUNDWATER

Collection Date: 08/27/2024 11:46

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		417.30	ft	1	08/27/2024 11:46	R352458
Depth to water	*	-5.00		33.24	ft	1	08/27/2024 11:46	R352458
Depth to water from measuring point	*	0		36.75	ft	1	08/27/2024 11:46	R352458
Elevation of groundwater surface	*	0		428.65	ft	1	08/27/2024 11:46	R352458
Measuring Point Elevation	*	0		465.40	ft	1	08/27/2024 11:46	R352458
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		9.9	NTU	1	08/27/2024 11:46	R352458
STANDARD METHODS 18TH ED. 2580 B FIELD								
Oxidation-Reduction Potential	*	-300		109	mV	1	08/27/2024 11:46	R352458
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		17.1	°C	1	08/27/2024 11:46	R352458
STANDARD METHODS 4500-O G FIELD								
Oxygen, Dissolved	*	0		2.38	mg/L	1	08/27/2024 11:46	R352458
SW-846 9040B								
pH, Field	*	1.00		7.11	S.U.	1	08/27/2024 11:46	R352458
SW-846 9050A								
Spec. Conductance, Field	*	1.00		539	µmhos/cm@25C	1	08/27/2024 11:46	R352458
STANDARD METHODS 2540 C (DISSOLVED) 1997, 2011								
Total Dissolved Solids	NELAP	20		362	mg/L	1	08/30/2024 9:50	R352631
STANDARD METHODS 4500-NO3 F (DISSOLVED) 2000, 2011								
Nitrogen, Nitrate (as N)	NELAP	0.100		1.95	mg/L	1	08/28/2024 14:09	R352453
SW-846 9012A (TOTAL)								
Cyanide	NELAP	0.005		< 0.005	mg/L	1	08/29/2024 13:00	227742
SW846 9056A DISSOLVED ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	*	0.50		ND	mg/L	10	08/28/2024 12:08	R352382
Chloride	*	5.0	J	2.6	mg/L	10	08/28/2024 12:08	R352382
Sulfate	*	10.0		59.1	mg/L	10	08/28/2024 12:08	R352382
SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)								
Barium	NELAP	0.0025		0.0139	mg/L	1	08/30/2024 15:23	227702
Beryllium	NELAP	0.0005		< 0.0005	mg/L	1	08/30/2024 15:23	227702
Boron	NELAP	0.0200	X	2.06	mg/L	1	08/30/2024 15:23	227702
Cadmium	NELAP	0.0020		< 0.0020	mg/L	1	08/30/2024 15:23	227702
Chromium	NELAP	0.0050		< 0.0050	mg/L	1	08/30/2024 15:23	227702
Cobalt	NELAP	0.0050		< 0.0050	mg/L	1	08/30/2024 15:23	227702
Copper	NELAP	0.0050		< 0.0050	mg/L	1	08/30/2024 15:23	227702
Iron	NELAP	0.0400		< 0.0400	mg/L	1	08/30/2024 15:23	227702
Manganese	NELAP	0.0070	X	0.238	mg/L	1	08/30/2024 15:23	227702
Nickel	NELAP	0.0050		< 0.0050	mg/L	1	09/03/2024 12:47	227702
Selenium	NELAP	0.0400		< 0.0400	mg/L	1	08/30/2024 15:23	227702
Silver	NELAP	0.0070		< 0.0070	mg/L	1	08/30/2024 15:23	227702
Vanadium	NELAP	0.0100		< 0.0100	mg/L	1	08/30/2024 15:23	227702
Zinc	NELAP	0.0100		< 0.0100	mg/L	1	08/30/2024 15:23	227702
CCV recovered outside the upper control limits. Sample results are below the reporting limit. Data is reportable per the TNI standard.								
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		0.0182	mg/L	1	08/30/2024 12:56	227726



Laboratory Results

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24080263

Client Project: Meredosia GW Monitoring Q3 2024

Report Date: 09-Sep-24

Lab ID: 24080263-013

Client Sample ID: APW-11

Matrix: GROUNDWATER

Collection Date: 08/27/2024 11:46

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Beryllium	NELAP	0.0005		< 0.0005	mg/L	1	08/30/2024 12:56	227726
Boron	NELAP	0.0200		2.26	mg/L	1	08/30/2024 12:56	227726
Cadmium	NELAP	0.0020		< 0.0020	mg/L	1	08/30/2024 12:56	227726
Chromium	NELAP	0.0050		< 0.0050	mg/L	1	08/30/2024 12:56	227726
Cobalt	NELAP	0.0050		< 0.0050	mg/L	1	08/30/2024 12:56	227726
Copper	NELAP	0.0050	J	0.0035	mg/L	1	08/30/2024 12:56	227726
Iron	NELAP	0.0400		0.167	mg/L	1	08/30/2024 12:56	227726
Manganese	NELAP	0.0070		0.420	mg/L	1	08/30/2024 12:56	227726
Nickel	NELAP	0.0050		< 0.0050	mg/L	1	08/30/2024 12:56	227726
Selenium	NELAP	0.040	J	0.018	mg/L	1	08/30/2024 12:56	227726
Silver	NELAP	0.0070		< 0.0070	mg/L	1	08/30/2024 12:56	227726
Vanadium	NELAP	0.0100		< 0.0100	mg/L	1	08/30/2024 12:56	227726
Zinc	NELAP	0.010	J	0.0053	mg/L	1	08/30/2024 12:56	227726
SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)								
Antimony	NELAP	0.0010	J	0.0005	mg/L	5	08/28/2024 10:09	227702
Arsenic	NELAP	0.0010	J	0.0005	mg/L	5	08/28/2024 10:09	227702
Lead	NELAP	0.0010		< 0.0010	mg/L	5	08/28/2024 10:09	227702
Thallium	NELAP	0.0020		< 0.0020	mg/L	5	08/28/2024 10:09	227702
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010	B	< 0.0010	mg/L	5	09/03/2024 22:33	227726
Arsenic	NELAP	0.0010	J	0.0007	mg/L	5	09/03/2024 22:33	227726
Lead	NELAP	0.0010		< 0.0010	mg/L	5	09/03/2024 22:33	227726
Thallium	NELAP	0.0020		< 0.0020	mg/L	5	09/03/2024 22:33	227726
<i>Contamination present in the MBLK for Sb. Sample results below the reporting limit are reportable per the TNI Standard.</i>								
SW-846 7470A (DISSOLVED)								
Mercury	NELAP	0.00020		< 0.00020	mg/L	1	08/30/2024 15:08	227774
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		< 0.00020	mg/L	1	08/30/2024 15:06	227774



Laboratory Results

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24080263

Client Project: Meredosia GW Monitoring Q3 2024

Report Date: 09-Sep-24

Lab ID: 24080263-014

Client Sample ID: APW-12

Matrix: GROUNDWATER

Collection Date: 08/26/2024 13:15

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		411.80	ft	1	08/26/2024 13:15	R352458
Depth to water	*	-5.00		7.67	ft	1	08/26/2024 13:15	R352458
Depth to water from measuring point	*	0		11.25	ft	1	08/26/2024 13:15	R352458
Elevation of groundwater surface	*	0		424.27	ft	1	08/26/2024 13:15	R352458
Measuring Point Elevation	*	0		435.52	ft	1	08/26/2024 13:15	R352458
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		8.9	NTU	1	08/26/2024 13:15	R352458
STANDARD METHODS 18TH ED. 2580 B FIELD								
Oxidation-Reduction Potential	*	-300		73	mV	1	08/26/2024 13:15	R352458
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		17.0	°C	1	08/26/2024 13:15	R352458
STANDARD METHODS 4500-O G FIELD								
Oxygen, Dissolved	*	0		0.58	mg/L	1	08/26/2024 13:15	R352458
SW-846 9040B								
pH, Field	*	1.00		6.92	S.U.	1	08/26/2024 13:15	R352458
SW-846 9050A								
Spec. Conductance, Field	*	1.00		604	µmhos/cm@25C	1	08/26/2024 13:15	R352458
STANDARD METHODS 2540 C (DISSOLVED) 1997, 2011								
Total Dissolved Solids	NELAP	20		388	mg/L	1	08/30/2024 9:51	R352631
STANDARD METHODS 4500-NO3 F (DISSOLVED) 2000, 2011								
Nitrogen, Nitrate (as N)	NELAP	0.250		2.52	mg/L	1	08/27/2024 11:11	R352365
SW-846 9012A (TOTAL)								
Cyanide	NELAP	0.005	J	0.002	mg/L	1	08/29/2024 13:25	227742
<i>CCV recovered outside the upper control limits. Sample results are below the reporting limit. Data is reportable per the TNI standard.</i>								
SW846 9056A DISSOLVED ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	*	0.50	J	0.23	mg/L	10	08/27/2024 9:41	R352311
Chloride	*	5.00		43.1	mg/L	10	08/27/2024 9:41	R352311
Sulfate	*	10.0		38.1	mg/L	10	08/27/2024 9:41	R352311
SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)								
Barium	NELAP	0.0025		0.0802	mg/L	1	09/03/2024 17:12	227733
Beryllium	NELAP	0.0005		< 0.0005	mg/L	1	09/03/2024 17:12	227733
Boron	NELAP	0.0200		0.0776	mg/L	1	09/03/2024 17:12	227733
Cadmium	NELAP	0.0020		< 0.0020	mg/L	1	09/03/2024 17:12	227733
Chromium	NELAP	0.0050		< 0.0050	mg/L	1	09/03/2024 17:12	227733
Cobalt	NELAP	0.0050		< 0.0050	mg/L	1	09/03/2024 17:12	227733
Copper	NELAP	0.0050		< 0.0050	mg/L	1	09/03/2024 17:12	227733
Iron	NELAP	0.0400		< 0.0400	mg/L	1	09/03/2024 17:12	227733
Manganese	NELAP	0.0070	X	1.47	mg/L	1	09/03/2024 17:12	227733
Nickel	NELAP	0.0050		0.0059	mg/L	1	09/05/2024 14:33	227733
Selenium	NELAP	0.0400		< 0.0400	mg/L	1	09/03/2024 17:12	227733
Silver	NELAP	0.0070		< 0.0070	mg/L	1	09/03/2024 17:12	227733
Vanadium	NELAP	0.0100		< 0.0100	mg/L	1	09/03/2024 17:12	227733
Zinc	NELAP	0.0100		< 0.0100	mg/L	1	09/03/2024 17:12	227733
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		0.114	mg/L	1	08/30/2024 16:09	227662



Laboratory Results

Client: AmerenEnergy Medina Valley Cogen, LLC
 Client Project: Meredosia GW Monitoring Q3 2024
 Lab ID: 24080263-014
 Matrix: GROUNDWATER

Work Order: 24080263
 Report Date: 09-Sep-24

Client Sample ID: APW-12
 Collection Date: 08/26/2024 13:15

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Beryllium	NELAP	0.0005		< 0.0005	mg/L	1	08/30/2024 16:09	227662
Boron	NELAP	0.0200		0.0900	mg/L	1	08/30/2024 16:09	227662
Cadmium	NELAP	0.0020		< 0.0020	mg/L	1	08/30/2024 16:09	227662
Chromium	NELAP	0.0050		< 0.0050	mg/L	1	08/30/2024 16:09	227662
Cobalt	NELAP	0.0050		0.0095	mg/L	1	08/30/2024 16:09	227662
Copper	NELAP	0.0050	J	0.0030	mg/L	1	08/30/2024 16:09	227662
Iron	NELAP	0.0400		0.493	mg/L	1	08/30/2024 16:09	227662
Manganese	NELAP	0.0070		3.09	mg/L	1	08/30/2024 16:09	227662
Nickel	NELAP	0.0050		0.0070	mg/L	1	09/03/2024 16:30	227662
Selenium	NELAP	0.0400		< 0.0400	mg/L	1	08/30/2024 16:09	227662
Silver	NELAP	0.0070		< 0.0070	mg/L	1	08/30/2024 16:09	227662
Vanadium	NELAP	0.0100		< 0.0100	mg/L	1	08/30/2024 16:09	227662
Zinc	NELAP	0.0100		< 0.0100	mg/L	1	08/30/2024 16:09	227662
<i>CCV recovered outside the upper control limits. Sample results are below the reporting limit. Data is reportable per the TNI standard.</i>								
SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)								
Antimony	NELAP	0.0010		< 0.0010	mg/L	5	08/29/2024 18:57	227733
Arsenic	NELAP	0.0010		< 0.0010	mg/L	5	08/29/2024 18:57	227733
Lead	NELAP	0.0010		< 0.0010	mg/L	5	08/29/2024 18:57	227733
Thallium	NELAP	0.0020		< 0.0020	mg/L	5	08/30/2024 15:42	227733
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		0.0013	mg/L	5	08/29/2024 13:11	227662
Arsenic	NELAP	0.0010	J	0.0009	mg/L	5	08/29/2024 13:11	227662
Lead	NELAP	0.0010	J	0.0009	mg/L	5	08/29/2024 13:11	227662
Thallium	NELAP	0.0020		< 0.0020	mg/L	5	08/29/2024 13:11	227662
<i>CCV recovered outside the upper control limits for TI. Sample results are below the reporting limit. Data is reportable per the TNI standard.</i>								
SW-846 7470A (DISSOLVED)								
Mercury	NELAP	0.00020		< 0.00020	mg/L	1	08/30/2024 15:17	227774
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		< 0.00020	mg/L	1	08/30/2024 15:10	227774



Quality Control Results

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

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24080263

Client Project: Meredosia GW Monitoring Q3 2024

Report Date: 09-Sep-24

SW-846 9040B

Batch R352458		SampType: LCS		Units							
SampID: LCS-1											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
pH, Field	*	1.00		7.10	7.000	0	101.4	98.57	101.4	08/26/2024	

Batch R352458		SampType: LCS		Units							
SampID: LCS-2											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
pH, Field	*	1.00		7.10	7.000	0	101.4	98.57	101.4	08/27/2024	

Batch R352458		SampType: LCS		Units							
SampID: LCS-3											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
pH, Field	*	1.00		7.06	7.000	0	100.9	98.57	101.4	08/28/2024	

SW-846 9050A

Batch R352458		SampType: LCS		Units µmhos/cm @25C							
SampID: LCS-1											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Spec. Conductance, Field	*	1.00		1410	1412	0	100.0	90	110	08/26/2024	

Batch R352458		SampType: LCS		Units µmhos/cm @25C							
SampID: LCS-2											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Spec. Conductance, Field	*	1.00		1410	1412	0	100.0	90	110	08/27/2024	

Batch R352458		SampType: LCS		Units µmhos/cm @25C							
SampID: LCS-3											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Spec. Conductance, Field	*	1.00		1410	1412	0	100.0	90	110	08/28/2024	

STANDARD METHODS 2540 C (DISSOLVED) 1997, 2011

Batch R352631		SampType: MBLK		Units mg/L							
SampID: MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Total Dissolved Solids		20		< 20	16.00	0	0	-100	100	08/30/2024	
Total Dissolved Solids		20		< 20	16.00	0	0	-100	100	08/30/2024	
Total Dissolved Solids		20		< 20	16.00	0	0	-100	100	08/30/2024	



Quality Control Results

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

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24080263

Client Project: Meredosia GW Monitoring Q3 2024

Report Date: 09-Sep-24

STANDARD METHODS 2540 C (DISSOLVED) 1997, 2011

Batch R352631		SampType: LCS		Units mg/L							Date Analyzed
SampID: LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Total Dissolved Solids		20		950	1000	0	95.0	90	110	08/30/2024	
Total Dissolved Solids		20		972	1000	0	97.2	90	110	08/30/2024	
Total Dissolved Solids		20		902	1000	0	90.2	90	110	08/30/2024	

Batch R352631		SampType: DUP		Units mg/L							RPD Limit 10	Date Analyzed
SampID: 24080263-014BDUP												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Total Dissolved Solids		20		374				388.0	3.67	08/30/2024		

Batch R352631		SampType: DUP		Units mg/L							RPD Limit 10	Date Analyzed
SampID: 24082072-001ADUP												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Total Dissolved Solids		20		2010				2044	1.78	08/30/2024		

Batch R352631		SampType: DUP		Units mg/L							RPD Limit 10	Date Analyzed
SampID: 24082232-001ADUP												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Total Dissolved Solids		100		560				560.0	0.00	08/30/2024		

STANDARD METHODS 4500-NO2 B (DISSOLVED) 2000, 2011

Batch R352307		SampType: MBLK		Units mg/L							Date Analyzed
SampID: MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrite (as N)		0.05	J	0.01	0.0250	0	24.0	-100	100	08/26/2024	
Nitrogen, Nitrite (as N)		0.05	J	0.01	0.0250	0	24.0	-100	100	08/26/2024	

Batch R352307		SampType: LCS		Units mg/L							Date Analyzed
SampID: LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrite (as N)		0.05		0.32	0.3045	0	103.4	90	110	08/26/2024	
Nitrogen, Nitrite (as N)		0.05		0.31	0.3045	0	103.1	90	110	08/26/2024	

Batch R352307		SampType: MS		Units mg/L							Date Analyzed
SampID: 24082070-001AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrite (as N)		0.05		0.50	0.5000	0.006000	99.6	85	115	08/26/2024	



Quality Control Results

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

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24080263

Client Project: Meredosia GW Monitoring Q3 2024

Report Date: 09-Sep-24

STANDARD METHODS 4500-NO2 B (DISSOLVED) 2000, 2011

Batch R352307		SampType: MSD		Units mg/L				RPD Limit 10			
SampID: 24082070-001AMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Nitrogen, Nitrite (as N)		0.05		0.51	0.5000	0.006000	100.4	0.5040	0.79	08/26/2024	

Batch R352307		SampType: MS		Units mg/L							
SampID: 24082116-002AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrite (as N)		0.05		0.50	0.5000	0.006000	99.0	85	115	08/26/2024	

Batch R352307		SampType: MSD		Units mg/L				RPD Limit 10			
SampID: 24082116-002AMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Nitrogen, Nitrite (as N)		0.05		0.51	0.5000	0.006000	101.2	0.5010	2.17	08/26/2024	

Batch R352414		SampType: MBLK		Units mg/L							
SampID: MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrite (as N)		0.05	J	0.01	0.0250	0	24.0	-100	100	08/28/2024	
Nitrogen, Nitrite (as N)		0.05	J	0.01	0.0250	0	24.0	-100	100	08/28/2024	

Batch R352414		SampType: LCS		Units mg/L							
SampID: LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrite (as N)		0.05		0.32	0.3045	0	104.4	90	110	08/28/2024	
Nitrogen, Nitrite (as N)		0.05		0.32	0.3045	0	103.4	90	110	08/28/2024	

Batch R352414		SampType: MS		Units mg/L							
SampID: 24080263-002BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrite (as N)		0.05		0.53	0.5000	0	105.4	85	115	08/28/2024	

Batch R352414		SampType: MSD		Units mg/L				RPD Limit 10			
SampID: 24080263-002BMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Nitrogen, Nitrite (as N)		0.05		0.53	0.5000	0	106.8	0.5270	1.32	08/28/2024	



Quality Control Results

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Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24080263

Client Project: Meredosia GW Monitoring Q3 2024

Report Date: 09-Sep-24

STANDARD METHODS 4500-NO2 B (DISSOLVED) 2000, 2011

Batch R352414		SampType: MS		Units mg/L							Date Analyzed
SampID: 24082276-001AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrite (as N)		0.05		0.47	0.5000	0.007000	92.2	85	115	08/28/2024	

Batch R352414		SampType: MSD		Units mg/L							RPD Limit 10	Date Analyzed
SampID: 24082276-001AMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Nitrogen, Nitrite (as N)		0.05		0.47	0.5000	0.007000	93.2	0.4680	1.06	08/28/2024		

Batch R352414		SampType: MS		Units mg/L							Date Analyzed
SampID: 24082330-001AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrite (as N)		0.05		0.48	0.5000	0.01400	93.8	85	115	08/28/2024	

Batch R352414		SampType: MSD		Units mg/L							RPD Limit 10	Date Analyzed
SampID: 24082330-001AMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Nitrogen, Nitrite (as N)		0.05		0.50	0.5000	0.01400	98.0	0.4830	4.26	08/28/2024		

Batch R352414		SampType: MS		Units mg/L							Date Analyzed
SampID: 24082335-001AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrite (as N)		0.05	S	0.31	0.5000	0.006000	61.0	85	115	08/28/2024	

Batch R352414		SampType: MSD		Units mg/L							RPD Limit 10	Date Analyzed
SampID: 24082335-001AMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Nitrogen, Nitrite (as N)		0.05	S	0.32	0.5000	0.006000	62.0	0.3110	1.59	08/28/2024		

STANDARD METHODS 4500-NO3 F (DISSOLVED) 2000, 2011

Batch R352365		SampType: MBLK		Units mg/L							Date Analyzed
SampID: ICB/MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrate (as N)		0.050		< 0.050						08/27/2024	
Nitrogen, Nitrate-Nitrite (as N)		0.050		< 0.050	0.0090	0	0	-100	100	08/27/2024	



Quality Control Results

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Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24080263

Client Project: Meredosia GW Monitoring Q3 2024

Report Date: 09-Sep-24

STANDARD METHODS 4500-NO3 F (DISSOLVED) 2000, 2011

Batch R352365		SampType: LCS		Units mg/L						
SampID: ICV/LCS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrate-Nitrite (as N)		0.050		0.499	0.5000	0	99.8	90	110	08/27/2024

Batch R352365		SampType: MS		Units mg/L						
SampID: 24081991-028AMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrate-Nitrite (as N)		0.050		0.292	0.2500	0.04300	99.6	90	110	08/27/2024

Batch R352365		SampType: MSD		Units mg/L							RPD Limit 10
SampID: 24081991-028AMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Nitrogen, Nitrate-Nitrite (as N)		0.050		0.302	0.2500	0.04300	103.6	0.2920	3.37	08/27/2024	

Batch R352365		SampType: MS		Units mg/L						
SampID: 24081997-001AMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrate-Nitrite (as N)		0.100		1.73	0.5000	1.256	94.2	90	110	08/27/2024

Batch R352365		SampType: MSD		Units mg/L							RPD Limit 10
SampID: 24081997-001AMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Nitrogen, Nitrate-Nitrite (as N)		0.100		1.73	0.5000	1.256	95.0	1.727	0.23	08/27/2024	

Batch R352365		SampType: MS		Units mg/L						
SampID: 24081998-008AMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrate-Nitrite (as N)		0.050		0.248	0.2500	0	99.2	90	110	08/27/2024

Batch R352365		SampType: MSD		Units mg/L							RPD Limit 10
SampID: 24081998-008AMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Nitrogen, Nitrate-Nitrite (as N)		0.050		0.257	0.2500	0	102.8	0.2480	3.56	08/27/2024	

Batch R352365		SampType: MS		Units mg/L						
SampID: 24082016-007EMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrate-Nitrite (as N)		0.050		0.308	0.2500	0.06400	97.6	90	110	08/27/2024



Quality Control Results

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Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24080263

Client Project: Meredosia GW Monitoring Q3 2024

Report Date: 09-Sep-24

STANDARD METHODS 4500-NO3 F (DISSOLVED) 2000, 2011

Batch	R352365	SampType:	MSD	Units mg/L			RPD Limit 10				Date Analyzed
SampID: 24082016-007EMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Nitrogen, Nitrate-Nitrite (as N)		0.050		0.323	0.2500	0.06400	103.6	0.3080	4.75	08/27/2024	

Batch	R352365	SampType:	MS	Units mg/L			RPD Limit 10				Date Analyzed
SampID: 24082116-002AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrate-Nitrite (as N)		2.50		46.8	12.50	34.35	99.3	90	110	08/27/2024	

Batch	R352365	SampType:	MSD	Units mg/L			RPD Limit 10				Date Analyzed
SampID: 24082116-002AMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Nitrogen, Nitrate-Nitrite (as N)		2.50	S	48.4	12.50	34.35	112.7	46.77	3.50	08/27/2024	

Batch	R352365	SampType:	MS	Units mg/L			RPD Limit 10				Date Analyzed
SampID: 24082182-002BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrate-Nitrite (as N)		2.50		44.6	12.50	32.24	98.8	85	115	08/27/2024	

Batch	R352365	SampType:	MSD	Units mg/L			RPD Limit 10				Date Analyzed
SampID: 24082182-002BMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Nitrogen, Nitrate-Nitrite (as N)		2.50		46.0	12.50	32.24	110.5	44.59	3.22	08/27/2024	

Batch	R352365	SampType:	MS	Units mg/L			RPD Limit 10				Date Analyzed
SampID: 24082232-001AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrate-Nitrite (as N)		0.050		0.240	0.2500	0	96.0	85	115	08/27/2024	

Batch	R352365	SampType:	MSD	Units mg/L			RPD Limit 10				Date Analyzed
SampID: 24082232-001AMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Nitrogen, Nitrate-Nitrite (as N)		0.050		0.257	0.2500	0	102.8	0.2400	6.84	08/27/2024	



Quality Control Results

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Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24080263

Client Project: Meredosia GW Monitoring Q3 2024

Report Date: 09-Sep-24

STANDARD METHODS 4500-NO3 F (DISSOLVED) 2000, 2011

Batch R352453		SampType: MBLK		Units mg/L							Date Analyzed
SampID: ICB/MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrate (as N)		0.050		< 0.050						08/28/2024	
Nitrogen, Nitrate-Nitrite (as N)		0.050		< 0.050	0.0090	0	0	-100	100	08/28/2024	

Batch R352453		SampType: LCS		Units mg/L							Date Analyzed
SampID: ICV/LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrate-Nitrite (as N)		0.050		0.504	0.5000	0	100.8	90	110	08/28/2024	

Batch R352453		SampType: MS		Units mg/L							Date Analyzed
SampID: 24082108-008AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrate-Nitrite (as N)		1.00		14.8	5.000	9.761	100.4	90	110	08/28/2024	

Batch R352453		SampType: MSD		Units mg/L							RPD Limit 10	Date Analyzed
SampID: 24082108-008AMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Nitrogen, Nitrate-Nitrite (as N)		1.00		14.9	5.000	9.761	102.7	14.78	0.77	08/28/2024		

Batch R352453		SampType: MS		Units mg/L							Date Analyzed
SampID: 24082276-001AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrate-Nitrite (as N)		2.50		47.7	12.50	36.00	93.3	90	110	08/28/2024	

Batch R352453		SampType: MSD		Units mg/L							RPD Limit 10	Date Analyzed
SampID: 24082276-001AMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Nitrogen, Nitrate-Nitrite (as N)		2.50		48.3	12.50	36.00	98.1	47.66	1.25	08/28/2024		

SW-846 9012A (TOTAL)

Batch 227742		SampType: MBLK		Units mg/L							Date Analyzed
SampID: MBLK 240828 TCN1											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Cyanide		0.005		< 0.005	0.0015	0	0	-100	100	08/29/2024	



Quality Control Results

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Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24080263

Client Project: Meredosia GW Monitoring Q3 2024

Report Date: 09-Sep-24

SW-846 9012A (TOTAL)

Batch 227742		SampType: LCS		Units mg/L						
SampID: LCS 240828 TCN1										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Cyanide		0.005		0.024	0.0250	0	95.4	90	110	08/29/2024

Batch 227742		SampType: MS		Units mg/L						
SampID: 24082162-004CMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Cyanide		0.005		0.024	0.0250	0	95.3	90	110	08/29/2024

Batch 227742		SampType: MSD		Units mg/L							RPD Limit 15
SampID: 24082162-004CMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Cyanide		0.005		0.024	0.0250	0	94.6	0.02382	0.76	08/29/2024	

Batch 227805		SampType: MBLK		Units mg/L						
SampID: MBLK 240829 TCN1										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Cyanide		0.005	JS	0.002	0.0015	0	148.6	-100	100	08/30/2024

Batch 227805		SampType: LCS		Units mg/L						
SampID: LCS 240829 TCN1										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Cyanide		0.005	BS	0.028	0.0250	0	110.8	90	110	08/30/2024

Batch 227805		SampType: MS		Units mg/L						
SampID: 24082383-001CMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Cyanide		0.025	B	0.123	0.1250	0	98.1	90	110	08/30/2024

Batch 227805		SampType: MSD		Units mg/L							RPD Limit 15
SampID: 24082383-001CMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Cyanide		0.025	B	0.127	0.1250	0	102.0	0.1226	3.90	08/30/2024	



Quality Control Results

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Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24080263

Client Project: Meredosia GW Monitoring Q3 2024

Report Date: 09-Sep-24

SW846 9056A DISSOLVED ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY

Batch R352311 SampType: MBLK Units mg/L

SampID: MBLK/ICB

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.05		ND						08/27/2024
Chloride		0.50		ND						08/27/2024
Sulfate		1.00		ND						08/27/2024

Batch R352311 SampType: LCS Units mg/L

SampID: LCS/ICV/QCS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.05		1.00	1.000	0	99.8	90	110	08/27/2024
Chloride		0.50		20.2	20.00	0	101.2	90	110	08/27/2024
Sulfate		1.00		18.7	20.00	0	93.6	90	110	08/27/2024

Batch R352311 SampType: MS Units mg/L

SampID: 24080263-006BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride	*	0.50		10.1	10.00	0	101.2	80	120	08/27/2024
Chloride	*	5.00		204	200.0	1.874	101.1	80	120	08/27/2024
Sulfate	*	10.0		210	200.0	22.80	93.7	80	120	08/27/2024

Batch R352311 SampType: MSD Units mg/L

SampID: 24080263-006BMSD

RPD Limit 15

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride	*	0.50		10.1	10.00	0	100.9	10.12	0.29	08/27/2024
Chloride	*	5.00		204	200.0	1.874	100.9	204.1	0.20	08/27/2024
Sulfate	*	10.0		210	200.0	22.80	93.4	210.2	0.27	08/27/2024

Batch R352311 SampType: MS Units mg/L

SampID: 24081635-006CMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride	*	0.50		11.0	10.00	0.9390	100.7	80	120	08/27/2024
Chloride	*	5.00		250	200.0	41.59	104.4	80	120	08/27/2024
Sulfate	*	10.0		285	200.0	93.98	95.5	80	120	08/27/2024



Quality Control Results

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Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24080263

Client Project: Meredosia GW Monitoring Q3 2024

Report Date: 09-Sep-24

SW846 9056A DISSOLVED ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY

Batch R352311		SampType: MSD		Units mg/L				RPD Limit 15			Date Analyzed
SampID: 24081635-006CMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Fluoride	*	0.50		11.0	10.00	0.9390	100.8	11.01	0.05	08/27/2024	
Chloride	*	5.00		251	200.0	41.59	104.5	250.4	0.07	08/27/2024	
Sulfate	*	10.0		284	200.0	93.98	95.2	285.0	0.20	08/27/2024	

Batch R352311		SampType: MS		Units mg/L				RPD Limit 15		Date Analyzed
SampID: 24081865-002AMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.50		10.1	10.00	0.05100	100.6	80	120	08/27/2024
Chloride		5.00		256	200.0	46.42	104.9	80	120	08/27/2024
Sulfate		10.0		200	200.0	14.55	92.8	80	120	08/27/2024

Batch R352311		SampType: MSD		Units mg/L				RPD Limit 15			Date Analyzed
SampID: 24081865-002AMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Fluoride		0.50		10.1	10.00	0.05100	100.9	10.11	0.31	08/27/2024	
Chloride		5.00		257	200.0	46.42	105.1	256.2	0.13	08/27/2024	
Sulfate		10.0		201	200.0	14.55	93.0	200.2	0.21	08/27/2024	

Batch R352382		SampType: MS		Units mg/L				RPD Limit 15		Date Analyzed
SampID: 24080263-001BMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride	*	0.50		10.2	10.00	0.1230	101.1	80	120	08/28/2024
Chloride	*	5.00		255	200.0	44.59	105.3	80	120	08/28/2024
Sulfate	*	10.0		198	200.0	11.45	93.5	80	120	08/28/2024

Batch R352382		SampType: MSD		Units mg/L				RPD Limit 15			Date Analyzed
SampID: 24080263-001BMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Fluoride	*	0.50		10.3	10.00	0.1230	101.8	10.23	0.68	08/28/2024	
Chloride	*	5.00		256	200.0	44.59	105.9	255.3	0.47	08/28/2024	
Sulfate	*	10.0		199	200.0	11.45	94.0	198.4	0.53	08/28/2024	



Quality Control Results

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Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24080263

Client Project: Meredosia GW Monitoring Q3 2024

Report Date: 09-Sep-24

SW846 9056A DISSOLVED ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY

Batch R352440 SampType: MBLK Units mg/L

SampID: MBLK/ICB

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.05		ND						08/29/2024
Chloride		0.50		ND						08/29/2024
Sulfate		1.00		ND						08/29/2024

Batch R352440 SampType: LCS Units mg/L

SampID: LCS/ICV/QCS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.05		1.00	1.000	0	100.3	90	110	08/29/2024
Chloride		0.50		20.5	20.00	0	102.3	90	110	08/29/2024
Sulfate		1.00		18.9	20.00	0	94.7	90	110	08/29/2024

Batch R352440 SampType: MS Units mg/L

SampID: 24080263-008BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride	*	0.50		10.1	10.00	0	100.5	80	120	08/29/2024
Chloride	*	5.00		212	200.0	7.480	102.2	80	120	08/29/2024
Sulfate	*	10.0		379	200.0	184.9	97.2	80	120	08/29/2024

Batch R352440 SampType: MSD Units mg/L

SampID: 24080263-008BMSD

RPD Limit 15

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride	*	0.50		10.1	10.00	0	101.0	10.05	0.44	08/29/2024
Chloride	*	5.00		213	200.0	7.480	102.6	211.9	0.31	08/29/2024
Sulfate	*	10.0		379	200.0	184.9	97.2	379.3	0.03	08/29/2024

Batch R352440 SampType: MS Units mg/L

SampID: 24082412-001AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.06		1.86	1.100	0.8196	94.3	80	120	08/29/2024
Chloride		0.55		45.2	22.00	22.68	102.2	80	120	08/29/2024
Sulfate		1.10		59.4	22.00	38.68	94.1	80	120	08/29/2024



Quality Control Results

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

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24080263

Client Project: Meredosia GW Monitoring Q3 2024

Report Date: 09-Sep-24

SW846 9056A DISSOLVED ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY

Batch R352440		SampType: MSD		Units mg/L				RPD Limit 15		
SampID: 24082412-001AMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride		0.06		1.85	1.100	0.8196	93.7	1.857	0.37	08/29/2024
Chloride		0.55		45.1	22.00	22.68	102.0	45.16	0.08	08/29/2024
Sulfate		1.10		59.3	22.00	38.68	93.8	59.37	0.09	08/29/2024



Quality Control Results

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

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24080263

Client Project: Meredosia GW Monitoring Q3 2024

Report Date: 09-Sep-24

SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)

Batch 227702 SampType: MBLK Units mg/L

SampID: MBLK-227702

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		0.0500		< 0.0500	0.0068	0	0	-100	100	08/30/2024
Antimony		0.0500		< 0.0500	0.0068	0	0	-100	100	09/03/2024
Arsenic		0.0250		< 0.0250	0.0087	0	0	-100	100	08/30/2024
Arsenic		0.0250		< 0.0250	0.0087	0	0	-100	100	09/03/2024
Barium		0.0025		< 0.0025	0.0007	0	0	-100	100	09/03/2024
Barium		0.0025		< 0.0025	0.0007	0	0	-100	100	08/30/2024
Beryllium		0.0005		< 0.0005	0.0002	0	0	-100	100	09/03/2024
Boron		0.0200		< 0.0200	0.0090	0	0	-100	100	08/30/2024
Boron		0.0200		< 0.0200	0.0090	0	0	-100	100	09/03/2024
Cadmium		0.0020		< 0.0020	0.0005	0	0	-100	100	09/03/2024
Chromium		0.0050		< 0.0050	0.0028	0	0	-100	100	09/03/2024
Chromium		0.0050		< 0.0050	0.0028	0	0	-100	100	08/30/2024
Cobalt		0.0050		< 0.0050	0.0020	0	0	-100	100	09/03/2024
Cobalt		0.0050		< 0.0050	0.0020	0	0	-100	100	08/30/2024
Copper		0.0050		< 0.0050	0.0013	0	0	-100	100	09/03/2024
Copper		0.0050		< 0.0050	0.0013	0	0	-100	100	08/30/2024
Iron		0.0400		< 0.0400	0.0200	0	0	-100	100	08/30/2024
Iron		0.0400		< 0.0400	0.0200	0	0	-100	100	09/03/2024
Lead		0.0150		< 0.0150	0.0014	0	0	-100	100	09/03/2024
Lead		0.0150		< 0.0150	0.0014	0	0	-100	100	08/30/2024
Manganese		0.0070		< 0.0070	0.0025	0	0	-100	100	09/03/2024
Manganese		0.0070		< 0.0070	0.0025	0	0	-100	100	08/30/2024
Nickel		0.0050		< 0.0050	0.0016	0	0	-100	100	09/03/2024
Selenium		0.0400		< 0.0400	0.0170	0	0	-100	100	09/03/2024
Selenium		0.0400		< 0.0400	0.0170	0	0	-100	100	08/30/2024
Silver		0.0070		< 0.0070	0.0027	0	0	-100	100	08/30/2024
Silver		0.0070		< 0.0070	0.0027	0	0	-100	100	09/03/2024
Thallium		0.0500		< 0.0500	0.0111	0	0	-100	100	08/30/2024
Thallium		0.0500		< 0.0500	0.0111	0	0	-100	100	09/03/2024
Vanadium		0.0100		< 0.0100	0.0009	0	0	-100	100	09/03/2024
Vanadium		0.0100		< 0.0100	0.0009	0	0	-100	100	08/30/2024
Zinc		0.0100		< 0.0100	0.0050	0	0	-100	100	09/03/2024
Zinc		0.0100		< 0.0100	0.0050	0	0	-100	100	08/30/2024



Quality Control Results

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

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24080263

Client Project: Meredosia GW Monitoring Q3 2024

Report Date: 09-Sep-24

SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)

Batch 227702 SampType: LCS Units mg/L

SampID: LCS-227702

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		0.0500		0.471	0.5000	0	94.2	85	115	09/03/2024
Antimony		0.0500		0.503	0.5000	0	100.6	85	115	08/30/2024
Arsenic		0.0250		0.460	0.5000	0	92.0	85	115	09/03/2024
Arsenic		0.0250		0.513	0.5000	0	102.5	85	115	08/30/2024
Barium		0.0025		1.87	2.000	0	93.7	85	115	09/03/2024
Barium		0.0025		2.13	2.000	0	106.5	85	115	08/30/2024
Beryllium		0.0005		0.0515	0.0500	0	103.0	85	115	09/03/2024
Boron		0.0200		0.490	0.5000	0	98.0	85	115	08/30/2024
Boron		0.0200		0.448	0.5000	0	89.6	85	115	09/03/2024
Cadmium		0.0020		0.0469	0.0500	0	93.8	85	115	09/03/2024
Chromium		0.0050		0.190	0.2000	0	94.8	85	115	09/03/2024
Chromium		0.0050		0.213	0.2000	0	106.6	85	115	08/30/2024
Cobalt		0.0050		0.471	0.5000	0	94.2	85	115	09/03/2024
Cobalt		0.0050		0.529	0.5000	0	105.9	85	115	08/30/2024
Copper		0.0050		0.231	0.2500	0	92.6	85	115	09/03/2024
Copper		0.0050		0.252	0.2500	0	101.0	85	115	08/30/2024
Iron		0.0400		1.86	2.000	0	93.0	85	115	09/03/2024
Iron		0.0400		2.15	2.000	0	107.5	85	115	08/30/2024
Lead		0.0150		0.465	0.5000	0	93.0	85	115	09/03/2024
Lead		0.0150		0.523	0.5000	0	104.6	85	115	08/30/2024
Manganese		0.0070		0.462	0.5000	0	92.4	85	115	09/03/2024
Manganese		0.0070		0.520	0.5000	0	104.0	85	115	08/30/2024
Nickel		0.0050		0.471	0.5000	0	94.3	85	115	09/03/2024
Selenium		0.0400		0.484	0.5000	0	96.8	85	115	08/30/2024
Selenium		0.0400		0.454	0.5000	0	90.8	85	115	09/03/2024
Silver		0.0070		0.0475	0.0500	0	95.0	85	115	09/03/2024
Silver		0.0070		0.0511	0.0500	0	102.2	85	115	08/30/2024
Thallium		0.0500		0.225	0.2500	0	90.2	85	115	09/03/2024
Thallium		0.0500		0.254	0.2500	0	101.4	85	115	08/30/2024
Vanadium		0.0100		0.535	0.5000	0	107.0	85	115	08/30/2024
Vanadium		0.0100		0.479	0.5000	0	95.8	85	115	09/03/2024
Zinc		0.0100		0.466	0.5000	0	93.1	85	115	09/03/2024
Zinc		0.0100		0.518	0.5000	0	103.6	85	115	08/30/2024



Quality Control Results

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Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24080263

Client Project: Meredosia GW Monitoring Q3 2024

Report Date: 09-Sep-24

SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)

Batch 227733 SampType: MBLK Units mg/L

SampID: MBLK-227733

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Barium		0.0025		< 0.0025	0.0007	0	0	-100	100	09/03/2024
Beryllium		0.0005		< 0.0005	0.0002	0	0	-100	100	09/03/2024
Boron		0.0200		< 0.0200	0.0090	0	0	-100	100	09/03/2024
Cadmium		0.0020		< 0.0020	0.0005	0	0	-100	100	09/03/2024
Chromium		0.0050		< 0.0050	0.0028	0	0	-100	100	09/03/2024
Cobalt		0.0050		< 0.0050	0.0020	0	0	-100	100	09/03/2024
Copper		0.0050		< 0.0050	0.0013	0	0	-100	100	09/03/2024
Iron		0.0400		< 0.0400	0.0200	0	0	-100	100	09/03/2024
Manganese		0.0070		< 0.0070	0.0025	0	0	-100	100	09/03/2024
Nickel		0.0050		< 0.0050	0.0016	0	0	-100	100	09/03/2024
Selenium		0.0400		< 0.0400	0.0170	0	0	-100	100	09/03/2024
Silver		0.0070		< 0.0070	0.0027	0	0	-100	100	09/03/2024
Vanadium		0.0100		< 0.0100	0.0009	0	0	-100	100	09/03/2024
Zinc		0.0100		< 0.0100	0.0050	0	0	-100	100	09/03/2024

Batch 227733 SampType: LCS Units mg/L

SampID: LCS-227733

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Barium		0.0025		1.83	2.000	0	91.6	85	115	09/03/2024
Beryllium		0.0005		0.0463	0.0500	0	92.6	85	115	09/03/2024
Boron		0.0200		0.442	0.5000	0	88.4	85	115	09/03/2024
Cadmium		0.0020		0.0470	0.0500	0	94.0	85	115	09/03/2024
Chromium		0.0050		0.187	0.2000	0	93.7	85	115	09/03/2024
Cobalt		0.0050		0.462	0.5000	0	92.5	85	115	09/03/2024
Copper		0.0050		0.228	0.2500	0	91.1	85	115	09/03/2024
Iron		0.0400		1.85	2.000	0	92.3	85	115	09/03/2024
Manganese		0.0070		0.456	0.5000	0	91.3	85	115	09/03/2024
Nickel		0.0050		0.470	0.5000	0	93.9	85	115	09/03/2024
Selenium		0.0400		0.441	0.5000	0	88.1	85	115	09/03/2024
Silver		0.0070		0.0438	0.0500	0	87.6	85	115	09/03/2024
Vanadium		0.0100		0.470	0.5000	0	94.0	85	115	09/03/2024
Zinc		0.0100		0.456	0.5000	0	91.3	85	115	09/03/2024



Quality Control Results

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

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24080263

Client Project: Meredosia GW Monitoring Q3 2024

Report Date: 09-Sep-24

SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)

Batch 227733 SampType: MS Units mg/L

SampleID: 24080263-014DMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Barium		0.0025		1.95	2.000	0.08100	93.5	75	125	09/03/2024
Beryllium		0.0005		0.0471	0.0500	0	94.2	75	125	09/03/2024
Boron		0.0200		0.528	0.5000	0.07780	90.1	75	125	09/03/2024
Cadmium		0.0020		0.0472	0.0500	0	94.4	75	125	09/03/2024
Chromium		0.0050		0.191	0.2000	0	95.4	75	125	09/03/2024
Cobalt		0.0050		0.468	0.5000	0	93.6	75	125	09/03/2024
Copper		0.0050		0.236	0.2500	0	94.2	75	125	09/03/2024
Iron		0.0400		1.86	2.000	0	93.0	75	125	09/03/2024
Manganese		0.0070		1.93	0.5000	1.455	95.0	75	125	09/03/2024
Nickel		0.0050		0.482	0.5000	0.005900	95.3	75	125	09/03/2024
Selenium		0.0400		0.461	0.5000	0	92.3	75	125	09/03/2024
Silver		0.0070		0.0453	0.0500	0	90.6	75	125	09/03/2024
Vanadium		0.0100		0.484	0.5000	0	96.8	75	125	09/03/2024
Zinc		0.0100		0.468	0.5000	0	93.7	75	125	09/03/2024

Batch 227733 SampType: MSD Units mg/L

RPD Limit 20

SampleID: 24080263-014DMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Barium		0.0025		1.90	2.000	0.08100	91.2	1.952	2.43	09/03/2024
Beryllium		0.0005		0.0459	0.0500	0	91.8	0.04710	2.58	09/03/2024
Boron		0.0200		0.517	0.5000	0.07780	87.8	0.5285	2.26	09/03/2024
Cadmium		0.0020		0.0461	0.0500	0	92.2	0.04720	2.36	09/03/2024
Chromium		0.0050		0.186	0.2000	0	93.0	0.1908	2.55	09/03/2024
Cobalt		0.0050		0.455	0.5000	0	91.0	0.4682	2.84	09/03/2024
Copper		0.0050		0.232	0.2500	0	92.8	0.2356	1.54	09/03/2024
Iron		0.0400		1.82	2.000	0	91.0	1.860	2.22	09/03/2024
Manganese		0.0070		1.91	0.5000	1.455	90.5	1.930	1.19	09/03/2024
Nickel		0.0050		0.474	0.5000	0.005900	93.6	0.4823	1.80	09/03/2024
Selenium		0.0400		0.454	0.5000	0	90.8	0.4614	1.62	09/03/2024
Silver		0.0070		0.0446	0.0500	0	89.2	0.04530	1.56	09/03/2024
Vanadium		0.0100		0.473	0.5000	0	94.5	0.4841	2.38	09/03/2024
Zinc		0.0100		0.518	0.5000	0	103.7	0.4684	10.13	09/03/2024



Quality Control Results

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

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24080263

Client Project: Meredosia GW Monitoring Q3 2024

Report Date: 09-Sep-24

SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)

Batch 227733 SampType: MS Units mg/L

SampID: 24082213-001CMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Iron		0.0400		2.06	2.000	0.1542	95.3	75	125	09/03/2024

Batch 227733 SampType: MSD Units mg/L

RPD Limit 20

SampID: 24082213-001CMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Iron		0.0400		2.06	2.000	0.1542	95.3	2.060	0.00	09/03/2024

Batch 227786 SampType: MBLK Units mg/L

SampID: MBLK-227786

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Barium		0.0025		< 0.0025	0.0007	0	0	-100	100	08/30/2024
Beryllium		0.0005		< 0.0005	0.0002	0	0	-100	100	08/30/2024
Boron		0.0200		< 0.0200	0.0090	0	0	-100	100	08/30/2024
Cadmium		0.0020		< 0.0020	0.0005	0	0	-100	100	08/30/2024
Chromium		0.0050		< 0.0050	0.0028	0	0	-100	100	08/30/2024
Cobalt		0.0050		< 0.0050	0.0020	0	0	-100	100	08/30/2024
Copper		0.0050		< 0.0050	0.0013	0	0	-100	100	08/30/2024
Iron		0.0400		< 0.0400	0.0200	0	0	-100	100	08/30/2024
Manganese		0.0070		< 0.0070	0.0025	0	0	-100	100	08/30/2024
Nickel		0.0050		< 0.0050	0.0016	0	0	-100	100	08/30/2024
Selenium		0.0400		< 0.0400	0.0170	0	0	-100	100	08/30/2024
Silver		0.0070		< 0.0070	0.0027	0	0	-100	100	08/30/2024
Thallium		0.0500		< 0.0500	0.0111	0	0	-100	100	08/30/2024
Vanadium		0.0100		< 0.0100	0.0009	0	0	-100	100	08/30/2024
Zinc		0.0100		< 0.0100	0.0050	0	0	-100	100	08/30/2024



Quality Control Results

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

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24080263

Client Project: Meredosia GW Monitoring Q3 2024

Report Date: 09-Sep-24

SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)

Batch 227786 SampType: LCS Units mg/L

SampID: LCS-227786

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Barium		0.0025		1.98	2.000	0	98.8	85	115	08/30/2024
Beryllium		0.0005		0.0494	0.0500	0	98.8	85	115	08/30/2024
Boron		0.0200		0.491	0.5000	0	98.2	85	115	08/30/2024
Cadmium		0.0020		0.0487	0.0500	0	97.4	85	115	08/30/2024
Chromium		0.0050		0.198	0.2000	0	99.1	85	115	08/30/2024
Cobalt		0.0050		0.509	0.5000	0	101.8	85	115	08/30/2024
Copper		0.0050		0.254	0.2500	0	101.5	85	115	08/30/2024
Iron		0.0400		1.96	2.000	0	97.8	85	115	08/30/2024
Manganese		0.0070		0.487	0.5000	0	97.4	85	115	08/30/2024
Nickel		0.0050		0.502	0.5000	0	100.3	85	115	08/30/2024
Selenium		0.0400		0.497	0.5000	0	99.3	85	115	08/30/2024
Silver		0.0070		0.0482	0.0500	0	96.4	85	115	08/30/2024
Thallium		0.0500		0.240	0.2500	0	96.1	85	115	08/30/2024
Vanadium		0.0100		0.508	0.5000	0	101.6	85	115	08/30/2024
Zinc		0.0100		0.498	0.5000	0	99.5	85	115	08/30/2024

Batch 227786 SampType: MS Units mg/L

SampID: 24082355-003BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Barium		0.0250		2.63	2.000	0.5060	106.0	75	125	09/06/2024
Boron		2.00	S	666	0.5000	670.0	-738.0	75	125	09/03/2024
Iron		2.00	S	< 2.00	2.000	0	0	75	125	09/05/2024
Manganese		0.0700	S	84.8	0.5000	87.06	-444.6	75	125	09/03/2024

Batch 227786 SampType: MSD Units mg/L

RPD Limit 20

SampID: 24082355-003BMDS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Barium		0.0250		2.66	2.000	0.5060	107.6	2.626	1.21	09/06/2024
Boron		2.00	S	660	0.5000	670.0	-2034	666.3	0.98	09/03/2024
Iron		2.00	S	< 2.00	2.000	0	0	0	0.00	09/05/2024
Manganese		0.0700	S	86.0	0.5000	87.06	-214.4	84.83	1.35	09/03/2024



Quality Control Results

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

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24080263

Client Project: Meredosia GW Monitoring Q3 2024

Report Date: 09-Sep-24

SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 227662 SampType: MBLK Units mg/L

SampID: MBLK-227662

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		0.0500		< 0.0500	0.0068	0	0	-100	100	09/03/2024
Arsenic		0.0250		< 0.0250	0.0087	0	0	-100	100	09/03/2024
Barium		0.0025		< 0.0025	0.0007	0	0	-100	100	08/29/2024
Barium		0.0025		< 0.0025	0.0007	0	0	-100	100	09/03/2024
Beryllium		0.0005		< 0.0005	0.0002	0	0	-100	100	08/29/2024
Beryllium		0.0005		< 0.0005	0.0002	0	0	-100	100	09/03/2024
Boron		0.0200		< 0.0200	0.0090	0	0	-100	100	09/03/2024
Boron		0.0200		< 0.0200	0.0090	0	0	-100	100	08/29/2024
Cadmium		0.0020		< 0.0020	0.0005	0	0	-100	100	09/03/2024
Cadmium		0.0020		< 0.0020	0.0005	0	0	-100	100	08/29/2024
Chromium		0.0050		< 0.0050	0.0028	0	0	-100	100	08/29/2024
Chromium		0.0050		< 0.0050	0.0028	0	0	-100	100	09/03/2024
Cobalt		0.0050		< 0.0050	0.0020	0	0	-100	100	09/03/2024
Cobalt		0.0050		< 0.0050	0.0020	0	0	-100	100	08/29/2024
Copper		0.0050		< 0.0050	0.0013	0	0	-100	100	08/29/2024
Copper		0.0050		< 0.0050	0.0013	0	0	-100	100	09/03/2024
Iron		0.0400		< 0.0400	0.0200	0	0	-100	100	09/03/2024
Iron		0.0400		< 0.0400	0.0200	0	0	-100	100	08/29/2024
Lead		0.0150		< 0.0150	0.0040	0	0	-100	100	09/03/2024
Manganese		0.0070		< 0.0070	0.0025	0	0	-100	100	09/03/2024
Manganese		0.0070		< 0.0070	0.0025	0	0	-100	100	08/29/2024
Nickel		0.0050		< 0.0050	0.0016	0	0	-100	100	08/29/2024
Nickel		0.0050		< 0.0050	0.0016	0	0	-100	100	09/03/2024
Selenium		0.0400		< 0.0400	0.0170	0	0	-100	100	08/29/2024
Selenium		0.0400		< 0.0400	0.0170	0	0	-100	100	09/03/2024
Silver		0.0070		< 0.0070	0.0027	0	0	-100	100	09/03/2024
Silver		0.0070		< 0.0070	0.0027	0	0	-100	100	08/29/2024
Thallium		0.0500		< 0.0500	0.0111	0	0	-100	100	09/03/2024
Vanadium		0.0100		< 0.0100	0.0009	0	0	-100	100	08/29/2024
Vanadium		0.0100		< 0.0100	0.0009	0	0	-100	100	09/03/2024
Zinc		0.0100		< 0.0100	0.0050	0	0	-100	100	09/03/2024
Zinc		0.0100		< 0.0100	0.0050	0	0	-100	100	08/29/2024



Quality Control Results

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

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24080263

Client Project: Meredosia GW Monitoring Q3 2024

Report Date: 09-Sep-24

SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 227662 SampType: LCS Units mg/L

SampID: LCS-227662

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		0.0500		0.511	0.5000	0	102.3	85	115	09/03/2024
Arsenic		0.0250		0.490	0.5000	0	97.9	85	115	09/03/2024
Barium		0.0025		2.04	2.000	0	102.0	85	115	09/03/2024
Barium		0.0025		2.14	2.000	0	107.0	85	115	08/29/2024
Beryllium		0.0005		0.0536	0.0500	0	107.2	85	115	08/29/2024
Beryllium		0.0005		0.0564	0.0500	0	112.8	85	115	09/03/2024
Boron		0.0200		0.522	0.5000	0	104.4	85	115	08/29/2024
Boron		0.0200		0.483	0.5000	0	96.6	85	115	09/03/2024
Cadmium		0.0020		0.0493	0.0500	0	98.6	85	115	09/03/2024
Cadmium		0.0020		0.0514	0.0500	0	102.8	85	115	08/29/2024
Chromium		0.0050		0.202	0.2000	0	101.0	85	115	09/03/2024
Chromium		0.0050		0.216	0.2000	0	108.2	85	115	08/29/2024
Cobalt		0.0050		0.502	0.5000	0	100.5	85	115	09/03/2024
Cobalt		0.0050		0.541	0.5000	0	108.2	85	115	08/29/2024
Copper		0.0050		0.247	0.2500	0	98.8	85	115	09/03/2024
Copper		0.0050		0.273	0.2500	0	109.1	85	115	08/29/2024
Iron		0.0400		2.08	2.000	0	104.0	85	115	09/03/2024
Iron		0.0400		2.20	2.000	0	110.0	85	115	08/29/2024
Lead		0.0150		0.493	0.5000	0	98.6	85	115	09/03/2024
Manganese		0.0070		0.500	0.5000	0	100.0	85	115	09/03/2024
Manganese		0.0070		0.536	0.5000	0	107.2	85	115	08/29/2024
Nickel		0.0050		0.502	0.5000	0	100.3	85	115	09/03/2024
Nickel		0.0050		0.531	0.5000	0	106.3	85	115	08/29/2024
Selenium		0.0400		0.488	0.5000	0	97.7	85	115	09/03/2024
Selenium		0.0400		0.512	0.5000	0	102.3	85	115	08/29/2024
Silver		0.0070		0.0505	0.0500	0	101.0	85	115	09/03/2024
Silver		0.0070		0.0547	0.0500	0	109.4	85	115	08/29/2024
Thallium		0.0500		0.242	0.2500	0	96.8	85	115	09/03/2024
Vanadium		0.0100		0.545	0.5000	0	108.9	85	115	08/29/2024
Vanadium		0.0100		0.509	0.5000	0	101.8	85	115	09/03/2024
Zinc		0.0100		0.525	0.5000	0	104.9	85	115	08/29/2024
Zinc		0.0100		0.495	0.5000	0	99.1	85	115	09/03/2024



Quality Control Results

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

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24080263

Client Project: Meredosia GW Monitoring Q3 2024

Report Date: 09-Sep-24

SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 227662		SampType: MS		Units mg/L							Date Analyzed
SampID: 24082072-005BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Boron		0.0200		1.92	0.5000	1.367	110.0	75	125	08/30/2024	

Batch 227662		SampType: MSD		Units mg/L							RPD Limit 20	Date Analyzed
SampID: 24082072-005BMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Boron		0.0200		1.99	0.5000	1.367	124.4	1.917	3.67	08/30/2024		

Batch 227726		SampType: MBLK		Units mg/L							Date Analyzed
SampID: MBLK-227726											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Antimony		0.0500		< 0.0500	0.0068	0	0	-100	100	08/30/2024	
Arsenic		0.0250		< 0.0250	0.0087	0	0	-100	100	08/30/2024	
Barium		0.0025		< 0.0025	0.0007	0	0	-100	100	08/30/2024	
Beryllium		0.0005		< 0.0005	0.0002	0	0	-100	100	08/30/2024	
Boron		0.0200		< 0.0200	0.0090	0	0	-100	100	08/30/2024	
Cadmium		0.0020		< 0.0020	0.0005	0	0	-100	100	08/30/2024	
Chromium		0.0050		< 0.0050	0.0028	0	0	-100	100	08/30/2024	
Cobalt		0.0050		< 0.0050	0.0020	0	0	-100	100	08/30/2024	
Copper		0.0050		< 0.0050	0.0013	0	0	-100	100	08/30/2024	
Iron		0.0400		< 0.0400	0.0200	0	0	-100	100	08/30/2024	
Lead		0.0150		< 0.0150	0.0040	0	0	-100	100	08/30/2024	
Manganese		0.0070		< 0.0070	0.0025	0	0	-100	100	08/30/2024	
Nickel		0.0050		< 0.0050	0.0016	0	0	-100	100	08/30/2024	
Selenium		0.0400		< 0.0400	0.0170	0	0	-100	100	08/30/2024	
Silver		0.0070		< 0.0070	0.0027	0	0	-100	100	08/30/2024	
Thallium		0.0500		< 0.0500	0.0111	0	0	-100	100	08/30/2024	
Vanadium		0.0100		< 0.0100	0.0009	0	0	-100	100	08/30/2024	
Zinc		0.0100		< 0.0100	0.0050	0	0	-100	100	08/30/2024	



Quality Control Results

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

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24080263

Client Project: Meredosia GW Monitoring Q3 2024

Report Date: 09-Sep-24

SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 227726 SampType: LCS Units mg/L

SampID: LCS-227726

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		0.0500		0.548	0.5000	0	109.7	85	115	08/30/2024
Arsenic		0.0250		0.547	0.5000	0	109.5	85	115	08/30/2024
Barium		0.0025		2.08	2.000	0	104.0	85	115	08/30/2024
Beryllium		0.0005		0.0528	0.0500	0	105.6	85	115	08/30/2024
Boron		0.0200		0.521	0.5000	0	104.3	85	115	08/30/2024
Cadmium		0.0020		0.0525	0.0500	0	105.0	85	115	08/30/2024
Chromium		0.0050		0.208	0.2000	0	104.2	85	115	08/30/2024
Cobalt		0.0050		0.535	0.5000	0	107.1	85	115	08/30/2024
Copper		0.0050		0.264	0.2500	0	105.7	85	115	08/30/2024
Iron		0.0400		2.17	2.000	0	108.5	85	115	08/30/2024
Lead		0.0150		0.520	0.5000	0	104.0	85	115	08/30/2024
Manganese		0.0070		0.512	0.5000	0	102.3	85	115	08/30/2024
Nickel		0.0050		0.531	0.5000	0	106.1	85	115	08/30/2024
Selenium		0.0400		0.542	0.5000	0	108.4	85	115	08/30/2024
Silver		0.0070		0.0514	0.0500	0	102.8	85	115	08/30/2024
Thallium		0.0500		0.256	0.2500	0	102.4	85	115	08/30/2024
Vanadium		0.0100		0.536	0.5000	0	107.1	85	115	08/30/2024
Zinc		0.0100		0.528	0.5000	0	105.6	85	115	08/30/2024

Batch 227726 SampType: MS Units mg/L

SampID: 24082257-001AMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Copper		0.0050		0.263	0.2500	0	105.2	75	125	08/30/2024

Batch 227726 SampType: MSD Units mg/L

SampID: 24082257-001AMSD

RPD Limit 20

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Copper		0.0050		0.265	0.2500	0	106.0	0.2630	0.72	08/30/2024



Quality Control Results

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

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24080263

Client Project: Meredosia GW Monitoring Q3 2024

Report Date: 09-Sep-24

SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 227779 **SampType:** MBLK **Units** mg/L

SampID: MBLK-227779

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		0.0500		< 0.0500	0.0068	0	0	-100	100	08/30/2024
Arsenic		0.0250		< 0.0250	0.0087	0	0	-100	100	08/30/2024
Barium		0.0025		< 0.0025	0.0007	0	0	-100	100	08/30/2024
Beryllium		0.0005		< 0.0005	0.0002	0	0	-100	100	08/30/2024
Boron		0.0200		< 0.0200	0.0090	0	0	-100	100	08/30/2024
Cadmium		0.0020		< 0.0020	0.0005	0	0	-100	100	08/30/2024
Chromium		0.0050		< 0.0050	0.0028	0	0	-100	100	08/30/2024
Cobalt		0.0050		< 0.0050	0.0020	0	0	-100	100	08/30/2024
Copper		0.0050		< 0.0050	0.0013	0	0	-100	100	08/30/2024
Iron		0.0400		< 0.0400	0.0200	0	0	-100	100	08/30/2024
Lead		0.0150		< 0.0150	0.0040	0	0	-100	100	08/30/2024
Manganese		0.0070		< 0.0070	0.0025	0	0	-100	100	08/30/2024
Nickel		0.0050		< 0.0050	0.0016	0	0	-100	100	08/30/2024
Selenium		0.0400		< 0.0400	0.0170	0	0	-100	100	08/30/2024
Silver		0.0070		< 0.0070	0.0027	0	0	-100	100	08/30/2024
Thallium		0.0500		< 0.0500	0.0111	0	0	-100	100	08/30/2024
Vanadium		0.0100		< 0.0100	0.0009	0	0	-100	100	08/30/2024
Zinc		0.0100		< 0.0100	0.0050	0	0	-100	100	08/30/2024



Quality Control Results

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

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24080263

Client Project: Meredosia GW Monitoring Q3 2024

Report Date: 09-Sep-24

SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 227779 SampType: LCS Units mg/L

SampID: LCS-227779

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		0.0500		0.550	0.5000	0	110.0	85	115	08/30/2024
Arsenic		0.0250		0.546	0.5000	0	109.1	85	115	08/30/2024
Barium		0.0025		2.05	2.000	0	102.5	85	115	08/30/2024
Beryllium		0.0005		0.0534	0.0500	0	106.8	85	115	08/30/2024
Boron		0.0200		0.534	0.5000	0	106.9	85	115	08/30/2024
Cadmium		0.0020		0.0506	0.0500	0	101.2	85	115	08/30/2024
Chromium		0.0050		0.208	0.2000	0	104.0	85	115	08/30/2024
Cobalt		0.0050		0.542	0.5000	0	108.4	85	115	08/30/2024
Copper		0.0050		0.271	0.2500	0	108.3	85	115	08/30/2024
Iron		0.0400		2.16	2.000	0	108.0	85	115	08/30/2024
Lead		0.0150		0.519	0.5000	0	103.8	85	115	08/30/2024
Manganese		0.0070		0.516	0.5000	0	103.2	85	115	08/30/2024
Nickel		0.0050		0.528	0.5000	0	105.6	85	115	08/30/2024
Selenium		0.0400		0.538	0.5000	0	107.6	85	115	08/30/2024
Silver		0.0070		0.0514	0.0500	0	102.8	85	115	08/30/2024
Thallium		0.0500		0.253	0.2500	0	101.0	85	115	08/30/2024
Vanadium		0.0100		0.538	0.5000	0	107.5	85	115	08/30/2024
Zinc		0.0100		0.529	0.5000	0	105.7	85	115	08/30/2024

Batch 227779 SampType: MS Units mg/L

SampID: 24080263-001CMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Barium		0.0025		2.05	2.000	0.02220	101.4	75	125	08/30/2024
Beryllium		0.0005		0.0529	0.0500	0	105.8	75	125	08/30/2024
Boron		0.0200		0.586	0.5000	0.06490	104.3	75	125	08/30/2024
Cadmium		0.0020		0.0506	0.0500	0	101.2	75	125	08/30/2024
Chromium		0.0050		0.212	0.2000	0.003700	103.9	75	125	08/30/2024
Cobalt		0.0050		0.538	0.5000	0.006600	106.3	75	125	08/30/2024
Copper		0.0050		0.278	0.2500	0.006300	108.5	75	125	08/30/2024
Iron		0.0400		4.72	2.000	2.630	104.5	75	125	08/30/2024
Manganese		0.0070		0.895	0.5000	0.3887	101.3	75	125	08/30/2024
Nickel		0.0050		0.531	0.5000	0.009600	104.2	75	125	08/30/2024
Selenium		0.0400		0.541	0.5000	0	108.1	75	125	08/30/2024
Silver		0.0070		0.0520	0.0500	0	104.0	75	125	08/30/2024
Vanadium		0.0100		0.544	0.5000	0.004600	107.8	75	125	08/30/2024
Zinc		0.0100		0.542	0.5000	0.01030	106.4	75	125	08/30/2024



Quality Control Results

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

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24080263

Client Project: Meredosia GW Monitoring Q3 2024

Report Date: 09-Sep-24

SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 227779		SampType: MSD		Units mg/L				RPD Limit 20			Date Analyzed
SampID: 24080263-001CMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD		
Barium		0.0025		2.04	2.000	0.02220	100.9	2.050	0.49	08/30/2024	
Beryllium		0.0005		0.0529	0.0500	0	105.8	0.05290	0.00	08/30/2024	
Boron		0.0200		0.586	0.5000	0.06490	104.1	0.5864	0.14	08/30/2024	
Cadmium		0.0020		0.0503	0.0500	0	100.6	0.05060	0.59	08/30/2024	
Chromium		0.0050		0.210	0.2000	0.003700	103.2	0.2115	0.66	08/30/2024	
Cobalt		0.0050		0.536	0.5000	0.006600	105.8	0.5379	0.39	08/30/2024	
Copper		0.0050		0.276	0.2500	0.006300	108.0	0.2775	0.47	08/30/2024	
Iron		0.0400		4.39	2.000	2.630	88.0	4.720	7.24	08/30/2024	
Manganese		0.0070		0.895	0.5000	0.3887	101.2	0.8952	0.06	08/30/2024	
Nickel		0.0050		0.530	0.5000	0.009600	104.1	0.5308	0.13	08/30/2024	
Selenium		0.0400		0.540	0.5000	0	108.0	0.5407	0.09	08/30/2024	
Silver		0.0070		0.0516	0.0500	0	103.2	0.05200	0.77	08/30/2024	
Vanadium		0.0100		0.542	0.5000	0.004600	107.5	0.5435	0.24	08/30/2024	
Zinc		0.0100		0.538	0.5000	0.01030	105.5	0.5422	0.80	08/30/2024	



Quality Control Results

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

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24080263

Client Project: Meredosia GW Monitoring Q3 2024

Report Date: 09-Sep-24

SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 227783 SampType: MBLK Units mg/L

SampID: MBLK-227783

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		0.0500		< 0.0500	0.0068	0	0	-100	100	09/03/2024
Antimony		0.0500		< 0.0500	0.0068	0	0	-100	100	08/30/2024
Arsenic		0.0250		< 0.0250	0.0087	0	0	-100	100	08/30/2024
Arsenic		0.0250		< 0.0250	0.0087	0	0	-100	100	09/03/2024
Barium		0.0025		< 0.0025	0.0007	0	0	-100	100	08/30/2024
Barium		0.0025		< 0.0025	0.0007	0	0	-100	100	09/05/2024
Barium		0.0025		< 0.0025	0.0007	0	0	-100	100	09/03/2024
Beryllium		0.0005		< 0.0005	0.0002	0	0	-100	100	09/03/2024
Beryllium		0.0005		< 0.0005	0.0002	0	0	-100	100	09/05/2024
Boron		0.0200		< 0.0200	0.0090	0	0	-100	100	09/05/2024
Boron		0.0200		< 0.0200	0.0090	0	0	-100	100	08/30/2024
Boron		0.0200		< 0.0200	0.0090	0	0	-100	100	09/03/2024
Cadmium		0.0020		< 0.0020	0.0005	0	0	-100	100	09/05/2024
Cadmium		0.0020		< 0.0020	0.0005	0	0	-100	100	09/03/2024
Chromium		0.0050		< 0.0050	0.0028	0	0	-100	100	09/03/2024
Chromium		0.0050		< 0.0050	0.0028	0	0	-100	100	09/05/2024
Cobalt		0.0050		< 0.0050	0.0020	0	0	-100	100	09/05/2024
Cobalt		0.0050		< 0.0050	0.0020	0	0	-100	100	09/03/2024
Copper		0.0050		< 0.0050	0.0013	0	0	-100	100	08/30/2024
Copper		0.0050		< 0.0050	0.0013	0	0	-100	100	09/05/2024
Copper		0.0050		< 0.0050	0.0013	0	0	-100	100	09/03/2024
Iron		0.0400		< 0.0400	0.0200	0	0	-100	100	09/05/2024
Iron		0.0400		< 0.0400	0.0200	0	0	-100	100	08/30/2024
Iron		0.0400		< 0.0400	0.0200	0	0	-100	100	09/03/2024
Lead		0.0150		< 0.0150	0.0040	0	0	-100	100	09/03/2024
Manganese		0.0070		< 0.0070	0.0025	0	0	-100	100	09/05/2024
Manganese		0.0070		< 0.0070	0.0025	0	0	-100	100	08/30/2024
Manganese		0.0070		< 0.0070	0.0025	0	0	-100	100	09/03/2024
Nickel		0.0050		< 0.0050	0.0016	0	0	-100	100	09/05/2024
Nickel		0.0050		< 0.0050	0.0016	0	0	-100	100	09/03/2024
Selenium		0.0400		< 0.0400	0.0170	0	0	-100	100	09/05/2024
Selenium		0.0400		< 0.0400	0.0170	0	0	-100	100	08/30/2024
Selenium		0.0400		< 0.0400	0.0170	0	0	-100	100	09/03/2024
Silver		0.0070		< 0.0070	0.0027	0	0	-100	100	08/30/2024
Silver		0.0070		< 0.0070	0.0027	0	0	-100	100	09/05/2024
Silver		0.0070		< 0.0070	0.0027	0	0	-100	100	09/03/2024



Quality Control Results

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

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24080263

Client Project: Meredosia GW Monitoring Q3 2024

Report Date: 09-Sep-24

SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 227783 **SampType:** MBLK **Units** mg/L

SampID: MBLK-227783

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Thallium		0.0500		< 0.0500	0.0111	0	0	-100	100	09/03/2024
Thallium		0.0500		< 0.0500	0.0111	0	0	-100	100	08/30/2024
Vanadium		0.0100		< 0.0100	0.0009	0	0	-100	100	09/05/2024
Vanadium		0.0100		< 0.0100	0.0009	0	0	-100	100	09/03/2024
Zinc		0.0100		< 0.0100	0.0050	0	0	-100	100	08/30/2024
Zinc		0.0100		< 0.0100	0.0050	0	0	-100	100	09/05/2024
Zinc		0.0100		< 0.0100	0.0050	0	0	-100	100	09/03/2024



Quality Control Results

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

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24080263

Client Project: Meredosia GW Monitoring Q3 2024

Report Date: 09-Sep-24

SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 227783 SampType: LCS Units mg/L

SampID: LCS-227783

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		0.0500		0.507	0.5000	0	101.4	85	115	09/03/2024
Antimony		0.0500		0.541	0.5000	0	108.2	85	115	08/30/2024
Arsenic		0.0250		0.554	0.5000	0	110.9	85	115	08/30/2024
Arsenic		0.0250		0.500	0.5000	0	100.0	85	115	09/03/2024
Barium		0.0025		2.28	2.000	0	114.0	85	115	08/30/2024
Barium		0.0025		2.09	2.000	0	104.5	85	115	09/05/2024
Barium		0.0025		1.98	2.000	0	99.1	85	115	09/03/2024
Beryllium		0.0005		0.0559	0.0500	0	111.8	85	115	09/05/2024
Beryllium		0.0005		0.0557	0.0500	0	111.4	85	115	09/03/2024
Boron		0.0200		0.527	0.5000	0	105.4	85	115	08/30/2024
Boron		0.0200		0.506	0.5000	0	101.2	85	115	09/05/2024
Boron		0.0200		0.485	0.5000	0	97.0	85	115	09/03/2024
Cadmium		0.0020		0.0511	0.0500	0	102.2	85	115	09/05/2024
Cadmium		0.0020		0.0477	0.0500	0	95.4	85	115	09/03/2024
Chromium		0.0050		0.209	0.2000	0	104.4	85	115	09/05/2024
Chromium		0.0050		0.200	0.2000	0	100.2	85	115	09/03/2024
Cobalt		0.0050		0.522	0.5000	0	104.5	85	115	09/05/2024
Cobalt		0.0050		0.498	0.5000	0	99.6	85	115	09/03/2024
Copper		0.0050		0.258	0.2500	0	103.1	85	115	09/05/2024
Copper		0.0050		0.262	0.2500	0	105.0	85	115	08/30/2024
Copper		0.0050		0.246	0.2500	0	98.4	85	115	09/03/2024
Iron		0.0400		2.12	2.000	0	106.0	85	115	09/05/2024
Iron		0.0400		1.96	2.000	0	98.1	85	115	09/03/2024
Iron		0.0400		2.27	2.000	0	113.5	85	115	08/30/2024
Lead		0.0150		0.494	0.5000	0	98.8	85	115	09/03/2024
Manganese		0.0070		0.548	0.5000	0	109.5	85	115	08/30/2024
Manganese		0.0070		0.495	0.5000	0	99.0	85	115	09/03/2024
Manganese		0.0070		0.518	0.5000	0	103.7	85	115	09/05/2024
Nickel		0.0050		0.497	0.5000	0	99.4	85	115	09/03/2024
Nickel		0.0050		0.525	0.5000	0	104.9	85	115	09/05/2024
Selenium		0.0400		0.514	0.5000	0	102.8	85	115	09/05/2024
Selenium		0.0400		0.537	0.5000	0	107.4	85	115	08/30/2024
Selenium		0.0400		0.488	0.5000	0	97.6	85	115	09/03/2024
Silver		0.0070		0.0496	0.0500	0	99.2	85	115	09/03/2024
Silver		0.0070		0.0528	0.0500	0	105.6	85	115	09/05/2024
Silver		0.0070		0.0543	0.0500	0	108.6	85	115	08/30/2024



Quality Control Results

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

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24080263

Client Project: Meredosia GW Monitoring Q3 2024

Report Date: 09-Sep-24

SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 227783 SampType: LCS Units mg/L

SampID: LCS-227783

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Thallium		0.0500		0.273	0.2500	0	109.3	85	115	08/30/2024
Thallium		0.0500		0.234	0.2500	0	93.8	85	115	09/03/2024
Vanadium		0.0100		0.503	0.5000	0	100.6	85	115	09/03/2024
Vanadium		0.0100		0.526	0.5000	0	105.3	85	115	09/05/2024
Zinc		0.0100		0.493	0.5000	0	98.5	85	115	09/03/2024
Zinc		0.0100		0.558	0.5000	0	111.6	85	115	08/30/2024
Zinc		0.0100		0.525	0.5000	0	105.0	85	115	09/05/2024

Batch 227783 SampType: MS Units mg/L

SampID: 24081864-005BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Zinc		0.0100		1.97	1.000	0.8627	111.2	75	125	08/30/2024

Batch 227783 SampType: MSD Units mg/L

SampID: 24081864-005BMSD

RPD Limit 20

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Zinc		0.0100		1.90	1.000	0.8627	103.6	1.974	3.92	08/30/2024

Batch 227783 SampType: MS Units mg/L

SampID: 24082364-001BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Iron		0.0400		2.49	2.000	0.1135	118.6	75	125	08/30/2024
Zinc		0.0100		0.692	0.5000	0.09520	119.3	75	125	09/03/2024

Batch 227783 SampType: MSD Units mg/L

SampID: 24082364-001BMSD

RPD Limit 20

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Iron		0.0400		2.46	2.000	0.1135	117.4	2.485	0.99	08/30/2024
Zinc		0.0100		0.693	0.5000	0.09520	119.6	0.6917	0.25	09/03/2024



Quality Control Results

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

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24080263

Client Project: Meredosia GW Monitoring Q3 2024

Report Date: 09-Sep-24

SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

Batch 227702 SampType: MBLK Units mg/L

SampID: MBLK-227702

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		0.0010		< 0.0010	0.0004	0	0	-100	100	08/28/2024
Arsenic		0.0010		< 0.0010	0.0004	0	0	-100	100	08/28/2024
Lead		0.0010		< 0.0010	0.0006	0	0	-100	100	08/28/2024
Thallium		0.0020		< 0.0020	0.0010	0	0	-100	100	08/28/2024

Batch 227702 SampType: LCS Units mg/L

SampID: LCS-227702

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		0.0010		0.439	0.5000	0	87.8	80	120	08/28/2024
Arsenic		0.0010		0.511	0.5000	0	102.3	80	120	08/28/2024
Lead		0.0010		0.470	0.5000	0	94.1	80	120	08/28/2024
Thallium		0.0020		0.230	0.2500	0	91.9	80	120	08/28/2024

Batch 227733 SampType: MBLK Units mg/L

SampID: MBLK-227733

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		0.0010		< 0.0010	0.0004	0	0	-100	100	08/29/2024
Arsenic		0.0010		< 0.0010	0.0004	0	0	-100	100	08/29/2024
Lead		0.0010		< 0.0010	0.0006	0	0	-100	100	08/29/2024
Thallium		0.0020		< 0.0020	0.0010	0	0	-100	100	08/29/2024

Batch 227733 SampType: LCS Units mg/L

SampID: LCS-227733

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		0.0010		0.419	0.5000	0	83.9	80	120	08/29/2024
Arsenic		0.0010		0.483	0.5000	0	96.7	80	120	08/29/2024
Lead		0.0010		0.436	0.5000	0	87.2	80	120	08/29/2024
Thallium		0.0020		0.222	0.2500	0	88.7	80	120	08/30/2024

Batch 227733 SampType: MS Units mg/L

SampID: 24080263-014DMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		0.0010		0.429	0.5000	0	85.8	75	125	08/29/2024
Arsenic		0.0010		0.495	0.5000	0	99.0	75	125	08/29/2024
Lead		0.0010		0.471	0.5000	0	94.1	75	125	08/29/2024
Thallium		0.0020		0.250	0.2500	0	100.2	75	125	08/30/2024



Quality Control Results

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

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24080263

Client Project: Meredosia GW Monitoring Q3 2024

Report Date: 09-Sep-24

SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

Batch 227733		SampType: MSD		Units mg/L				RPD Limit 20			Date Analyzed
SampID: 24080263-014DMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Antimony		0.0010		0.449	0.5000	0	89.9	0.4288	4.68	08/29/2024	
Arsenic		0.0010		0.488	0.5000	0	97.5	0.4948	1.49	08/29/2024	
Lead		0.0010		0.466	0.5000	0	93.2	0.4707	0.99	08/29/2024	
Thallium		0.0020		0.246	0.2500	0	98.4	0.2504	1.82	08/30/2024	

Batch 227786		SampType: MBLK		Units mg/L				Date Analyzed		
SampID: MBLK-227786										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		0.0010		< 0.0010	0.0004	0	0	-100	100	08/29/2024
Arsenic		0.0010		< 0.0010	0.0004	0	0	-100	100	08/29/2024
Copper	*	0.0010		< 0.0010	0.0003	0	0	-100	100	08/29/2024
Lead		0.0010		< 0.0010	0.0006	0	0	-100	100	08/29/2024
Selenium		0.0010		< 0.0010	0.0006	0	0	-100	100	08/29/2024
Thallium		0.0020		< 0.0020	0.0010	0	0	-100	100	08/29/2024
Zinc		0.0150		< 0.0150	0.0059	0	0	-100	100	08/29/2024

Batch 227786		SampType: LCS		Units mg/L				Date Analyzed		
SampID: LCS-227786										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		0.0010		0.439	0.5000	0	87.7	85	115	08/29/2024
Arsenic		0.0010		0.489	0.5000	0	97.9	85	115	08/29/2024
Copper	*	0.0010		0.233	0.2500	0	93.1	85	115	08/29/2024
Lead		0.0010		0.465	0.5000	0	93.1	85	115	08/29/2024
Selenium		0.0010		0.472	0.5000	0	94.3	85	115	08/29/2024
Thallium		0.0020	S	0.297	0.2500	0	118.8	85	115	08/29/2024
Zinc		0.0150		0.460	0.5000	0	92.0	85	115	08/29/2024

Batch 227786		SampType: MS		Units mg/L				Date Analyzed		
SampID: 24082355-003BMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Selenium		0.0010		2.52	0.5000	2.078	88.2	75	125	09/03/2024

Batch 227786		SampType: MSD		Units mg/L				RPD Limit 20			Date Analyzed
SampID: 24082355-003BMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Selenium		0.0010		2.56	0.5000	2.078	96.2	2.519	1.58	09/03/2024	



Quality Control Results

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

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24080263

Client Project: Meredosia GW Monitoring Q3 2024

Report Date: 09-Sep-24

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 227662 SampType: MBLK Units mg/L

SampID: MBLK-227662

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		0.0010		< 0.0010	0.0004	0	0	-100	100	08/29/2024
Arsenic		0.0010		< 0.0010	0.0004	0	0	-100	100	08/29/2024
Lead		0.0010		< 0.0010	0.0006	0	0	-100	100	08/29/2024
Thallium		0.0020		< 0.0020	0.0010	0	0	-100	100	08/29/2024

Batch 227662 SampType: LCS Units mg/L

SampID: LCS-227662

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		0.0010		0.538	0.5000	0	107.6	85	115	08/29/2024
Arsenic		0.0010		0.523	0.5000	0	104.5	85	115	08/29/2024
Lead		0.0010		0.480	0.5000	0	96.0	85	115	08/29/2024
Thallium		0.0020		0.232	0.2500	0	93.0	85	115	08/29/2024

Batch 227662 SampType: MS Units mg/L

SampID: 24081864-001BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Lead		0.0010	E	0.634	0.5000	0	126.8	70	130	08/29/2024

Batch 227662 SampType: MSD Units mg/L

SampID: 24081864-001BMSD

RPD Limit 20

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Lead		0.0010	E	0.619	0.5000	0	123.7	0.6338	2.42	08/29/2024

Batch 227726 SampType: MBLK Units mg/L

SampID: MBLK-227726

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		0.0010	S	0.0016	0.0004	0	365.0	-100	100	09/03/2024
Arsenic		0.0010		< 0.0010	0.0004	0	0	-100	100	08/29/2024
Lead		0.0010		< 0.0010	0.0006	0	0	-100	100	08/29/2024
Thallium		0.0020		< 0.0020	0.0010	0	0	-100	100	08/30/2024

Batch 227726 SampType: LCS Units mg/L

SampID: LCS-227726

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Arsenic		0.0010		0.542	0.5000	0	108.5	80	120	08/29/2024
Lead		0.0010		0.483	0.5000	0	96.6	80	120	08/29/2024



Quality Control Results

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Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24080263

Client Project: Meredosia GW Monitoring Q3 2024

Report Date: 09-Sep-24

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 227779 SampType: MBLK Units mg/L

SampID: MBLK-227779

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		0.0010		< 0.0010	0.0004	0	0	-100	100	09/05/2024
Antimony		0.0010	S	0.0010	0.0004	0	229.5	-100	100	09/03/2024
Arsenic		0.0010		< 0.0010	0.0004	0	0	-100	100	09/03/2024
Lead		0.0010		< 0.0010	0.0006	0	0	-100	100	09/03/2024
Thallium		0.0020		< 0.0020	0.0010	0	0	-100	100	09/03/2024

Batch 227779 SampType: LCS Units mg/L

SampID: LCS-227779

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		0.0010	B	0.556	0.5000	0	111.2	80	120	09/03/2024
Arsenic		0.0010		0.528	0.5000	0	105.6	80	120	09/03/2024
Lead		0.0010		0.529	0.5000	0	105.7	80	120	09/03/2024
Thallium		0.0020		0.229	0.2500	0	91.6	80	120	09/03/2024

Batch 227779 SampType: MS Units mg/L

SampID: 24080263-001CMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		0.0010	B	0.550	0.5000	0	110.0	75	125	09/03/2024
Arsenic		0.0010		0.523	0.5000	0.001462	104.4	75	125	09/03/2024
Lead		0.0010		0.525	0.5000	0.003198	104.3	75	125	09/03/2024
Thallium		0.0020		0.234	0.2500	0	93.6	75	125	09/03/2024

Batch 227779 SampType: MSD Units mg/L

SampID: 24080263-001CMSD

RPD Limit 20

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Antimony		0.0010	B	0.538	0.5000	0	107.6	0.5499	2.18	09/03/2024
Arsenic		0.0010		0.513	0.5000	0.001462	102.3	0.5235	1.99	09/03/2024
Lead		0.0010		0.519	0.5000	0.003198	103.1	0.5247	1.11	09/03/2024
Thallium		0.0020		0.236	0.2500	0	94.5	0.2340	0.96	09/03/2024



Quality Control Results

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

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24080263

Client Project: Meredosia GW Monitoring Q3 2024

Report Date: 09-Sep-24

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 227779 SampType: MS Units mg/L										
SampID: 24081739-003BMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		0.0010	B	0.521	0.5000	0	104.2	75	125	09/04/2024
Arsenic		0.0010		0.508	0.5000	0.005520	100.5	75	125	09/04/2024
Lead		0.0010		0.486	0.5000	0.001155	97.0	75	125	09/04/2024
Thallium		0.0020		0.227	0.2500	0	90.9	75	125	09/04/2024

Batch 227779 SampType: MSD Units mg/L										
SampID: 24081739-003BMSD										
RPD Limit 20										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Antimony		0.0010	B	0.542	0.5000	0	108.5	0.5208	4.07	09/04/2024
Arsenic		0.0010		0.528	0.5000	0.005520	104.5	0.5082	3.80	09/04/2024
Lead		0.0010		0.474	0.5000	0.001155	94.6	0.4859	2.49	09/04/2024
Thallium		0.0020		0.229	0.2500	0	91.6	0.2273	0.73	09/04/2024

Batch 227783 SampType: MBLK Units mg/L										
SampID: MBLK-227783										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		0.0010	S	0.0010	0.0004	0	224.5	-100	100	09/03/2024
Antimony		0.0010		< 0.0010	0.0004	0	0	-100	100	09/05/2024
Arsenic		0.0010		< 0.0010	0.0004	0	0	-100	100	08/30/2024
Lead		0.0010		< 0.0010	0.0006	0	0	-100	100	09/03/2024
Thallium		0.0020		< 0.0020	0.0010	0	0	-100	100	09/03/2024

Batch 227783 SampType: LCS Units mg/L										
SampID: LCS-227783										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		0.0010	B	0.508	0.5000	0	101.6	85	115	09/03/2024
Arsenic		0.0010		0.506	0.5000	0	101.1	85	115	08/30/2024
Lead		0.0010		0.499	0.5000	0	99.8	85	115	09/03/2024
Thallium		0.0020		0.242	0.2500	0	96.7	85	115	09/03/2024

SW-846 7470A (TOTAL)

Batch 227737 SampType: MBLK Units mg/L										
SampID: MBLK-227737										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Mercury		0.00020		< 0.00020	0.0001	0	0	-100	100	08/29/2024



Quality Control Results

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

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24080263

Client Project: Meredosias GW Monitoring Q3 2024

Report Date: 09-Sep-24

SW-846 7470A (TOTAL)

Batch 227737		SampType: LCS		Units mg/L							
SampID: LCS-227737											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.00020	S	0.00576	0.0050	0	115.2	85	115	08/29/2024	

Batch 227737		SampType: MS		Units mg/L							
SampID: 24080263-003CMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.00020		0.00594	0.0050	0	118.8	75	125	08/29/2024	

Batch 227737		SampType: MSD		Units mg/L						RPD Limit 15		Date Analyzed
SampID: 24080263-003CMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Mercury		0.00020		0.00588	0.0050	0	117.7	0.005941	0.97	08/29/2024		

Batch 227737		SampType: MS		Units mg/L							
SampID: 24082065-004BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.00020		0.00592	0.0050	0	118.4	75	125	08/29/2024	

Batch 227737		SampType: MSD		Units mg/L						RPD Limit 15		Date Analyzed
SampID: 24082065-004BMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Mercury		0.00020		0.00589	0.0050	0	117.8	0.005920	0.49	08/29/2024		

Batch 227774		SampType: MBLK		Units mg/L							
SampID: MBLK-227774											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.00020		< 0.00020	0.0001	0	0	-100	100	08/30/2024	

Batch 227774		SampType: LCS		Units mg/L							
SampID: LCS-227774											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.00020		0.00518	0.0050	0	103.5	85	115	08/30/2024	

Batch 227774		SampType: MS		Units mg/L							
SampID: 24080263-002CMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.00020		0.00575	0.0050	0	115.0	75	125	08/30/2024	



Quality Control Results

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

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24080263

Client Project: Meredosia GW Monitoring Q3 2024

Report Date: 09-Sep-24

SW-846 7470A (TOTAL)

Batch 227774		SampType: MSD		Units mg/L				RPD Limit 15			Date Analyzed
SampID: 24080263-002CMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Mercury		0.00020		0.00561	0.0050	0	112.1	0.005748	2.49	08/30/2024	

Batch 227774		SampType: MS		Units mg/L				Low Limit	High Limit	Date Analyzed
SampID: 24080263-014CMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Mercury		0.00020		0.00565	0.0050	0	112.9	75	125	08/30/2024

Batch 227774		SampType: MSD		Units mg/L				RPD Limit 15			Date Analyzed
SampID: 24080263-014CMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Mercury		0.00020		0.00547	0.0050	0	109.3	0.005646	3.22	08/30/2024	



Receiving Check List

http://www.teklabinc.com/

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24080263

Client Project: Meredosia GW Monitoring Q3 2024

Report Date: 09-Sep-24

Carrier: Payton Yoch

Received By: PRS

Completed by:

Amber Dilallo

Reviewed by:

Ellie Hopkins

On:

26-Aug-24

Amber Dilallo

On:

28-Aug-24

Ellie Hopkins

Pages to follow: Chain of custody 6

Extra pages included 0

- Shipping container/cooler in good condition? Yes [checked] No [] Not Present [] Temp °C 10.1
Type of thermal preservation? None [] Ice [checked] Blue Ice [] Dry Ice []
Chain of custody present? Yes [checked] No []
Chain of custody signed when relinquished and received? Yes [checked] No []
Chain of custody agrees with sample labels? Yes [checked] No []
Samples in proper container/bottle? Yes [checked] No []
Sample containers intact? Yes [checked] No []
Sufficient sample volume for indicated test? Yes [checked] No []
All samples received within holding time? Yes [checked] No []
Reported field parameters measured: Field [checked] Lab [] NA []
Container/Temp Blank temperature in compliance? Yes [checked] 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 [checked]
Water - TOX containers have zero headspace? Yes [] No [] No TOX containers [checked]
Water - pH acceptable upon receipt? Yes [] No [checked] NA []
NPDES/CWA TCN interferences checked/treated in the field? Yes [] No [] NA [checked]

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

Samples were received on 8/26/24 at 1620 on ice [10.1C - LTG#5]. pH strip #89660/96651. Additional Nitric Acid (99172) was needed in APW-3 upon arrival at the laboratory. - PS/amberdilallo - 8/26/2024 4:39:39 PM

Samples were received on 8/27/24 at 1614 on ice [5.5C - LTG#5]. pH strip #89660/96651. - amberdilallo - 8/27/2024 4:22:43 PM

Samples were received on 8/28/24 at 1433 on ice [4.9C - LTG#5]. Field Blank was filtered and left unpreserved and preserved with Nitric Acid (99172) for the dissolved parameters upon arrival at the laboratory. pH strip #89660/96651. - DS/amberdilallo - 8/28/2024 3:06:32 PM

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

Client: AmerenEnergy Medina Valley Cogen, LLC Address: 1901 Chouteau Avenue City / State / Zip: St. Louis, MO 63166-6892 Contact: Annie Muehlfarth Phone: (314) 437-6552 E-Mail: amuehlfarth@ameren.com Fax:	Samples on: <input checked="" type="checkbox"/> ICE <input type="checkbox"/> BLUE ICE <input type="checkbox"/> NO ICE 10.1 °C LTG# 5 Preserved in: <input checked="" type="checkbox"/> LAB <input type="checkbox"/> FIELD FOR LAB USE ONLY Lab Notes: Added HNO ₃ (9/1/22) to APW-3 pH 9.651/8.9660 PS 8/26/24
Client Comments Total Metals: ICP 6010 Ba Be B Cd Cr Co Cu Fe Mn Ni Se Ag V Zn, ICP/MS 6020 Sb As Pb Ti, And Hg Dissolved Metals: ICP 6010 Ba Be B Cd Cr Co Cu Fe Mn Ni Se Ag V Zn, ICP/MS 6020 Sb As Pb Ti, And 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

Project Name/Number		Sample Collector's Name			MATRIX		INDICATE ANALYSIS REQUESTED															
Meredosia GW Monitoring Q3 2024		Payton Yoch			Aqueous	Groundwater	Chloride, Dissolved	Cyanide, Total	Dissolved Metals	Field Conductivity	Field DO	Field Elevations	Field ORP	Field pH	Field Temperature	Field Turbidity	Fluoride, Dissolved	Nitrate, Dissolved	Sulfate, Dissolved	TDS, Dissolved	Total Metals	
Results Requested	Billing Instructions	# and Type of Containers																				
<input checked="" type="checkbox"/> Standard <input type="checkbox"/> 1-2 Day (100% Surcharge)		UNP	HNO3	NaOH																		
<input type="checkbox"/> Other <input type="checkbox"/> 3 Day (50% Surcharge)																						
Lab Use Only	Sample Identification	Date/Time Sampled																				
24080263-001	APW-1		2	2	1																	
-002	APW-2		2	2	1																	
-003	APW-3	8/26/24 1403	2	2	1																	
-004	APW-4	8/26/24 1239	2	2	1																	
-005	APW-5		2	2	1																	
-006	APW-6	8/26/24 1112	2	2	1																	
-007	APW-7	8/26/24 1151	2	2	1																	
-008	APW-8		2	2	1																	
-009	APW-9		2	2	1																	
-010	APW-1 DUP		2	2	1																	

Relinquished By	Date/Time	Received By	Date/Time
<i>[Signature]</i>	8/26/24 1620	<i>[Signature]</i>	8/26/24 1620

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: 91975



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

Client: AmerenEnergy Medina Valley Cogen, LLC
Address: 1901 Chouteau Avenue
City / State / Zip: St. Louis, MO 63166-6892
Contact: Annie Muehlfarth **Phone:** (314) 437-6552
E-Mail: amuehlfarth@ameren.com **Fax:**

Samples on: ICE BLUE ICE NO ICE °C LTG#
Preserved in: LAB FIELD **FOR LAB USE ONLY**
Lab Notes:

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

Client Comments
 Total Metals: ICP 6010 Ba Be B Cd Cr Co Cu Fe Mn Ni Se Ag V Zn, ICP/MS 6020 Sb As Pb Ti, And Hg
 Dissolved Metals: ICP 6010 Ba Be B Cd Cr Co Cu Fe Mn Ni Se Ag V Zn, ICP/MS 6020 Sb As Pb Ti, And Hg

Project Name/Number: Meredosia GW Monitoring Q3 2024
Sample Collector's Name: Payton Yoch

Results Requested: Standard 1-2 Day (100% Surcharge)
 Other 3 Day (50% Surcharge)
Billing Instructions:
and Type of Containers:

Lab Use Only	Sample Identification	Date/Time Sampled	# and Type of Containers			Aqueous	Groundwater	Chloride, Dissolved	Cyanide, Total	Dissolved Metals	Field Conductivity	Field DO	Field Elevations	Field ORP	Field pH	Field Temperature	Field Turbidity	Fluoride, Dissolved	Nitrate, Dissolved	Sulfate, Dissolved	TDS, Dissolved	Total Metals
			UNP	HNO3	NaOH																	
24080263-011	Field Blank		2	1	1	X		X	X	X								X	X	X	X	X
-012	APW-10		2	2	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
-013	APW-11		2	2	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
-014	APW-12	8/26/24 1315	2	2	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
-015	APW-13		2	2	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
-016	APW-14		2	2	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

MATRIX

INDICATE ANALYSIS REQUESTED

Relinquished By: [Signature] **Date/Time:** 8/26/24 1620

Received By: [Signature] **Date/Time:** 8/26/24 1102

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: 91975



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

Client: AmerenEnergy Medina Valley Cogen, LLC Address: 1901 Chouteau Avenue City / State / Zip: St. Louis, MO 63166-6892 Contact: Annie Muehlfarth Phone: (314) 437-6552 E-Mail: amuehlfarth@ameren.com Fax:	Samples on: <input checked="" type="checkbox"/> ICE <input type="checkbox"/> BLUE ICE <input type="checkbox"/> NO ICE <u>5.5</u> °C LTG# <u>5</u> Preserved in: <input type="checkbox"/> LAB <input checked="" type="checkbox"/> FIELD FOR LAB USE ONLY Lab Notes: <i>8/27/24 1346 SMO 8/27/24</i>
Client Comments Total Metals: ICP 6010 Ba Be B Cd Cr Co Cu Fe Mn Ni Se Ag V Zn, ICP/MS 6020 Sb As Pb Tl, And Hg Dissolved Metals: ICP 6010 Ba Be B Cd Cr Co Cu Fe Mn Ni Se Ag V Zn, ICP/MS 6020 Sb As Pb Tl, And 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

Project Name/Number		Sample Collector's Name		MATRIX		INDICATE ANALYSIS REQUESTED																
Meredosia GW Monitoring Q3 2024		Payton York		Groundwater	Aquaeous	Chloride, Dissolved	Cyanide, Total	Dissolved Metals	Field Conductivity	Field DO	Field Elevations	Field ORP	Field pH	Field Temperature	Field Turbidity	Fluoride, Dissolved	Nitrate, Dissolved	Sulfate, Dissolved	TDS, Dissolved	Total Metals		
Results Requested	Billing Instructions	# and Type of Containers																				
<input checked="" type="checkbox"/> Standard <input type="checkbox"/> 1-2 Day (100% Surcharge) <input type="checkbox"/> Other <input type="checkbox"/> 3 Day (50% Surcharge)		UNP	HNO3																		NaOH	
Lab Use Only	Sample Identification	Date/Time Sampled	UNP	HNO3	NaOH																	
	24080263-001 APW-1	8/27/24 1102	2	2	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	-002 APW-2		2	2	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	-003 APW-3		2	2	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	-004 APW-4		2	2	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	-005 APW-5	8/27/24 1301	2	2	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	-006 APW-6		2	2	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	-007 APW-7		2	2	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	-008 APW-8		2	2	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	-009 APW-9	8/27/24 1346	2	2	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	-010 APW-1 DUP	8/27/24 1102	2	2	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Relinquished By	Date/Time	Received By	Date/Time
<i>[Signature]</i>	8/27/24 1614	<i>[Signature]</i>	8/27/24 1614

CHAIN OF CUSTODY

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

Client: AmerenEnergy Medina Valley Cogen, LLC	Samples on: <input checked="" type="checkbox"/> ICE <input type="checkbox"/> BLUE ICE <input type="checkbox"/> NO ICE _____ °C LTG# _____
Address: 1901 Chouteau Avenue	Preserved in: <input type="checkbox"/> LAB <input type="checkbox"/> FIELD FOR LAB USE ONLY
City / State / Zip: St. Louis, MO 63166-6892	Lab Notes:
Contact: Annie Muehlfarth Phone: (314) 437-6552	
E-Mail: amuehlfarth@ameren.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? 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

Client Comments
 Total Metals: ICP 6010 Ba Be B Cd Cr Co Cu Fe Mn Ni Se Ag V Zn, ICP/MS 6020 Sb As Pb Tl, And Hg
 Dissolved Metals: ICP 6010 Ba Be B Cd Cr Co Cu Fe Mn Ni Se Ag V Zn, ICP/MS 6020 Sb As Pb Tl, And Hg

Project Name/Number		Sample Collector's Name		MATRIX		INDICATE ANALYSIS REQUESTED																
Meredosia GW Monitoring Q3 2024		Payton Jack		Aqueous	Groundwater	Chloride, Dissolved	Cyanide, Total	Dissolved Metals	Field Conductivity	Field DO	Field Elevations	Field ORP	Field pH	Field Temperature	Field Turbidity	Fluoride, Dissolved	Nitrate, Dissolved	Sulfate, Dissolved	TDS, Dissolved	Total Metals		
Results Requested	Billing Instructions	# and Type of Containers																				
<input checked="" type="checkbox"/> Standard <input type="checkbox"/> 1-2 Day (100% Surcharge)				UNP	HNO3	NaOH																
<input type="checkbox"/> Other <input type="checkbox"/> 3 Day (50% Surcharge)																						
Lab Use Only	Sample Identification	Date/Time Sampled																				
24080263-011	Field Blank		2	1	1																	
-012	APW-10		2	2	1																	
-013	APW-11	8/27/24 1146	2	2	1																	
-014	APW-12		2	2	1																	
-015	APW-13		2	2	1																	
-016	APW-14		2	2	1																	

Relinquished By	Date/Time	Received By	Date/Time
<i>[Signature]</i>	8/27/24 1614	<i>[Signature]</i>	8/27/24 1614

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

Client: AmerenEnergy Medina Valley Cogen, LLC
Address: 1901 Chouteau Avenue
City / State / Zip: St. Louis, MO 63166-6892
Contact: Annie Muehlfarth **Phone:** (314) 437-6552
E-Mail: amuehlfarth@ameren.com **Fax:**

Samples on: ICE BLUE ICE NO ICE 4.9 °C **LTG#** 5
Preserved in: LAB FIELD **FOR LAB USE ONLY**
Lab Notes: DW 96651 + 89660 DS 8/28

Client Comments
 Total Metals: ICP 6010 Ba Be B Cd Cr Co Cu Fe Mn Ni Se Ag V Zn, ICP/MS 6020 Sb As Pb Tl, And Hg
 Dissolved Metals: ICP 6010 Ba Be B Cd Cr Co Cu Fe Mn Ni Se Ag V Zn, ICP/MS 6020 Sb As Pb Tl, And 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

Project Name/Number: Meredosia GW Monitoring Q3 2024
Sample Collector's Name: Payton Took

Results Requested: Standard 1-2 Day (100% Surcharge) Other 3 Day (50% Surcharge)
Billing Instructions:
and Type of Containers:

Lab Use Only	Sample Identification	Date/Time Sampled	# and Type of Containers			Groundwater	Aqueous	Chloride, Dissolved	Cyanide, Total	Dissolved Metals	Field Conductivity	Field DO	Field Elevations	Field ORP	Field pH	Field Temperature	Field Turbidity	Fluoride, Dissolved	Nitrate, Dissolved	Sulfate, Dissolved	TDS, Dissolved	Total Metals	
			UNP	HNO3	NaOH																		
24080263-001	APW-1	<u>8/28/24^{tu}</u>	2	2	1	X																	
-002	APW-2	<u>8/28/24 1031</u>	2	2	1	X																	
-003	APW-3		2	2	1	X																	
-004	APW-4		2	2	1	X																	
-005	APW-5		2	2	1	X																	
-006	APW-6		2	2	1	X																	
-007	APW-7		2	2	1	X																	
-008	APW-8	<u>8/28/24 1121</u>	2	2	1	X																	
-009	APW-9		2	2	1	X																	
-010	APW-1 DUP		2	2	1	X																	

Relinquished By	Date/Time	Received By	Date/Time
<u>[Signature]</u>	<u>8/28/24 1433</u>	<u>[Signature]</u>	<u>8/28/24 1433</u>

CHAIN OF CUSTODY

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

Client: AmerenEnergy Medina Valley Cogen, LLC	Samples on: <input checked="" type="checkbox"/> ICE <input checked="" type="checkbox"/> BLUE ICE <input type="checkbox"/> NO ICE °C LTG#
Address: 1901 Chouteau Avenue	Preserved in: <input checked="" type="checkbox"/> LAB <input checked="" type="checkbox"/> FIELD FOR LAB USE ONLY
City / State / Zip: St. Louis, MO 63166-6892	Lab Notes:
Contact: Annie Muehlfarth Phone: (314) 437-6552	Client Comments
E-Mail: amuehlfarth@ameren.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? 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

Total Metals: ICP 6010 Ba Be B Cd Cr Co Cu Fe Mn Ni Se Ag V Zn, ICP/MS 6020 Sb As Pb Tl, And Hg
 Dissolved Metals: ICP 6010 Ba Be B Cd Cr Co Cu Fe Mn Ni Se Ag V Zn, ICP/MS 6020 Sb As Pb Tl, And Hg

Project Name/Number		Sample Collector's Name		MATRIX		INDICATE ANALYSIS REQUESTED															
Meredosia GW Monitoring Q3 2024		Rayton Yock		Aqueous	Groundwater	Chloride, Dissolved	Cyanide, Total	Dissolved Metals	Field Conductivity	Field DO	Field Elevations	Field ORP	Field pH	Field Temperature	Field Turbidity	Fluoride, Dissolved	Nitrate, Dissolved	Sulfate, Dissolved	TDS, Dissolved	Total Metals	
Results Requested	Billing Instructions	# and Type of Containers																			
<input checked="" type="checkbox"/> Standard <input type="checkbox"/> 1-2 Day (100% Surcharge) <input type="checkbox"/> Other <input type="checkbox"/> 3 Day (50% Surcharge)		UNP	HNO3	NaOH																	
Lab Use Only	Sample Identification	Date/Time Sampled																			
	24080263-011 Field Blank	8/28/24 1230		2	1	1															
	-012 APW-10	8/28/24 1204		2	2	1															
	-013 APW-11			2	2	1															
	-014 APW-12			2	2	1															
	-015 APW-13	Dry		2	2	1															
	-016 APW-14	Dry		2	2	1															

Relinquished By: <i>Woj</i>	Date/Time: 8/28/24 1433	Received By: <i>Rand</i>	Date/Time: 8/28/24 1433

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: 91975



EXHIBIT 4

December 11, 2024

Annie Muehlfarth
AmerenEnergy Medina Valley Cogen, LLC
1901 Chouteau Avenue
PO Box 66149, MC602
St. Louis, MO 63166-6892
TEL: (314) 437-6552
FAX:



Illinois	100226
Illinois	1004652024-2
Kansas	E-10374
Louisiana	05002
Louisiana	05003
Oklahoma	9978

RE: Meredosia GW Monitoring Q4 2024

WorkOrder: 24110005

Dear Annie Muehlfarth:

TEKLAB, INC received 16 samples on 11/14/2024 2:15:00 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,



Elizabeth A. Hurley
Director of Customer Service
(618)344-1004 ex 33
ehurley@teklabinc.com



Report Contents

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

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24110005

Client Project: Meredosia GW Monitoring Q4 2024

Report Date: 11-Dec-24

This reporting package includes the following:

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Chain of Custody	Appended

Definitions

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24110005

Client Project: Meredosia GW Monitoring Q4 2024

Report Date: 11-Dec-24

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

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

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24110005

Client Project: Meredosia GW Monitoring Q4 2024

Report Date: 11-Dec-24

Qualifiers

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



Case Narrative

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

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24110005

Client Project: Meredosia GW Monitoring Q4 2024

Report Date: 11-Dec-24

Cooler Receipt Temp: 5.9 °C

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

APW-13 and APW-14 could not be collected; the wells were dry.

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



Accreditations

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

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24110005

Client Project: Meredosia GW Monitoring Q4 2024

Report Date: 11-Dec-24

State	Dept	Cert #	NELAP	Exp Date	Lab
Illinois	IEPA	100226	NELAP	1/31/2025	Collinsville
Illinois	IEPA	1004652024-2	NELAP	4/30/2025	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	12/31/2024	Collinsville
Arkansas	ADEQ	88-0966		3/14/2025	Collinsville
Illinois	IDPH	17584		5/31/2025	Collinsville
Iowa	IDNR	430		6/1/2026	Collinsville
Kentucky	UST	0073		1/31/2025	Collinsville
Mississippi	MSDH			4/30/2025	Collinsville
Missouri	MDNR	930		1/31/2025	Collinsville
Missouri	MDNR	00930		10/31/2026	Collinsville



Laboratory Results

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24110005

Client Project: Meredosia GW Monitoring Q4 2024

Report Date: 11-Dec-24

Lab ID: 24110005-001

Client Sample ID: APW-1

Matrix: GROUNDWATER

Collection Date: 11/13/2024 12:32

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		421.21	ft	1	11/13/2024 12:32	R356411
Depth to water	*	-5.00		18.72	ft	1	11/13/2024 12:32	R356411
Depth to water from measuring point	*	0		21.92	ft	1	11/13/2024 12:32	R356411
Elevation of groundwater surface	*	0		427.34	ft	1	11/13/2024 12:32	R356411
Measuring Point Elevation	*	0		449.26	ft	1	11/13/2024 12:32	R356411
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		28	NTU	1	11/13/2024 12:32	R356411
STANDARD METHODS 18TH ED. 2580 B FIELD								
Oxidation-Reduction Potential	*	-2000		9	mV	1	11/13/2024 12:32	R356411
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		16.6	°C	1	11/13/2024 12:32	R356411
STANDARD METHODS 4500-O G FIELD								
Oxygen, Dissolved	*	0		5.91	mg/L	1	11/13/2024 12:32	R356411
SW-846 9040B								
pH, Field	*	1.00		7.22		1	11/13/2024 12:32	R356411
SW-846 9050A								
Spec. Conductance, Field	*	1.00		791	µS/cm	1	11/13/2024 12:32	R356411
STANDARD METHODS 2540 C (DISSOLVED) 1997, 2011								
Total Dissolved Solids	NELAP	20		358	mg/L	1	11/19/2024 14:16	R356516
STANDARD METHODS 4500-NO3 F (DISSOLVED) 2000, 2011								
Nitrogen, Nitrate (as N)	NELAP	0.500		5.16	mg/L	1	11/13/2024 19:20	R356123
SW-846 9012A (TOTAL)								
Cyanide	NELAP	0.005		< 0.005	mg/L	1	11/18/2024 17:35	231265
SW846 9056A DISSOLVED ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50	J	0.26	mg/L	10	11/14/2024 17:32	R356148
Chloride	NELAP	5.00		69.7	mg/L	10	11/14/2024 17:32	R356148
Sulfate	NELAP	10.0		11.6	mg/L	10	11/14/2024 17:32	R356148
SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)								
Barium	NELAP	0.0025		0.0132	mg/L	1	11/15/2024 17:40	231157
Beryllium	NELAP	0.0005		< 0.0005	mg/L	1	11/15/2024 17:40	231157
Boron	NELAP	0.0200		0.0225	mg/L	1	11/15/2024 17:40	231157
Cadmium	NELAP	0.0020		< 0.0020	mg/L	1	11/15/2024 17:40	231157
Chromium	NELAP	0.0050		< 0.0050	mg/L	1	11/15/2024 17:40	231157
Cobalt	NELAP	0.0050		< 0.0050	mg/L	1	11/15/2024 17:40	231157
Copper	NELAP	0.0050		< 0.0050	mg/L	1	11/15/2024 17:40	231157
Iron	NELAP	0.0400		< 0.0400	mg/L	1	11/15/2024 17:40	231157
Manganese	NELAP	0.0070		0.0205	mg/L	1	11/15/2024 17:40	231157
Nickel	NELAP	0.0050		< 0.0050	mg/L	1	11/15/2024 17:40	231157
Selenium	NELAP	0.0400		< 0.0400	mg/L	1	11/15/2024 17:40	231157
Silver	NELAP	0.0070		< 0.0070	mg/L	1	11/15/2024 17:40	231157
Vanadium	NELAP	0.0100		< 0.0100	mg/L	1	11/15/2024 17:40	231157
Zinc	NELAP	0.0100		< 0.0100	mg/L	1	11/15/2024 17:40	231157
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		0.0551	mg/L	1	11/15/2024 11:45	231176
Beryllium	NELAP	0.0005		0.0006	mg/L	1	11/15/2024 11:45	231176



Laboratory Results

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

Client: AmerenEnergy Medina Valley Cogen, LLC
Client Project: Meredosia GW Monitoring Q4 2024
Lab ID: 24110005-001
Matrix: GROUNDWATER

Work Order: 24110005
Report Date: 11-Dec-24

Client Sample ID: APW-1

Collection Date: 11/13/2024 12:32

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Boron	NELAP	0.0200		0.0404	mg/L	1	11/15/2024 11:45	231176
Cadmium	NELAP	0.0020	J	0.0007	mg/L	1	11/15/2024 11:45	231176
Chromium	NELAP	0.0050		0.0114	mg/L	1	11/15/2024 11:45	231176
Cobalt	NELAP	0.0050		0.0330	mg/L	1	11/15/2024 11:45	231176
Copper	NELAP	0.0050		0.0509	mg/L	1	11/15/2024 11:45	231176
Iron	NELAP	0.0400		16.2	mg/L	1	11/15/2024 11:45	231176
Manganese	NELAP	0.0070		1.94	mg/L	1	11/15/2024 11:45	231176
Nickel	NELAP	0.0050		0.0520	mg/L	1	11/15/2024 11:45	231176
Selenium	NELAP	0.0400		< 0.0400	mg/L	1	11/15/2024 11:45	231176
Silver	NELAP	0.0070		< 0.0070	mg/L	1	11/15/2024 11:45	231176
Vanadium	NELAP	0.0100		0.0194	mg/L	1	11/15/2024 11:45	231176
Zinc	NELAP	0.0100		0.0680	mg/L	1	11/15/2024 11:45	231176
SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)								
Antimony	NELAP	0.0010	J	0.0008	mg/L	5	11/18/2024 19:58	231157
Arsenic	NELAP	0.0010	J	0.0006	mg/L	5	11/18/2024 19:58	231157
Lead	NELAP	0.0010		< 0.0010	mg/L	5	11/18/2024 19:58	231157
Thallium	NELAP	0.0020		< 0.0020	mg/L	5	11/18/2024 19:58	231157
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		< 0.0010	mg/L	5	11/19/2024 1:46	231176
Arsenic	NELAP	0.0010		0.0106	mg/L	5	12/06/2024 8:03	231948
Lead	NELAP	0.0010		0.0162	mg/L	5	12/06/2024 8:03	231948
Thallium	NELAP	0.0020		< 0.0020	mg/L	5	11/19/2024 1:46	231176
<i>LCS recovered outside upper control limits. Sample results are below the reporting limit. Data is reportable per the TNI Standard.</i>								
SW-846 7470A (DISSOLVED)								
Mercury	NELAP	0.00020		< 0.00020	mg/L	1	11/20/2024 12:30	231381
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		< 0.00020	mg/L	1	11/20/2024 12:28	231381



Laboratory Results

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24110005

Client Project: Meredosia GW Monitoring Q4 2024

Report Date: 11-Dec-24

Lab ID: 24110005-002

Client Sample ID: APW-2

Matrix: GROUNDWATER

Collection Date: 11/13/2024 11:56

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		410.61	ft	1	11/13/2024 11:56	R356411
Depth to water	*	-5.00		10.39	ft	1	11/13/2024 11:56	R356411
Depth to water from measuring point	*	0		13.29	ft	1	11/13/2024 11:56	R356411
Elevation of groundwater surface	*	0		423.58	ft	1	11/13/2024 11:56	R356411
Measuring Point Elevation	*	0		436.87	ft	1	11/13/2024 11:56	R356411
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		20	NTU	1	11/13/2024 11:56	R356411
STANDARD METHODS 18TH ED. 2580 B FIELD								
Oxidation-Reduction Potential	*	-2000		-55	mV	1	11/13/2024 11:56	R356411
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		16.5	°C	1	11/13/2024 11:56	R356411
STANDARD METHODS 4500-O G FIELD								
Oxygen, Dissolved	*	0		2.11	mg/L	1	11/13/2024 11:56	R356411
SW-846 9040B								
pH, Field	*	1.00		6.80		1	11/13/2024 11:56	R356411
SW-846 9050A								
Spec. Conductance, Field	*	1.00		682	µS/cm	1	11/13/2024 11:56	R356411
STANDARD METHODS 2540 C (DISSOLVED) 1997, 2011								
Total Dissolved Solids	NELAP	20		368	mg/L	1	11/19/2024 14:15	R356516
STANDARD METHODS 4500-NO3 F (DISSOLVED) 2000, 2011								
Nitrogen, Nitrate (as N)	NELAP	0.050		0.081	mg/L	1	11/13/2024 19:22	R356123
SW-846 9012A (TOTAL)								
Cyanide	NELAP	0.005		< 0.005	mg/L	1	11/18/2024 17:40	231265
SW846 9056A DISSOLVED ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50	J	0.26	mg/L	10	11/14/2024 17:44	R356148
Chloride	NELAP	5.0	J	4.4	mg/L	10	11/14/2024 17:44	R356148
Sulfate	NELAP	10	J	7.4	mg/L	10	11/14/2024 17:44	R356148
SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)								
Barium	NELAP	0.0025		0.0415	mg/L	1	11/20/2024 10:40	231157
Beryllium	NELAP	0.0005		< 0.0005	mg/L	1	11/20/2024 10:40	231157
Boron	NELAP	0.0200		0.728	mg/L	1	11/20/2024 10:40	231157
Cadmium	NELAP	0.0020		< 0.0020	mg/L	1	11/20/2024 10:40	231157
Chromium	NELAP	0.0050		< 0.0050	mg/L	1	11/20/2024 10:40	231157
Cobalt	NELAP	0.0050	J	0.0032	mg/L	1	11/20/2024 10:40	231157
Copper	NELAP	0.0050		< 0.0050	mg/L	1	11/20/2024 10:40	231157
Iron	NELAP	0.0400		0.391	mg/L	1	11/20/2024 10:40	231157
Manganese	NELAP	0.0070		0.119	mg/L	1	11/20/2024 10:40	231157
Nickel	NELAP	0.0050		< 0.0050	mg/L	1	11/20/2024 10:40	231157
Selenium	NELAP	0.0400		< 0.0400	mg/L	1	11/20/2024 10:40	231157
Silver	NELAP	0.0070		< 0.0070	mg/L	1	11/20/2024 10:40	231157
Vanadium	NELAP	0.0100		< 0.0100	mg/L	1	11/20/2024 10:40	231157
Zinc	NELAP	0.0100		< 0.0100	mg/L	1	11/20/2024 10:40	231157
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		0.0517	mg/L	1	11/15/2024 11:46	231176
Beryllium	NELAP	0.0005	J	0.0002	mg/L	1	11/15/2024 11:46	231176



Laboratory Results

Client: AmerenEnergy Medina Valley Cogen, LLC
Client Project: Meredosia GW Monitoring Q4 2024
Lab ID: 24110005-002
Matrix: GROUNDWATER

Work Order: 24110005
Report Date: 11-Dec-24

Client Sample ID: APW-2

Collection Date: 11/13/2024 11:56

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Boron	NELAP	0.0200		0.793	mg/L	1	11/15/2024 11:46	231176
Cadmium	NELAP	0.0020		< 0.0020	mg/L	1	11/15/2024 11:46	231176
Chromium	NELAP	0.0050		< 0.0050	mg/L	1	11/15/2024 11:46	231176
Cobalt	NELAP	0.0050		< 0.0050	mg/L	1	11/15/2024 11:46	231176
Copper	NELAP	0.0050		0.0221	mg/L	1	11/15/2024 11:46	231176
Iron	NELAP	0.0400		1.07	mg/L	1	11/15/2024 11:46	231176
Manganese	NELAP	0.0070		0.203	mg/L	1	11/15/2024 11:46	231176
Nickel	NELAP	0.0050		< 0.0050	mg/L	1	11/15/2024 11:46	231176
Selenium	NELAP	0.0400		< 0.0400	mg/L	1	11/15/2024 11:46	231176
Silver	NELAP	0.0070		< 0.0070	mg/L	1	11/15/2024 11:46	231176
Vanadium	NELAP	0.0100		< 0.0100	mg/L	1	11/15/2024 11:46	231176
Zinc	NELAP	0.0100		0.0119	mg/L	1	11/15/2024 11:46	231176
SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)								
Antimony	NELAP	0.0010		< 0.0010	mg/L	5	11/18/2024 20:59	231157
Arsenic	NELAP	0.0010		0.0016	mg/L	5	11/18/2024 20:59	231157
Lead	NELAP	0.0010		< 0.0010	mg/L	5	11/18/2024 20:59	231157
Thallium	NELAP	0.0020		< 0.0020	mg/L	5	11/19/2024 12:22	231157
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		< 0.0010	mg/L	5	11/19/2024 2:31	231176
Arsenic	NELAP	0.0010		0.0020	mg/L	5	11/19/2024 2:31	231176
Lead	NELAP	0.0010		< 0.0010	mg/L	5	11/19/2024 2:31	231176
Thallium	NELAP	0.0020		< 0.0020	mg/L	5	11/19/2024 2:31	231176
<i>LCS recovered outside upper control limits. Sample results are below the reporting limit. Data is reportable per the TNI Standard.</i>								
SW-846 7470A (DISSOLVED)								
Mercury	NELAP	0.00020		< 0.00020	mg/L	1	11/20/2024 12:39	231381
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		< 0.00020	mg/L	1	11/20/2024 12:33	231381



Laboratory Results

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24110005

Client Project: Meredosia GW Monitoring Q4 2024

Report Date: 11-Dec-24

Lab ID: 24110005-003

Client Sample ID: APW-3

Matrix: GROUNDWATER

Collection Date: 11/13/2024 11:29

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		410.73	ft	1	11/13/2024 11:29	R356411
Depth to water	*	-5.00		9.10	ft	1	11/13/2024 11:29	R356411
Depth to water from measuring point	*	0		12.03	ft	1	11/13/2024 11:29	R356411
Elevation of groundwater surface	*	0		424.25	ft	1	11/13/2024 11:29	R356411
Measuring Point Elevation	*	0		436.28	ft	1	11/13/2024 11:29	R356411
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		54	NTU	1	11/13/2024 11:29	R356411
STANDARD METHODS 18TH ED. 2580 B FIELD								
Oxidation-Reduction Potential	*	-2000		-167	mV	1	11/13/2024 11:29	R356411
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		16.0	°C	1	11/13/2024 11:29	R356411
STANDARD METHODS 4500-O G FIELD								
Oxygen, Dissolved	*	0		1.84	mg/L	1	11/13/2024 11:29	R356411
SW-846 9040B								
pH, Field	*	1.00		7.07		1	11/13/2024 11:29	R356411
SW-846 9050A								
Spec. Conductance, Field	*	1.00		1640	µS/cm	1	11/13/2024 11:29	R356411
STANDARD METHODS 2540 C (DISSOLVED) 1997, 2011								
Total Dissolved Solids	NELAP	50		830	mg/L	2.5	11/19/2024 14:15	R356516
STANDARD METHODS 4500-NO3 F (DISSOLVED) 2000, 2011								
Nitrogen, Nitrate (as N)	NELAP	0.050	J	0.023	mg/L	1	11/13/2024 19:25	R356123
SW-846 9012A (TOTAL)								
Cyanide	NELAP	0.005		< 0.005	mg/L	1	11/18/2024 18:06	231265
SW846 9056A DISSOLVED ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		ND	mg/L	10	11/14/2024 17:56	R356148
Chloride	NELAP	5.00		16.6	mg/L	10	11/14/2024 17:56	R356148
Sulfate	NELAP	10.0		71.9	mg/L	10	11/14/2024 17:56	R356148
SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)								
Barium	NELAP	0.0025		0.148	mg/L	1	11/20/2024 10:41	231157
Beryllium	NELAP	0.0005		< 0.0005	mg/L	1	11/20/2024 10:41	231157
Boron	NELAP	0.0200	X	12.9	mg/L	1	11/20/2024 10:41	231157
Cadmium	NELAP	0.0020		< 0.0020	mg/L	1	11/20/2024 10:41	231157
Chromium	NELAP	0.0050		< 0.0050	mg/L	1	11/20/2024 10:41	231157
Cobalt	NELAP	0.0050	J	0.0020	mg/L	1	11/20/2024 10:41	231157
Copper	NELAP	0.0050		0.0083	mg/L	1	11/20/2024 10:41	231157
Iron	NELAP	0.0400		4.61	mg/L	1	11/20/2024 10:41	231157
Manganese	NELAP	0.0070	X	1.36	mg/L	1	11/20/2024 10:41	231157
Nickel	NELAP	0.0050		< 0.0050	mg/L	1	11/20/2024 10:41	231157
Selenium	NELAP	0.0400		< 0.0400	mg/L	1	11/20/2024 10:41	231157
Silver	NELAP	0.0070	J	0.0036	mg/L	1	11/20/2024 10:41	231157
Vanadium	NELAP	0.0100		< 0.0100	mg/L	1	11/20/2024 10:41	231157
Zinc	NELAP	0.0100		< 0.0100	mg/L	1	11/20/2024 10:41	231157
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		0.189	mg/L	1	11/15/2024 12:21	231176
Beryllium	NELAP	0.0005		< 0.0005	mg/L	1	11/15/2024 12:21	231176



Laboratory Results

Client: AmerenEnergy Medina Valley Cogen, LLC
Client Project: Meredosia GW Monitoring Q4 2024
Lab ID: 24110005-003
Matrix: GROUNDWATER

Work Order: 24110005
Report Date: 11-Dec-24

Client Sample ID: APW-3

Collection Date: 11/13/2024 11:29

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Boron	NELAP	0.0200		14.3	mg/L	1	11/15/2024 12:21	231176
Cadmium	NELAP	0.0020		< 0.0020	mg/L	1	11/15/2024 12:21	231176
Chromium	NELAP	0.0050	J	0.0031	mg/L	1	11/15/2024 12:21	231176
Cobalt	NELAP	0.0050		< 0.0050	mg/L	1	11/15/2024 12:21	231176
Copper	NELAP	0.0050		0.0232	mg/L	1	11/15/2024 12:21	231176
Iron	NELAP	0.0400		9.21	mg/L	1	11/15/2024 12:21	231176
Manganese	NELAP	0.0070		1.58	mg/L	1	11/15/2024 12:21	231176
Nickel	NELAP	0.0050		< 0.0050	mg/L	1	11/15/2024 12:21	231176
Selenium	NELAP	0.0400		< 0.0400	mg/L	1	11/15/2024 12:21	231176
Silver	NELAP	0.0070		< 0.0070	mg/L	1	11/15/2024 12:21	231176
Vanadium	NELAP	0.010	J	0.0049	mg/L	1	11/15/2024 12:21	231176
Zinc	NELAP	0.0100		0.0111	mg/L	1	11/15/2024 12:21	231176
SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)								
Antimony	NELAP	0.0010		< 0.0010	mg/L	5	11/18/2024 21:05	231157
Arsenic	NELAP	0.0010	X	0.149	mg/L	5	11/18/2024 21:05	231157
Lead	NELAP	0.0010		< 0.0010	mg/L	5	11/18/2024 21:05	231157
Thallium	NELAP	0.0020		< 0.0020	mg/L	5	11/18/2024 21:05	231157
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		< 0.0010	mg/L	5	11/19/2024 2:37	231176
Arsenic	NELAP	0.0010		0.166	mg/L	5	11/19/2024 2:37	231176
Lead	NELAP	0.0010		0.0015	mg/L	5	11/19/2024 2:37	231176
Thallium	NELAP	0.0020		< 0.0020	mg/L	5	11/19/2024 2:37	231176
<i>LCS recovered outside upper control limits. Sample results are below the reporting limit. Data is reportable per the TNI Standard.</i>								
SW-846 7470A (DISSOLVED)								
Mercury	NELAP	0.00020		< 0.00020	mg/L	1	11/20/2024 12:44	231381
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		< 0.00020	mg/L	1	11/20/2024 12:42	231381



Laboratory Results

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24110005

Client Project: Meredosia GW Monitoring Q4 2024

Report Date: 11-Dec-24

Lab ID: 24110005-004

Client Sample ID: APW-4

Matrix: GROUNDWATER

Collection Date: 11/13/2024 10:57

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		412.35	ft	1	11/13/2024 10:57	R356411
Depth to water	*	-5.00		8.00	ft	1	11/13/2024 10:57	R356411
Depth to water from measuring point	*	0		10.96	ft	1	11/13/2024 10:57	R356411
Elevation of groundwater surface	*	0		423.90	ft	1	11/13/2024 10:57	R356411
Measuring Point Elevation	*	0		434.86	ft	1	11/13/2024 10:57	R356411
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		11	NTU	1	11/13/2024 10:57	R356411
STANDARD METHODS 18TH ED. 2580 B FIELD								
Oxidation-Reduction Potential	*	-2000		-11	mV	1	11/13/2024 10:57	R356411
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		15.3	°C	1	11/13/2024 10:57	R356411
STANDARD METHODS 4500-O G FIELD								
Oxygen, Dissolved	*	0		2.30	mg/L	1	11/13/2024 10:57	R356411
SW-846 9040B								
pH, Field	*	1.00		6.69		1	11/13/2024 10:57	R356411
SW-846 9050A								
Spec. Conductance, Field	*	1.00		976	µS/cm	1	11/13/2024 10:57	R356411
STANDARD METHODS 2540 C (DISSOLVED) 1997, 2011								
Total Dissolved Solids	NELAP	20		474	mg/L	1	11/19/2024 14:15	R356516
STANDARD METHODS 4500-NO3 F (DISSOLVED) 2000, 2011								
Nitrogen, Nitrate (as N)	NELAP	0.500		4.16	mg/L	1	11/13/2024 19:27	R356123
SW-846 9012A (TOTAL)								
Cyanide	NELAP	0.005		< 0.005	mg/L	1	11/18/2024 18:10	231265
SW846 9056A DISSOLVED ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50	J	0.31	mg/L	10	11/14/2024 18:07	R356148
Chloride	NELAP	5.00		16.6	mg/L	10	11/14/2024 18:07	R356148
Sulfate	NELAP	10.0		44.3	mg/L	10	11/14/2024 18:07	R356148
SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)								
Barium	NELAP	0.0025		0.0621	mg/L	1	11/20/2024 10:41	231157
Beryllium	NELAP	0.0005		< 0.0005	mg/L	1	11/20/2024 10:41	231157
Boron	NELAP	0.0200		0.752	mg/L	1	11/20/2024 10:41	231157
Cadmium	NELAP	0.0020		< 0.0020	mg/L	1	11/20/2024 10:41	231157
Chromium	NELAP	0.0050		< 0.0050	mg/L	1	11/20/2024 10:41	231157
Cobalt	NELAP	0.0050	J	0.0037	mg/L	1	11/20/2024 10:41	231157
Copper	NELAP	0.0050		0.0080	mg/L	1	11/20/2024 10:41	231157
Iron	NELAP	0.0400		0.511	mg/L	1	11/20/2024 10:41	231157
Manganese	NELAP	0.0070	X	0.550	mg/L	1	11/20/2024 10:41	231157
Nickel	NELAP	0.0050		< 0.0050	mg/L	1	11/20/2024 10:41	231157
Selenium	NELAP	0.0400		< 0.0400	mg/L	1	11/20/2024 10:41	231157
Silver	NELAP	0.0070		< 0.0070	mg/L	1	11/20/2024 10:41	231157
Vanadium	NELAP	0.0100		< 0.0100	mg/L	1	11/20/2024 10:41	231157
Zinc	NELAP	0.0100		< 0.0100	mg/L	1	11/20/2024 10:41	231157
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		0.0903	mg/L	1	11/15/2024 16:52	231176
Beryllium	NELAP	0.0005		< 0.0005	mg/L	1	11/15/2024 16:52	231176



Laboratory Results

Client: AmerenEnergy Medina Valley Cogen, LLC
Client Project: Meredosia GW Monitoring Q4 2024
Lab ID: 24110005-004
Matrix: GROUNDWATER

Work Order: 24110005
Report Date: 11-Dec-24

Client Sample ID: APW-4
Collection Date: 11/13/2024 10:57

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Boron	NELAP	0.0200		0.826	mg/L	1	11/15/2024 16:52	231176
Cadmium	NELAP	0.0020		< 0.0020	mg/L	1	11/15/2024 16:52	231176
Chromium	NELAP	0.0050		< 0.0050	mg/L	1	11/15/2024 16:52	231176
Cobalt	NELAP	0.0050		< 0.0050	mg/L	1	11/15/2024 16:52	231176
Copper	NELAP	0.0050		0.0232	mg/L	1	11/15/2024 16:52	231176
Iron	NELAP	0.0400		4.93	mg/L	1	11/15/2024 16:52	231176
Manganese	NELAP	0.0070		0.961	mg/L	1	11/15/2024 16:52	231176
Nickel	NELAP	0.0050		< 0.0050	mg/L	1	11/15/2024 16:52	231176
Selenium	NELAP	0.0400		< 0.0400	mg/L	1	11/15/2024 16:52	231176
Silver	NELAP	0.0070		< 0.0070	mg/L	1	11/15/2024 16:52	231176
Vanadium	NELAP	0.010	J	0.0022	mg/L	1	11/15/2024 16:52	231176
Zinc	NELAP	0.0100		0.0112	mg/L	1	11/15/2024 16:52	231176
SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)								
Antimony	NELAP	0.0010		< 0.0010	mg/L	5	11/18/2024 21:10	231157
Arsenic	NELAP	0.0010		0.0011	mg/L	5	11/18/2024 21:10	231157
Lead	NELAP	0.0010		< 0.0010	mg/L	5	11/18/2024 21:10	231157
Thallium	NELAP	0.0020		< 0.0020	mg/L	5	11/18/2024 21:10	231157
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		< 0.0010	mg/L	5	11/19/2024 1:51	231176
Arsenic	NELAP	0.0010		0.0045	mg/L	5	11/19/2024 1:51	231176
Lead	NELAP	0.0010		< 0.0010	mg/L	5	11/19/2024 1:51	231176
Thallium	NELAP	0.0020		< 0.0020	mg/L	5	11/19/2024 1:51	231176
<i>LCS recovered outside upper control limits. Sample results are below the reporting limit. Data is reportable per the TNI Standard.</i>								
SW-846 7470A (DISSOLVED)								
Mercury	NELAP	0.00020		< 0.00020	mg/L	1	11/20/2024 12:53	231381
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		< 0.00020	mg/L	1	11/20/2024 12:51	231381



Laboratory Results

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24110005

Client Project: Meredosia GW Monitoring Q4 2024

Report Date: 11-Dec-24

Lab ID: 24110005-005

Client Sample ID: APW-5

Matrix: GROUNDWATER

Collection Date: 11/13/2024 13:14

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		414.99	ft	1	11/13/2024 13:14	R356411
Depth to water	*	-5.00		24.79	ft	1	11/13/2024 13:14	R356411
Depth to water from measuring point	*	0		27.51	ft	1	11/13/2024 13:14	R356411
Elevation of groundwater surface	*	0		425.69	ft	1	11/13/2024 13:14	R356411
Measuring Point Elevation	*	0		453.20	ft	1	11/13/2024 13:14	R356411
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		25	NTU	1	11/13/2024 13:14	R356411
STANDARD METHODS 18TH ED. 2580 B FIELD								
Oxidation-Reduction Potential	*	-2000		37	mV	1	11/13/2024 13:14	R356411
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		17.0	°C	1	11/13/2024 13:14	R356411
STANDARD METHODS 4500-O G FIELD								
Oxygen, Dissolved	*	0		4.65	mg/L	1	11/13/2024 13:14	R356411
SW-846 9040B								
pH, Field	*	1.00		7.30		1	11/13/2024 13:14	R356411
SW-846 9050A								
Spec. Conductance, Field	*	1.00		715	µS/cm	1	11/13/2024 13:14	R356411
STANDARD METHODS 2540 C (DISSOLVED) 1997, 2011								
Total Dissolved Solids	NELAP	20		364	mg/L	1	11/19/2024 14:16	R356516
STANDARD METHODS 4500-NO3 F (DISSOLVED) 2000, 2011								
Nitrogen, Nitrate (as N)	NELAP	0.250		2.96	mg/L	1	11/13/2024 20:15	R356123
SW-846 9012A (TOTAL)								
Cyanide	NELAP	0.005		< 0.005	mg/L	1	11/18/2024 18:14	231265
SW846 9056A DISSOLVED ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		ND	mg/L	10	11/14/2024 18:19	R356148
Chloride	NELAP	5.00		7.35	mg/L	10	11/14/2024 18:19	R356148
Sulfate	NELAP	10.0		28.3	mg/L	10	11/14/2024 18:19	R356148
SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)								
Barium	NELAP	0.0025		0.0100	mg/L	1	11/20/2024 10:42	231157
Beryllium	NELAP	0.0005		< 0.0005	mg/L	1	11/20/2024 10:42	231157
Boron	NELAP	0.0200		0.0928	mg/L	1	11/20/2024 10:42	231157
Cadmium	NELAP	0.0020		< 0.0020	mg/L	1	11/20/2024 10:42	231157
Chromium	NELAP	0.0050		< 0.0050	mg/L	1	11/20/2024 10:42	231157
Cobalt	NELAP	0.0050		< 0.0050	mg/L	1	11/20/2024 10:42	231157
Copper	NELAP	0.0050	J	0.0031	mg/L	1	11/20/2024 10:42	231157
Iron	NELAP	0.0400		< 0.0400	mg/L	1	11/20/2024 10:42	231157
Manganese	NELAP	0.0070		< 0.0070	mg/L	1	11/20/2024 10:42	231157
Nickel	NELAP	0.0050		< 0.0050	mg/L	1	11/20/2024 10:42	231157
Selenium	NELAP	0.0400		< 0.0400	mg/L	1	11/20/2024 10:42	231157
Silver	NELAP	0.0070		< 0.0070	mg/L	1	11/20/2024 10:42	231157
Vanadium	NELAP	0.0100		< 0.0100	mg/L	1	11/20/2024 10:42	231157
Zinc	NELAP	0.0100		< 0.0100	mg/L	1	11/20/2024 10:42	231157
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		0.0134	mg/L	1	11/15/2024 17:04	231176
Beryllium	NELAP	0.0005	J	0.0003	mg/L	1	11/19/2024 11:43	231176



Laboratory Results

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

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24110005

Client Project: Meredosia GW Monitoring Q4 2024

Report Date: 11-Dec-24

Lab ID: 24110005-005

Client Sample ID: APW-5

Matrix: GROUNDWATER

Collection Date: 11/13/2024 13:14

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Boron	NELAP	0.0200		0.0921	mg/L	1	11/15/2024 17:04	231176
Cadmium	NELAP	0.0020		< 0.0020	mg/L	1	11/15/2024 17:04	231176
Chromium	NELAP	0.0050		< 0.0050	mg/L	1	11/15/2024 17:04	231176
Cobalt	NELAP	0.0050		< 0.0050	mg/L	1	11/15/2024 17:04	231176
Copper	NELAP	0.0050		0.0283	mg/L	1	11/15/2024 17:04	231176
Iron	NELAP	0.0400		0.357	mg/L	1	11/15/2024 17:04	231176
Manganese	NELAP	0.0070		0.0787	mg/L	1	11/15/2024 17:04	231176
Nickel	NELAP	0.0050		< 0.0050	mg/L	1	11/15/2024 17:04	231176
Selenium	NELAP	0.0400		< 0.0400	mg/L	1	11/15/2024 17:04	231176
Silver	NELAP	0.0070		< 0.0070	mg/L	1	11/15/2024 17:04	231176
Vanadium	NELAP	0.0100		< 0.0100	mg/L	1	11/15/2024 17:04	231176
Zinc	NELAP	0.0100		0.0131	mg/L	1	11/15/2024 17:04	231176
SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)								
Antimony	NELAP	0.0010		< 0.0010	mg/L	5	11/18/2024 21:16	231157
Arsenic	NELAP	0.0010	J	0.0004	mg/L	5	11/18/2024 21:16	231157
Lead	NELAP	0.0010		< 0.0010	mg/L	5	11/18/2024 21:16	231157
Thallium	NELAP	0.0020		< 0.0020	mg/L	5	11/18/2024 21:16	231157
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010	J	0.0005	mg/L	5	11/19/2024 2:42	231176
Arsenic	NELAP	0.0010	J	0.0010	mg/L	5	11/19/2024 2:42	231176
Lead	NELAP	0.0010	J	0.0010	mg/L	5	11/19/2024 2:42	231176
Thallium	NELAP	0.0020		< 0.0020	mg/L	5	11/19/2024 2:42	231176
<i>LCS recovered outside upper control limits. Sample results are below the reporting limit. Data is reportable per the TNI Standard.</i>								
SW-846 7470A (DISSOLVED)								
Mercury	NELAP	0.00020		< 0.00020	mg/L	1	11/20/2024 13:02	231381
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		< 0.00020	mg/L	1	11/20/2024 12:56	231381



Laboratory Results

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24110005

Client Project: Meredosia GW Monitoring Q4 2024

Report Date: 11-Dec-24

Lab ID: 24110005-006

Client Sample ID: APW-6

Matrix: GROUNDWATER

Collection Date: 11/12/2024 10:05

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		419.78	ft	1	11/12/2024 10:05	R356411
Depth to water	*	-5.00		22.64	ft	1	11/12/2024 10:05	R356411
Depth to water from measuring point	*	0		25.94	ft	1	11/12/2024 10:05	R356411
Elevation of groundwater surface	*	0		425.96	ft	1	11/12/2024 10:05	R356411
Measuring Point Elevation	*	0		451.90	ft	1	11/12/2024 10:05	R356411
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		14	NTU	1	11/12/2024 10:05	R356411
STANDARD METHODS 18TH ED. 2580 B FIELD								
Oxidation-Reduction Potential	*	-2000		67	mV	1	11/12/2024 10:05	R356411
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		15.5	°C	1	11/12/2024 10:05	R356411
STANDARD METHODS 4500-O G FIELD								
Oxygen, Dissolved	*	0		4.61	mg/L	1	11/12/2024 10:05	R356411
SW-846 9040B								
pH, Field	*	1.00		6.99		1	11/12/2024 10:05	R356411
SW-846 9050A								
Spec. Conductance, Field	*	1.00		806	µS/cm	1	11/12/2024 10:05	R356411
STANDARD METHODS 2540 C (DISSOLVED) 1997, 2011								
Total Dissolved Solids	NELAP	20	H	404	mg/L	1	11/21/2024 16:53	R356629
<i>Sample analysis did not meet hold time requirements.</i>								
STANDARD METHODS 4500-NO3 F (DISSOLVED) 2000, 2011								
Nitrogen, Nitrate (as N)	NELAP	0.050		0.302	mg/L	1	11/12/2024 17:20	R356051
SW-846 9012A (TOTAL)								
Cyanide	NELAP	0.005		< 0.005	mg/L	1	11/18/2024 18:19	231265
SW846 9056A DISSOLVED ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		ND	mg/L	10	11/13/2024 21:02	R355975
Chloride	NELAP	5.00		6.63	mg/L	10	11/13/2024 21:02	R355975
Sulfate	NELAP	10.0		23.9	mg/L	10	11/13/2024 21:02	R355975
SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)								
Barium	NELAP	0.0025		0.0132	mg/L	1	11/14/2024 17:09	231145
Beryllium	NELAP	0.0005		< 0.0005	mg/L	1	11/14/2024 17:09	231145
Boron	NELAP	0.0200		0.323	mg/L	1	11/14/2024 17:09	231145
Cadmium	NELAP	0.0020		< 0.0020	mg/L	1	11/14/2024 17:09	231145
Chromium	NELAP	0.0050		< 0.0050	mg/L	1	11/14/2024 17:09	231145
Cobalt	NELAP	0.0050		< 0.0050	mg/L	1	11/14/2024 17:09	231145
Copper	NELAP	0.0050		< 0.0050	mg/L	1	11/14/2024 17:09	231145
Iron	NELAP	0.0400		< 0.0400	mg/L	1	11/14/2024 17:09	231145
Manganese	NELAP	0.0070		< 0.0070	mg/L	1	11/14/2024 17:09	231145
Nickel	NELAP	0.0050		< 0.0050	mg/L	1	11/14/2024 17:09	231145
Selenium	NELAP	0.0400		< 0.0400	mg/L	1	11/14/2024 17:09	231145
Silver	NELAP	0.0070		< 0.0070	mg/L	1	11/14/2024 17:09	231145
Vanadium	NELAP	0.0100		< 0.0100	mg/L	1	11/14/2024 17:09	231145
Zinc	NELAP	0.0100		< 0.0100	mg/L	1	11/14/2024 17:09	231145
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		0.0153	mg/L	1	11/14/2024 11:21	231106



Laboratory Results

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24110005

Client Project: Meredosia GW Monitoring Q4 2024

Report Date: 11-Dec-24

Lab ID: 24110005-006

Client Sample ID: APW-6

Matrix: GROUNDWATER

Collection Date: 11/12/2024 10:05

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Beryllium	NELAP	0.0005		< 0.0005	mg/L	1	11/14/2024 11:21	231106
Boron	NELAP	0.0200		0.377	mg/L	1	11/14/2024 11:21	231106
Cadmium	NELAP	0.0020		< 0.0020	mg/L	1	11/14/2024 11:21	231106
Chromium	NELAP	0.0050		< 0.0050	mg/L	1	11/14/2024 11:21	231106
Cobalt	NELAP	0.0050		< 0.0050	mg/L	1	11/14/2024 11:21	231106
Copper	NELAP	0.0050		< 0.0050	mg/L	1	11/14/2024 11:21	231106
Iron	NELAP	0.0400		0.166	mg/L	1	11/14/2024 11:21	231106
Manganese	NELAP	0.0070		0.0127	mg/L	1	11/14/2024 11:21	231106
Nickel	NELAP	0.0050		< 0.0050	mg/L	1	11/14/2024 11:21	231106
Selenium	NELAP	0.0400		< 0.0400	mg/L	1	11/14/2024 11:21	231106
Silver	NELAP	0.0070		< 0.0070	mg/L	1	11/14/2024 11:21	231106
Vanadium	NELAP	0.0100		< 0.0100	mg/L	1	11/14/2024 11:21	231106
Zinc	NELAP	0.0100		< 0.0100	mg/L	1	11/14/2024 11:21	231106
SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)								
Antimony	NELAP	0.0010		0.0013	mg/L	5	11/16/2024 9:29	231145
Arsenic	NELAP	0.0010	J	0.0006	mg/L	5	11/16/2024 9:29	231145
Lead	NELAP	0.0010		< 0.0010	mg/L	5	11/16/2024 9:29	231145
Thallium	NELAP	0.0020		< 0.0020	mg/L	5	11/16/2024 9:29	231145
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010	J	0.0007	mg/L	5	11/18/2024 11:35	231106
Arsenic	NELAP	0.0010	J	0.0009	mg/L	5	11/16/2024 9:23	231106
Lead	NELAP	0.0010		< 0.0010	mg/L	5	11/16/2024 9:23	231106
Thallium	NELAP	0.0020	J	0.0010	mg/L	5	11/16/2024 9:23	231106
SW-846 7470A (DISSOLVED)								
Mercury	NELAP	0.00020		< 0.00020	mg/L	1	11/14/2024 12:12	231146
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		< 0.00020	mg/L	1	11/14/2024 12:04	231146



Laboratory Results

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24110005

Client Project: Meredosia GW Monitoring Q4 2024

Report Date: 11-Dec-24

Lab ID: 24110005-007

Client Sample ID: APW-7

Matrix: GROUNDWATER

Collection Date: 11/13/2024 9:42

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		418.79	ft	1	11/13/2024 9:42	R356411
Depth to water	*	-5.00		9.95	ft	1	11/13/2024 9:42	R356411
Depth to water from measuring point	*	0		13.65	ft	1	11/13/2024 9:42	R356411
Elevation of groundwater surface	*	0		425.05	ft	1	11/13/2024 9:42	R356411
Measuring Point Elevation	*	0		438.70	ft	1	11/13/2024 9:42	R356411
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		9.3	NTU	1	11/13/2024 9:42	R356411
STANDARD METHODS 18TH ED. 2580 B FIELD								
Oxidation-Reduction Potential	*	-2000		134	mV	1	11/13/2024 9:42	R356411
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		15.8	°C	1	11/13/2024 9:42	R356411
STANDARD METHODS 4500-O G FIELD								
Oxygen, Dissolved	*	0		6.34	mg/L	1	11/13/2024 9:42	R356411
SW-846 9040B								
pH, Field	*	1.00		6.95		1	11/13/2024 9:42	R356411
SW-846 9050A								
Spec. Conductance, Field	*	1.00		882	µS/cm	1	11/13/2024 9:42	R356411
STANDARD METHODS 2540 C (DISSOLVED) 1997, 2011								
Total Dissolved Solids	NELAP	20		422	mg/L	1	11/19/2024 14:14	R356516
STANDARD METHODS 4500-NO3 F (DISSOLVED) 2000, 2011								
Nitrogen, Nitrate (as N)	NELAP	0.250		2.43	mg/L	1	11/13/2024 20:17	R356123
SW-846 9012A (TOTAL)								
Cyanide	NELAP	0.005		< 0.005	mg/L	1	11/18/2024 18:23	231265
SW846 9056A DISSOLVED ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50	J	0.23	mg/L	10	11/14/2024 18:30	R356148
Chloride	NELAP	5.00		34.6	mg/L	10	11/14/2024 18:30	R356148
Sulfate	NELAP	10.0		25.3	mg/L	10	11/14/2024 18:30	R356148
SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)								
Barium	NELAP	0.0025		0.0417	mg/L	1	11/20/2024 10:43	231157
Beryllium	NELAP	0.0005		< 0.0005	mg/L	1	11/20/2024 10:43	231157
Boron	NELAP	0.0200		0.141	mg/L	1	11/20/2024 10:43	231157
Cadmium	NELAP	0.0020		< 0.0020	mg/L	1	11/20/2024 10:43	231157
Chromium	NELAP	0.0050		< 0.0050	mg/L	1	11/20/2024 10:43	231157
Cobalt	NELAP	0.0050	J	0.0028	mg/L	1	11/20/2024 10:43	231157
Copper	NELAP	0.0050		0.0158	mg/L	1	11/20/2024 10:43	231157
Iron	NELAP	0.0400		< 0.0400	mg/L	1	11/20/2024 10:43	231157
Manganese	NELAP	0.0070	J	0.0031	mg/L	1	11/20/2024 10:43	231157
Nickel	NELAP	0.0050	J	0.0037	mg/L	1	11/20/2024 10:43	231157
Selenium	NELAP	0.0400		< 0.0400	mg/L	1	11/20/2024 10:43	231157
Silver	NELAP	0.0070		< 0.0070	mg/L	1	11/20/2024 10:43	231157
Vanadium	NELAP	0.0100		< 0.0100	mg/L	1	11/20/2024 10:43	231157
Zinc	NELAP	0.0100		0.0143	mg/L	1	11/20/2024 10:43	231157
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		0.0554	mg/L	1	11/15/2024 17:06	231176
Beryllium	NELAP	0.0005		< 0.0005	mg/L	1	11/15/2024 17:06	231176



Laboratory Results

Client: AmerenEnergy Medina Valley Cogen, LLC
Client Project: Meredosia GW Monitoring Q4 2024
Lab ID: 24110005-007
Matrix: GROUNDWATER

Work Order: 24110005
Report Date: 11-Dec-24

Client Sample ID: APW-7

Collection Date: 11/13/2024 9:42

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Boron	NELAP	0.0200		0.149	mg/L	1	11/15/2024 17:06	231176
Cadmium	NELAP	0.0020		< 0.0020	mg/L	1	11/15/2024 17:06	231176
Chromium	NELAP	0.0050		< 0.0050	mg/L	1	11/15/2024 17:06	231176
Cobalt	NELAP	0.0050		< 0.0050	mg/L	1	11/15/2024 17:06	231176
Copper	NELAP	0.0050		0.0312	mg/L	1	11/15/2024 17:06	231176
Iron	NELAP	0.0400		0.735	mg/L	1	11/15/2024 17:06	231176
Manganese	NELAP	0.0070		0.0693	mg/L	1	11/15/2024 17:06	231176
Nickel	NELAP	0.0050		< 0.0050	mg/L	1	11/15/2024 17:06	231176
Selenium	NELAP	0.0400		< 0.0400	mg/L	1	11/15/2024 17:06	231176
Silver	NELAP	0.0070		< 0.0070	mg/L	1	11/15/2024 17:06	231176
Vanadium	NELAP	0.010	J	0.0027	mg/L	1	11/15/2024 17:06	231176
Zinc	NELAP	0.0100		0.0114	mg/L	1	11/15/2024 17:06	231176
SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)								
Antimony	NELAP	0.0010		< 0.0010	mg/L	5	12/06/2024 9:38	231953
Arsenic	NELAP	0.0010	J	0.0005	mg/L	5	12/06/2024 9:38	231953
Lead	NELAP	0.0010		< 0.0010	mg/L	5	12/06/2024 9:38	231953
Thallium	NELAP	0.0020	J	0.0010	mg/L	5	11/18/2024 21:21	231157
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		< 0.0010	mg/L	5	11/19/2024 2:48	231176
Arsenic	NELAP	0.0010	J	0.0009	mg/L	5	11/19/2024 2:48	231176
Lead	NELAP	0.0010		< 0.0010	mg/L	5	11/19/2024 2:48	231176
Thallium	NELAP	0.0020		< 0.0020	mg/L	5	11/19/2024 2:48	231176
<i>LCS recovered outside upper control limits. Sample results are below the reporting limit. Data is reportable per the TNI Standard.</i>								
SW-846 7470A (DISSOLVED)								
Mercury	NELAP	0.00020		< 0.00020	mg/L	1	11/20/2024 13:07	231381
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		< 0.00020	mg/L	1	11/20/2024 13:05	231381



Laboratory Results

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24110005

Client Project: Meredosia GW Monitoring Q4 2024

Report Date: 11-Dec-24

Lab ID: 24110005-008

Client Sample ID: APW-8

Matrix: GROUNDWATER

Collection Date: 11/14/2024 12:23

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		420.98	ft	1	11/14/2024 12:23	R356411
Depth to water	*	-5.00		35.74	ft	1	11/14/2024 12:23	R356411
Depth to water from measuring point	*	0		39.14	ft	1	11/14/2024 12:23	R356411
Elevation of groundwater surface	*	0		424.76	ft	1	11/14/2024 12:23	R356411
Measuring Point Elevation	*	0		463.90	ft	1	11/14/2024 12:23	R356411
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		5.6	NTU	1	11/14/2024 12:23	R356411
STANDARD METHODS 18TH ED. 2580 B FIELD								
Oxidation-Reduction Potential	*	-2000		96	mV	1	11/14/2024 12:23	R356411
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		14.8	°C	1	11/14/2024 12:23	R356411
STANDARD METHODS 4500-O G FIELD								
Oxygen, Dissolved	*	0		7.70	mg/L	1	11/14/2024 12:23	R356411
SW-846 9040B								
pH, Field	*	1.00		7.45		1	11/14/2024 12:23	R356411
SW-846 9050A								
Spec. Conductance, Field	*	1.00		758	µS/cm	1	11/14/2024 12:23	R356411
STANDARD METHODS 2540 C (DISSOLVED) 1997, 2011								
Total Dissolved Solids	NELAP	20	H	402	mg/L	1	11/21/2024 16:55	R356629
<i>Sample analysis did not meet hold time requirements.</i>								
STANDARD METHODS 4500-NO3 F (DISSOLVED) 2000, 2011								
Nitrogen, Nitrate (as N)	NELAP	0.250		2.86	mg/L	1	11/14/2024 21:08	R356250
SW-846 9012A (TOTAL)								
Cyanide	NELAP	0.005		< 0.005	mg/L	1	11/18/2024 18:27	231265
SW846 9056A DISSOLVED ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		ND	mg/L	10	11/15/2024 18:14	R356222
Chloride	NELAP	5.00		8.28	mg/L	10	11/15/2024 18:14	R356222
Sulfate	NELAP	10.0		93.0	mg/L	10	11/15/2024 18:14	R356222
SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)								
Barium	NELAP	0.0025		0.0358	mg/L	1	11/18/2024 20:36	231264
Beryllium	NELAP	0.0005		< 0.0005	mg/L	1	11/18/2024 20:36	231264
Boron	NELAP	0.0200	X	3.79	mg/L	1	11/21/2024 10:08	231264
Cadmium	NELAP	0.0020		< 0.0020	mg/L	1	11/18/2024 20:36	231264
Chromium	NELAP	0.0050		0.0087	mg/L	1	11/18/2024 20:36	231264
Cobalt	NELAP	0.0050		< 0.0050	mg/L	1	11/18/2024 20:36	231264
Copper	NELAP	0.0050		0.0060	mg/L	1	11/18/2024 20:36	231264
Iron	NELAP	0.0400		< 0.0400	mg/L	1	11/18/2024 20:36	231264
Manganese	NELAP	0.0070		< 0.0070	mg/L	1	11/18/2024 20:36	231264
Nickel	NELAP	0.0050		< 0.0050	mg/L	1	11/18/2024 20:36	231264
Selenium	NELAP	0.040	J	0.028	mg/L	1	11/18/2024 20:36	231264
Silver	NELAP	0.0070		< 0.0070	mg/L	1	11/21/2024 10:08	231264
Vanadium	NELAP	0.0100		< 0.0100	mg/L	1	11/18/2024 20:36	231264
Zinc	NELAP	0.0100		< 0.0100	mg/L	1	11/18/2024 20:36	231264
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		0.0406	mg/L	1	11/19/2024 13:38	231255



Laboratory Results

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24110005

Client Project: Meredosia GW Monitoring Q4 2024

Report Date: 11-Dec-24

Lab ID: 24110005-008

Client Sample ID: APW-8

Matrix: GROUNDWATER

Collection Date: 11/14/2024 12:23

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Beryllium	NELAP	0.0005		< 0.0005	mg/L	1	11/19/2024 13:38	231255
Boron	NELAP	0.0200		4.19	mg/L	1	11/19/2024 13:38	231255
Cadmium	NELAP	0.0020		< 0.0020	mg/L	1	11/19/2024 13:38	231255
Chromium	NELAP	0.0050		0.0096	mg/L	1	11/19/2024 13:38	231255
Cobalt	NELAP	0.0050		< 0.0050	mg/L	1	11/19/2024 13:38	231255
Copper	NELAP	0.0050		0.0060	mg/L	1	11/19/2024 13:38	231255
Iron	NELAP	0.0400		0.157	mg/L	1	11/19/2024 13:38	231255
Manganese	NELAP	0.0070		0.0144	mg/L	1	11/19/2024 13:38	231255
Nickel	NELAP	0.0050		< 0.0050	mg/L	1	11/19/2024 13:38	231255
Selenium	NELAP	0.0400		0.0444	mg/L	1	11/19/2024 13:38	231255
Silver	NELAP	0.0070		< 0.0070	mg/L	1	11/19/2024 13:38	231255
Vanadium	NELAP	0.010	J	0.0020	mg/L	1	11/19/2024 13:38	231255
Zinc	NELAP	0.0100		< 0.0100	mg/L	1	11/19/2024 13:38	231255

Allowable Marginal Exceedance of Ag in the laboratory control sample is verified per the TNI Standard.

SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)								
Antimony	NELAP	0.0010		< 0.0010	mg/L	5	11/20/2024 14:50	231264
Arsenic	NELAP	0.0010		0.0015	mg/L	5	11/20/2024 14:50	231264
Lead	NELAP	0.0010		< 0.0010	mg/L	5	12/06/2024 9:49	231953
Thallium	NELAP	0.0020		< 0.0020	mg/L	5	11/20/2024 14:50	231264

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		< 0.0010	mg/L	5	11/20/2024 19:08	231255
Arsenic	NELAP	0.0010		0.0016	mg/L	5	11/20/2024 19:08	231255
Lead	NELAP	0.0010		< 0.0010	mg/L	5	11/20/2024 19:08	231255
Thallium	NELAP	0.0020		< 0.0020	mg/L	5	11/20/2024 19:08	231255

LCS recovered outside upper control limits. Sample results are below the reporting limit. Data is reportable per the TNI Standard.

SW-846 7470A (DISSOLVED)								
Mercury	NELAP	0.00020		< 0.00020	mg/L	1	11/19/2024 18:18	231329

SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		< 0.00020	mg/L	1	11/19/2024 18:11	231329



Laboratory Results

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24110005

Client Project: Meredosia GW Monitoring Q4 2024

Report Date: 11-Dec-24

Lab ID: 24110005-009

Client Sample ID: APW-9

Matrix: GROUNDWATER

Collection Date: 11/14/2024 10:14

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		415.83	ft	1	11/14/2024 10:15	R356411
Depth to water	*	-5.00		21.28	ft	1	11/14/2024 10:15	R356411
Depth to water from measuring point	*	0		24.38	ft	1	11/14/2024 10:15	R356411
Elevation of groundwater surface	*	0		423.72	ft	1	11/14/2024 10:15	R356411
Measuring Point Elevation	*	0		448.10	ft	1	11/14/2024 10:15	R356411
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		4.2	NTU	1	11/14/2024 10:15	R356411
STANDARD METHODS 18TH ED. 2580 B FIELD								
Oxidation-Reduction Potential	*	-2000		117	mV	1	11/14/2024 10:15	R356411
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		15.5	°C	1	11/14/2024 10:15	R356411
STANDARD METHODS 4500-O G FIELD								
Oxygen, Dissolved	*	0		9.37	mg/L	1	11/14/2024 10:15	R356411
SW-846 9040B								
pH, Field	*	1.00		7.11		1	11/14/2024 10:15	R356411
SW-846 9050A								
Spec. Conductance, Field	*	1.00		1220	µS/cm	1	11/14/2024 10:15	R356411
STANDARD METHODS 2540 C (DISSOLVED) 1997, 2011								
Total Dissolved Solids	NELAP	20	H	720	mg/L	1	11/21/2024 16:56	R356629
<i>Sample analysis did not meet hold time requirements.</i>								
STANDARD METHODS 4500-NO3 F (DISSOLVED) 2000, 2011								
Nitrogen, Nitrate (as N)	NELAP	0.250		2.65	mg/L	1	11/14/2024 21:10	R356250
SW-846 9012A (TOTAL)								
Cyanide	NELAP	0.005		< 0.005	mg/L	1	11/18/2024 18:32	231265
SW846 9056A DISSOLVED ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50	J	0.42	mg/L	10	11/15/2024 19:36	R356222
Chloride	NELAP	5.0	J	1.0	mg/L	10	11/15/2024 19:36	R356222
Sulfate	NELAP	10.0		353	mg/L	10	11/15/2024 19:36	R356222
SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)								
Barium	NELAP	0.0025		0.0155	mg/L	1	11/18/2024 20:50	231264
Beryllium	NELAP	0.0005		< 0.0005	mg/L	1	11/18/2024 20:50	231264
Boron	NELAP	0.0200		0.988	mg/L	1	11/18/2024 20:50	231264
Cadmium	NELAP	0.0020		< 0.0020	mg/L	1	11/18/2024 20:50	231264
Chromium	NELAP	0.0050		< 0.0050	mg/L	1	11/18/2024 20:50	231264
Cobalt	NELAP	0.0050		< 0.0050	mg/L	1	11/18/2024 20:50	231264
Copper	NELAP	0.0050	J	0.0040	mg/L	1	11/18/2024 20:50	231264
Iron	NELAP	0.0400		< 0.0400	mg/L	1	11/18/2024 20:50	231264
Manganese	NELAP	0.0070		< 0.0070	mg/L	1	11/18/2024 20:50	231264
Nickel	NELAP	0.0050		< 0.0050	mg/L	1	11/18/2024 20:50	231264
Selenium	NELAP	0.0400		< 0.0400	mg/L	1	11/18/2024 20:50	231264
Silver	NELAP	0.0070		< 0.0070	mg/L	1	11/18/2024 20:50	231264
Vanadium	NELAP	0.010	J	0.0027	mg/L	1	11/18/2024 20:50	231264
Zinc	NELAP	0.0100		< 0.0100	mg/L	1	11/18/2024 20:50	231264
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		0.0189	mg/L	1	11/19/2024 13:40	231255



Laboratory Results

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24110005

Client Project: Meredosia GW Monitoring Q4 2024

Report Date: 11-Dec-24

Lab ID: 24110005-009

Client Sample ID: APW-9

Matrix: GROUNDWATER

Collection Date: 11/14/2024 10:14

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Beryllium	NELAP	0.0005		< 0.0005	mg/L	1	11/19/2024 13:40	231255
Boron	NELAP	0.0200		1.17	mg/L	1	11/19/2024 13:40	231255
Cadmium	NELAP	0.0020		< 0.0020	mg/L	1	11/19/2024 13:40	231255
Chromium	NELAP	0.0050		< 0.0050	mg/L	1	11/19/2024 13:40	231255
Cobalt	NELAP	0.0050		< 0.0050	mg/L	1	11/19/2024 13:40	231255
Copper	NELAP	0.0050		0.0054	mg/L	1	11/19/2024 13:40	231255
Iron	NELAP	0.0400		0.0757	mg/L	1	11/19/2024 13:40	231255
Manganese	NELAP	0.0070		0.0126	mg/L	1	11/19/2024 13:40	231255
Nickel	NELAP	0.0050		< 0.0050	mg/L	1	11/19/2024 13:40	231255
Selenium	NELAP	0.0400		< 0.0400	mg/L	1	11/19/2024 13:40	231255
Silver	NELAP	0.0070		< 0.0070	mg/L	1	11/19/2024 13:40	231255
Vanadium	NELAP	0.010	J	0.0033	mg/L	1	11/19/2024 13:40	231255
Zinc	NELAP	0.0100		< 0.0100	mg/L	1	11/19/2024 13:40	231255

Allowable Marginal Exceedance of Ag in the laboratory control sample is verified per the TNI Standard.

SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)								
Antimony	NELAP	0.0010		< 0.0010	mg/L	5	11/20/2024 15:53	231264
Arsenic	NELAP	0.0010		0.0011	mg/L	5	11/20/2024 15:53	231264
Lead	NELAP	0.0010		< 0.0010	mg/L	5	11/20/2024 15:53	231264
Thallium	NELAP	0.0020		< 0.0020	mg/L	5	11/20/2024 15:53	231264

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		< 0.0010	mg/L	5	11/20/2024 19:14	231255
Arsenic	NELAP	0.0010		0.0013	mg/L	5	11/20/2024 19:14	231255
Lead	NELAP	0.0010		< 0.0010	mg/L	5	11/20/2024 19:14	231255
Thallium	NELAP	0.0020		< 0.0020	mg/L	5	11/20/2024 19:14	231255

LCS recovered outside upper control limits. Sample results are below the reporting limit. Data is reportable per the TNI Standard.

SW-846 7470A (DISSOLVED)								
Mercury	NELAP	0.00020		< 0.00020	mg/L	1	11/19/2024 18:27	231329

SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		< 0.00020	mg/L	1	11/19/2024 18:20	231329



Laboratory Results

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24110005

Client Project: Meredosia GW Monitoring Q4 2024

Report Date: 11-Dec-24

Lab ID: 24110005-010

Client Sample ID: APW-1 DUP

Matrix: GROUNDWATER

Collection Date: 11/13/2024 12:32

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		421.21	ft	1	11/13/2024 12:32	R356411
Depth to water	*	-5.00		18.72	ft	1	11/13/2024 12:32	R356411
Depth to water from measuring point	*	0		21.92	ft	1	11/13/2024 12:32	R356411
Elevation of groundwater surface	*	0		427.34	ft	1	11/13/2024 12:32	R356411
Measuring Point Elevation	*	0		449.26	ft	1	11/13/2024 12:32	R356411
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		28	NTU	1	11/13/2024 12:32	R356411
STANDARD METHODS 18TH ED. 2580 B FIELD								
Oxidation-Reduction Potential	*	-2000		9	mV	1	11/13/2024 12:32	R356411
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		16.6	°C	1	11/13/2024 12:32	R356411
STANDARD METHODS 4500-O G FIELD								
Oxygen, Dissolved	*	0		5.91	mg/L	1	11/13/2024 12:32	R356411
SW-846 9040B								
pH, Field	*	1.00		7.22		1	11/13/2024 12:32	R356411
SW-846 9050A								
Spec. Conductance, Field	*	1.00		791	µS/cm	1	11/13/2024 12:32	R356411
STANDARD METHODS 2540 C (DISSOLVED) 1997, 2011								
Total Dissolved Solids	NELAP	20		340	mg/L	1	11/19/2024 14:16	R356516
STANDARD METHODS 4500-NO3 F (DISSOLVED) 2000, 2011								
Nitrogen, Nitrate (as N)	NELAP	0.500		5.07	mg/L	1	11/13/2024 20:33	R356123
SW-846 9012A (TOTAL)								
Cyanide	NELAP	0.005		< 0.005	mg/L	1	11/18/2024 18:36	231265
SW846 9056A DISSOLVED ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50	J	0.26	mg/L	10	11/14/2024 18:42	R356148
Chloride	NELAP	5.00		68.1	mg/L	10	11/14/2024 18:42	R356148
Sulfate	NELAP	10.0		11.5	mg/L	10	11/14/2024 18:42	R356148
SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)								
Barium	NELAP	0.0025		0.0122	mg/L	1	11/20/2024 10:44	231157
Beryllium	NELAP	0.0005		< 0.0005	mg/L	1	11/20/2024 10:44	231157
Boron	NELAP	0.0200		0.0342	mg/L	1	11/20/2024 10:44	231157
Cadmium	NELAP	0.0020		< 0.0020	mg/L	1	11/20/2024 10:44	231157
Chromium	NELAP	0.0050		< 0.0050	mg/L	1	11/20/2024 10:44	231157
Cobalt	NELAP	0.0050		< 0.0050	mg/L	1	11/20/2024 10:44	231157
Copper	NELAP	0.0050		< 0.0050	mg/L	1	11/20/2024 10:44	231157
Iron	NELAP	0.0400		< 0.0400	mg/L	1	11/20/2024 10:44	231157
Manganese	NELAP	0.0070		0.0161	mg/L	1	11/20/2024 10:44	231157
Nickel	NELAP	0.0050		< 0.0050	mg/L	1	11/20/2024 10:44	231157
Selenium	NELAP	0.0400		< 0.0400	mg/L	1	11/20/2024 10:44	231157
Silver	NELAP	0.0070		< 0.0070	mg/L	1	11/20/2024 10:44	231157
Vanadium	NELAP	0.0100		< 0.0100	mg/L	1	11/20/2024 10:44	231157
Zinc	NELAP	0.0100		< 0.0100	mg/L	1	11/20/2024 10:44	231157
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		0.0288	mg/L	1	11/15/2024 17:08	231176
Beryllium	NELAP	0.0005	J	0.0003	mg/L	1	11/15/2024 17:08	231176



Laboratory Results

Client: AmerenEnergy Medina Valley Cogen, LLC
Client Project: Meredosia GW Monitoring Q4 2024
Lab ID: 24110005-010
Matrix: GROUNDWATER

Work Order: 24110005
Report Date: 11-Dec-24

Client Sample ID: APW-1 DUP
Collection Date: 11/13/2024 12:32

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Boron	NELAP	0.0200		0.0326	mg/L	1	11/15/2024 17:08	231176
Cadmium	NELAP	0.0020		< 0.0020	mg/L	1	11/15/2024 17:08	231176
Chromium	NELAP	0.0050	J	0.0039	mg/L	1	11/15/2024 17:08	231176
Cobalt	NELAP	0.0050		0.0071	mg/L	1	11/15/2024 17:08	231176
Copper	NELAP	0.0050		0.0342	mg/L	1	11/15/2024 17:08	231176
Iron	NELAP	0.0400		3.77	mg/L	1	11/15/2024 17:08	231176
Manganese	NELAP	0.0070		0.372	mg/L	1	11/15/2024 17:08	231176
Nickel	NELAP	0.0050		0.0125	mg/L	1	11/15/2024 17:08	231176
Selenium	NELAP	0.0400		< 0.0400	mg/L	1	11/15/2024 17:08	231176
Silver	NELAP	0.0070		< 0.0070	mg/L	1	11/15/2024 17:08	231176
Vanadium	NELAP	0.010	J	0.0060	mg/L	1	11/15/2024 17:08	231176
Zinc	NELAP	0.0100		0.0265	mg/L	1	11/15/2024 17:08	231176
SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)								
Antimony	NELAP	0.0010		< 0.0010	mg/L	5	11/18/2024 21:27	231157
Arsenic	NELAP	0.0010	J	0.0004	mg/L	5	11/18/2024 21:27	231157
Lead	NELAP	0.0010		< 0.0010	mg/L	5	11/18/2024 21:27	231157
Thallium	NELAP	0.0020		< 0.0020	mg/L	5	11/18/2024 21:27	231157
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		< 0.0010	mg/L	5	11/19/2024 2:53	231176
Arsenic	NELAP	0.0010		0.0027	mg/L	5	11/19/2024 2:53	231176
Lead	NELAP	0.0010		0.0040	mg/L	5	11/19/2024 2:53	231176
Thallium	NELAP	0.0020		< 0.0020	mg/L	5	11/19/2024 2:53	231176
<i>LCS recovered outside upper control limits. Sample results are below the reporting limit. Data is reportable per the TNI Standard.</i>								
SW-846 7470A (DISSOLVED)								
Mercury	NELAP	0.00020		< 0.00020	mg/L	1	11/20/2024 13:12	231381
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		< 0.00020	mg/L	1	11/20/2024 13:09	231381



Laboratory Results

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24110005

Client Project: Meredosia GW Monitoring Q4 2024

Report Date: 11-Dec-24

Lab ID: 24110005-011

Client Sample ID: Field Blank

Matrix: AQUEOUS

Collection Date: 11/14/2024 12:08

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
STANDARD METHODS 2540 C (DISSOLVED) 1997, 2011								
Total Dissolved Solids	NELAP	20	H	< 20	mg/L	1	11/21/2024 16:56	R356629
<i>Sample analysis did not meet hold time requirements.</i>								
STANDARD METHODS 4500-NO3 F (DISSOLVED) 2000, 2011								
Nitrogen, Nitrate (as N)	NELAP	0.050	J	0.013	mg/L	1	11/14/2024 21:30	R356250
SW-846 9012A (TOTAL)								
Cyanide	NELAP	0.005		< 0.005	mg/L	1	11/18/2024 18:40	231265
SW846 9056A DISSOLVED ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		ND	mg/L	10	11/15/2024 20:11	R356222
Chloride	NELAP	5.00		ND	mg/L	10	11/15/2024 20:11	R356222
Sulfate	NELAP	10.0		ND	mg/L	10	11/15/2024 20:11	R356222
SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)								
Barium	NELAP	0.0025		< 0.0025	mg/L	1	11/18/2024 20:52	231264
Beryllium	NELAP	0.0005		< 0.0005	mg/L	1	11/18/2024 20:52	231264
Boron	NELAP	0.0200		< 0.0200	mg/L	1	11/18/2024 20:52	231264
Cadmium	NELAP	0.0020		< 0.0020	mg/L	1	11/18/2024 20:52	231264
Chromium	NELAP	0.0050		< 0.0050	mg/L	1	11/18/2024 20:52	231264
Cobalt	NELAP	0.0050		< 0.0050	mg/L	1	11/18/2024 20:52	231264
Copper	NELAP	0.0050		< 0.0050	mg/L	1	11/18/2024 20:52	231264
Iron	NELAP	0.0400		< 0.0400	mg/L	1	11/18/2024 20:52	231264
Manganese	NELAP	0.0070		< 0.0070	mg/L	1	11/18/2024 20:52	231264
Nickel	NELAP	0.0050		< 0.0050	mg/L	1	11/18/2024 20:52	231264
Selenium	NELAP	0.0400		< 0.0400	mg/L	1	11/18/2024 20:52	231264
Silver	NELAP	0.0070		< 0.0070	mg/L	1	11/18/2024 20:52	231264
Vanadium	NELAP	0.0100		< 0.0100	mg/L	1	11/18/2024 20:52	231264
Zinc	NELAP	0.0100		< 0.0100	mg/L	1	11/18/2024 20:52	231264
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		< 0.0025	mg/L	1	11/19/2024 13:41	231255
Beryllium	NELAP	0.0005		< 0.0005	mg/L	1	11/19/2024 13:41	231255
Boron	NELAP	0.0200		< 0.0200	mg/L	1	11/19/2024 13:41	231255
Cadmium	NELAP	0.0020		< 0.0020	mg/L	1	11/19/2024 13:41	231255
Chromium	NELAP	0.0050		< 0.0050	mg/L	1	11/19/2024 13:41	231255
Cobalt	NELAP	0.0050		< 0.0050	mg/L	1	11/19/2024 13:41	231255
Copper	NELAP	0.0050		< 0.0050	mg/L	1	11/19/2024 13:41	231255
Iron	NELAP	0.0400		< 0.0400	mg/L	1	11/19/2024 13:41	231255
Manganese	NELAP	0.0070		< 0.0070	mg/L	1	11/19/2024 13:41	231255
Nickel	NELAP	0.0050		< 0.0050	mg/L	1	11/19/2024 13:41	231255
Selenium	NELAP	0.0400		< 0.0400	mg/L	1	11/19/2024 13:41	231255
Silver	NELAP	0.0070		< 0.0070	mg/L	1	11/19/2024 13:41	231255
Vanadium	NELAP	0.0100		< 0.0100	mg/L	1	11/19/2024 13:41	231255
Zinc	NELAP	0.0100		< 0.0100	mg/L	1	11/19/2024 13:41	231255
<i>Allowable Marginal Exceedance of Ag in the laboratory control sample is verified per the TNI Standard.</i>								
SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)								
Antimony	NELAP	0.0010		< 0.0010	mg/L	5	11/20/2024 15:58	231264
Arsenic	NELAP	0.0010		< 0.0010	mg/L	5	11/20/2024 15:58	231264
Lead	NELAP	0.0010		< 0.0010	mg/L	5	11/20/2024 15:58	231264
Thallium	NELAP	0.0020		< 0.0020	mg/L	5	11/20/2024 15:58	231264



Laboratory Results

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

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24110005

Client Project: Meredosia GW Monitoring Q4 2024

Report Date: 11-Dec-24

Lab ID: 24110005-011

Client Sample ID: Field Blank

Matrix: AQUEOUS

Collection Date: 11/14/2024 12:08

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		< 0.0010	mg/L	5	11/20/2024 19:20	231255
Arsenic	NELAP	0.0010		< 0.0010	mg/L	5	11/20/2024 19:20	231255
Lead	NELAP	0.0010		< 0.0010	mg/L	5	11/20/2024 19:20	231255
Thallium	NELAP	0.0020		< 0.0020	mg/L	5	11/20/2024 19:20	231255
<i>LCS recovered outside upper control limits. Sample results are below the reporting limit. Data is reportable per the TNI Standard.</i>								
SW-846 7470A (DISSOLVED)								
Mercury	NELAP	0.00020		< 0.00020	mg/L	1	11/19/2024 18:36	231329
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		< 0.00020	mg/L	1	11/19/2024 18:34	231329



Laboratory Results

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24110005

Client Project: Meredosia GW Monitoring Q4 2024

Report Date: 11-Dec-24

Lab ID: 24110005-012

Client Sample ID: APW-10

Matrix: GROUNDWATER

Collection Date: 11/14/2024 10:57

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		414.24	ft	1	11/14/2024 10:57	R356411
Depth to water	*	-5.00		29.20	ft	1	11/14/2024 10:57	R356411
Depth to water from measuring point	*	0		32.55	ft	1	11/14/2024 10:57	R356411
Elevation of groundwater surface	*	0		424.90	ft	1	11/14/2024 10:57	R356411
Measuring Point Elevation	*	0		457.45	ft	1	11/14/2024 10:57	R356411
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		14	NTU	1	11/14/2024 10:57	R356411
STANDARD METHODS 18TH ED. 2580 B FIELD								
Oxidation-Reduction Potential	*	-2000		89	mV	1	11/14/2024 10:57	R356411
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		14.9	°C	1	11/14/2024 10:57	R356411
STANDARD METHODS 4500-O G FIELD								
Oxygen, Dissolved	*	0		7.76	mg/L	1	11/14/2024 10:57	R356411
SW-846 9040B								
pH, Field	*	1.00		7.49		1	11/14/2024 10:57	R356411
SW-846 9050A								
Spec. Conductance, Field	*	1.00		683	µS/cm	1	11/14/2024 10:57	R356411
STANDARD METHODS 2540 C (DISSOLVED) 1997, 2011								
Total Dissolved Solids	NELAP	20	H	340	mg/L	1	11/21/2024 16:56	R356629
<i>Sample analysis did not meet hold time requirements.</i>								
STANDARD METHODS 4500-NO3 F (DISSOLVED) 2000, 2011								
Nitrogen, Nitrate (as N)	NELAP	0.250		2.29	mg/L	1	11/14/2024 21:12	R356250
SW-846 9012A (TOTAL)								
Cyanide	NELAP	0.005		< 0.005	mg/L	1	11/18/2024 18:45	231265
SW846 9056A DISSOLVED ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		ND	mg/L	10	11/15/2024 20:22	R356222
Chloride	NELAP	5.0	J	2.7	mg/L	10	11/15/2024 20:22	R356222
Sulfate	NELAP	10.0		83.6	mg/L	10	11/15/2024 20:22	R356222
SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)								
Barium	NELAP	0.0025		0.0179	mg/L	1	11/18/2024 20:53	231264
Beryllium	NELAP	0.0005		< 0.0005	mg/L	1	11/18/2024 20:53	231264
Boron	NELAP	0.0200		1.45	mg/L	1	11/18/2024 20:53	231264
Cadmium	NELAP	0.0020		< 0.0020	mg/L	1	11/18/2024 20:53	231264
Chromium	NELAP	0.0050		< 0.0050	mg/L	1	11/18/2024 20:53	231264
Cobalt	NELAP	0.0050		< 0.0050	mg/L	1	11/18/2024 20:53	231264
Copper	NELAP	0.0050	J	0.0032	mg/L	1	11/18/2024 20:53	231264
Iron	NELAP	0.0400		< 0.0400	mg/L	1	11/18/2024 20:53	231264
Manganese	NELAP	0.0070		< 0.0070	mg/L	1	11/18/2024 20:53	231264
Nickel	NELAP	0.0050		< 0.0050	mg/L	1	11/18/2024 20:53	231264
Selenium	NELAP	0.0400		< 0.0400	mg/L	1	11/18/2024 20:53	231264
Silver	NELAP	0.0070		< 0.0070	mg/L	1	11/18/2024 20:53	231264
Vanadium	NELAP	0.0100		< 0.0100	mg/L	1	11/18/2024 20:53	231264
Zinc	NELAP	0.0100		< 0.0100	mg/L	1	11/18/2024 20:53	231264
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		0.0228	mg/L	1	11/19/2024 13:43	231255



Laboratory Results

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24110005

Client Project: Meredosia GW Monitoring Q4 2024

Report Date: 11-Dec-24

Lab ID: 24110005-012

Client Sample ID: APW-10

Matrix: GROUNDWATER

Collection Date: 11/14/2024 10:57

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Beryllium	NELAP	0.0005	J	0.0003	mg/L	1	11/19/2024 13:43	231255
Boron	NELAP	0.0200		1.72	mg/L	1	11/19/2024 13:43	231255
Cadmium	NELAP	0.0020		< 0.0020	mg/L	1	11/19/2024 13:43	231255
Chromium	NELAP	0.0050		< 0.0050	mg/L	1	11/19/2024 13:43	231255
Cobalt	NELAP	0.0050		< 0.0050	mg/L	1	11/19/2024 13:43	231255
Copper	NELAP	0.0050		0.0492	mg/L	1	11/19/2024 13:43	231255
Iron	NELAP	0.0400		0.327	mg/L	1	11/19/2024 13:43	231255
Manganese	NELAP	0.0070		0.0615	mg/L	1	11/19/2024 13:43	231255
Nickel	NELAP	0.0050		< 0.0050	mg/L	1	11/19/2024 13:43	231255
Selenium	NELAP	0.0400		< 0.0400	mg/L	1	11/19/2024 13:43	231255
Silver	NELAP	0.0070		< 0.0070	mg/L	1	11/19/2024 13:43	231255
Vanadium	NELAP	0.010	J	0.0022	mg/L	1	11/19/2024 13:43	231255
Zinc	NELAP	0.0100		0.0258	mg/L	1	11/19/2024 13:43	231255

Allowable Marginal Exceedance of Ag in the laboratory control sample is verified per the TNI Standard.

SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)								
Antimony	NELAP	0.0010		< 0.0010	mg/L	5	11/20/2024 16:04	231264
Arsenic	NELAP	0.0010		0.0011	mg/L	5	11/20/2024 16:04	231264
Lead	NELAP	0.0010		< 0.0010	mg/L	5	11/20/2024 16:04	231264
Thallium	NELAP	0.0020		< 0.0020	mg/L	5	11/20/2024 16:04	231264

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		< 0.0010	mg/L	5	11/20/2024 19:25	231255
Arsenic	NELAP	0.0010		0.0015	mg/L	5	11/20/2024 19:25	231255
Lead	NELAP	0.0010		< 0.0010	mg/L	5	11/20/2024 19:25	231255
Thallium	NELAP	0.0020		< 0.0020	mg/L	5	11/20/2024 19:25	231255

LCS recovered outside upper control limits. Sample results are below the reporting limit. Data is reportable per the TNI Standard.

SW-846 7470A (DISSOLVED)								
Mercury	NELAP	0.00020		< 0.00020	mg/L	1	11/19/2024 18:41	231329

SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		< 0.00020	mg/L	1	11/19/2024 18:39	231329



Laboratory Results

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24110005

Client Project: Meredosia GW Monitoring Q4 2024

Report Date: 11-Dec-24

Lab ID: 24110005-013

Client Sample ID: APW-11

Matrix: GROUNDWATER

Collection Date: 11/14/2024 11:31

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		415.89	ft	1	11/14/2024 11:31	R356411
Depth to water	*	-5.00		35.83	ft	1	11/14/2024 11:31	R356411
Depth to water from measuring point	*	0		39.34	ft	1	11/14/2024 11:31	R356411
Elevation of groundwater surface	*	0		426.06	ft	1	11/14/2024 11:31	R356411
Measuring Point Elevation	*	0		465.40	ft	1	11/14/2024 11:31	R356411
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		2.5	NTU	1	11/14/2024 11:31	R356411
STANDARD METHODS 18TH ED. 2580 B FIELD								
Oxidation-Reduction Potential	*	-2000		96	mV	1	11/14/2024 11:31	R356411
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		15.3	°C	1	11/14/2024 11:31	R356411
STANDARD METHODS 4500-O G FIELD								
Oxygen, Dissolved	*	0		6.21	mg/L	1	11/14/2024 11:31	R356411
SW-846 9040B								
pH, Field	*	1.00		7.32		1	11/14/2024 11:31	R356411
SW-846 9050A								
Spec. Conductance, Field	*	1.00		748	µS/cm	1	11/14/2024 11:31	R356411
STANDARD METHODS 2540 C (DISSOLVED) 1997, 2011								
Total Dissolved Solids	NELAP	20	H	398	mg/L	1	11/21/2024 17:01	R356629
<i>Sample analysis did not meet hold time requirements.</i>								
STANDARD METHODS 4500-NO3 F (DISSOLVED) 2000, 2011								
Nitrogen, Nitrate (as N)	NELAP	0.250		2.77	mg/L	1	11/14/2024 21:14	R356250
SW-846 9012A (TOTAL)								
Cyanide	NELAP	0.005		< 0.005	mg/L	1	11/18/2024 19:11	231265
<i>CCV recovered outside the upper control limits. Sample results are below the reporting limit. Data is reportable per the TNI standard.</i>								
SW846 9056A DISSOLVED ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50		ND	mg/L	10	11/15/2024 20:34	R356222
Chloride	NELAP	5.00		8.29	mg/L	10	11/15/2024 20:34	R356222
Sulfate	NELAP	10.0		94.2	mg/L	10	11/15/2024 20:34	R356222
SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)								
Barium	NELAP	0.0025		0.0298	mg/L	1	11/18/2024 20:55	231264
Beryllium	NELAP	0.0005	J	0.0002	mg/L	1	11/18/2024 20:55	231264
Boron	NELAP	0.0200		1.62	mg/L	1	11/18/2024 20:55	231264
Cadmium	NELAP	0.0020		< 0.0020	mg/L	1	11/18/2024 20:55	231264
Chromium	NELAP	0.0050		< 0.0050	mg/L	1	11/18/2024 20:55	231264
Cobalt	NELAP	0.0050		< 0.0050	mg/L	1	11/18/2024 20:55	231264
Copper	NELAP	0.0050		0.0075	mg/L	1	11/18/2024 20:55	231264
Iron	NELAP	0.0400		< 0.0400	mg/L	1	11/18/2024 20:55	231264
Manganese	NELAP	0.0070	J	0.0035	mg/L	1	11/18/2024 20:55	231264
Nickel	NELAP	0.0050		< 0.0050	mg/L	1	11/18/2024 20:55	231264
Selenium	NELAP	0.040	J	0.017	mg/L	1	11/18/2024 20:55	231264
Silver	NELAP	0.0070	J	0.0057	mg/L	1	11/18/2024 20:55	231264
Vanadium	NELAP	0.010	J	0.0026	mg/L	1	11/18/2024 20:55	231264
Zinc	NELAP	0.0100		< 0.0100	mg/L	1	11/18/2024 20:55	231264



Laboratory Results

Client: AmerenEnergy Medina Valley Cogen, LLC
Client Project: Meredosia GW Monitoring Q4 2024
Lab ID: 24110005-013
Matrix: GROUNDWATER

Work Order: 24110005
Report Date: 11-Dec-24

Client Sample ID: APW-11
Collection Date: 11/14/2024 11:31

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		0.0151	mg/L	1	11/19/2024 13:44	231255
Beryllium	NELAP	0.0005		< 0.0005	mg/L	1	11/19/2024 13:44	231255
Boron	NELAP	0.0200		1.92	mg/L	1	11/19/2024 13:44	231255
Cadmium	NELAP	0.0020		< 0.0020	mg/L	1	11/19/2024 13:44	231255
Chromium	NELAP	0.0050		< 0.0050	mg/L	1	11/19/2024 13:44	231255
Cobalt	NELAP	0.0050		< 0.0050	mg/L	1	11/19/2024 13:44	231255
Copper	NELAP	0.0050		0.0196	mg/L	1	11/19/2024 13:44	231255
Iron	NELAP	0.0400		0.0454	mg/L	1	11/19/2024 13:44	231255
Manganese	NELAP	0.0070		0.0211	mg/L	1	11/19/2024 13:44	231255
Nickel	NELAP	0.0050		< 0.0050	mg/L	1	11/19/2024 13:44	231255
Selenium	NELAP	0.040	J	0.017	mg/L	1	11/19/2024 13:44	231255
Silver	NELAP	0.0070		< 0.0070	mg/L	1	11/19/2024 13:44	231255
Vanadium	NELAP	0.0100		< 0.0100	mg/L	1	11/19/2024 13:44	231255
Zinc	NELAP	0.0100		0.0134	mg/L	1	11/19/2024 13:44	231255

Allowable Marginal Exceedance of Ag in the laboratory control sample is verified per the TNI Standard.

SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)								
Antimony	NELAP	0.0010	J	0.0005	mg/L	5	12/06/2024 10:56	231953
Arsenic	NELAP	0.0010	J	0.0007	mg/L	5	12/06/2024 10:56	231953
Lead	NELAP	0.0010		< 0.0010	mg/L	5	12/06/2024 10:56	231953
Thallium	NELAP	0.0020		< 0.0020	mg/L	5	11/21/2024 13:10	231264

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		< 0.0010	mg/L	5	11/20/2024 19:31	231255
Arsenic	NELAP	0.0010	J	0.0004	mg/L	5	11/20/2024 19:31	231255
Lead	NELAP	0.0010		< 0.0010	mg/L	5	11/20/2024 19:31	231255
Thallium	NELAP	0.0020		< 0.0020	mg/L	5	11/20/2024 19:31	231255

LCS recovered outside upper control limits. Sample results are below the reporting limit. Data is reportable per the TNI Standard.

SW-846 7470A (DISSOLVED)								
Mercury	NELAP	0.00020		< 0.00020	mg/L	1	11/19/2024 18:45	231329

SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		< 0.00020	mg/L	1	11/19/2024 18:43	231329



Laboratory Results

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24110005

Client Project: Meredosia GW Monitoring Q4 2024

Report Date: 11-Dec-24

Lab ID: 24110005-014

Client Sample ID: APW-12

Matrix: GROUNDWATER

Collection Date: 11/13/2024 10:19

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		412.09	ft	1	11/13/2024 10:19	R356411
Depth to water	*	-5.00		8.04	ft	1	11/13/2024 10:19	R356411
Depth to water from measuring point	*	0		11.62	ft	1	11/13/2024 10:19	R356411
Elevation of groundwater surface	*	0		423.90	ft	1	11/13/2024 10:19	R356411
Measuring Point Elevation	*	0		435.52	ft	1	11/13/2024 10:19	R356411
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		89	NTU	1	11/13/2024 10:19	R356411
STANDARD METHODS 18TH ED. 2580 B FIELD								
Oxidation-Reduction Potential	*	-2000		128	mV	1	11/13/2024 10:19	R356411
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		14.8	°C	1	11/13/2024 10:19	R356411
STANDARD METHODS 4500-O G FIELD								
Oxygen, Dissolved	*	0		2.51	mg/L	1	11/13/2024 10:19	R356411
SW-846 9040B								
pH, Field	*	1.00		6.84		1	11/13/2024 10:19	R356411
SW-846 9050A								
Spec. Conductance, Field	*	1.00		957	µS/cm	1	11/13/2024 10:19	R356411
STANDARD METHODS 2540 C (DISSOLVED) 1997, 2011								
Total Dissolved Solids	NELAP	20		492	mg/L	1	11/19/2024 14:15	R356516
STANDARD METHODS 4500-NO3 F (DISSOLVED) 2000, 2011								
Nitrogen, Nitrate (as N)	NELAP	0.100		1.84	mg/L	1	11/13/2024 19:36	R356123
SW-846 9012A (TOTAL)								
Cyanide	NELAP	0.005	J	0.002	mg/L	1	11/18/2024 19:15	231265
<i>CCV recovered outside the upper control limits. Sample results are below the reporting limit. Data is reportable per the TNI standard.</i>								
SW846 9056A DISSOLVED ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY								
Fluoride	NELAP	0.50	J	0.30	mg/L	10	11/14/2024 19:17	R356148
Chloride	NELAP	5.00		31.3	mg/L	10	11/14/2024 19:17	R356148
Sulfate	NELAP	10.0		53.9	mg/L	10	11/14/2024 19:17	R356148
SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)								
Barium	NELAP	0.0025		0.105	mg/L	1	11/20/2024 10:44	231157
Beryllium	NELAP	0.0005		< 0.0005	mg/L	1	11/20/2024 10:44	231157
Boron	NELAP	0.0200		0.145	mg/L	1	11/20/2024 10:44	231157
Cadmium	NELAP	0.0020		< 0.0020	mg/L	1	11/20/2024 10:44	231157
Chromium	NELAP	0.0050		< 0.0050	mg/L	1	11/20/2024 10:44	231157
Cobalt	NELAP	0.0050	J	0.0042	mg/L	1	11/20/2024 10:44	231157
Copper	NELAP	0.0050		0.0083	mg/L	1	11/20/2024 10:44	231157
Iron	NELAP	0.0400		< 0.0400	mg/L	1	11/20/2024 10:44	231157
Manganese	NELAP	0.0070	X	1.47	mg/L	1	11/20/2024 10:44	231157
Nickel	NELAP	0.0050		0.0072	mg/L	1	11/20/2024 10:44	231157
Selenium	NELAP	0.0400		< 0.0400	mg/L	1	11/20/2024 10:44	231157
Silver	NELAP	0.0070		< 0.0070	mg/L	1	11/20/2024 10:44	231157
Vanadium	NELAP	0.0100		< 0.0100	mg/L	1	11/20/2024 10:44	231157
Zinc	NELAP	0.0100		< 0.0100	mg/L	1	11/20/2024 10:44	231157
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Barium	NELAP	0.0025		0.123	mg/L	1	11/15/2024 17:09	231176



Laboratory Results

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

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24110005

Client Project: Meredosia GW Monitoring Q4 2024

Report Date: 11-Dec-24

Lab ID: 24110005-014

Client Sample ID: APW-12

Matrix: GROUNDWATER

Collection Date: 11/13/2024 10:19

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3005A, 6010B, METALS BY ICP (TOTAL)								
Beryllium	NELAP	0.0005		< 0.0005	mg/L	1	11/15/2024 17:09	231176
Boron	NELAP	0.0200		0.132	mg/L	1	11/15/2024 17:09	231176
Cadmium	NELAP	0.0020		< 0.0020	mg/L	1	11/15/2024 17:09	231176
Chromium	NELAP	0.0050		< 0.0050	mg/L	1	11/15/2024 17:09	231176
Cobalt	NELAP	0.0050		0.0093	mg/L	1	11/15/2024 17:09	231176
Copper	NELAP	0.0050		0.0180	mg/L	1	11/15/2024 17:09	231176
Iron	NELAP	0.0400		0.196	mg/L	1	11/15/2024 17:09	231176
Manganese	NELAP	0.0070		4.11	mg/L	1	11/19/2024 11:44	231176
Nickel	NELAP	0.0050		0.0153	mg/L	1	11/15/2024 17:09	231176
Selenium	NELAP	0.0400		< 0.0400	mg/L	1	11/15/2024 17:09	231176
Silver	NELAP	0.0070		< 0.0070	mg/L	1	11/15/2024 17:09	231176
Vanadium	NELAP	0.010	J	0.0020	mg/L	1	11/15/2024 17:09	231176
Zinc	NELAP	0.010	J	0.0072	mg/L	1	11/15/2024 17:09	231176
SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)								
Antimony	NELAP	0.0010		< 0.0010	mg/L	5	11/18/2024 21:32	231157
Arsenic	NELAP	0.0010		< 0.0010	mg/L	5	11/18/2024 21:32	231157
Lead	NELAP	0.0010		< 0.0010	mg/L	5	11/18/2024 21:32	231157
Thallium	NELAP	0.0020		< 0.0020	mg/L	5	11/18/2024 21:32	231157
SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)								
Antimony	NELAP	0.0010		< 0.0010	mg/L	5	11/19/2024 3:10	231176
Arsenic	NELAP	0.0010	J	0.0006	mg/L	5	11/19/2024 3:10	231176
Lead	NELAP	0.0010		< 0.0010	mg/L	5	11/19/2024 3:10	231176
Thallium	NELAP	0.0020		< 0.0020	mg/L	5	11/19/2024 3:10	231176
<i>LCS recovered outside upper control limits. Sample results are below the reporting limit. Data is reportable per the TNI Standard.</i>								
SW-846 7470A (DISSOLVED)								
Mercury	NELAP	0.00020		< 0.00020	mg/L	1	11/20/2024 13:21	231381
SW-846 7470A (TOTAL)								
Mercury	NELAP	0.00020		< 0.00020	mg/L	1	11/20/2024 13:18	231381



Laboratory Results

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24110005

Client Project: Meredosia GW Monitoring Q4 2024

Report Date: 11-Dec-24

Lab ID: 24110005-015

Client Sample ID: APW-13

Matrix: GROUNDWATER

Collection Date: 11/13/2024 0:00

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		Dry	ft	1	11/13/2024 0:00	R356411
Depth to water	*	-5.00		Dry	ft	1	11/13/2024 0:00	R356411
Depth to water from measuring point	*	0		Dry	ft	1	11/13/2024 0:00	R356411
Elevation of groundwater surface	*	0		Dry	ft	1	11/13/2024 0:00	R356411
Measuring Point Elevation	*	0		Dry	ft	1	11/13/2024 0:00	R356411
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		Dry	NTU	1	11/13/2024 0:00	R356411
STANDARD METHODS 18TH ED. 2580 B FIELD								
Oxidation-Reduction Potential	*	-2000		Dry	mV	1	11/13/2024 0:00	R356411
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		Dry	°C	1	11/13/2024 0:00	R356411
STANDARD METHODS 4500-O G FIELD								
Oxygen, Dissolved	*	0		Dry	mg/L	1	11/13/2024 0:00	R356411
SW-846 9040B								
pH, Field	*	1.00		Dry		1	11/13/2024 0:00	R356411
SW-846 9050A								
Spec. Conductance, Field	*	1.00		Dry	µS/cm	1	11/13/2024 0:00	R356411



Laboratory Results

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Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24110005

Client Project: Meredosia GW Monitoring Q4 2024

Report Date: 11-Dec-24

Lab ID: 24110005-016

Client Sample ID: APW-14

Matrix: GROUNDWATER

Collection Date: 11/13/2024 0:00

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
FIELD ELEVATION MEASUREMENTS								
Bottom of well elevation	*	0		Dry	ft	1	11/13/2024 0:00	R356411
Depth to water	*	-5.00		Dry	ft	1	11/13/2024 0:00	R356411
Depth to water from measuring point	*	0		Dry	ft	1	11/13/2024 0:00	R356411
Elevation of groundwater surface	*	0		Dry	ft	1	11/13/2024 0:00	R356411
Measuring Point Elevation	*	0		Dry	ft	1	11/13/2024 0:00	R356411
STANDARD METHODS 2130 B FIELD								
Turbidity	*	1.0		Dry	NTU	1	11/13/2024 0:00	R356411
STANDARD METHODS 18TH ED. 2580 B FIELD								
Oxidation-Reduction Potential	*	-2000		Dry	mV	1	11/13/2024 0:00	R356411
STANDARD METHODS 2550 B FIELD								
Temperature	*	0		Dry	°C	1	11/13/2024 0:00	R356411
STANDARD METHODS 4500-O G FIELD								
Oxygen, Dissolved	*	0		Dry	mg/L	1	11/13/2024 0:00	R356411
SW-846 9040B								
pH, Field	*	1.00		Dry		1	11/13/2024 0:00	R356411
SW-846 9050A								
Spec. Conductance, Field	*	1.00		Dry	µS/cm	1	11/13/2024 0:00	R356411



Quality Control Results

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Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24110005

Client Project: Meredosia GW Monitoring Q4 2024

Report Date: 11-Dec-24

SW-846 9040B

Batch R356411		SampType: LCS		Units							
SampID: LCS-1											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
pH, Field	*	1.00		7.02	7.000	0	100.3	98.57	101.4	11/12/2024	

Batch R356411		SampType: LCS		Units							
SampID: LCS-2											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
pH, Field	*	1.00		7.01	7.000	0	100.1	98.57	101.4	11/13/2024	

Batch R356411		SampType: LCS		Units							
SampID: LCS-3											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
pH, Field	*	1.00		7.02	7.000	0	100.3	98.57	101.4	11/14/2024	

SW-846 9050A

Batch R356411		SampType: LCS		Units µmhos/cm @25C							
SampID: LCS-1											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Spec. Conductance, Field	*	1.00		1410	1412	0	100.0	90	110	11/12/2024	

Batch R356411		SampType: LCS		Units µmhos/cm @25C							
SampID: LCS-2											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Spec. Conductance, Field	*	1.00		1420	1412	0	100.4	90	110	11/13/2024	

Batch R356411		SampType: LCS		Units µmhos/cm @25C							
SampID: LCS-3											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Spec. Conductance, Field	*	1.00		1410	1412	0	100.1	90	110	11/14/2024	

STANDARD METHODS 2540 C (DISSOLVED) 1997, 2011

Batch R356333		SampType: MBLK		Units mg/L							
SampID: MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Total Dissolved Solids		20		< 20	16.00	0	0	-100	100	11/15/2024	
Total Dissolved Solids		20		< 20	16.00	0	0	-100	100	11/15/2024	



Quality Control Results

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Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24110005

Client Project: Meredosia GW Monitoring Q4 2024

Report Date: 11-Dec-24

STANDARD METHODS 2540 C (DISSOLVED) 1997, 2011

Batch R356333		SampType: LCS		Units mg/L							Date Analyzed
SampID: LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Total Dissolved Solids		20		980	1000	0	98.0	90	110	11/15/2024	
Total Dissolved Solids		20		1000	1000	0	100.4	90	110	11/15/2024	

Batch R356333		SampType: DUP		Units mg/L							RPD Limit 10	Date Analyzed
SampID: 24111059-001ADUP												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Total Dissolved Solids		50		1500				1480	1.34	11/15/2024		

Batch R356333		SampType: DUP		Units mg/L							RPD Limit 10	Date Analyzed
SampID: 24111234-027ADUP												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Total Dissolved Solids		20		728				774.0	6.13	11/15/2024		

Batch R356333		SampType: DUP		Units mg/L							RPD Limit 10	Date Analyzed
SampID: 24111268-001ADUP												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Total Dissolved Solids		50		745				785.0	5.23	11/15/2024		

Batch R356427		SampType: MBLK		Units mg/L							Date Analyzed
SampID: MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Total Dissolved Solids		20		< 20	16.00	0	0	-100	100	11/18/2024	
Total Dissolved Solids		20		< 20	16.00	0	0	-100	100	11/18/2024	
Total Dissolved Solids		20		< 20	16.00	0	0	-100	100	11/18/2024	

Batch R356427		SampType: LCS		Units mg/L							Date Analyzed
SampID: LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Total Dissolved Solids		20		972	1000	0	97.2	90	110	11/18/2024	
Total Dissolved Solids		20		990	1000	0	99.0	90	110	11/18/2024	
Total Dissolved Solids		20		986	1000	0	98.6	90	110	11/18/2024	

Batch R356427		SampType: DUP		Units mg/L							RPD Limit 10	Date Analyzed
SampID: 24111104-003ADUP												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Total Dissolved Solids		20		508				498.0	1.99	11/18/2024		



Quality Control Results

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

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24110005

Client Project: Meredosia GW Monitoring Q4 2024

Report Date: 11-Dec-24

STANDARD METHODS 2540 C (DISSOLVED) 1997, 2011

Batch R356427		SampType: DUP		Units mg/L				RPD Limit 10			Date Analyzed
SampID: 24111104-018ADUP											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Total Dissolved Solids		20		< 20				0	0.00	11/18/2024	

Batch R356427		SampType: DUP		Units mg/L				RPD Limit 10			Date Analyzed
SampID: 24111234-028ADUP											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Total Dissolved Solids		20		338				334.0	1.19	11/18/2024	

Batch R356427		SampType: DUP		Units mg/L				RPD Limit 10			Date Analyzed
SampID: 24111280-001BDUP											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Total Dissolved Solids		20		558				556.0	0.36	11/18/2024	

Batch R356516		SampType: MBLK		Units mg/L						Date Analyzed
SampID: MBLK										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Total Dissolved Solids		20		< 20	16.00	0	0	-100	100	11/19/2024
Total Dissolved Solids		20		< 20	16.00	0	0	-100	100	11/19/2024
Total Dissolved Solids		20		< 20	16.00	0	0	-100	100	11/19/2024

Batch R356516		SampType: LCS		Units mg/L						Date Analyzed
SampID: LCS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Total Dissolved Solids		20		962	1000	0	96.2	90	110	11/19/2024
Total Dissolved Solids		20		976	1000	0	97.6	90	110	11/19/2024
Total Dissolved Solids		20		1000	1000	0	100.4	90	110	11/19/2024

Batch R356516		SampType: DUP		Units mg/L				RPD Limit 10			Date Analyzed
SampID: 24111104-020ADUP											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Total Dissolved Solids		20		466				436.0	6.65	11/19/2024	

Batch R356629		SampType: MBLK		Units mg/L						Date Analyzed
SampID: MBLK										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Total Dissolved Solids		20		< 20	16.00	0	0	-100	100	11/21/2024
Total Dissolved Solids		20		< 20	16.00	0	0	-100	100	11/21/2024



Quality Control Results

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Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24110005

Client Project: Meredosia GW Monitoring Q4 2024

Report Date: 11-Dec-24

STANDARD METHODS 2540 C (DISSOLVED) 1997, 2011

Batch R356629		SampType: LCS		Units mg/L							Date Analyzed
SampID: LCS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Total Dissolved Solids		20		1010	1000	0	101.0	90	110	11/21/2024	
Total Dissolved Solids		20		970	1000	0	97.0	90	110	11/21/2024	

Batch R356629		SampType: DUP		Units mg/L							RPD Limit 10	Date Analyzed
SampID: 24111150-005ADUP												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Total Dissolved Solids		50	H	2120				2285	7.49	11/21/2024		

STANDARD METHODS 4500-NO2 B (DISSOLVED) 2000, 2011

Batch R356052		SampType: MBLK		Units mg/L							Date Analyzed
SampID: MB-R356052											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrite (as N)		0.05		< 0.05	0.0250	0	0	-100	100	11/12/2024	

Batch R356052		SampType: LCS		Units mg/L							Date Analyzed
SampID: LCS-R356052											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrite (as N)		0.05		0.32	0.3045	0	106.1	90	110	11/12/2024	

Batch R356052		SampType: MS		Units mg/L							Date Analyzed
SampID: 24110005-006BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrite (as N)		0.05		0.53	0.5000	0	106.2	85	115	11/12/2024	

Batch R356052		SampType: MSD		Units mg/L							RPD Limit 10	Date Analyzed
SampID: 24110005-006BMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Nitrogen, Nitrite (as N)		0.05		0.53	0.5000	0	106.0	0.5310	0.19	11/12/2024		

Batch R356173		SampType: MBLK		Units mg/L							Date Analyzed
SampID: MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrite (as N)		0.05		< 0.05	0.0250	0	0	-100	100	11/14/2024	
Nitrogen, Nitrite (as N)		0.05		< 0.05	0.0250	0	0	-100	100	11/14/2024	
Nitrogen, Nitrite (as N)		0.05		< 0.05	0.0250	0	0	-100	100	11/14/2024	



Quality Control Results

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Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24110005

Client Project: Meredosia GW Monitoring Q4 2024

Report Date: 11-Dec-24

STANDARD METHODS 4500-NO2 B (DISSOLVED) 2000, 2011

Batch R356173		SampType: LCS		Units mg/L						
SampID: LCS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrite (as N)		0.05		0.31	0.3045	0	101.5	90	110	11/14/2024
Nitrogen, Nitrite (as N)		0.05		0.31	0.3045	0	101.5	90	110	11/14/2024
Nitrogen, Nitrite (as N)		0.05		0.31	0.3045	0	100.8	90	110	11/14/2024

Batch R356173		SampType: MS		Units mg/L						
SampID: 24102206-003BMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrite (as N)		0.05		0.50	0.5000	0	99.0	85	115	11/14/2024

Batch R356173		SampType: MSD		Units mg/L						
SampID: 24102206-003BMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Nitrite (as N)		0.05		0.50	0.5000	0	99.0	0.4950	0.00	11/14/2024

Batch R356173		SampType: MS		Units mg/L						
SampID: 24102206-018BMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrite (as N)		0.05		0.50	0.5000	0	100.0	85	115	11/14/2024

Batch R356173		SampType: MSD		Units mg/L						
SampID: 24102206-018BMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Nitrite (as N)		0.05		0.50	0.5000	0	99.2	0.5000	0.80	11/14/2024

Batch R356173		SampType: MS		Units mg/L						
SampID: 24110005-012BMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrite (as N)		0.05		0.50	0.5000	0	100.6	85	115	11/14/2024

Batch R356173		SampType: MSD		Units mg/L						
SampID: 24110005-012BMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Nitrogen, Nitrite (as N)		0.05		0.50	0.5000	0	99.8	0.5030	0.80	11/14/2024



Quality Control Results

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

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24110005

Client Project: Meredosia GW Monitoring Q4 2024

Report Date: 11-Dec-24

STANDARD METHODS 4500-NO2 B (DISSOLVED) 2000, 2011

Batch R356173		SampType: MS		Units mg/L							Date Analyzed
SampID: 24111202-001BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrite (as N)		0.05	H	0.53	0.5000	0.02700	100.6	85	115	11/14/2024	

Batch R356173		SampType: MSD		Units mg/L							RPD Limit 10	Date Analyzed
SampID: 24111202-001BMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Nitrogen, Nitrite (as N)		0.05	H	0.53	0.5000	0.02700	100.8	0.5300	0.19	11/14/2024		

Batch R356173		SampType: MS		Units mg/L							Date Analyzed
SampID: 24111247-002AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrite (as N)		0.05	E	0.79	0.5000	0.3240	92.8	85	115	11/14/2024	

Batch R356173		SampType: MSD		Units mg/L							RPD Limit 10	Date Analyzed
SampID: 24111247-002AMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Nitrogen, Nitrite (as N)		0.05	E	0.79	0.5000	0.3240	92.6	0.7880	0.13	11/14/2024		

Batch R356173		SampType: MS		Units mg/L							Date Analyzed
SampID: 24111268-001AMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrite (as N)		0.05		0.49	0.5000	0	97.6	85	115	11/14/2024	

Batch R356173		SampType: MSD		Units mg/L							RPD Limit 10	Date Analyzed
SampID: 24111268-001AMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Nitrogen, Nitrite (as N)		0.05		0.49	0.5000	0	97.8	0.4880	0.20	11/14/2024		

STANDARD METHODS 4500-NO3 F (DISSOLVED) 2000, 2011

Batch R356051		SampType: MBLK		Units mg/L							Date Analyzed
SampID: ICB/MBLK											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Nitrogen, Nitrate (as N)		0.050		< 0.050						11/12/2024	
Nitrogen, Nitrate-Nitrite (as N)		0.050		< 0.050	0.0090	0	0	-100	100	11/12/2024	



Quality Control Results

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

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24110005

Client Project: Meredosia GW Monitoring Q4 2024

Report Date: 11-Dec-24

STANDARD METHODS 4500-NO3 F (DISSOLVED) 2000, 2011

Batch R356051		SampType: LCS		Units mg/L						
SampID: ICV/LCS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrate-Nitrite (as N)		0.050		0.480	0.5000	0	96.0	90	110	11/12/2024

Batch R356051		SampType: MS		Units mg/L						
SampID: 24110405-002AMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrate-Nitrite (as N)		1.00		8.88	5.000	3.474	108.1	90	110	11/12/2024

Batch R356051		SampType: MSD		Units mg/L							RPD Limit 10
SampID: 24110405-002AMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Nitrogen, Nitrate-Nitrite (as N)		1.00		8.64	5.000	3.474	103.3	8.881	2.79	11/12/2024	

Batch R356051		SampType: MS		Units mg/L						
SampID: 24110933-001BMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrate-Nitrite (as N)		2.50		19.7	12.50	7.293	99.1	90	110	11/12/2024

Batch R356051		SampType: MSD		Units mg/L							RPD Limit 10
SampID: 24110933-001BMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Nitrogen, Nitrate-Nitrite (as N)		2.50		20.3	12.50	7.293	104.0	19.68	3.07	11/12/2024	

Batch R356250		SampType: MS		Units mg/L						
SampID: 24111202-001BMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Nitrogen, Nitrate-Nitrite (as N)		0.050	H	0.747	0.2500	0.4880	103.6	85	115	11/14/2024

Batch R356250		SampType: MSD		Units mg/L							RPD Limit 10
SampID: 24111202-001BMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Nitrogen, Nitrate-Nitrite (as N)		0.050	H	0.753	0.2500	0.4880	106.0	0.7470	0.80	11/14/2024	



Quality Control Results

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Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24110005

Client Project: Meredosia GW Monitoring Q4 2024

Report Date: 11-Dec-24

SW-846 9012A (TOTAL)

Batch 231265		SampType: MBLK		Units mg/L							Date Analyzed
SampID: MBLK 241115 TCN3											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Cyanide		0.005		< 0.005	0.0015	0	0	-100	100	11/18/2024	

Batch 231265		SampType: LCS		Units mg/L							Date Analyzed
SampID: LCS 241115 TCN3											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Cyanide		0.005		0.027	0.0250	0	107.8	85	115	11/18/2024	

Batch 231265		SampType: MS		Units mg/L							Date Analyzed
SampID: 24111059-002DMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Cyanide		0.005		0.026	0.0250	0	103.1	75	125	11/18/2024	

Batch 231265		SampType: MSD		Units mg/L							RPD Limit 15	Date Analyzed
SampID: 24111059-002DMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Cyanide		0.005		0.025	0.0250	0	100.1	0.02578	2.91	11/18/2024		

Batch 231265		SampType: DUP		Units mg/L							RPD Limit 15	Date Analyzed
SampID: 24110708-005DDUP												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Cyanide		0.005	J	0.002				0.001880	0.00	11/18/2024		

SW846 9056A DISSOLVED ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY

Batch R355975		SampType: MS		Units mg/L							Date Analyzed
SampID: 24102207-012BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Fluoride		0.50		10.7	10.00	0.7480	99.6	80	120	11/14/2024	
Chloride		5.00		814	200.0	607.3	103.4	80	120	11/14/2024	
Sulfate		10.0		194	200.0	7.664	93.3	80	120	11/14/2024	

Batch R355975		SampType: MSD		Units mg/L							RPD Limit 15	Date Analyzed
SampID: 24102207-012BMMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Fluoride		0.50		10.7	10.00	0.7480	99.8	10.71	0.17	11/14/2024		
Chloride		5.00		811	200.0	607.3	102.1	814.1	0.32	11/14/2024		
Sulfate		10.0		195	200.0	7.664	93.4	194.2	0.17	11/14/2024		



Quality Control Results

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Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24110005

Client Project: Meredosia GW Monitoring Q4 2024

Report Date: 11-Dec-24

SW846 9056A DISSOLVED ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY

Batch R355975 **SampType: MS** Units mg/L
 SampID: 24110005-006BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.50		10.2	10.00	0	102.1	80	120	11/13/2024
Chloride		5.00		214	200.0	6.632	103.8	80	120	11/13/2024
Sulfate		10.0		212	200.0	23.89	94.3	80	120	11/13/2024

Batch R355975 **SampType: MSD** Units mg/L RPD Limit 15
 SampID: 24110005-006BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride		0.50		10.2	10.00	0	101.7	10.21	0.33	11/13/2024
Chloride		5.00		214	200.0	6.632	103.6	214.2	0.19	11/13/2024
Sulfate		10.0		212	200.0	23.89	94.3	212.5	0.02	11/13/2024

Batch R356148 **SampType: MBLK** Units mg/L
 SampID: MB-R356148

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.05		ND						11/14/2024
Chloride		0.50		ND						11/14/2024
Sulfate		1.00		ND						11/14/2024

Batch R356148 **SampType: LCS** Units mg/L
 SampID: LCS-R356148

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.05		1.04	1.000	0	104.0	90	110	11/14/2024
Chloride		0.50		20.4	20.00	0	102.0	90	110	11/14/2024
Sulfate		1.00		18.5	20.00	0	92.6	90	110	11/14/2024

Batch R356148 **SampType: MS** Units mg/L
 SampID: 24102206-013BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.50		11.6	10.00	1.019	105.4	80	120	11/14/2024
Chloride		5.00		258	200.0	45.01	106.5	80	120	11/14/2024
Sulfate		10.0		186	200.0	0	93.2	80	120	11/14/2024



Quality Control Results

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Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24110005

Client Project: Meredosia GW Monitoring Q4 2024

Report Date: 11-Dec-24

SW846 9056A DISSOLVED ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY

Batch R356148		SampType: MSD		Units mg/L				RPD Limit 15			Date Analyzed
SampID: 24102206-013BMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Fluoride		0.50		11.6	10.00	1.019	105.6	11.56	0.18	11/14/2024	
Chloride		5.00		259	200.0	45.01	106.8	258.0	0.20	11/14/2024	
Sulfate		10.0		187	200.0	0	93.6	186.5	0.41	11/14/2024	

Batch R356148		SampType: MS		Units mg/L				RPD Limit 15		Date Analyzed
SampID: 24110005-010BMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.50		10.5	10.00	0.2550	102.3	80	120	11/14/2024
Chloride		5.00		279	200.0	68.06	105.5	80	120	11/14/2024
Sulfate		10.0		194	200.0	11.49	91.4	80	120	11/14/2024

Batch R356148		SampType: MSD		Units mg/L				RPD Limit 15			Date Analyzed
SampID: 24110005-010BMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Fluoride		0.50		10.5	10.00	0.2550	102.4	10.48	0.10	11/14/2024	
Chloride		5.00		280	200.0	68.06	105.9	279.0	0.27	11/14/2024	
Sulfate		10.0		195	200.0	11.49	91.5	194.2	0.14	11/14/2024	

Batch R356222		SampType: MS		Units mg/L				RPD Limit 15		Date Analyzed
SampID: 24102206-003BMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.50		11.3	10.00	0.9500	104.0	80	120	11/15/2024
Chloride		5.00		259	200.0	43.41	107.8	80	120	11/15/2024
Sulfate		10.0		189	200.0	0	94.7	80	120	11/15/2024

Batch R356222		SampType: MSD		Units mg/L				RPD Limit 15			Date Analyzed
SampID: 24102206-003BMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Fluoride		0.50		11.3	10.00	0.9500	103.8	11.35	0.20	11/15/2024	
Chloride		5.00		258	200.0	43.41	107.3	259.1	0.40	11/15/2024	
Sulfate		10.0		189	200.0	0	94.3	189.3	0.33	11/15/2024	



Quality Control Results

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Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24110005

Client Project: Meredosia GW Monitoring Q4 2024

Report Date: 11-Dec-24

SW846 9056A DISSOLVED ANIONIC COMPOUNDS BY ION CHROMATOGRAPHY

Batch R356222		SampType: MS		Units mg/L						
SampID: 24110005-009BMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.50		10.6	10.00	0.4240	102.1	80	120	11/15/2024
Chloride		5.00		206	200.0	1.004	102.5	80	120	11/15/2024
Sulfate		10.0		554	200.0	352.8	100.5	80	120	11/15/2024

Batch R356222		SampType: MSD		Units mg/L						
SampID: 24110005-009BMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride		0.50		10.8	10.00	0.4240	103.5	10.63	1.31	11/15/2024
Chloride		5.00		209	200.0	1.004	103.9	206.0	1.39	11/15/2024
Sulfate		10.0		560	200.0	352.8	103.4	553.9	1.02	11/15/2024

Batch R356222		SampType: MS		Units mg/L						
SampID: 24111202-001BMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Fluoride		0.50		10.4	10.00	0	104.0	80	120	11/16/2024
Chloride		5.00		228	200.0	18.26	105.0	80	120	11/16/2024
Sulfate		10.0		354	200.0	155.6	99.2	80	120	11/16/2024

Batch R356222		SampType: MSD		Units mg/L						
SampID: 24111202-001BMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Fluoride		0.50		10.4	10.00	0	104.2	10.40	0.17	11/16/2024
Chloride		5.00		229	200.0	18.26	105.4	228.3	0.31	11/16/2024
Sulfate		10.0		354	200.0	155.6	99.4	354.1	0.09	11/16/2024



Quality Control Results

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Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24110005

Client Project: Meredosia GW Monitoring Q4 2024

Report Date: 11-Dec-24

SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)

Batch 231145 **SampType:** MBLK **Units** mg/L

SampID: MBLK-231145

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Barium		0.0025		< 0.0025	0.0007	0	0	-100	100	11/14/2024
Beryllium		0.0005		< 0.0005	0.0002	0	0	-100	100	11/14/2024
Boron		0.0200		< 0.0200	0.0090	0	0	-100	100	11/14/2024
Cadmium		0.0020		< 0.0020	0.0005	0	0	-100	100	11/14/2024
Chromium		0.0050		< 0.0050	0.0028	0	0	-100	100	11/14/2024
Cobalt		0.0050		< 0.0050	0.0020	0	0	-100	100	11/14/2024
Copper		0.0050		< 0.0050	0.0013	0	0	-100	100	11/14/2024
Iron		0.0400		< 0.0400	0.0200	0	0	-100	100	11/14/2024
Manganese		0.0070		< 0.0070	0.0025	0	0	-100	100	11/14/2024
Nickel		0.0050		< 0.0050	0.0016	0	0	-100	100	11/14/2024
Selenium		0.0400		< 0.0400	0.0170	0	0	-100	100	11/14/2024
Silver		0.0070		< 0.0070	0.0027	0	0	-100	100	11/14/2024
Vanadium		0.0100		< 0.0100	0.0009	0	0	-100	100	11/14/2024
Zinc		0.0100		< 0.0100	0.0050	0	0	-100	100	11/14/2024

Batch 231145 **SampType:** LCS **Units** mg/L

SampID: LCS-231145

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Barium		0.0025		3.64	4.000	0	91.0	85	115	11/14/2024
Beryllium		0.0005		0.0942	0.1000	0	94.2	85	115	11/14/2024
Boron		0.0200		0.895	1.000	0	89.5	85	115	11/14/2024
Cadmium		0.0020		0.0922	0.1000	0	92.2	85	115	11/14/2024
Chromium		0.0050		0.380	0.4000	0	94.9	85	115	11/14/2024
Cobalt		0.0050		0.959	1.000	0	95.9	85	115	11/14/2024
Copper		0.0050		0.485	0.5000	0	97.0	85	115	11/14/2024
Iron		0.0400		3.87	4.000	0	96.8	85	115	11/14/2024
Manganese		0.0070		0.937	1.000	0	93.7	85	115	11/14/2024
Nickel		0.0050		0.961	1.000	0	96.1	85	115	11/14/2024
Selenium		0.0400		0.890	1.000	0	89.0	85	115	11/14/2024
Silver		0.0070		0.0920	0.1000	0	92.0	85	115	11/14/2024
Vanadium		0.0100		0.962	1.000	0	96.2	85	115	11/14/2024
Zinc		0.0100		0.930	1.000	0	93.0	85	115	11/14/2024



Quality Control Results

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Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24110005

Client Project: Meredosia GW Monitoring Q4 2024

Report Date: 11-Dec-24

SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)

Batch 231145 **SampType: MS** Units mg/L

SampID: 24110984-003CMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Barium		0.0025		3.52	4.000	0.2078	82.8	75	125	11/14/2024
Cadmium		0.0020		0.0814	0.1000	0	81.4	75	125	11/14/2024
Chromium		0.0050		0.354	0.4000	0	88.5	75	125	11/14/2024
Nickel		0.0050		0.884	1.000	0	88.4	75	125	11/14/2024
Selenium		0.0400		0.841	1.000	0	84.1	75	125	11/14/2024
Silver		0.0070		0.0879	0.1000	0	87.9	75	125	11/14/2024

Batch 231145 **SampType: MSD** Units mg/L

RPD Limit **20**

SampID: 24110984-003CMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Barium		0.0025		3.69	4.000	0.2078	87.1	3.520	4.72	11/14/2024
Cadmium		0.0020		0.0859	0.1000	0	85.9	0.08140	5.38	11/14/2024
Chromium		0.0050		0.373	0.4000	0	93.2	0.3540	5.17	11/14/2024
Nickel		0.0050		0.933	1.000	0	93.3	0.8835	5.46	11/14/2024
Selenium		0.0400		0.880	1.000	0	88.0	0.8407	4.56	11/14/2024
Silver		0.0070		0.0928	0.1000	0	92.8	0.08790	5.42	11/14/2024



Quality Control Results

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Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24110005

Client Project: Meredosia GW Monitoring Q4 2024

Report Date: 11-Dec-24

SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)

Batch 231157 **SampType:** MBLK **Units** mg/L

SampID: MBLK-231157

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Barium		0.0025		< 0.0025	0.0007	0	0	-100	100	11/15/2024
Barium		0.0025		< 0.0025	0.0007	0	0	-100	100	11/14/2024
Beryllium		0.0005		< 0.0005	0.0002	0	0	-100	100	11/14/2024
Beryllium		0.0005		< 0.0005	0.0002	0	0	-100	100	11/15/2024
Boron		0.0200		< 0.0200	0.0090	0	0	-100	100	11/15/2024
Cadmium		0.0020		< 0.0020	0.0005	0	0	-100	100	11/14/2024
Cadmium		0.0020		< 0.0020	0.0005	0	0	-100	100	11/15/2024
Chromium		0.0050		< 0.0050	0.0028	0	0	-100	100	11/14/2024
Chromium		0.0050		< 0.0050	0.0028	0	0	-100	100	11/15/2024
Cobalt		0.0050		< 0.0050	0.0020	0	0	-100	100	11/14/2024
Cobalt		0.0050		< 0.0050	0.0020	0	0	-100	100	11/15/2024
Copper		0.0050		< 0.0050	0.0013	0	0	-100	100	11/15/2024
Copper		0.0050		< 0.0050	0.0013	0	0	-100	100	11/14/2024
Iron		0.0400		< 0.0400	0.0200	0	0	-100	100	11/15/2024
Iron		0.0400		< 0.0400	0.0200	0	0	-100	100	11/14/2024
Manganese		0.0070		< 0.0070	0.0025	0	0	-100	100	11/15/2024
Nickel		0.0050		< 0.0050	0.0016	0	0	-100	100	11/14/2024
Nickel		0.0050		< 0.0050	0.0016	0	0	-100	100	11/15/2024
Selenium		0.0400		< 0.0400	0.0170	0	0	-100	100	11/14/2024
Selenium		0.0400		< 0.0400	0.0170	0	0	-100	100	11/15/2024
Silver		0.0070		< 0.0070	0.0027	0	0	-100	100	11/14/2024
Silver		0.0070		< 0.0070	0.0027	0	0	-100	100	11/15/2024
Vanadium		0.0100		< 0.0100	0.0009	0	0	-100	100	11/14/2024
Vanadium		0.0100		< 0.0100	0.0009	0	0	-100	100	11/15/2024
Zinc		0.0100		< 0.0100	0.0050	0	0	-100	100	11/15/2024
Zinc		0.0100		< 0.0100	0.0050	0	0	-100	100	11/14/2024



Quality Control Results

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Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24110005

Client Project: Meredosia GW Monitoring Q4 2024

Report Date: 11-Dec-24

SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)

Batch 231157 **SampType:** LCS **Units** mg/L

SampID: LCS-231157

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Barium		0.0025		3.81	4.000	0	95.2	85	115	11/15/2024
Barium		0.0025		3.75	4.000	0	93.8	85	115	11/14/2024
Beryllium		0.0005		0.0930	0.1000	0	93.0	85	115	11/15/2024
Beryllium		0.0005		0.0898	0.1000	0	89.8	85	115	11/14/2024
Boron		0.0200		0.890	1.000	0	89.0	85	115	11/15/2024
Cadmium		0.0020		0.0935	0.1000	0	93.5	85	115	11/14/2024
Cadmium		0.0020		0.0941	0.1000	0	94.1	85	115	11/15/2024
Chromium		0.0050		0.360	0.4000	0	90.0	85	115	11/14/2024
Chromium		0.0050		0.379	0.4000	0	94.8	85	115	11/15/2024
Cobalt		0.0050		0.874	1.000	0	87.4	85	115	11/14/2024
Cobalt		0.0050		0.948	1.000	0	94.8	85	115	11/15/2024
Copper		0.0050		0.439	0.5000	0	87.7	85	115	11/14/2024
Copper		0.0050		0.467	0.5000	0	93.5	85	115	11/15/2024
Iron		0.0400		3.79	4.000	0	94.8	85	115	11/15/2024
Iron		0.0400		3.68	4.000	0	92.0	85	115	11/14/2024
Manganese		0.0070		0.917	1.000	0	91.7	85	115	11/15/2024
Nickel		0.0050		0.895	1.000	0	89.5	85	115	11/14/2024
Nickel		0.0050		0.940	1.000	0	94.0	85	115	11/15/2024
Selenium		0.0400		0.856	1.000	0	85.6	85	115	11/14/2024
Selenium		0.0400		0.902	1.000	0	90.2	85	115	11/15/2024
Silver		0.0070		0.0968	0.1000	0	96.8	85	115	11/15/2024
Silver		0.0070		0.0921	0.1000	0	92.1	85	115	11/14/2024
Vanadium		0.0100		0.958	1.000	0	95.8	85	115	11/15/2024
Vanadium		0.0100		0.922	1.000	0	92.2	85	115	11/14/2024
Zinc		0.0100		0.940	1.000	0	94.0	85	115	11/15/2024
Zinc		0.0100		0.894	1.000	0	89.4	85	115	11/14/2024



Quality Control Results

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Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24110005

Client Project: Meredosia GW Monitoring Q4 2024

Report Date: 11-Dec-24

SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)

Batch 231264 SampType: MBLK Units mg/L

SampID: MBLK-231264

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Barium		0.0025		< 0.0025	0.0007	0	0	-100	100	11/18/2024
Beryllium		0.0005		< 0.0005	0.0002	0	0	-100	100	11/18/2024
Boron		0.0200		< 0.0200	0.0090	0	0	-100	100	11/18/2024
Cadmium		0.0020		< 0.0020	0.0005	0	0	-100	100	11/18/2024
Chromium		0.0050		< 0.0050	0.0028	0	0	-100	100	11/18/2024
Cobalt		0.0050		< 0.0050	0.0020	0	0	-100	100	11/18/2024
Copper		0.0050		< 0.0050	0.0013	0	0	-100	100	11/18/2024
Iron		0.0400		< 0.0400	0.0200	0	0	-100	100	11/18/2024
Manganese		0.0070		< 0.0070	0.0025	0	0	-100	100	11/18/2024
Nickel		0.0050		< 0.0050	0.0016	0	0	-100	100	11/18/2024
Selenium		0.0400		< 0.0400	0.0170	0	0	-100	100	11/18/2024
Silver		0.0070		< 0.0070	0.0027	0	0	-100	100	11/21/2024
Silver		0.0070		< 0.0070	0.0027	0	0	-100	100	11/18/2024
Vanadium		0.0100		< 0.0100	0.0009	0	0	-100	100	11/18/2024
Zinc		0.0100		< 0.0100	0.0050	0	0	-100	100	11/18/2024

Batch 231264 SampType: LCS Units mg/L

SampID: LCS-231264

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Barium		0.0025		3.54	4.000	0	88.5	85	115	11/18/2024
Beryllium		0.0005		0.0909	0.1000	0	90.9	85	115	11/18/2024
Boron		0.0200		0.859	1.000	0	85.9	85	115	11/18/2024
Cadmium		0.0020		0.0896	0.1000	0	89.6	85	115	11/18/2024
Chromium		0.0050		0.376	0.4000	0	93.9	85	115	11/18/2024
Cobalt		0.0050		0.937	1.000	0	93.7	85	115	11/18/2024
Copper		0.0050		0.466	0.5000	0	93.2	85	115	11/18/2024
Iron		0.0400		3.76	4.000	0	94.0	85	115	11/18/2024
Manganese		0.0070		0.913	1.000	0	91.3	85	115	11/18/2024
Nickel		0.0050		0.934	1.000	0	93.4	85	115	11/18/2024
Selenium		0.0400		0.873	1.000	0	87.3	85	115	11/18/2024
Silver		0.0070		0.0950	0.1000	0	95.0	85	115	11/21/2024
Silver		0.0070	S	0.0719	0.1000	0	71.9	85	115	11/18/2024
Vanadium		0.0100		0.927	1.000	0	92.7	85	115	11/18/2024
Zinc		0.0100		0.908	1.000	0	90.8	85	115	11/18/2024



Quality Control Results

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Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24110005

Client Project: Meredosia GW Monitoring Q4 2024

Report Date: 11-Dec-24

SW-846 3005A, 6010B, METALS BY ICP (DISSOLVED)

Batch 231264 **SampType: MS** Units mg/L

SampID: 24110005-008DMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Barium		0.0025		3.57	4.000	0.03580	88.4	75	125	11/18/2024
Beryllium		0.0005		0.0924	0.1000	0	92.4	75	125	11/18/2024
Boron		0.0200		4.71	1.000	3.794	91.6	75	125	11/21/2024
Cadmium		0.0020		0.0892	0.1000	0	89.2	75	125	11/18/2024
Chromium		0.0050		0.386	0.4000	0.008700	94.4	75	125	11/18/2024
Cobalt		0.0050		0.946	1.000	0	94.6	75	125	11/18/2024
Copper		0.0050		0.482	0.5000	0.006000	95.2	75	125	11/18/2024
Iron		0.0400		3.80	4.000	0	95.0	75	125	11/18/2024
Manganese		0.0070		0.922	1.000	0	92.2	75	125	11/18/2024
Nickel		0.0050		0.933	1.000	0	93.3	75	125	11/18/2024
Selenium		0.0400		0.908	1.000	0.02820	88.0	75	125	11/18/2024
Silver		0.0070		0.0969	0.1000	0	96.9	75	125	11/21/2024
Vanadium		0.0100		0.943	1.000	0	94.3	75	125	11/18/2024
Zinc		0.0100		0.935	1.000	0	93.5	75	125	11/18/2024

Batch 231264 **SampType: MSD** Units mg/L

RPD Limit **20**

SampID: 24110005-008DMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Barium		0.0025		3.54	4.000	0.03580	87.6	3.570	0.84	11/18/2024
Beryllium		0.0005		0.0915	0.1000	0	91.5	0.09240	0.98	11/18/2024
Boron		0.0200		4.65	1.000	3.794	85.2	4.710	1.38	11/21/2024
Cadmium		0.0020		0.0881	0.1000	0	88.1	0.08920	1.24	11/18/2024
Chromium		0.0050		0.382	0.4000	0.008700	93.4	0.3861	1.04	11/18/2024
Cobalt		0.0050		0.938	1.000	0	93.8	0.9456	0.86	11/18/2024
Copper		0.0050		0.477	0.5000	0.006000	94.2	0.4819	1.02	11/18/2024
Iron		0.0400		3.75	4.000	0	93.8	3.800	1.32	11/18/2024
Manganese		0.0070		0.916	1.000	0	91.7	0.9222	0.62	11/18/2024
Nickel		0.0050		0.925	1.000	0	92.5	0.9332	0.92	11/18/2024
Selenium		0.0400		0.898	1.000	0.02820	87.0	0.9083	1.08	11/18/2024
Silver		0.0070		0.0959	0.1000	0	95.9	0.09690	1.04	11/21/2024
Vanadium		0.0100		0.935	1.000	0	93.5	0.9430	0.88	11/18/2024
Zinc		0.0100		0.926	1.000	0	92.6	0.9348	0.90	11/18/2024



Quality Control Results

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

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24110005

Client Project: Meredosia GW Monitoring Q4 2024

Report Date: 11-Dec-24

SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 231106 SampType: MBLK Units mg/L

SampID: MBLK-231106

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Barium		0.0025		< 0.0025	0.0007	0	0	-100	100	11/13/2024
Beryllium		0.0005		< 0.0005	0.0002	0	0	-100	100	11/13/2024
Boron		0.0200		< 0.0200	0.0090	0	0	-100	100	11/13/2024
Cadmium		0.0020		< 0.0020	0.0005	0	0	-100	100	11/13/2024
Chromium		0.0050		< 0.0050	0.0028	0	0	-100	100	11/13/2024
Cobalt		0.0050		< 0.0050	0.0020	0	0	-100	100	11/13/2024
Copper		0.0050		< 0.0050	0.0013	0	0	-100	100	11/13/2024
Iron		0.0400		< 0.0400	0.0200	0	0	-100	100	11/13/2024
Manganese		0.0070		< 0.0070	0.0025	0	0	-100	100	11/13/2024
Nickel		0.0050		< 0.0050	0.0016	0	0	-100	100	11/13/2024
Selenium		0.0400		< 0.0400	0.0170	0	0	-100	100	11/13/2024
Silver		0.0070		< 0.0070	0.0027	0	0	-100	100	11/13/2024
Vanadium		0.0100		< 0.0100	0.0009	0	0	-100	100	11/13/2024
Zinc		0.0100		< 0.0100	0.0050	0	0	-100	100	11/13/2024

Batch 231106 SampType: LCS Units mg/L

SampID: LCS-231106

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Barium		0.0025		3.69	4.000	0	92.2	85	115	11/13/2024
Beryllium		0.0005		0.0973	0.1000	0	97.3	85	115	11/13/2024
Boron		0.0200		0.925	1.000	0	92.5	85	115	11/13/2024
Cadmium		0.0020		0.0954	0.1000	0	95.4	85	115	11/13/2024
Chromium		0.0050		0.388	0.4000	0	97.1	85	115	11/13/2024
Cobalt		0.0050		0.970	1.000	0	97.0	85	115	11/13/2024
Copper		0.0050		0.479	0.5000	0	95.8	85	115	11/13/2024
Iron		0.0400		3.95	4.000	0	98.8	85	115	11/13/2024
Manganese		0.0070		0.935	1.000	0	93.5	85	115	11/13/2024
Nickel		0.0050		0.969	1.000	0	96.9	85	115	11/13/2024
Selenium		0.0400		0.914	1.000	0	91.4	85	115	11/13/2024
Silver		0.0070		0.0963	0.1000	0	96.3	85	115	11/13/2024
Vanadium		0.0100		0.958	1.000	0	95.8	85	115	11/13/2024
Zinc		0.0100		0.946	1.000	0	94.6	85	115	11/13/2024



Quality Control Results

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

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24110005

Client Project: Meredosia GW Monitoring Q4 2024

Report Date: 11-Dec-24

SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 231106		SampType: MS		Units mg/L							Date Analyzed
SampID: 24110940-002BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Iron		0.0400		6.59	4.000	2.450	103.5	75	125	11/14/2024	

Batch 231106		SampType: MSD		Units mg/L							RPD Limit 20	Date Analyzed
SampID: 24110940-002BMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Iron		0.0400		6.81	4.000	2.450	109.0	6.590	3.28	11/14/2024		

Batch 231106		SampType: MS		Units mg/L							Date Analyzed
SampID: 24110949-001BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Boron		0.0200		1.50	1.000	0.5067	99.4	75	125	11/14/2024	

Batch 231106		SampType: MSD		Units mg/L							RPD Limit 20	Date Analyzed
SampID: 24110949-001BMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Boron		0.0200		1.51	1.000	0.5067	99.9	1.501	0.34	11/14/2024		

Batch 231176		SampType: MBLK		Units mg/L							Date Analyzed
SampID: MBLK-231176											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Barium		0.0025		< 0.0025	0.0007	0	0	-100	100	11/15/2024	
Beryllium		0.0005		< 0.0005	0.0002	0	0	-100	100	11/15/2024	
Boron		0.0200		< 0.0200	0.0090	0	0	-100	100	11/15/2024	
Cadmium		0.0020		< 0.0020	0.0005	0	0	-100	100	11/15/2024	
Chromium		0.0050		< 0.0050	0.0028	0	0	-100	100	11/15/2024	
Cobalt		0.0050		< 0.0050	0.0020	0	0	-100	100	11/15/2024	
Copper		0.0050		< 0.0050	0.0013	0	0	-100	100	11/15/2024	
Iron		0.0400		< 0.0400	0.0200	0	0	-100	100	11/15/2024	
Manganese		0.0070		< 0.0070	0.0025	0	0	-100	100	11/15/2024	
Nickel		0.0050		< 0.0050	0.0016	0	0	-100	100	11/15/2024	
Selenium		0.0400		< 0.0400	0.0170	0	0	-100	100	11/15/2024	
Silver		0.0070		< 0.0070	0.0027	0	0	-100	100	11/15/2024	
Vanadium		0.0100		< 0.0100	0.0009	0	0	-100	100	11/15/2024	
Zinc		0.0100		< 0.0100	0.0050	0	0	-100	100	11/15/2024	



Quality Control Results

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

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24110005

Client Project: Meredosia GW Monitoring Q4 2024

Report Date: 11-Dec-24

SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 231176 **SampType: LCS** Units mg/L

SampID: LCS-231176

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Barium		0.0025		3.87	4.000	0	96.8	85	115	11/15/2024
Beryllium		0.0005		0.0987	0.1000	0	98.7	85	115	11/15/2024
Boron		0.0200		0.945	1.000	0	94.5	85	115	11/15/2024
Cadmium		0.0020		0.0943	0.1000	0	94.3	85	115	11/15/2024
Chromium		0.0050		0.394	0.4000	0	98.4	85	115	11/15/2024
Cobalt		0.0050		1.02	1.000	0	101.7	85	115	11/15/2024
Copper		0.0050		0.515	0.5000	0	102.9	85	115	11/15/2024
Iron		0.0400		4.09	4.000	0	102.2	85	115	11/15/2024
Manganese		0.0070		0.966	1.000	0	96.6	85	115	11/15/2024
Nickel		0.0050		0.989	1.000	0	98.9	85	115	11/15/2024
Selenium		0.0400		0.960	1.000	0	96.0	85	115	11/15/2024
Silver		0.0070		0.0977	0.1000	0	97.7	85	115	11/15/2024
Vanadium		0.0100		0.999	1.000	0	99.9	85	115	11/15/2024
Zinc		0.0100		0.977	1.000	0	97.7	85	115	11/15/2024

Batch 231176 **SampType: MS** Units mg/L

SampID: 24110005-004CMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Barium		0.0025		3.93	4.000	0.09030	96.0	75	125	11/15/2024
Beryllium		0.0005		0.102	0.1000	0	101.6	75	125	11/15/2024
Boron		0.0200		1.82	1.000	0.8262	99.0	75	125	11/15/2024
Cadmium		0.0020		0.0933	0.1000	0	93.3	75	125	11/15/2024
Chromium		0.0050		0.402	0.4000	0	100.5	75	125	11/15/2024
Cobalt		0.0050		1.04	1.000	0	104.3	75	125	11/15/2024
Copper		0.0050		0.563	0.5000	0.02320	107.9	75	125	11/15/2024
Iron		0.0400		9.17	4.000	4.930	106.0	75	125	11/15/2024
Manganese		0.0070		1.97	1.000	0.9608	100.8	75	125	11/15/2024
Nickel		0.0050		1.00	1.000	0	100.1	75	125	11/15/2024
Selenium		0.0400		0.988	1.000	0	98.8	75	125	11/15/2024
Silver		0.0070		0.101	0.1000	0	101.1	75	125	11/15/2024
Vanadium		0.0100		1.03	1.000	0.002200	103.0	75	125	11/15/2024
Zinc		0.0100		1.02	1.000	0.01120	100.6	75	125	11/15/2024



Quality Control Results

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

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24110005

Client Project: Meredosia GW Monitoring Q4 2024

Report Date: 11-Dec-24

SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 231176		SampType: MSD		Units mg/L				RPD Limit 20			Date Analyzed
SampID: 24110005-004CMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Barium		0.0025		3.93	4.000	0.09030	96.0	3.930	0.00	11/15/2024	
Beryllium		0.0005		0.102	0.1000	0	101.7	0.1016	0.10	11/15/2024	
Boron		0.0200		1.79	1.000	0.8262	96.1	1.817	1.65	11/15/2024	
Cadmium		0.0020		0.0940	0.1000	0	94.0	0.09330	0.75	11/15/2024	
Chromium		0.0050		0.402	0.4000	0	100.4	0.4020	0.10	11/15/2024	
Cobalt		0.0050		1.04	1.000	0	104.2	1.043	0.17	11/15/2024	
Copper		0.0050		0.558	0.5000	0.02320	107.0	0.5628	0.84	11/15/2024	
Iron		0.0400		8.96	4.000	4.930	100.8	9.170	2.32	11/15/2024	
Manganese		0.0070		1.93	1.000	0.9608	96.8	1.968	2.01	11/15/2024	
Nickel		0.0050		1.00	1.000	0	100.4	1.001	0.29	11/15/2024	
Selenium		0.0400		0.985	1.000	0	98.5	0.9885	0.38	11/15/2024	
Silver		0.0070		0.100	0.1000	0	100.5	0.1011	0.60	11/15/2024	
Vanadium		0.0100		1.03	1.000	0.002200	102.6	1.032	0.37	11/15/2024	
Zinc		0.0100		1.02	1.000	0.01120	100.6	1.017	0.01	11/15/2024	

Batch 231176		SampType: MS		Units mg/L						Date Analyzed
SampID: 24110005-014CMS										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Barium		0.0025		4.01	4.000	0.1232	97.2	75	125	11/15/2024
Beryllium		0.0005		0.101	0.1000	0	100.9	75	125	11/15/2024
Boron		0.0200		1.12	1.000	0.1315	98.5	75	125	11/15/2024
Cadmium		0.0020		0.0953	0.1000	0	95.3	75	125	11/15/2024
Chromium		0.0050		0.399	0.4000	0	99.7	75	125	11/15/2024
Cobalt		0.0050		1.03	1.000	0.009300	102.2	75	125	11/15/2024
Copper		0.0050		0.538	0.5000	0.01800	104.1	75	125	11/15/2024
Iron		0.0400		4.35	4.000	0.1961	103.8	75	125	11/15/2024
Manganese		0.0070		5.32	1.000	4.114	121.0	75	125	11/19/2024
Nickel		0.0050		1.01	1.000	0.01530	99.5	75	125	11/15/2024
Selenium		0.0400		0.968	1.000	0	96.8	75	125	11/15/2024
Silver		0.0070		0.0992	0.1000	0	99.2	75	125	11/15/2024
Vanadium		0.0100		1.02	1.000	0.002000	101.9	75	125	11/15/2024
Zinc		0.0100		1.00	1.000	0.007200	99.6	75	125	11/15/2024



Quality Control Results

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

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24110005

Client Project: Meredosia GW Monitoring Q4 2024

Report Date: 11-Dec-24

SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 231176		SampType: MSD		Units mg/L				RPD Limit 20			Date Analyzed
SampID: 24110005-014CMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Barium		0.0025		4.02	4.000	0.1232	97.4	4.010	0.25	11/15/2024	
Beryllium		0.0005		0.102	0.1000	0	102.1	0.1009	1.18	11/15/2024	
Boron		0.0200		1.13	1.000	0.1315	99.6	1.116	0.95	11/15/2024	
Cadmium		0.0020		0.0963	0.1000	0	96.3	0.09530	1.04	11/15/2024	
Chromium		0.0050		0.403	0.4000	0	100.7	0.3988	1.00	11/15/2024	
Cobalt		0.0050		1.05	1.000	0.009300	103.9	1.032	1.64	11/15/2024	
Copper		0.0050		0.547	0.5000	0.01800	105.7	0.5383	1.55	11/15/2024	
Iron		0.0400		4.40	4.000	0.1961	105.1	4.350	1.14	11/15/2024	
Manganese		0.0070		5.24	1.000	4.114	112.8	5.325	1.56	11/19/2024	
Nickel		0.0050		1.02	1.000	0.01530	100.8	1.011	1.22	11/15/2024	
Selenium		0.0400		0.996	1.000	0	99.6	0.9679	2.88	11/15/2024	
Silver		0.0070		0.100	0.1000	0	100.3	0.09920	1.10	11/15/2024	
Vanadium		0.0100		1.03	1.000	0.002000	102.8	1.021	0.84	11/15/2024	
Zinc		0.0100		1.02	1.000	0.007200	100.8	1.003	1.22	11/15/2024	

Batch 231255		SampType: MBLK		Units mg/L							Date Analyzed
SampID: MBLK-231255											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Barium		0.0025		< 0.0025	0.0007	0	0	-100	100	11/19/2024	
Beryllium		0.0005		< 0.0005	0.0002	0	0	-100	100	11/19/2024	
Boron		0.0200		< 0.0200	0.0090	0	0	-100	100	11/19/2024	
Cadmium		0.0020		< 0.0020	0.0005	0	0	-100	100	11/19/2024	
Chromium		0.0050		< 0.0050	0.0028	0	0	-100	100	11/19/2024	
Cobalt		0.0050		< 0.0050	0.0020	0	0	-100	100	11/19/2024	
Copper		0.0050		< 0.0050	0.0013	0	0	-100	100	11/19/2024	
Iron		0.0400		< 0.0400	0.0200	0	0	-100	100	11/19/2024	
Manganese		0.0070		< 0.0070	0.0025	0	0	-100	100	11/19/2024	
Nickel		0.0050		< 0.0050	0.0016	0	0	-100	100	11/19/2024	
Selenium		0.0400		< 0.0400	0.0170	0	0	-100	100	11/19/2024	
Silver		0.0070		< 0.0070	0.0027	0	0	-100	100	11/19/2024	
Vanadium		0.0100		< 0.0100	0.0009	0	0	-100	100	11/19/2024	
Zinc		0.0100		< 0.0100	0.0050	0	0	-100	100	11/19/2024	



Quality Control Results

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Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24110005

Client Project: Meredosia GW Monitoring Q4 2024

Report Date: 11-Dec-24

SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 231255 SampType: LCS Units mg/L

SampID: LCS-231255

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Barium		0.0025		3.91	4.000	0	97.8	85	115	11/19/2024
Beryllium		0.0005		0.101	0.1000	0	100.7	85	115	11/19/2024
Boron		0.0200		0.969	1.000	0	96.9	85	115	11/19/2024
Cadmium		0.0020		0.101	0.1000	0	100.7	85	115	11/19/2024
Chromium		0.0050		0.404	0.4000	0	101.0	85	115	11/19/2024
Cobalt		0.0050		1.01	1.000	0	100.8	85	115	11/19/2024
Copper		0.0050		0.503	0.5000	0	100.6	85	115	11/19/2024
Iron		0.0400		4.19	4.000	0	104.8	85	115	11/19/2024
Manganese		0.0070		0.979	1.000	0	97.9	85	115	11/19/2024
Nickel		0.0050		1.01	1.000	0	101.4	85	115	11/19/2024
Selenium		0.0400		0.985	1.000	0	98.5	85	115	11/19/2024
Silver		0.0070	S	0.0748	0.1000	0	74.8	85	115	11/19/2024
Vanadium		0.0100		1.02	1.000	0	101.6	85	115	11/19/2024
Zinc		0.0100		1.01	1.000	0	100.7	85	115	11/19/2024

Batch 231255 SampType: MS Units mg/L

SampID: 24111289-004CMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Copper		0.0050		0.524	0.5000	0.003700	104.1	75	125	11/19/2024
Iron		0.0400		5.66	4.000	0.8559	120.1	75	125	11/19/2024
Zinc		0.0100		1.06	1.000	0.01200	104.9	75	125	11/19/2024

Batch 231255 SampType: MSD Units mg/L

SampID: 24111289-004CMSD

RPD Limit 20

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Copper		0.0050		0.541	0.5000	0.003700	107.5	0.5242	3.17	11/19/2024
Iron		0.0400		5.82	4.000	0.8559	124.1	5.660	2.79	11/19/2024
Zinc		0.0100		1.09	1.000	0.01200	107.6	1.061	2.54	11/19/2024



Quality Control Results

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Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24110005

Client Project: Meredosia GW Monitoring Q4 2024

Report Date: 11-Dec-24

SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 231948 SampType: MBLK Units mg/L

SampID: MBLK-231948

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Barium		0.0025		< 0.0025	0.0007	0	0	-100	100	12/06/2024
Beryllium		0.0005		< 0.0005	0.0002	0	0	-100	100	12/06/2024
Boron		0.0200		< 0.0200	0.0090	0	0	-100	100	12/06/2024
Cadmium		0.0020		< 0.0020	0.0005	0	0	-100	100	12/06/2024
Chromium		0.0050		< 0.0050	0.0028	0	0	-100	100	12/06/2024
Cobalt		0.0050		< 0.0050	0.0020	0	0	-100	100	12/06/2024
Copper		0.0050		< 0.0050	0.0013	0	0	-100	100	12/06/2024
Iron		0.0400		< 0.0400	0.0200	0	0	-100	100	12/06/2024
Manganese		0.0070		< 0.0070	0.0025	0	0	-100	100	12/06/2024
Nickel		0.0050		< 0.0050	0.0016	0	0	-100	100	12/06/2024
Selenium		0.0400		< 0.0400	0.0170	0	0	-100	100	12/06/2024
Silver		0.0070		< 0.0070	0.0027	0	0	-100	100	12/06/2024
Vanadium		0.0100		< 0.0100	0.0009	0	0	-100	100	12/06/2024
Zinc		0.0100		< 0.0100	0.0050	0	0	-100	100	12/06/2024

Batch 231948 SampType: LCS Units mg/L

SampID: LCS-231948

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Barium		0.0025		3.70	4.000	0	92.5	85	115	12/06/2024
Beryllium		0.0005		0.0971	0.1000	0	97.1	85	115	12/06/2024
Boron		0.0200		0.935	1.000	0	93.5	85	115	12/06/2024
Cadmium		0.0020		0.0926	0.1000	0	92.6	85	115	12/06/2024
Chromium		0.0050		0.387	0.4000	0	96.8	85	115	12/06/2024
Cobalt		0.0050		1.00	1.000	0	100.2	85	115	12/06/2024
Copper		0.0050		0.497	0.5000	0	99.5	85	115	12/06/2024
Iron		0.0400		4.13	4.000	0	103.2	85	115	12/06/2024
Manganese		0.0070		0.948	1.000	0	94.8	85	115	12/06/2024
Nickel		0.0050		0.962	1.000	0	96.2	85	115	12/06/2024
Selenium		0.0400		0.937	1.000	0	93.7	85	115	12/06/2024
Silver		0.0070		0.0956	0.1000	0	95.6	85	115	12/06/2024
Vanadium		0.0100		0.982	1.000	0	98.2	85	115	12/06/2024
Zinc		0.0100		0.958	1.000	0	95.8	85	115	12/06/2024



Quality Control Results

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

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24110005

Client Project: Meredosia GW Monitoring Q4 2024

Report Date: 11-Dec-24

SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 231948 SampType: MS Units mg/L

SampID: 24120029-001EMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Barium		0.0025	S	1.86	4.000	0.1683	42.3	75	125	12/06/2024
Cadmium		0.0020		0.0917	0.1000	0	91.7	75	125	12/06/2024
Copper		0.0050		0.533	0.5000	0.004600	105.6	75	125	12/06/2024
Iron		0.0400		4.46	4.000	0.2404	105.5	75	125	12/06/2024
Manganese		0.0070		1.22	1.000	0.2543	97.0	75	125	12/06/2024
Nickel		0.0050		1.06	1.000	0.08330	97.8	75	125	12/06/2024
Silver		0.0070		0.101	0.1000	0	101.2	75	125	12/06/2024
Vanadium		0.0100		1.04	1.000	0.02100	101.4	75	125	12/06/2024
Zinc		0.0100		1.05	1.000	0.03300	101.7	75	125	12/06/2024

Batch 231948 SampType: MSD Units mg/L

RPD Limit 20

SampID: 24120029-001EMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Barium		0.0025	S	1.85	4.000	0.1683	42.1	1.862	0.43	12/06/2024
Cadmium		0.0020		0.0911	0.1000	0	91.1	0.09170	0.66	12/06/2024
Copper		0.0050		0.528	0.5000	0.004600	104.8	0.5326	0.77	12/06/2024
Iron		0.0400		4.43	4.000	0.2404	104.7	4.460	0.67	12/06/2024
Manganese		0.0070		1.21	1.000	0.2543	95.4	1.225	1.34	12/06/2024
Nickel		0.0050		1.05	1.000	0.08330	96.8	1.062	0.98	12/06/2024
Silver		0.0070		0.100	0.1000	0	100.4	0.1012	0.79	12/06/2024
Vanadium		0.0100		1.02	1.000	0.02100	100.3	1.035	1.14	12/06/2024
Zinc		0.0100		1.04	1.000	0.03300	100.9	1.050	0.77	12/06/2024

Batch 231948 SampType: MS Units mg/L

SampID: 24120031-001BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Chromium		0.0050		0.368	0.4000	0	92.0	75	125	12/06/2024

Batch 231948 SampType: MSD Units mg/L

RPD Limit 20

SampID: 24120031-001BMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Chromium		0.0050		0.388	0.4000	0	97.0	0.3679	5.32	12/06/2024



Quality Control Results

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Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24110005

Client Project: Meredosia GW Monitoring Q4 2024

Report Date: 11-Dec-24

SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 232034 SampType: MBLK Units mg/L

SampID: MBLK-232034

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Barium		0.0025		< 0.0025	0.0007	0	0	-100	100	12/09/2024
Beryllium		0.0005		< 0.0005	0.0002	0	0	-100	100	12/09/2024
Cadmium		0.0020		< 0.0020	0.0005	0	0	-100	100	12/09/2024
Chromium		0.0050		< 0.0050	0.0028	0	0	-100	100	12/09/2024
Cobalt		0.0050		< 0.0050	0.0020	0	0	-100	100	12/09/2024
Copper		0.0050		< 0.0050	0.0013	0	0	-100	100	12/09/2024
Iron		0.0400		< 0.0400	0.0200	0	0	-100	100	12/09/2024
Manganese		0.0070		< 0.0070	0.0025	0	0	-100	100	12/09/2024
Nickel		0.0050		< 0.0050	0.0016	0	0	-100	100	12/09/2024
Selenium		0.0400		< 0.0400	0.0170	0	0	-100	100	12/09/2024
Silver		0.0070		< 0.0070	0.0027	0	0	-100	100	12/09/2024
Vanadium		0.0100		< 0.0100	0.0009	0	0	-100	100	12/09/2024
Zinc		0.0100		< 0.0100	0.0050	0	0	-100	100	12/09/2024

Batch 232034 SampType: LCS Units mg/L

SampID: LCS-232034

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Barium		0.0025		3.76	4.000	0	94.0	85	115	12/09/2024
Beryllium		0.0005		0.0984	0.1000	0	98.4	85	115	12/09/2024
Cadmium		0.0020		0.0906	0.1000	0	90.6	85	115	12/09/2024
Chromium		0.0050		0.394	0.4000	0	98.6	85	115	12/09/2024
Cobalt		0.0050		0.994	1.000	0	99.4	85	115	12/09/2024
Copper		0.0050		0.505	0.5000	0	101.1	85	115	12/09/2024
Iron		0.0400		4.07	4.000	0	101.8	85	115	12/09/2024
Manganese		0.0070		0.963	1.000	0	96.3	85	115	12/09/2024
Nickel		0.0050		0.985	1.000	0	98.5	85	115	12/09/2024
Selenium		0.0400		0.942	1.000	0	94.2	85	115	12/09/2024
Silver		0.0070	S	0.0838	0.1000	0	83.8	85	115	12/09/2024
Vanadium		0.0100		0.982	1.000	0	98.2	85	115	12/09/2024
Zinc		0.0100		0.968	1.000	0	96.8	85	115	12/09/2024

Batch 232034 SampType: MS Units mg/L

SampID: 24120283-001BMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Selenium		0.0400		0.961	1.000	0	96.1	75	125	12/09/2024



Quality Control Results

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

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24110005

Client Project: Meredosia GW Monitoring Q4 2024

Report Date: 11-Dec-24

SW-846 3005A, 6010B, METALS BY ICP (TOTAL)

Batch 232034		SampType: MSD		Units mg/L			RPD Limit 20			
SampID: 24120283-001BMSD										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Selenium		0.0400		0.934	1.000	0	93.4	0.9610	2.84	12/09/2024

SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

Batch 231145		SampType: MBLK		Units mg/L						
SampID: MBLK-231145										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		0.0010		< 0.0010	0.0004	0	0	-100	100	11/16/2024
Arsenic		0.0010		< 0.0010	0.0004	0	0	-100	100	11/16/2024
Lead		0.0010		< 0.0010	0.0006	0	0	-100	100	11/16/2024
Thallium		0.0020		< 0.0020	0.0010	0	0	-100	100	11/16/2024

Batch 231145		SampType: LCS		Units mg/L						
SampID: LCS-231145										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		0.0010		0.920	1.000	0	92.0	80	120	11/16/2024
Arsenic		0.0010		0.889	1.000	0	88.9	80	120	11/16/2024
Lead		0.0010		0.939	1.000	0	93.9	80	120	11/16/2024
Thallium		0.0020		0.448	0.5000	0	89.5	80	120	11/16/2024

Batch 231157		SampType: MBLK		Units mg/L						
SampID: MBLK-231157										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		0.0010		< 0.0010	0.0004	0	0	-100	100	11/18/2024
Arsenic		0.0010		< 0.0010	0.0004	0	0	-100	100	11/18/2024
Lead		0.0010		< 0.0010	0.0006	0	0	-100	100	11/18/2024
Thallium		0.0020		< 0.0020	0.0010	0	0	-100	100	11/18/2024

Batch 231157		SampType: LCS		Units mg/L						
SampID: LCS-231157										
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		0.0010		1.06	1.000	0	105.6	80	120	11/18/2024
Arsenic		0.0010		0.942	1.000	0	94.2	80	120	11/18/2024
Lead		0.0010		0.927	1.000	0	92.7	80	120	11/18/2024
Thallium		0.0020		0.447	0.5000	0	89.4	80	120	11/18/2024



Quality Control Results

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

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24110005

Client Project: Meredosia GW Monitoring Q4 2024

Report Date: 11-Dec-24

SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

Batch 231264 SampType: MBLK Units mg/L

SampID: MBLK-231264

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		0.0010		< 0.0010	0.0004	0	0	-100	100	11/20/2024
Arsenic		0.0010		< 0.0010	0.0004	0	0	-100	100	11/20/2024
Lead		0.0010		< 0.0010	0.0006	0	0	-100	100	11/20/2024
Thallium		0.0020		< 0.0020	0.0010	0	0	-100	100	11/20/2024

Batch 231264 SampType: LCS Units mg/L

SampID: LCS-231264

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		0.0010		0.925	1.000	0	92.5	80	120	11/20/2024
Arsenic		0.0010		0.907	1.000	0	90.7	80	120	11/20/2024
Lead		0.0010		0.936	1.000	0	93.6	80	120	11/20/2024
Thallium		0.0020		0.435	0.5000	0	87.0	80	120	11/20/2024

Batch 231264 SampType: MS Units mg/L

SampID: 24110005-008DMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		0.0010		1.03	1.000	0	103.0	75	125	11/20/2024
Arsenic		0.0010		0.954	1.000	0.001499	95.2	75	125	11/20/2024
Thallium		0.0020		0.443	0.5000	0	88.6	75	125	11/20/2024

Batch 231264 SampType: MSD Units mg/L

RPD Limit 20

SampID: 24110005-008DMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Antimony		0.0010		1.01	1.000	0	100.8	1.030	2.12	11/20/2024
Arsenic		0.0010		0.927	1.000	0.001499	92.6	0.9536	2.80	11/20/2024
Thallium		0.0020		0.429	0.5000	0	85.8	0.4430	3.18	11/20/2024

Batch 231953 SampType: MBLK Units mg/L

SampID: MBLK-231953

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		0.0010		< 0.0010	0.0004	0	0	-100	100	12/06/2024
Arsenic		0.0010		< 0.0010	0.0004	0	0	-100	100	12/06/2024
Lead		0.0010		< 0.0010	0.0006	0	0	-100	100	12/06/2024



Quality Control Results

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Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24110005

Client Project: Meredosia GW Monitoring Q4 2024

Report Date: 11-Dec-24

SW-846 3005A, 6020A, METALS BY ICPMS (DISSOLVED)

Batch 231953		SampType: LCS		Units mg/L							Date Analyzed
SampID: LCS-231953											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Antimony		0.0010		0.953	1.000	0	95.3	80	120	12/06/2024	
Arsenic		0.0010		0.946	1.000	0	94.6	80	120	12/06/2024	
Lead		0.0010		0.972	1.000	0	97.2	80	120	12/06/2024	

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 231106		SampType: MBLK		Units mg/L							Date Analyzed
SampID: MBLK-231106											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Antimony		0.0010		< 0.0010	0.0004	0	0	-100	100	11/16/2024	
Arsenic		0.0010		< 0.0010	0.0004	0	0	-100	100	11/16/2024	
Lead		0.0010		< 0.0010	0.0006	0	0	-100	100	11/16/2024	
Thallium		0.0020		< 0.0020	0.0010	0	0	-100	100	11/16/2024	

Batch 231106		SampType: LCS		Units mg/L							Date Analyzed
SampID: LCS-231106											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Antimony		0.0010		1.13	1.000	0	112.9	80	120	11/18/2024	
Arsenic		0.0010		1.07	1.000	0	107.2	80	120	11/16/2024	
Lead		0.0010		1.11	1.000	0	111.0	80	120	11/16/2024	
Thallium		0.0020		0.499	0.5000	0	99.9	80	120	11/16/2024	

Batch 231176		SampType: MBLK		Units mg/L							Date Analyzed
SampID: MBLK-231176											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Antimony		0.0010		< 0.0010	0.0004	0	0	-100	100	11/19/2024	
Arsenic		0.0010		< 0.0010	0.0004	0	0	-100	100	11/19/2024	
Lead		0.0010		< 0.0010	0.0006	0	0	-100	100	11/19/2024	
Thallium		0.0020		< 0.0020	0.0010	0	0	-100	100	11/19/2024	

Batch 231176		SampType: LCS		Units mg/L							Date Analyzed
SampID: LCS-231176											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Antimony		0.0010	SE	1.24	1.000	0	123.8	85	115	11/19/2024	
Arsenic		0.0010		1.04	1.000	0	104.3	85	115	11/19/2024	
Lead		0.0010	E	1.03	1.000	0	102.5	85	115	11/19/2024	
Thallium		0.0020		0.475	0.5000	0	95.1	85	115	11/19/2024	



Quality Control Results

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

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24110005

Client Project: Meredosia GW Monitoring Q4 2024

Report Date: 11-Dec-24

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 231176		SampType: MS		Units mg/L							Date Analyzed
SampID: 24110005-004CMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Antimony		0.0010		1.19	1.000	0	119.3	75	125	11/19/2024	
Arsenic		0.0010		1.04	1.000	0.004544	103.4	75	125	11/19/2024	
Lead		0.0010		1.08	1.000	0	108.0	75	125	11/19/2024	
Thallium		0.0020		0.498	0.5000	0	99.5	75	125	11/19/2024	

Batch 231176		SampType: MSD		Units mg/L							RPD Limit 20	Date Analyzed
SampID: 24110005-004CMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Antimony		0.0010		1.21	1.000	0	121.2	1.193	1.57	11/19/2024		
Arsenic		0.0010		1.03	1.000	0.004544	103.0	1.039	0.47	11/19/2024		
Lead		0.0010		1.03	1.000	0	103.1	1.080	4.71	11/19/2024		
Thallium		0.0020		0.499	0.5000	0	99.7	0.4977	0.21	11/19/2024		

Batch 231176		SampType: MS		Units mg/L							Date Analyzed
SampID: 24110005-014CMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Antimony		0.0010		1.23	1.000	0	122.9	75	125	11/19/2024	
Arsenic		0.0010		1.05	1.000	0.0005630	104.8	75	125	11/19/2024	
Lead		0.0010		1.05	1.000	0	104.7	75	125	11/19/2024	
Thallium		0.0020		0.486	0.5000	0	97.2	75	125	11/19/2024	

Batch 231176		SampType: MSD		Units mg/L							RPD Limit 20	Date Analyzed
SampID: 24110005-014CMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Antimony		0.0010		1.23	1.000	0	123.0	1.229	0.02	11/19/2024		
Arsenic		0.0010		1.06	1.000	0.0005630	106.2	1.049	1.28	11/19/2024		
Lead		0.0010		1.10	1.000	0	110.3	1.047	5.19	11/19/2024		
Thallium		0.0020		0.524	0.5000	0	104.8	0.4860	7.50	11/19/2024		

Batch 231255		SampType: MBLK		Units mg/L							Date Analyzed
SampID: MBLK-231255											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Antimony		0.0010		< 0.0010	0.0004	0	0	-100	100	11/20/2024	
Arsenic		0.0010		< 0.0010	0.0004	0	0	-100	100	11/20/2024	
Lead		0.0010		< 0.0010	0.0006	0	0	-100	100	11/20/2024	
Thallium		0.0020		< 0.0020	0.0010	0	0	-100	100	11/20/2024	



Quality Control Results

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

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24110005

Client Project: Meredosia GW Monitoring Q4 2024

Report Date: 11-Dec-24

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 231255 SampType: LCS Units mg/L

SampID: LCS-231255

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Antimony		0.0010	S	1.23	1.000	0	123.1	80	120	11/20/2024
Arsenic		0.0010		1.01	1.000	0	100.9	80	120	11/20/2024
Lead		0.0010		0.988	1.000	0	98.8	80	120	11/20/2024
Thallium		0.0020		0.433	0.5000	0	86.6	80	120	11/20/2024

Batch 231948 SampType: MBLK Units mg/L

SampID: MBLK-231948

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Arsenic		0.0010		< 0.0010	0.0004	0	0	-100	100	12/06/2024
Lead		0.0010		< 0.0010	0.0006	0	0	-100	100	12/06/2024

Batch 231948 SampType: LCS Units mg/L

SampID: LCS-231948

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Arsenic		0.0010		1.14	1.000	0	114.5	85	115	12/06/2024
Lead		0.0010	E	1.14	1.000	0	114.3	85	115	12/06/2024

Batch 231948 SampType: MS Units mg/L

SampID: 24120029-001EMS

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Arsenic		0.0010		1.08	1.000	0.004079	107.8	70	130	12/06/2024

Batch 231948 SampType: MSD Units mg/L

SampID: 24120029-001EMSD

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Arsenic		0.0010		1.13	1.000	0.004079	113.1	1.082	4.77	12/06/2024

Batch 232034 SampType: MBLK Units mg/L

SampID: MBLK-232034

Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Arsenic		0.0010		< 0.0010	0.0004	0	0	-100	100	12/07/2024
Lead		0.0010		< 0.0010	0.0006	0	0	-100	100	12/07/2024



Quality Control Results

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

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24110005

Client Project: Meredosia GW Monitoring Q4 2024

Report Date: 11-Dec-24

SW-846 3005A, 6020A, METALS BY ICPMS (TOTAL)

Batch 232034		SampType: LCS		Units mg/L							Date Analyzed
SampID: LCS-232034											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Arsenic		0.0010		0.992	1.000	0	99.2	85	115	12/07/2024	
Lead		0.0010	E	0.989	1.000	0	98.9	85	115	12/07/2024	

Batch 232034		SampType: MS		Units mg/L							Date Analyzed
SampID: 24120425-001BMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Arsenic		0.0010		0.984	1.000	0.003789	98.0	75	125	12/10/2024	
Lead		0.0010		1.01	1.000	0.2209	78.9	75	125	12/07/2024	

Batch 232034		SampType: MSD		Units mg/L							RPD Limit 20	Date Analyzed
SampID: 24120425-001BMDS												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Arsenic		0.0010		0.978	1.000	0.003789	97.4	0.9836	0.57	12/11/2024		
Lead		0.0010		0.984	1.000	0.2209	76.3	1.009	2.57	12/07/2024		

SW-846 7470A (TOTAL)

Batch 231146		SampType: MBLK		Units mg/L							Date Analyzed
SampID: MBLK-231146											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.00020		< 0.00020	0.0001	0	0	-100	100	11/14/2024	

Batch 231146		SampType: LCS		Units mg/L							Date Analyzed
SampID: LCS-231146											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.00020		0.00504	0.0050	0	100.9	85	115	11/14/2024	

Batch 231146		SampType: MS		Units mg/L							Date Analyzed
SampID: 24110005-006CMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.00020		0.00503	0.0050	0	100.7	75	125	11/14/2024	

Batch 231146		SampType: MSD		Units mg/L							RPD Limit 15	Date Analyzed
SampID: 24110005-006CMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Mercury		0.00020		0.00511	0.0050	0	102.2	0.005033	1.52	11/14/2024		



Quality Control Results

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

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24110005

Client Project: Meredosia GW Monitoring Q4 2024

Report Date: 11-Dec-24

SW-846 7470A (TOTAL)

Batch 231146		SampType: MS		Units mg/L							Date Analyzed
SampID: 24110121-005CMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.00020		0.00509	0.0050	0	101.8	75	125	11/14/2024	

Batch 231146		SampType: MSD		Units mg/L							RPD Limit 15	Date Analyzed
SampID: 24110121-005CMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Mercury		0.00020		0.00501	0.0050	0	100.2	0.005091	1.58	11/14/2024		

Batch 231329		SampType: MBLK		Units mg/L							Date Analyzed
SampID: MBLK-231329											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.00020		< 0.00020	0.0001	0	0	-100	100	11/20/2024	

Batch 231329		SampType: LCS		Units mg/L							Date Analyzed
SampID: LCS-231329											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.00020		0.00488	0.0050	0	97.6	85	115	11/20/2024	

Batch 231329		SampType: MS		Units mg/L							Date Analyzed
SampID: 24110005-008CMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.00020		0.00406	0.0050	0	81.2	75	125	11/19/2024	

Batch 231329		SampType: MSD		Units mg/L							RPD Limit 15	Date Analyzed
SampID: 24110005-008CMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Mercury		0.00020		0.00418	0.0050	0	83.6	0.004059	2.97	11/19/2024		

Batch 231329		SampType: MS		Units mg/L							Date Analyzed
SampID: 24110005-009CMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.00020		0.00412	0.0050	0	82.5	75	125	11/19/2024	

Batch 231329		SampType: MSD		Units mg/L							RPD Limit 15	Date Analyzed
SampID: 24110005-009CMSD												
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed		
Mercury		0.00020		0.00413	0.0050	0	82.7	0.004123	0.27	11/19/2024		



Quality Control Results

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

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24110005

Client Project: Meredosia GW Monitoring Q4 2024

Report Date: 11-Dec-24

SW-846 7470A (TOTAL)

Batch 231381		SampType: MBLK		Units mg/L							
SampID: MBLK-231381											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.00020		< 0.00020	0.0001	0	0	-100	100	11/21/2024	
Mercury		0.00020		< 0.00020	0.0001	0	0	-100	100	11/20/2024	

Batch 231381		SampType: LCS		Units mg/L							
SampID: LCS-231381											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.00020		0.00481	0.0050	0	96.2	85	115	11/21/2024	
Mercury		0.00020		0.00476	0.0050	0	95.2	85	115	11/20/2024	

Batch 231381		SampType: MS		Units mg/L							
SampID: 24110005-002CMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.00020		0.00491	0.0050	0	98.2	75	125	11/20/2024	

Batch 231381		SampType: MSD		Units mg/L							
SampID: 24110005-002CMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Mercury		0.00020		0.00498	0.0050	0	99.5	0.004912	1.30	11/20/2024	

Batch 231381		SampType: MS		Units mg/L							
SampID: 24110005-005CMS											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Mercury		0.00020		0.00498	0.0050	0	99.7	75	125	11/20/2024	

Batch 231381		SampType: MSD		Units mg/L							
SampID: 24110005-005CMSD											
Analyses	Cert	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Mercury		0.00020		0.00503	0.0050	0	100.7	0.004984	1.00	11/20/2024	



Receiving Check List

http://www.teklabinc.com/

Client: AmerenEnergy Medina Valley Cogen, LLC

Work Order: 24110005

Client Project: Meredosia GW Monitoring Q4 2024

Report Date: 11-Dec-24

Carrier: Justin Colp

Received By: JMD

Completed by:

Amber Dilallo (handwritten signature)

Reviewed by:

Ellie Hopkins (handwritten signature)

On:

12-Nov-24

Amber Dilallo

On:

15-Nov-24

Ellie Hopkins

Pages to follow: Chain of custody 5

Extra pages included 0

- Shipping container/cooler in good condition? Yes [checked] No [] Not Present [] Temp °C 5.9
Type of thermal preservation? None [] Ice [checked] Blue Ice [] Dry Ice []
Chain of custody present? Yes [checked] No []
Chain of custody signed when relinquished and received? Yes [checked] No []
Chain of custody agrees with sample labels? Yes [checked] No []
Samples in proper container/bottle? Yes [checked] No []
Sample containers intact? Yes [checked] No []
Sufficient sample volume for indicated test? Yes [checked] No []
All samples received within holding time? Yes [checked] No []
Reported field parameters measured: Field [checked] Lab [] NA []
Container/Temp Blank temperature in compliance? Yes [checked] 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 [checked]
Water - TOX containers have zero headspace? Yes [] No [] No TOX containers [checked]
Water - pH acceptable upon receipt? Yes [] No [checked] NA []
NPDES/CWA TCN interferences checked/treated in the field? Yes [] No [] NA [checked]

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

pH strip #96651/98858. - JD/amberdilallo - 11/12/2024 3:12:25 PM

Samples were received on 11/13/24 at 1520 on ice [9.1C - LTG#5]. Additional Nitric Acid (100984) was needed in APW-3 upon arrival at the laboratory. pH strip #96651/98858. - NR/amberdilallo - 11/13/2024 5:33:36 PM

Samples were received on 11/14/24 at 1415 on ice [3.5C - LTG#5]. Field Blank was filtered and preserved with Nitric Acid (100984) and left unpreserved for the dissolved parameters upon arrival at the laboratory. pH strip #96651/98858. - NR/amberdilallo/EAH - 11/14/2024 6:01:59 PM

Drop off Location

- Downers Grove, IL
- Springfield, IL
- Lenexa, KS
- Collinsville, IL

CHAIN OF CUSTODY

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

Client:	AmerenEnergy Medina Valley Cogen, LLC	Samples on:	<input checked="" type="checkbox"/> ICE <input type="checkbox"/> BLUE ICE <input type="checkbox"/> NO ICE 5.9 °C LTC# 5
Address:	1901 Chouteau Avenue	Preserved in:	<input type="checkbox"/> LAB <input checked="" type="checkbox"/> FIELD FOR LAB USE ONLY
City / State / Zip	St. Louis, MO 63166-6892	Lab Notes:	PH 90651 98858 JD 11/2/24
Contact:	Annie Muehlfarth	Phone:	(314) 437-6552
E-Mail:	amuehlfarth@ameren.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? 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

Client Comments Report QC LVL: 2
 Total Metals: ICP 6010 Ba Be B Cd Cr Co Cu Fe Mn Ni Se Ag V Zn, ICP/MS 6020 Sb As Pb Tl, And Hg
 Dissolved Metals: ICP 6010 Ba Be B Cd Cr Co Cu Fe Mn Ni Se Ag V Zn, ICP/MS 6020 Sb As Pb Tl, And Hg
 Field Blank: filter upon arrival at the laboratory.

Project Name/Number			Sample Collector's Name			MATRIX		INDICATE ANALYSIS REQUESTED												
Meredosia GW Monitoring Q4 2024			Justin Galp			Aqueous	Groundwater	Cl, SO4, F-, Dissolved	Cyanide, Total	Dissolved Metals	Field Conductivity	Field DO	Field Elevations	Field ORP	Field pH	Field Temperature	Field Turbidity	Nitrate, Dissolved	TDS, Dissolved	Total Metals
Results Requested (call for PFAS TAT and surcharges)	Billing/PO#	# and Type of Containers																		
<input checked="" type="checkbox"/> Standard <input type="checkbox"/> 1-2 Day (100% Surcharge) <input type="checkbox"/> Date _____ <input type="checkbox"/> 3 Day (50% Surcharge)		<table border="1" style="font-size: small;"> <tr> <th>UNP</th> <th>HNO3</th> <th>NaOH</th> <th></th> <th></th> <th></th> <th></th> <th></th> </tr> </table>	UNP	HNO3	NaOH															
UNP	HNO3	NaOH																		
Lab Use Only	Sample Identification	Date/Time Sampled	UNP	HNO3	NaOH															
	24110005-001	APW-1	2	2	1															
	-002	APW-2	2	2	1															
	-003	APW-3	2	2	1															
	-004	APW-4	2	2	1															
	-005	APW-5	2	2	1															
	-006	APW-6	2	2	1															
	-007	APW-7	2	2	1															
	-008	APW-8	2	2	1															
	-009	APW-9	2	2	1															
	-010	APW-1 DUP	2	2	1															

Relinquished By	Date/Time	Received By	Date/Time
J. Galp	11-17-24 / 1337	Justin Dumas	11/12/24 13:37

Drop off Location

- Downers Grove, IL Lenexa, KS
- Springfield, IL Collinsville, IL

Electronic Filing: Received, Clerk's Office 01/30/2025

CHAIN OF CUSTODY

pg. 1 of 2

Work order # 24110005

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

Client: AmerenEnergy Medina Valley Cogen, LLC
Address: 1901 Chouteau Avenue
City / State / Zip: St. Louis, MO 63166-6892
Contact: Annie Muehlfarth **Phone:** (314) 437-6552
E-Mail: amuehlfarth@ameren.com **Fax:**

Samples on: ICE BLUE ICE NO ICE 9.1 °C **LTG#** 5
Preserved in: LAB FIELD **FOR LAB USE ONLY**
Lab Notes: 96651/98588 Added HNO₃ (100984) TO APW3

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

Client Comments Report QC LVL: 2
 Total Metals: ICP 6010 Ba Be B Cd Cr Co Cu Fe Mn Ni Se Ag V Zn, ICP/MS 6020 Sb As Pb Tl, And Hg
 Dissolved Metals: ICP 6010 Ba Be B Cd Cr Co Cu Fe Mn Ni Se Ag V Zn, ICP/MS 6020 Sb As Pb Tl, And Hg
 Field Blank: filter upon arrival at the laboratory.

Project Name/Number Meredosia GW Monitoring Q4 2024
Sample Collector's Name Justin Colp

Results Requested (call for PFAS TAT and surcharges)
 Standard 1-2 Day (100% Surcharge)
 Date 3 Day (50% Surcharge)
Billing/PO# **# and Type of Containers**

Lab Use Only	Sample Identification	Date/Time Sampled	# and Type of Containers			UNP	HNO3	NaOH													
			UNP	HNO3	NaOH																
24110005-001	APW-1	11-13-24 / 1232	2	2	1																
-002	APW-2	11-13-24 / 1156	2	2	1																
-003	APW-3	11-13-24 / 1129	2	2	1																
-004	APW-4	11-13-24 / 1057	2	2	1																
-005	APW-5	11-13-24 / 1314	2	2	1																
-006	APW-6		2	2	1																
-007	APW-7	11-13-24 / 0942	2	2	1																
-008	APW-8		2	2	1																
-009	APW-9		2	2	1																
-010	APW-1 DUP	11-13-24 / 1232	2	2	1																

MATRIX	INDICATE ANALYSIS REQUESTED														
	Groundwater	Aqueous	Cl, SO4, F-, Dissolved	Cyanide, Total	Dissolved Metals	Field Conductivity	Field DO	Field Elevations	Field ORP	Field pH	Field Temperature	Field Turbidity	Nitrate, Dissolved	TDS, Dissolved	Total Metals
X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Relinquished By	Date/Time	Received By	Date/Time
<u>J. Colp</u>	<u>11-13-24 / 1520</u>	<u>Trish Reed</u>	<u>11/13/24 1520</u>

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

BottleOrder: 94487



Drop off Location

- Downers Grove, IL Lenexa, KS
- Springfield, IL Collinsville, IL

Electronic Filing: Received, Clerk's Office 01/30/2025

CHAIN OF CUSTODY

pg. 2 of 2

Work order # 24110005

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

Client: AmerenEnergy Medina Valley Cogen, LLC
Address: 1901 Chouteau Avenue
City / State / Zip: St. Louis, MO 63166-6892
Contact: Annie Muehlfarth **Phone:** (314) 437-6552
E-Mail: amuehlfarth@ameren.com **Fax:**

Samples on: ICE BLUE ICE NO ICE °C LTG#
Preserved in: LAB FIELD **FOR LAB USE ONLY**
Lab Notes:

Client Comments Report QC LVL: 2
 Total Metals: ICP 6010 Ba Be B Cd Cr Co Cu Fe Mn Ni Se Ag V Zn, ICP/MS 6020 Sb As Pb Tl, And Hg
 Dissolved Metals: ICP 6010 Ba Be B Cd Cr Co Cu Fe Mn Ni Se Ag V Zn, ICP/MS 6020 Sb As Pb Tl, And Hg
 Field Blank: filter upon arrival at the laboratory.

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

Project Name/Number		Sample Collector's Name							
Meredosia GW Monitoring Q4 2024		Justin Gelp							
Results Requested (call for PFAS TAT and surcharges)		Billing/PO#	# and Type of Containers						
<input checked="" type="checkbox"/> Standard <input type="checkbox"/> 1-2 Day (100% Surcharge) <input type="checkbox"/> Date <input type="checkbox"/> 3 Day (50% Surcharge)			<table border="1"> <tr> <th>UNP</th> <th>HNO3</th> <th>NaOH</th> </tr> <tr> <td></td> <td></td> <td></td> </tr> </table>	UNP	HNO3	NaOH			
UNP	HNO3	NaOH							
Lab Use Only	Sample Identification	Date/Time Sampled							
24110005-011	Field Blank		2 1 1						
-012	APW-10		2 2 1						
-013	APW-11		2 2 1						
-014	APW-12	11-13-24 / 1019	2 2 1						
-015	APW-13	11-13-24 / DRY	2 2 1						
-016	APW-14	11-13-24 / DRY	2 2 1						

MATRIX	INDICATE ANALYSIS REQUESTED												
	Cl, SO4, F-, Dissolved	Cyanide, Total	Dissolved Metals	Field Conductivity	Field DO	Field Elevations	Field ORP	Field pH	Field Temperature	Field Turbidity	Nitrate, Dissolved	TDS, Dissolved	Total Metals
Aqueous													
Groundwater													
X	X	X	X	X	X	X	X	X	X	X	X	X	X
X	X	X	X	X	X	X	X	X	X	X	X	X	X
X	X	X	X	X	X	X	X	X	X	X	X	X	X
X	X	X	X	X	X	X	X	X	X	X	X	X	X
X	X	X	X	X	X	X	X	X	X	X	X	X	X

Relinquished By	Date/Time	Received By	Date/Time
J. Gelp	11-13-24 / 1520	Justin Gelp	11/13/24 1520

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BottleOrder: 94487



Drop off Location

- Downers Grove, IL Lenexa, KS
- Springfield, IL Collinsville, IL

Electronic Filing: Received, Clerk's Office 01/30/2025

CHAIN OF CUSTODY

pg. 1 of 2

Work order # 24110005

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

Client: AmerenEnergy Medina Valley Cogen, LLC
Address: 1901 Chouteau Avenue
City / State / Zip: St. Louis, MO 63166-6892
Contact: Annie Muehlfarth **Phone:** (314) 437-6552
E-Mail: amuehlfarth@ameren.com **Fax:**

Samples on: ICE BLUE ICE NO ICE **3.5 °C** **LTG# 5**
Preserved in: LAB FIELD **FOR LAB USE ONLY**
Lab Notes: 96651/98858 11/14

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

Client Comments Report QC LVL: 2
 Total Metals: ICP 6010 Ba Be B Cd Cr Co Cu Fe Mn Ni Se Ag V Zn, ICP/MS 6020 Sb As Pb Tl, And Hg
 Dissolved Metals: ICP 6010 Ba Be B Cd Cr Co Cu Fe Mn Ni Se Ag V Zn, ICP/MS 6020 Sb As Pb Tl, And Hg
 Field Blank: filter upon arrival at the laboratory.

Project Name/Number Meredosia GW Monitoring Q4 2024
Sample Collector's Name Justin Cole

Results Requested (call for PFAS TAT and surcharges)
 Standard 1-2 Day (100% Surcharge)
 Date 3 Day (50% Surcharge)
Billing/PO# **# and Type of Containers**

Lab Use Only	Sample Identification	Date/Time Sampled	# and Type of Containers			Aqueous	Groundwater	INDICATE ANALYSIS REQUESTED														
			UNP	HNO3	NaOH			Cl, SO4, F-, Dissolved	Cyanide, Total	Dissolved Metals	Field Conductivity	Field DO	Field Elevations	Field ORP	Field pH	Field Temperature	Field Turbidity	Nitrate, Dissolved	TDS, Dissolved	Total Metals		
24110005-001	APW-1		2	2	1		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
-002	APW-2		2	2	1		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
-003	APW-3		2	2	1		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
-004	APW-4		2	2	1		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
-005	APW-5		2	2	1		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
-006	APW-6		2	2	1		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
-007	APW-7		2	2	1		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
-008	APW-8	11-14-24 / 1223	2	2	1		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
-009	APW-9	11-14-24 / 1014	2	2	1		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
-010	APW-1 DUP		2	2	1		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Relinquished By J Cole **Date/Time** 11-14-24 / 1415

Received By [Signature] **Date/Time** 11/14/24 / 1415

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BottleOrder: 94487



Drop off Location

- Downers Grove, IL
- Lenexa, KS
- Springfield, IL
- Collinsville, IL

Electronic Filing: Received, Clerk's Office 01/30/2025

CHAIN OF CUSTODY

pg. 2 of 2

Work order # 24110005

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

Client: AmerenEnergy Medina Valley Cogen, LLC
Address: 1901 Chouteau Avenue
City / State / Zip: St. Louis, MO 63166-6892
Contact: Annie Muehlfarth **Phone:** (314) 437-6552
E-Mail: amuehlfarth@ameren.com **Fax:**

Samples on: ICE BLUE ICE NO ICE °C **LTG#**
Preserved in: LAB FIELD **FOR LAB USE ONLY**
Lab Notes:

Client Comments Report QC LVL: 2
 Total Metals: ICP 6010 Ba Be B Cd Cr Co Cu Fe Mn Ni Se Ag V Zn, ICP/MS 6020 Sb As Pb Tl, And Hg
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 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

Project Name/Number Meredosia GW Monitoring Q4 2024
Sample Collector's Name Justin Golp

Results Requested (call for PFAS TAT and surcharges)
 Standard 1-2 Day (100% Surcharge)
 Date 3 Day (50% Surcharge)
Billing/PO# **# and Type of Containers**

Lab Use Only	Sample Identification	Date/Time Sampled	# and Type of Containers			Aqueous	Groundwater	INDICATE ANALYSIS REQUESTED												
			UNP	HNO3	NaOH			Cl, SO4, F-, Dissolved	Cyanide, Total	Dissolved Metals	Field Conductivity	Field DO	Field Elevations	Field ORP	Field pH	Field Temperature	Field Turbidity	Nitrate, Dissolved	TDS, Dissolved	Total Metals
24110005-011	Field Blank	11-14-24 / 1208	2	1	1		X	X	X	X								X	X	X
-012	APW-10	11-14-24 / 1057	2	2	1		X	X	X	X	X	X	X	X	X	X	X	X	X	X
-013	APW-11	11-14-24 / 1131	2	2	1		X	X	X	X	X	X	X	X	X	X	X	X	X	X
-014	APW-12		2	2	1		X	X	X	X	X	X	X	X	X	X	X	X	X	X
-015	APW-13		2	2	1		X	X	X	X	X	X	X	X	X	X	X	X	X	X
-016	APW-14		2	2	1		X	X	X	X	X	X	X	X	X	X	X	X	X	X

Relinquished By	Date/Time	Received By	Date/Time
J. Golp	11-14-24 / 1415	Amor Dela	11/14/24 1415

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BottleOrder: 94487

