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Ameren Services

19C

18-68055

October 16, 2018

0218160007-Christian
Taylorville/Ameren CIPS Gas Plant Site
SF/TECH

Mike Haggitt
Illinois Environmental Protection Agency
1021 North Grand Avenue East
P. O. Box 19276
Springfield, IL 62794-9276

Dear Mr. Haggitt:

As required by Article IX (A) of the Consent Order (Case #93-3332), this is the Third Quarter, 2018 report for the Taylorville Manufactured Gas Plant Site. This report is a summary of events. Reports and notifications of events are reported in addition to this summary throughout the quarter.

The following is a list of key events that occurred in the Third Quarter, 2018.

Third Quarter – 2018 Events

- Third quarter 2018 groundwater samples collected in August 2018 (results attached).
- The pump and treat system is still shut down as detailed in the September 11, 2017 letter sent to the IEPA.
- Searching for a replacement operator.

Fourth Quarter – 2018 Plans

- Collect third quarter groundwater samples.
- Continue searching for a replacement operator.
- Collect Seaman Estate Pond Study Samples.
- Remove carbon from the columns to prevent caking.

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OCT 19 2018

IEPA/BOL

Problems Encountered or Anticipated Problems

The pump and treat system was shut down and placed in standby mode as detailed in the September 11, 2017 letter sent to the IEPA. We have treated 1,273,184,692 gallons of groundwater through the system since startup until the end of August 2017. There has not been any migration of contamination off-site.

Sincerely yours,

Donald L. Richardson, P.E, PMP, CHMM, BCEE
Environmental Specialist
Environmental Services

IEPA - DIVISION OF RECORDS MANAGEMENT
RELEASABLE

RECEIVED

OCT 19 2018

IEPA-BOL-FSRS

cc: File WM10.33

NOV 30 2018

REVIEWER: MED

0218160007-Christian
Taylorville/Ameren CIPS Gas Plant Site
SF/TECH

Environmental
Resources
Management

1701 Golf Road
Suite 1-700
Rolling Meadows, IL 60008
(314) 733-4490
(314) 754-8121 (fax)

October 16, 2018

Mr. Don Richardson
Ameren Services Company
Consulting Environmental Engineer
1901 Chouteau Avenue / MC 602
St. Louis, Missouri 63103



RE: Year 2018 Quarter 3 Groundwater Sampling Results
Former MGP Site - Taylorville, Illinois

Dear Don:

Environmental Resources Management (ERM) appreciates the opportunity to provide groundwater sampling services at the Ameren former MGP site in Taylorville, Illinois. ERM has been performing quarterly groundwater sampling at the Taylorville site for Ameren since the start of remediation activities.

Attached are the results from the third quarter of sampling in 2018 at the Taylorville site. The data is similar to what has been observed in the past, in that impacts exceeding applicable remediation objectives (ROs) are noted primarily at Monitoring Well GW-4R. Concentrations of MGP constituents in Monitoring Well GW-3 are similar to the Quarter 2 sampling event. This monitoring well is located downgradient of the former MGP, on Ameren property. The wells on the downgradient edge of the site did not have exceedances to the ROs, including wells GW-16S, GW-16D, and the proposed compliance well GW-17. An estimated concentration of benzene was identified at GW-16D, similar to Quarter 2. Analytical services were provided by Teklab, and are attached.

ERM appreciates the opportunity to provide groundwater sampling activities at the Taylorville former MGP site. Should you have any questions, please contact me at (217) 529-0914.

Sincerely,

A handwritten signature in black ink that reads "Brett D. Carney".

Brett D. Carney, P.G.
Project Manager
Environmental Resources Management
68 Villa Grove
Springfield, IL 62712

IEPA - DIVISION OF RECORDS MANAGEMENT
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NOV 30 2018

REVIEWER: MED

Attachment

Analytical Results
August 2018

August 21, 2018

Brett Carney
ERM
68 Villa Grove
Springfield, IL 62712
TEL: (217) 529-0914
FAX:



RE: Ameren Taylorville 3rd Qtr 2018

WorkOrder: 18081123

Dear Brett Carney:

TEKLAB, INC received 22 samples on 8/15/2018 4:35:00 PM for the analysis presented in the following report.

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

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

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

Sincerely,



Michael L. Austin
Project Manager
(618)344-1004 ex 16
MAustin@teklabinc.com

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OCT 19 2018
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Report Contents

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

Client: ERM

Work Order: 18081123

Client Project: Ameren Taylorville 3rd Qtr 2018

Report Date: 21-Aug-18

This reporting package includes the following:

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Definitions

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

Client: ERM

Work Order: 18081123

Client Project: Ameren Taylorville 3rd Qtr 2018

Report Date: 21-Aug-18

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
- 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)

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: ERM

Work Order: 18081123

Client Project: Ameren Taylorville 3rd Qtr 2018

Report Date: 21-Aug-18

Cooler Receipt Temp: 7.82 °C

Locations

Collinsville

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

Collinsville Air

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

Springfield

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

Chicago

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

Kansas City

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



Accreditations

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

Client: ERM

Work Order: 18081123

Client Project: Ameren Taylorville 3rd Qtr 2018

Report Date: 21-Aug-18

State	Dept	Cert #	NELAP	Exp Date	Lab
Illinois	IEPA	100226	NELAP	1/31/2019	Collinsville
Kansas	KDHE	E-10374	NELAP	4/30/2019	Collinsville
Louisiana	LDEQ	166493	NELAP	6/30/2019	Collinsville
Louisiana	LDEQ	166578	NELAP	6/30/2019	Collinsville
Arkansas	ADEQ	88-0966		3/14/2019	Collinsville
Illinois	IDPH	17584		5/31/2019	Collinsville
Indiana	ISDH	C-IL-06		1/31/2019	Collinsville
Kentucky	KDEP	98006		12/31/2018	Collinsville
Kentucky	UST	0073		1/31/2019	Collinsville
Louisiana	LDPH	LA170027		12/31/2018	Collinsville
Missouri	MDNR	930		1/31/2019	Collinsville
Missouri	MDNR	00930		5/31/2019	Collinsville
Oklahoma	ODEQ	9978		8/31/2019	Collinsville
Tennessee	TDEC	04905		1/31/2019	Collinsville



Laboratory Results

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

Client: ERM

Work Order: 18081123

Client Project: Ameren Taylorville 3rd Qtr 2018

Report Date: 21-Aug-18

Lab ID: 18081123-001

Client Sample ID: GW-01

Matrix: GROUNDWATER

Collection Date: 08/14/2018 11:00

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3510C, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS								
Acenaphthene	NELAP	0.000100		ND	mg/L	1	08/17/2018 18:19	144997
Acenaphthylene	NELAP	0.000100		ND	mg/L	1	08/17/2018 18:19	144997
Anthracene	NELAP	0.000100		ND	mg/L	1	08/17/2018 18:19	144997
Benzo(a)anthracene	NELAP	0.000100		ND	mg/L	1	08/17/2018 18:19	144997
Benzo(a)pyrene	NELAP	0.000100		ND	mg/L	1	08/17/2018 18:19	144997
Benzo(b)fluoranthene	NELAP	0.000100		ND	mg/L	1	08/17/2018 18:19	144997
Benzo(g,h,i)perylene	NELAP	0.000100		ND	mg/L	1	08/17/2018 18:19	144997
Benzo(k)fluoranthene	NELAP	0.000100		ND	mg/L	1	08/17/2018 18:19	144997
Bis(2-ethylhexyl)phthalate	NELAP	0.00200		ND	mg/L	1	08/17/2018 18:19	144997
Chrysene	NELAP	0.000100		ND	mg/L	1	08/17/2018 18:19	144997
Dibenzo(a,h)anthracene	NELAP	0.000100		ND	mg/L	1	08/17/2018 18:19	144997
Fluoranthene	NELAP	0.000200		ND	mg/L	1	08/17/2018 18:19	144997
Fluorene	NELAP	0.000100		ND	mg/L	1	08/17/2018 18:19	144997
Indeno(1,2,3-cd)pyrene	NELAP	0.000100		ND	mg/L	1	08/17/2018 18:19	144997
Naphthalene	NELAP	0.000200		ND	mg/L	1	08/17/2018 18:19	144997
Phenanthrene	NELAP	0.000400		ND	mg/L	1	08/17/2018 18:19	144997
Pyrene	NELAP	0.000100		ND	mg/L	1	08/17/2018 18:19	144997
Surr: 2-Fluorobiphenyl	*	10-164		89.0	%REC	1	08/17/2018 18:19	144997
Surr: Nitrobenzene-d5	*	10.3-142		67.5	%REC	1	08/17/2018 18:19	144997
Surr: p-Terphenyl-d14	*	47.1-148		107.2	%REC	1	08/17/2018 18:19	144997
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.50		ND	µg/L	1	08/16/2018 10:01	144955
Bromoform	NELAP	2.00		ND	µg/L	1	08/16/2018 10:01	144955
Ethylbenzene	NELAP	1.00		ND	µg/L	1	08/16/2018 10:01	144955
m,p-Xylenes	NELAP	1.00		ND	µg/L	1	08/16/2018 10:01	144955
Methylene chloride	NELAP	2.00		ND	µg/L	1	08/16/2018 10:01	144955
Naphthalene	NELAP	2.00		ND	µg/L	1	08/16/2018 10:01	144955
o-Xylene	NELAP	1.00		ND	µg/L	1	08/16/2018 10:01	144955
Toluene	NELAP	2.00		ND	µg/L	1	08/16/2018 10:01	144955
trans-1,2-Dichloroethene	NELAP	2.00		ND	µg/L	1	08/16/2018 10:01	144955
Xylenes, Total	NELAP	1.00		ND	µg/L	1	08/16/2018 10:01	144955
Surr: 1,2-Dichloroethane-d4	*	79.6-118		91.6	%REC	1	08/16/2018 10:01	144955
Surr: 4-Bromofluorobenzene	*	83.9-115		97.5	%REC	1	08/16/2018 10:01	144955
Surr: Dibromofluoromethane	*	84.9-113		97.1	%REC	1	08/16/2018 10:01	144955
Surr: Toluene-d8	*	86.7-112		99.6	%REC	1	08/16/2018 10:01	144955



Laboratory Results

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

Client: ERM

Work Order: 18081123

Client Project: Ameren Taylorville 3rd Qtr 2018

Report Date: 21-Aug-18

Lab ID: 18081123-002

Client Sample ID: GW-02

Matrix: GROUNDWATER

Collection Date: 08/14/2018 10:25

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3510C,8270C, SEMI-VOLATILE ORGANIC COMPOUNDS								
Acenaphthene	NELAP	0.000100		ND	mg/L	1	08/17/2018 18:56	144997
Acenaphthylene	NELAP	0.00010	J	0.000065	mg/L	1	08/17/2018 18:56	144997
Anthracene	NELAP	0.000100		0.000239	mg/L	1	08/17/2018 18:56	144997
Benzo(a)anthracene	NELAP	0.000100		ND	mg/L	1	08/17/2018 18:56	144997
Benzo(a)pyrene	NELAP	0.000100		ND	mg/L	1	08/17/2018 18:56	144997
Benzo(b)fluoranthene	NELAP	0.000100		ND	mg/L	1	08/17/2018 18:56	144997
Benzo(g,h,i)perylene	NELAP	0.000100		ND	mg/L	1	08/17/2018 18:56	144997
Benzo(k)fluoranthene	NELAP	0.000100		ND	mg/L	1	08/17/2018 18:56	144997
Bis(2-ethylhexyl)phthalate	NELAP	0.00400		0.00615	mg/L	2	08/20/2018 15:09	144997
Chrysene	NELAP	0.000100		ND	mg/L	1	08/17/2018 18:56	144997
Dibenzo(a,h)anthracene	NELAP	0.000100		ND	mg/L	1	08/17/2018 18:56	144997
Fluoranthene	NELAP	0.000200		ND	mg/L	1	08/17/2018 18:56	144997
Fluorene	NELAP	0.000100		ND	mg/L	1	08/17/2018 18:56	144997
Indeno(1,2,3-cd)pyrene	NELAP	0.000100		ND	mg/L	1	08/17/2018 18:56	144997
Naphthalene	NELAP	0.00020	J	0.00017	mg/L	1	08/17/2018 18:56	144997
Phenanthrene	NELAP	0.000400		ND	mg/L	1	08/17/2018 18:56	144997
Pyrene	NELAP	0.000100		0.000120	mg/L	1	08/17/2018 18:56	144997
Surr: 2-Fluorobiphenyl	*	10-164		92.5	%REC	1	08/17/2018 18:56	144997
Surr: Nitrobenzene-d5	*	10.3-142		73.6	%REC	1	08/17/2018 18:56	144997
Surr: p-Terphenyl-d14	*	47.1-148		111.5	%REC	1	08/17/2018 18:56	144997
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.50		ND	µg/L	1	08/16/2018 10:27	144955
Bromoform	NELAP	2.00		ND	µg/L	1	08/16/2018 10:27	144955
Ethylbenzene	NELAP	1.00		ND	µg/L	1	08/16/2018 10:27	144955
m,p-Xylenes	NELAP	1.00		ND	µg/L	1	08/16/2018 10:27	144955
Methylene chloride	NELAP	2.00		ND	µg/L	1	08/16/2018 10:27	144955
Naphthalene	NELAP	2.00		ND	µg/L	1	08/16/2018 10:27	144955
o-Xylene	NELAP	1.00		ND	µg/L	1	08/16/2018 10:27	144955
Toluene	NELAP	2.00		ND	µg/L	1	08/16/2018 10:27	144955
trans-1,2-Dichloroethene	NELAP	2.00		ND	µg/L	1	08/16/2018 10:27	144955
Xylenes, Total	NELAP	1.00		ND	µg/L	1	08/16/2018 10:27	144955
Surr: 1,2-Dichloroethane-d4	*	79.6-118		93.4	%REC	1	08/16/2018 10:27	144955
Surr: 4-Bromofluorobenzene	*	83.9-115		97.0	%REC	1	08/16/2018 10:27	144955
Surr: Dibromofluoromethane	*	84.9-113		97.8	%REC	1	08/16/2018 10:27	144955
Surr: Toluene-d8	*	86.7-112		101.6	%REC	1	08/16/2018 10:27	144955



Laboratory Results

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

Client: ERM

Work Order: 18081123

Client Project: Ameren Taylorville 3rd Qtr 2018

Report Date: 21-Aug-18

Lab ID: 18081123-003

Client Sample ID: GW-03

Matrix: GROUNDWATER

Collection Date: 08/14/2018 9:45

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3510C,8270C, SEMI-VOLATILE ORGANIC COMPOUNDS								
Acenaphthene	NELAP	0.000100		ND	mg/L	1	08/17/2018 19:33	144997
Acenaphthylene	NELAP	0.000100		0.000143	mg/L	1	08/17/2018 19:33	144997
Anthracene	NELAP	0.000100		ND	mg/L	1	08/17/2018 19:33	144997
Benzo(a)anthracene	NELAP	0.00010	J	0.000055	mg/L	1	08/17/2018 19:33	144997
Benzo(a)pyrene	NELAP	0.000100		ND	mg/L	1	08/17/2018 19:33	144997
Benzo(b)fluoranthene	NELAP	0.00010	J	0.000050	mg/L	1	08/17/2018 19:33	144997
Benzo(g,h,i)perylene	NELAP	0.000100		ND	mg/L	1	08/17/2018 19:33	144997
Benzo(k)fluoranthene	NELAP	0.000100		ND	mg/L	1	08/17/2018 19:33	144997
Bis(2-ethylhexyl)phthalate	NELAP	0.00200		ND	mg/L	1	08/17/2018 19:33	144997
Chrysene	NELAP	0.000100		ND	mg/L	1	08/17/2018 19:33	144997
Dibenzo(a,h)anthracene	NELAP	0.000100		ND	mg/L	1	08/17/2018 19:33	144997
Fluoranthene	NELAP	0.000200		0.00103	mg/L	1	08/17/2018 19:33	144997
Fluorene	NELAP	0.000100		ND	mg/L	1	08/17/2018 19:33	144997
Indeno(1,2,3-cd)pyrene	NELAP	0.000100		ND	mg/L	1	08/17/2018 19:33	144997
Naphthalene	NELAP	0.000200		0.000345	mg/L	1	08/17/2018 19:33	144997
Phenanthrene	NELAP	0.000400		ND	mg/L	1	08/17/2018 19:33	144997
Pyrene	NELAP	0.000100		0.00155	mg/L	1	08/17/2018 19:33	144997
Surr: 2-Fluorobiphenyl	*	10-164		83.6	%REC	1	08/17/2018 19:33	144997
Surr: Nitrobenzene-d5	*	10.3-142		68.9	%REC	1	08/17/2018 19:33	144997
Surr: p-Terphenyl-d14	*	47.1-148		120.1	%REC	1	08/17/2018 19:33	144997
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.50	J	0.16	µg/L	1	08/16/2018 10:54	144955
Bromoform	NELAP	2.00		ND	µg/L	1	08/16/2018 10:54	144955
Ethylbenzene	NELAP	1.00		ND	µg/L	1	08/16/2018 10:54	144955
m,p-Xylenes	NELAP	1.00		ND	µg/L	1	08/16/2018 10:54	144955
Methylene chloride	NELAP	2.00		ND	µg/L	1	08/16/2018 10:54	144955
Naphthalene	NELAP	2.00		ND	µg/L	1	08/16/2018 10:54	144955
o-Xylene	NELAP	1.0	J	0.13	µg/L	1	08/16/2018 10:54	144955
Toluene	NELAP	2.0	J	0.16	µg/L	1	08/16/2018 10:54	144955
trans-1,2-Dichloroethene	NELAP	2.00		ND	µg/L	1	08/16/2018 10:54	144955
Xylenes, Total	NELAP	1.00		ND	µg/L	1	08/16/2018 10:54	144955
Surr: 1,2-Dichloroethane-d4	*	79.6-118		94.5	%REC	1	08/16/2018 10:54	144955
Surr: 4-Bromofluorobenzene	*	83.9-115		98.8	%REC	1	08/16/2018 10:54	144955
Surr: Dibromofluoromethane	*	84.9-113		99.9	%REC	1	08/16/2018 10:54	144955
Surr: Toluene-d8	*	86.7-112		98.2	%REC	1	08/16/2018 10:54	144955



Laboratory Results

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

Client: ERM

Work Order: 18081123

Client Project: Ameren Taylorville 3rd Qtr 2018

Report Date: 21-Aug-18

Lab ID: 18081123-004

Client Sample ID: GW-04R

Matrix: GROUNDWATER

Collection Date: 08/14/2018 15:45

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3510C, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS								
Acenaphthene	NELAP	0.00250		0.0139	mg/L	25	08/20/2018 15:46	144997
Acenaphthylene	NELAP	0.00250		0.00913	mg/L	25	08/20/2018 15:46	144997
Anthracene	NELAP	0.000100		0.00108	mg/L	1	08/17/2018 20:10	144997
Benzo(a)anthracene	NELAP	0.000100		0.000180	mg/L	1	08/17/2018 20:10	144997
Benzo(a)pyrene	NELAP	0.000100		ND	mg/L	1	08/17/2018 20:10	144997
Benzo(b)fluoranthene	NELAP	0.000100		0.000162	mg/L	1	08/17/2018 20:10	144997
Benzo(g,h,i)perylene	NELAP	0.00010	J	0.000052	mg/L	1	08/17/2018 20:10	144997
Benzo(k)fluoranthene	NELAP	0.000100		ND	mg/L	1	08/17/2018 20:10	144997
Bis(2-ethylhexyl)phthalate	NELAP	0.00200		ND	mg/L	1	08/17/2018 20:10	144997
Chrysene	NELAP	0.000100		0.000554	mg/L	1	08/17/2018 20:10	144997
Dibenzo(a,h)anthracene	NELAP	0.000100		ND	mg/L	1	08/17/2018 20:10	144997
Fluoranthene	NELAP	0.000200		0.00392	mg/L	1	08/17/2018 20:10	144997
Fluorene	NELAP	0.00250		0.0644	mg/L	25	08/20/2018 15:46	144997
Indeno(1,2,3-cd)pyrene	NELAP	0.00010	J	0.000084	mg/L	1	08/17/2018 20:10	144997
Naphthalene	NELAP	0.200		2.60	mg/L	1000	08/21/2018 10:52	144997
Phenanthrene	NELAP	0.0100		0.0513	mg/L	25	08/20/2018 15:46	144997
Pyrene	NELAP	0.000100		0.00187	mg/L	1	08/17/2018 20:10	144997
Surr: 2-Fluorobiphenyl	*	10-164		87.5	%REC	25	08/20/2018 15:46	144997
Surr: Nitrobenzene-d5	*	10.3-142		62.5	%REC	25	08/20/2018 15:46	144997
Surr: p-Terphenyl-d14	*	47.1-148		101.0	%REC	1	08/17/2018 20:10	144997
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	10.0		630	µg/L	20	08/16/2018 11:21	144955
Bromoform	NELAP	40.0		ND	µg/L	20	08/16/2018 11:21	144955
Ethylbenzene	NELAP	20.0		132	µg/L	20	08/16/2018 11:21	144955
m,p-Xylenes	NELAP	20.0		146	µg/L	20	08/16/2018 11:21	144955
Methylene chloride	NELAP	40.0		ND	µg/L	20	08/16/2018 11:21	144955
Naphthalene	NELAP	40.0		3970	µg/L	20	08/16/2018 11:21	144955
o-Xylene	NELAP	20.0		132	µg/L	20	08/16/2018 11:21	144955
Toluene	NELAP	40.0		267	µg/L	20	08/16/2018 11:21	144955
trans-1,2-Dichloroethene	NELAP	40.0		ND	µg/L	20	08/16/2018 11:21	144955
Xylenes, Total	NELAP	20.0		278	µg/L	20	08/16/2018 11:21	144955
Surr: 1,2-Dichloroethane-d4	*	79.6-118		95.3	%REC	20	08/16/2018 11:21	144955
Surr: 4-Bromofluorobenzene	*	83.9-115		94.3	%REC	20	08/16/2018 11:21	144955
Surr: Dibromofluoromethane	*	84.9-113		97.6	%REC	20	08/16/2018 11:21	144955
Surr: Toluene-d8	*	86.7-112		96.6	%REC	20	08/16/2018 11:21	144955

Elevated reporting limit due to high levels of target and/or non-target analytes.



Laboratory Results

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

Client: ERM

Work Order: 18081123

Client Project: Ameren Taylorville 3rd Qtr 2018

Report Date: 21-Aug-18

Lab ID: 18081123-005

Client Sample ID: GW-05

Matrix: GROUNDWATER

Collection Date: 08/13/2018 15:00

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3510C,8270C, SEMI-VOLATILE ORGANIC COMPOUNDS								
Acenaphthene	NELAP	0.000100		ND	mg/L	1	08/17/2018 20:46	144997
Acenaphthylene	NELAP	0.00010	J	0.000080	mg/L	1	08/17/2018 20:46	144997
Anthracene	NELAP	0.000100		ND	mg/L	1	08/17/2018 20:46	144997
Benzo(a)anthracene	NELAP	0.00010	J	0.000094	mg/L	1	08/17/2018 20:46	144997
Benzo(a)pyrene	NELAP	0.00010	J	0.000079	mg/L	1	08/17/2018 20:46	144997
Benzo(b)fluoranthene	NELAP	0.00010	J	0.000066	mg/L	1	08/17/2018 20:46	144997
Benzo(g,h,i)perylene	NELAP	0.00010	J	0.000045	mg/L	1	08/17/2018 20:46	144997
Benzo(k)fluoranthene	NELAP	0.000100		ND	mg/L	1	08/17/2018 20:46	144997
Bis(2-ethylhexyl)phthalate	NELAP	0.00200		0.00256	mg/L	1	08/17/2018 20:46	144997
Chrysene	NELAP	0.00010	J	0.000062	mg/L	1	08/17/2018 20:46	144997
Dibenzo(a,h)anthracene	NELAP	0.000100		ND	mg/L	1	08/17/2018 20:46	144997
Fluoranthene	NELAP	0.000200		ND	mg/L	1	08/17/2018 20:46	144997
Fluorene	NELAP	0.000100		ND	mg/L	1	08/17/2018 20:46	144997
Indeno(1,2,3-cd)pyrene	NELAP	0.000100		ND	mg/L	1	08/17/2018 20:46	144997
Naphthalene	NELAP	0.000200		0.00257	mg/L	1	08/17/2018 20:46	144997
Phenanthrene	NELAP	0.000400		ND	mg/L	1	08/17/2018 20:46	144997
Pyrene	NELAP	0.000100		ND	mg/L	1	08/17/2018 20:46	144997
Surr: 2-Fluorobiphenyl	*	10-164		76.9	%REC	1	08/17/2018 20:46	144997
Surr: Nitrobenzene-d5	*	10.3-142		73.5	%REC	1	08/17/2018 20:46	144997
Surr: p-Terphenyl-d14	*	47.1-148		110.7	%REC	1	08/17/2018 20:46	144997
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.50		ND	µg/L	1	08/16/2018 11:48	144955
Bromoform	NELAP	2.00		ND	µg/L	1	08/16/2018 11:48	144955
Ethylbenzene	NELAP	1.00		ND	µg/L	1	08/16/2018 11:48	144955
m,p-Xylenes	NELAP	1.00		ND	µg/L	1	08/16/2018 11:48	144955
Methylene chloride	NELAP	2.00		ND	µg/L	1	08/16/2018 11:48	144955
Naphthalene	NELAP	2.0	J	0.81	µg/L	1	08/16/2018 11:48	144955
o-Xylene	NELAP	1.00		ND	µg/L	1	08/16/2018 11:48	144955
Toluene	NELAP	2.00		ND	µg/L	1	08/16/2018 11:48	144955
trans-1,2-Dichloroethene	NELAP	2.00		ND	µg/L	1	08/16/2018 11:48	144955
Xylenes, Total	NELAP	1.00		ND	µg/L	1	08/16/2018 11:48	144955
Surr: 1,2-Dichloroethane-d4	*	79.6-118		93.7	%REC	1	08/16/2018 11:48	144955
Surr: 4-Bromofluorobenzene	*	83.9-115		91.7	%REC	1	08/16/2018 11:48	144955
Surr: Dibromofluoromethane	*	84.9-113		98.3	%REC	1	08/16/2018 11:48	144955
Surr: Toluene-d8	*	86.7-112		97.4	%REC	1	08/16/2018 11:48	144955



Laboratory Results

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Client: ERM

Work Order: 18081123

Client Project: Ameren Taylorville 3rd Qtr 2018

Report Date: 21-Aug-18

Lab ID: 18081123-006

Client Sample ID: GW-07

Matrix: GROUNDWATER

Collection Date: 08/13/2018 17:40

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3510C, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS								
Acenaphthene	NELAP	0.000100		0.000137	mg/L	1	08/17/2018 21:23	144997
Acenaphthylene	NELAP	0.000100		0.000282	mg/L	1	08/17/2018 21:23	144997
Anthracene	NELAP	0.000100		0.00215	mg/L	1	08/17/2018 21:23	144997
Benzo(a)anthracene	NELAP	0.000100		0.000195	mg/L	1	08/17/2018 21:23	144997
Benzo(a)pyrene	NELAP	0.000100		ND	mg/L	1	08/17/2018 21:23	144997
Benzo(b)fluoranthene	NELAP	0.000100		ND	mg/L	1	08/17/2018 21:23	144997
Benzo(g,h,i)perylene	NELAP	0.000100		ND	mg/L	1	08/17/2018 21:23	144997
Benzo(k)fluoranthene	NELAP	0.000100		ND	mg/L	1	08/17/2018 21:23	144997
Bis(2-ethylhexyl)phthalate	NELAP	0.0130		0.0131	mg/L	10	08/20/2018 16:22	144997
Chrysene	NELAP	0.000100		0.000153	mg/L	1	08/17/2018 21:23	144997
Dibenzo(a,h)anthracene	NELAP	0.000100		ND	mg/L	1	08/17/2018 21:23	144997
Fluoranthene	NELAP	0.000200		0.00258	mg/L	1	08/17/2018 21:23	144997
Fluorene	NELAP	0.000100		0.000390	mg/L	1	08/17/2018 21:23	144997
Indeno(1,2,3-cd)pyrene	NELAP	0.000100		ND	mg/L	1	08/17/2018 21:23	144997
Naphthalene	NELAP	0.000200		0.000461	mg/L	1	08/17/2018 21:23	144997
Phenanthrene	NELAP	0.000400		ND	mg/L	1	08/17/2018 21:23	144997
Pyrene	NELAP	0.000100		0.00371	mg/L	1	08/17/2018 21:23	144997
Surr: 2-Fluorobiphenyl	*	10-164		84.9	%REC	1	08/17/2018 21:23	144997
Surr: Nitrobenzene-d5	*	10.3-142		73.9	%REC	1	08/17/2018 21:23	144997
Surr: p-Terphenyl-d14	*	47.1-148		108.3	%REC	1	08/17/2018 21:23	144997
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.50		ND	µg/L	1	08/16/2018 12:14	144955
Bromoform	NELAP	2.00		ND	µg/L	1	08/16/2018 12:14	144955
Ethylbenzene	NELAP	1.00		ND	µg/L	1	08/16/2018 12:14	144955
m,p-Xylenes	NELAP	1.00		ND	µg/L	1	08/16/2018 12:14	144955
Methylene chloride	NELAP	2.00		ND	µg/L	1	08/16/2018 12:14	144955
Naphthalene	NELAP	2.00		ND	µg/L	1	08/16/2018 12:14	144955
o-Xylene	NELAP	1.00		ND	µg/L	1	08/16/2018 12:14	144955
Toluene	NELAP	2.00		ND	µg/L	1	08/16/2018 12:14	144955
trans-1,2-Dichloroethene	NELAP	2.00		ND	µg/L	1	08/16/2018 12:14	144955
Xylenes, Total	NELAP	1.00		ND	µg/L	1	08/16/2018 12:14	144955
Surr: 1,2-Dichloroethane-d4	*	79.6-118		93.9	%REC	1	08/16/2018 12:14	144955
Surr: 4-Bromofluorobenzene	*	83.9-115		100.7	%REC	1	08/16/2018 12:14	144955
Surr: Dibromofluoromethane	*	84.9-113		99.0	%REC	1	08/16/2018 12:14	144955
Surr: Toluene-d8	*	86.7-112		95.1	%REC	1	08/16/2018 12:14	144955



Laboratory Results

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Client: ERM

Work Order: 18081123

Client Project: Ameren Taylorville 3rd Qtr 2018

Report Date: 21-Aug-18

Lab ID: 18081123-007

Client Sample ID: GW-14

Matrix: GROUNDWATER

Collection Date: 08/13/2018 16:30

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3510C, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS								
Acenaphthene	NELAP	0.000100		ND	mg/L	1	08/17/2018 21:59	144997
Acenaphthylene	NELAP	0.000100		ND	mg/L	1	08/17/2018 21:59	144997
Anthracene	NELAP	0.000100		ND	mg/L	1	08/17/2018 21:59	144997
Benzo(a)anthracene	NELAP	0.000100		ND	mg/L	1	08/17/2018 21:59	144997
Benzo(a)pyrene	NELAP	0.000100		ND	mg/L	1	08/17/2018 21:59	144997
Benzo(b)fluoranthene	NELAP	0.000100		ND	mg/L	1	08/17/2018 21:59	144997
Benzo(g,h,i)perylene	NELAP	0.000100		ND	mg/L	1	08/17/2018 21:59	144997
Benzo(k)fluoranthene	NELAP	0.000100		ND	mg/L	1	08/17/2018 21:59	144997
Bis(2-ethylhexyl)phthalate	NELAP	0.0140		0.0173	mg/L	10	08/20/2018 16:59	144997
Chrysene	NELAP	0.000100		ND	mg/L	1	08/17/2018 21:59	144997
Dibenzo(a,h)anthracene	NELAP	0.000100		ND	mg/L	1	08/17/2018 21:59	144997
Fluoranthene	NELAP	0.000200		ND	mg/L	1	08/17/2018 21:59	144997
Fluorene	NELAP	0.000100		ND	mg/L	1	08/17/2018 21:59	144997
Indeno(1,2,3-cd)pyrene	NELAP	0.000100		ND	mg/L	1	08/17/2018 21:59	144997
Naphthalene	NELAP	0.000200		0.000262	mg/L	1	08/17/2018 21:59	144997
Phenanthrene	NELAP	0.000400		ND	mg/L	1	08/17/2018 21:59	144997
Pyrene	NELAP	0.000100		ND	mg/L	1	08/17/2018 21:59	144997
Surr: 2-Fluorobiphenyl	*	10-164		77.4	%REC	1	08/17/2018 21:59	144997
Surr: Nitrobenzene-d5	*	10.3-142		60.5	%REC	1	08/17/2018 21:59	144997
Surr: p-Terphenyl-d14	*	47.1-148		98.2	%REC	1	08/17/2018 21:59	144997
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.50		ND	µg/L	1	08/16/2018 12:42	144955
Bromoform	NELAP	2.00		ND	µg/L	1	08/16/2018 12:42	144955
Ethylbenzene	NELAP	1.00		ND	µg/L	1	08/16/2018 12:42	144955
m,p-Xylenes	NELAP	1.00		ND	µg/L	1	08/16/2018 12:42	144955
Methylene chloride	NELAP	2.00		ND	µg/L	1	08/16/2018 12:42	144955
Naphthalene	NELAP	2.00		ND	µg/L	1	08/16/2018 12:42	144955
o-Xylene	NELAP	1.00		ND	µg/L	1	08/16/2018 12:42	144955
Toluene	NELAP	2.00		ND	µg/L	1	08/16/2018 12:42	144955
trans-1,2-Dichloroethene	NELAP	2.00		ND	µg/L	1	08/16/2018 12:42	144955
Xylenes, Total	NELAP	1.00		ND	µg/L	1	08/16/2018 12:42	144955
Surr: 1,2-Dichloroethane-d4	*	79.6-118		96.6	%REC	1	08/16/2018 12:42	144955
Surr: 4-Bromofluorobenzene	*	83.9-115		95.3	%REC	1	08/16/2018 12:42	144955
Surr: Dibromofluoromethane	*	84.9-113		99.1	%REC	1	08/16/2018 12:42	144955
Surr: Toluene-d8	*	86.7-112		99.1	%REC	1	08/16/2018 12:42	144955



Laboratory Results

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Client: ERM

Work Order: 18081123

Client Project: Ameren Taylorville 3rd Qtr 2018

Report Date: 21-Aug-18

Lab ID: 18081123-008

Client Sample ID: GW-15

Matrix: GROUNDWATER

Collection Date: 08/14/2018 15:30

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3510C, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS								
Acenaphthene	NELAP	0.000100		ND	mg/L	1	08/20/2018 12:00	144997
Acenaphthylene	NELAP	0.000100		ND	mg/L	1	08/20/2018 12:00	144997
Anthracene	NELAP	0.000100		ND	mg/L	1	08/20/2018 12:00	144997
Benzo(a)anthracene	NELAP	0.000100		ND	mg/L	1	08/20/2018 12:00	144997
Benzo(a)pyrene	NELAP	0.000100	S	ND	mg/L	1	08/20/2018 12:00	144997
Benzo(b)fluoranthene	NELAP	0.000100	S	ND	mg/L	1	08/20/2018 12:00	144997
Benzo(g,h,i)perylene	NELAP	0.000100		ND	mg/L	1	08/20/2018 12:00	144997
Benzo(k)fluoranthene	NELAP	0.000100		ND	mg/L	1	08/20/2018 12:00	144997
Bis(2-ethylhexyl)phthalate	NELAP	0.00200	SR	0.00274	mg/L	1	08/20/2018 12:00	144997
Chrysene	NELAP	0.000100		ND	mg/L	1	08/20/2018 12:00	144997
Dibenzo(a,h)anthracene	NELAP	0.000100		ND	mg/L	1	08/20/2018 12:00	144997
Fluoranthene	NELAP	0.00020	J	0.00015	mg/L	1	08/20/2018 12:00	144997
Fluorene	NELAP	0.000100		ND	mg/L	1	08/20/2018 12:00	144997
Indeno(1,2,3-cd)pyrene	NELAP	0.000100	R	ND	mg/L	1	08/20/2018 12:00	144997
Naphthalene	NELAP	0.000200		ND	mg/L	1	08/20/2018 12:00	144997
Phenanthrene	NELAP	0.000400		ND	mg/L	1	08/20/2018 12:00	144997
Pyrene	NELAP	0.000100		0.000143	mg/L	1	08/20/2018 12:00	144997
Surr: 2-Fluorobiphenyl	*	10-164		62.9	%REC	1	08/20/2018 12:00	144997
Surr: Nitrobenzene-d5	*	10.3-142		59.4	%REC	1	08/20/2018 12:00	144997
Surr: p-Terphenyl-d14	*	47.1-148		90.3	%REC	1	08/20/2018 12:00	144997

RPD for MS/MSD was outside control limits due to sample composition.

Results for Bis(2-ethylhexyl)phthalate in the MS/MSD are estimated due to sample result being outside the calibration range.

Matrix spike did not recover within control limits due to sample composition.

SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.50		ND	µg/L	1	08/16/2018 13:09	144955
Bromoform	NELAP	2.00		ND	µg/L	1	08/16/2018 13:09	144955
Ethylbenzene	NELAP	1.00		ND	µg/L	1	08/16/2018 13:09	144955
m,p-Xylenes	NELAP	1.00		ND	µg/L	1	08/16/2018 13:09	144955
Methylene chloride	NELAP	2.00		ND	µg/L	1	08/16/2018 13:09	144955
Naphthalene	NELAP	2.00		ND	µg/L	1	08/16/2018 13:09	144955
o-Xylene	NELAP	1.00		ND	µg/L	1	08/16/2018 13:09	144955
Toluene	NELAP	2.00		ND	µg/L	1	08/16/2018 13:09	144955
trans-1,2-Dichloroethene	NELAP	2.00		ND	µg/L	1	08/16/2018 13:09	144955
Xylenes, Total	NELAP	1.00		ND	µg/L	1	08/16/2018 13:09	144955
Surr: 1,2-Dichloroethane-d4	*	79.6-118		95.4	%REC	1	08/16/2018 13:09	144955
Surr: 4-Bromofluorobenzene	*	83.9-115		94.4	%REC	1	08/16/2018 13:09	144955
Surr: Dibromofluoromethane	*	84.9-113		98.3	%REC	1	08/16/2018 13:09	144955
Surr: Toluene-d8	*	86.7-112		96.7	%REC	1	08/16/2018 13:09	144955



Laboratory Results

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

Client: ERM

Work Order: 18081123

Client Project: Ameren Taylorville 3rd Qtr 2018

Report Date: 21-Aug-18

Lab ID: 18081123-009

Client Sample ID: GW-16S

Matrix: GROUNDWATER

Collection Date: 08/14/2018 8:55

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3510C,8270C, SEMI-VOLATILE ORGANIC COMPOUNDS								
Acenaphthene	NELAP	0.000100		ND	mg/L	1	08/20/2018 13:53	144997
Acenaphthylene	NELAP	0.000100		ND	mg/L	1	08/20/2018 13:53	144997
Anthracene	NELAP	0.000100		ND	mg/L	1	08/20/2018 13:53	144997
Benzo(a)anthracene	NELAP	0.000100		ND	mg/L	1	08/20/2018 13:53	144997
Benzo(a)pyrene	NELAP	0.000100		ND	mg/L	1	08/20/2018 13:53	144997
Benzo(b)fluoranthene	NELAP	0.000100		ND	mg/L	1	08/20/2018 13:53	144997
Benzo(g,h,i)perylene	NELAP	0.000100		ND	mg/L	1	08/20/2018 13:53	144997
Benzo(k)fluoranthene	NELAP	0.000100		ND	mg/L	1	08/20/2018 13:53	144997
Bis(2-ethylhexyl)phthalate	NELAP	0.0130		0.0142	mg/L	10	08/21/2018 12:05	144997
Chrysene	NELAP	0.000100		ND	mg/L	1	08/20/2018 13:53	144997
Dibenzo(a,h)anthracene	NELAP	0.000100		ND	mg/L	1	08/20/2018 13:53	144997
Fluoranthene	NELAP	0.000200		ND	mg/L	1	08/20/2018 13:53	144997
Fluorene	NELAP	0.000100		ND	mg/L	1	08/20/2018 13:53	144997
Indeno(1,2,3-cd)pyrene	NELAP	0.000100		ND	mg/L	1	08/20/2018 13:53	144997
Naphthalene	NELAP	0.000200		ND	mg/L	1	08/20/2018 13:53	144997
Phenanthrene	NELAP	0.000400		ND	mg/L	1	08/20/2018 13:53	144997
Pyrene	NELAP	0.000100		ND	mg/L	1	08/20/2018 13:53	144997
Surr: 2-Fluorobiphenyl	*	10-164		76.6	%REC	1	08/20/2018 13:53	144997
Surr: Nitrobenzene-d5	*	10.3-142		58.3	%REC	1	08/20/2018 13:53	144997
Surr: p-Terphenyl-d14	*	47.1-148		98.5	%REC	1	08/20/2018 13:53	144997
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.50		ND	µg/L	1	08/16/2018 13:36	144955
Bromoform	NELAP	2.00		ND	µg/L	1	08/16/2018 13:36	144955
Ethylbenzene	NELAP	1.00		ND	µg/L	1	08/16/2018 13:36	144955
m,p-Xylenes	NELAP	1.00		ND	µg/L	1	08/16/2018 13:36	144955
Methylene chloride	NELAP	2.00		ND	µg/L	1	08/16/2018 13:36	144955
Naphthalene	NELAP	2.00		ND	µg/L	1	08/16/2018 13:36	144955
o-Xylene	NELAP	1.00		ND	µg/L	1	08/16/2018 13:36	144955
Toluene	NELAP	2.00		ND	µg/L	1	08/16/2018 13:36	144955
trans-1,2-Dichloroethene	NELAP	2.00		ND	µg/L	1	08/16/2018 13:36	144955
Xylenes, Total	NELAP	1.00		ND	µg/L	1	08/16/2018 13:36	144955
Surr: 1,2-Dichloroethane-d4	*	79.6-118		99.6	%REC	1	08/16/2018 13:36	144955
Surr: 4-Bromofluorobenzene	*	83.9-115		93.6	%REC	1	08/16/2018 13:36	144955
Surr: Dibromofluoromethane	*	84.9-113		101.6	%REC	1	08/16/2018 13:36	144955
Surr: Toluene-d8	*	86.7-112		97.5	%REC	1	08/16/2018 13:36	144955



Laboratory Results

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

Client: ERM

Work Order: 18081123

Client Project: Ameren Taylorville 3rd Qtr 2018

Report Date: 21-Aug-18

Lab ID: 18081123-010

Client Sample ID: GW-16D

Matrix: GROUNDWATER

Collection Date: 08/14/2018 8:30

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3510C,8270C, SEMI-VOLATILE ORGANIC COMPOUNDS								
Acenaphthene	NELAP	0.000100		ND	mg/L	1	08/19/2018 16:10	144997
Acenaphthylene	NELAP	0.000100		ND	mg/L	1	08/19/2018 16:10	144997
Anthracene	NELAP	0.000100		ND	mg/L	1	08/19/2018 16:10	144997
Benzo(a)anthracene	NELAP	0.000100		ND	mg/L	1	08/19/2018 16:10	144997
Benzo(a)pyrene	NELAP	0.000100		ND	mg/L	1	08/19/2018 16:10	144997
Benzo(b)fluoranthene	NELAP	0.000100		ND	mg/L	1	08/19/2018 16:10	144997
Benzo(g,h,i)perylene	NELAP	0.000100		ND	mg/L	1	08/19/2018 16:10	144997
Benzo(k)fluoranthene	NELAP	0.000100		ND	mg/L	1	08/19/2018 16:10	144997
Bis(2-ethylhexyl)phthalate	NELAP	0.00200		0.00350	mg/L	1	08/19/2018 16:10	144997
Chrysene	NELAP	0.000100		ND	mg/L	1	08/19/2018 16:10	144997
Dibenzo(a,h)anthracene	NELAP	0.000100		ND	mg/L	1	08/19/2018 16:10	144997
Fluoranthene	NELAP	0.000200		ND	mg/L	1	08/19/2018 16:10	144997
Fluorene	NELAP	0.000100		ND	mg/L	1	08/19/2018 16:10	144997
Indeno(1,2,3-cd)pyrene	NELAP	0.000100		ND	mg/L	1	08/19/2018 16:10	144997
Naphthalene	NELAP	0.000200		ND	mg/L	1	08/19/2018 16:10	144997
Phenanthrene	NELAP	0.000400		ND	mg/L	1	08/19/2018 16:10	144997
Pyrene	NELAP	0.000100		ND	mg/L	1	08/19/2018 16:10	144997
Surr: 2-Fluorobiphenyl	*	10-164		62.2	%REC	1	08/19/2018 16:10	144997
Surr: Nitrobenzene-d5	*	10.3-142		54.2	%REC	1	08/19/2018 16:10	144997
Surr: p-Terphenyl-d14	*	47.1-148		105.3	%REC	1	08/19/2018 16:10	144997
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.50	J	0.41	µg/L	1	08/16/2018 14:04	144955
Bromoform	NELAP	2.00		ND	µg/L	1	08/16/2018 14:04	144955
Ethylbenzene	NELAP	1.00		ND	µg/L	1	08/16/2018 14:04	144955
m,p-Xylenes	NELAP	1.00		ND	µg/L	1	08/16/2018 14:04	144955
Methylene chloride	NELAP	2.00		ND	µg/L	1	08/16/2018 14:04	144955
Naphthalene	NELAP	2.00		ND	µg/L	1	08/16/2018 14:04	144955
o-Xylene	NELAP	1.00		ND	µg/L	1	08/16/2018 14:04	144955
Toluene	NELAP	2.00		ND	µg/L	1	08/16/2018 14:04	144955
trans-1,2-Dichloroethene	NELAP	2.0	J	0.39	µg/L	1	08/16/2018 14:04	144955
Xylenes, Total	NELAP	1.00		ND	µg/L	1	08/16/2018 14:04	144955
Surr: 1,2-Dichloroethane-d4	*	79.6-118		99.1	%REC	1	08/16/2018 14:04	144955
Surr: 4-Bromofluorobenzene	*	83.9-115		94.6	%REC	1	08/16/2018 14:04	144955
Surr: Dibromofluoromethane	*	84.9-113		102.2	%REC	1	08/16/2018 14:04	144955
Surr: Toluene-d8	*	86.7-112		94.0	%REC	1	08/16/2018 14:04	144955



Laboratory Results

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

Client: ERM
 Client Project: Ameren Taylorville 3rd Qtr 2018
 Lab ID: 18081123-011
 Matrix: GROUNDWATER

Work Order: 18081123
 Report Date: 21-Aug-18

Client Sample ID: GW-17
 Collection Date: 08/14/2018 9:20

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3510C,8270C, SEMI-VOLATILE ORGANIC COMPOUNDS								
Acenaphthene	NELAP	0.000100		ND	mg/L	1	08/19/2018 16:48	144997
Acenaphthylene	NELAP	0.000100		ND	mg/L	1	08/19/2018 16:48	144997
Anthracene	NELAP	0.000100		ND	mg/L	1	08/19/2018 16:48	144997
Benzo(a)anthracene	NELAP	0.000100		ND	mg/L	1	08/19/2018 16:48	144997
Benzo(a)pyrene	NELAP	0.000100		ND	mg/L	1	08/19/2018 16:48	144997
Benzo(b)fluoranthene	NELAP	0.000100		ND	mg/L	1	08/19/2018 16:48	144997
Benzo(g,h,i)perylene	NELAP	0.000100		ND	mg/L	1	08/19/2018 16:48	144997
Benzo(k)fluoranthene	NELAP	0.000100		ND	mg/L	1	08/19/2018 16:48	144997
Bis(2-ethylhexyl)phthalate	NELAP	0.00200		ND	mg/L	1	08/19/2018 16:48	144997
Chrysene	NELAP	0.000100		ND	mg/L	1	08/19/2018 16:48	144997
Dibenzo(a,h)anthracene	NELAP	0.000100		ND	mg/L	1	08/19/2018 16:48	144997
Fluoranthene	NELAP	0.000200		ND	mg/L	1	08/19/2018 16:48	144997
Fluorene	NELAP	0.000100		ND	mg/L	1	08/19/2018 16:48	144997
Indeno(1,2,3-cd)pyrene	NELAP	0.000100		ND	mg/L	1	08/19/2018 16:48	144997
Naphthalene	NELAP	0.000200		ND	mg/L	1	08/19/2018 16:48	144997
Phenanthrene	NELAP	0.000400		ND	mg/L	1	08/19/2018 16:48	144997
Pyrene	NELAP	0.000100		ND	mg/L	1	08/19/2018 16:48	144997
Surr: 2-Fluorobiphenyl	*	10-164		75.0	%REC	1	08/19/2018 16:48	144997
Surr: Nitrobenzene-d5	*	10.3-142		59.2	%REC	1	08/19/2018 16:48	144997
Surr: p-Terphenyl-d14	*	47.1-148		107.7	%REC	1	08/19/2018 16:48	144997
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.50		ND	µg/L	1	08/16/2018 14:32	144955
Bromoform	NELAP	2.00		ND	µg/L	1	08/16/2018 14:32	144955
Ethylbenzene	NELAP	1.00		ND	µg/L	1	08/16/2018 14:32	144955
m,p-Xylenes	NELAP	1.00		ND	µg/L	1	08/16/2018 14:32	144955
Methylene chloride	NELAP	2.00		ND	µg/L	1	08/16/2018 14:32	144955
Naphthalene	NELAP	2.00		ND	µg/L	1	08/16/2018 14:32	144955
o-Xylene	NELAP	1.00		ND	µg/L	1	08/16/2018 14:32	144955
Toluene	NELAP	2.00		ND	µg/L	1	08/16/2018 14:32	144955
trans-1,2-Dichloroethene	NELAP	2.00		ND	µg/L	1	08/16/2018 14:32	144955
Xylenes, Total	NELAP	1.00		ND	µg/L	1	08/16/2018 14:32	144955
Surr: 1,2-Dichloroethane-d4	*	79.6-118		98.4	%REC	1	08/16/2018 14:32	144955
Surr: 4-Bromofluorobenzene	*	83.9-115		95.2	%REC	1	08/16/2018 14:32	144955
Surr: Dibromofluoromethane	*	84.9-113		100.5	%REC	1	08/16/2018 14:32	144955
Surr: Toluene-d8	*	86.7-112		98.4	%REC	1	08/16/2018 14:32	144955



Laboratory Results

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

Client: ERM
 Client Project: Ameren Taylorville 3rd Qtr 2018
 Lab ID: 18081123-012
 Matrix: GROUNDWATER

Work Order: 18081123
 Report Date: 21-Aug-18

Client Sample ID: GW-18S
 Collection Date: 08/14/2018 12:30

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3510C, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS								
Acenaphthene	NELAP	0.000100		ND	mg/L	1	08/19/2018 17:26	144997
Acenaphthylene	NELAP	0.000100		ND	mg/L	1	08/19/2018 17:26	144997
Anthracene	NELAP	0.000100		ND	mg/L	1	08/19/2018 17:26	144997
Benzo(a)anthracene	NELAP	0.000100		ND	mg/L	1	08/19/2018 17:26	144997
Benzo(a)pyrene	NELAP	0.000100		ND	mg/L	1	08/19/2018 17:26	144997
Benzo(b)fluoranthene	NELAP	0.000100		ND	mg/L	1	08/19/2018 17:26	144997
Benzo(g,h,i)perylene	NELAP	0.000100		ND	mg/L	1	08/19/2018 17:26	144997
Benzo(k)fluoranthene	NELAP	0.000100		ND	mg/L	1	08/19/2018 17:26	144997
Bis(2-ethylhexyl)phthalate	NELAP	0.00200		ND	mg/L	1	08/19/2018 17:26	144997
Chrysene	NELAP	0.000100		ND	mg/L	1	08/19/2018 17:26	144997
Dibenzo(a,h)anthracene	NELAP	0.000100		ND	mg/L	1	08/19/2018 17:26	144997
Fluoranthene	NELAP	0.000200		ND	mg/L	1	08/19/2018 17:26	144997
Fluorene	NELAP	0.000100		ND	mg/L	1	08/19/2018 17:26	144997
Indeno(1,2,3-cd)pyrene	NELAP	0.000100		ND	mg/L	1	08/19/2018 17:26	144997
Naphthalene	NELAP	0.000200		ND	mg/L	1	08/19/2018 17:26	144997
Phenanthrene	NELAP	0.000400		ND	mg/L	1	08/19/2018 17:26	144997
Pyrene	NELAP	0.000100		ND	mg/L	1	08/19/2018 17:26	144997
Surr: 2-Fluorobiphenyl	*	10-164		82.9	%REC	1	08/19/2018 17:26	144997
Surr: Nitrobenzene-d5	*	10.3-142		57.3	%REC	1	08/19/2018 17:26	144997
Surr: p-Terphenyl-d14	*	47.1-148		101.2	%REC	1	08/19/2018 17:26	144997
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.50		ND	µg/L	1	08/16/2018 14:59	144955
Bromoform	NELAP	2.00		ND	µg/L	1	08/16/2018 14:59	144955
Ethylbenzene	NELAP	1.00		ND	µg/L	1	08/16/2018 14:59	144955
m,p-Xylenes	NELAP	1.00		ND	µg/L	1	08/16/2018 14:59	144955
Methylene chloride	NELAP	2.00		ND	µg/L	1	08/16/2018 14:59	144955
Naphthalene	NELAP	2.00		ND	µg/L	1	08/16/2018 14:59	144955
o-Xylene	NELAP	1.00		ND	µg/L	1	08/16/2018 14:59	144955
Toluene	NELAP	2.00		ND	µg/L	1	08/16/2018 14:59	144955
trans-1,2-Dichloroethene	NELAP	2.00		ND	µg/L	1	08/16/2018 14:59	144955
Xylenes, Total	NELAP	1.00		ND	µg/L	1	08/16/2018 14:59	144955
Surr: 1,2-Dichloroethane-d4	*	79.6-118		101.8	%REC	1	08/16/2018 14:59	144955
Surr: 4-Bromofluorobenzene	*	83.9-115		94.6	%REC	1	08/16/2018 14:59	144955
Surr: Dibromofluoromethane	*	84.9-113		100.7	%REC	1	08/16/2018 14:59	144955
Surr: Toluene-d8	*	86.7-112		93.8	%REC	1	08/16/2018 14:59	144955



Laboratory Results

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

Client: ERM

Work Order: 18081123

Client Project: Ameren Taylorville 3rd Qtr 2018

Report Date: 21-Aug-18

Lab ID: 18081123-013

Client Sample ID: GW-18D

Matrix: GROUNDWATER

Collection Date: 08/14/2018 12:00

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3510C,8270C, SEMI-VOLATILE ORGANIC COMPOUNDS								
Acenaphthene	NELAP	0.000100		ND	mg/L	1	08/19/2018 18:04	144997
Acenaphthylene	NELAP	0.000100		ND	mg/L	1	08/19/2018 18:04	144997
Anthracene	NELAP	0.000100		ND	mg/L	1	08/19/2018 18:04	144997
Benzo(a)anthracene	NELAP	0.000100		ND	mg/L	1	08/19/2018 18:04	144997
Benzo(a)pyrene	NELAP	0.000100		ND	mg/L	1	08/19/2018 18:04	144997
Benzo(b)fluoranthene	NELAP	0.000100		ND	mg/L	1	08/19/2018 18:04	144997
Benzo(g,h,i)perylene	NELAP	0.000100		ND	mg/L	1	08/19/2018 18:04	144997
Benzo(k)fluoranthene	NELAP	0.000100		ND	mg/L	1	08/19/2018 18:04	144997
Bis(2-ethylhexyl)phthalate	NELAP	0.00200		0.00371	mg/L	1	08/19/2018 18:04	144997
Chrysene	NELAP	0.000100		ND	mg/L	1	08/19/2018 18:04	144997
Dibenzo(a,h)anthracene	NELAP	0.000100		ND	mg/L	1	08/19/2018 18:04	144997
Fluoranthene	NELAP	0.000200		ND	mg/L	1	08/19/2018 18:04	144997
Fluorene	NELAP	0.000100		ND	mg/L	1	08/19/2018 18:04	144997
Indeno(1,2,3-cd)pyrene	NELAP	0.000100		ND	mg/L	1	08/19/2018 18:04	144997
Naphthalene	NELAP	0.000200		ND	mg/L	1	08/19/2018 18:04	144997
Phenanthrene	NELAP	0.000400		ND	mg/L	1	08/19/2018 18:04	144997
Pyrene	NELAP	0.000100		ND	mg/L	1	08/19/2018 18:04	144997
Surr: 2-Fluorobiphenyl	*	10-164		81.2	%REC	1	08/19/2018 18:04	144997
Surr: Nitrobenzene-d5	*	10.3-142		59.5	%REC	1	08/19/2018 18:04	144997
Surr: p-Terphenyl-d14	*	47.1-148		104.4	%REC	1	08/19/2018 18:04	144997
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.50		ND	µg/L	1	08/16/2018 15:28	144955
Bromoform	NELAP	2.00		ND	µg/L	1	08/16/2018 15:28	144955
Ethylbenzene	NELAP	1.00		ND	µg/L	1	08/16/2018 15:28	144955
m,p-Xylenes	NELAP	1.00		ND	µg/L	1	08/16/2018 15:28	144955
Methylene chloride	NELAP	2.00		ND	µg/L	1	08/16/2018 15:28	144955
Naphthalene	NELAP	2.00		ND	µg/L	1	08/16/2018 15:28	144955
o-Xylene	NELAP	1.00		ND	µg/L	1	08/16/2018 15:28	144955
Toluene	NELAP	2.00		ND	µg/L	1	08/16/2018 15:28	144955
trans-1,2-Dichloroethene	NELAP	2.00		ND	µg/L	1	08/16/2018 15:28	144955
Xylenes, Total	NELAP	1.00		ND	µg/L	1	08/16/2018 15:28	144955
Surr: 1,2-Dichloroethane-d4	*	79.6-118		102.1	%REC	1	08/16/2018 15:28	144955
Surr: 4-Bromofluorobenzene	*	83.9-115		98.5	%REC	1	08/16/2018 15:28	144955
Surr: Dibromofluoromethane	*	84.9-113		99.9	%REC	1	08/16/2018 15:28	144955
Surr: Toluene-d8	*	86.7-112		98.1	%REC	1	08/16/2018 15:28	144955



Laboratory Results

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

Client: ERM

Work Order: 18081123

Client Project: Ameren Taylorville 3rd Qtr 2018

Report Date: 21-Aug-18

Lab ID: 18081123-014

Client Sample ID: GW-19S

Matrix: GROUNDWATER

Collection Date: 08/14/2018 13:35

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3510C, 8270C, SEMI-VOLATILE ORGANIC COMPOUNDS								
Acenaphthene	NELAP	0.000100		ND	mg/L	1	08/19/2018 18:45	144997
Acenaphthylene	NELAP	0.000100		ND	mg/L	1	08/19/2018 18:45	144997
Anthracene	NELAP	0.000100		ND	mg/L	1	08/19/2018 18:45	144997
Benzo(a)anthracene	NELAP	0.000100		ND	mg/L	1	08/19/2018 18:45	144997
Benzo(a)pyrene	NELAP	0.000100		ND	mg/L	1	08/19/2018 18:45	144997
Benzo(b)fluoranthene	NELAP	0.000100		ND	mg/L	1	08/19/2018 18:45	144997
Benzo(g,h,i)perylene	NELAP	0.000100		ND	mg/L	1	08/19/2018 18:45	144997
Benzo(k)fluoranthene	NELAP	0.000100		ND	mg/L	1	08/19/2018 18:45	144997
Bis(2-ethylhexyl)phthalate	NELAP	0.0140		0.0149	mg/L	10	08/20/2018 17:36	144997
Chrysene	NELAP	0.000100		ND	mg/L	1	08/19/2018 18:45	144997
Dibenzo(a,h)anthracene	NELAP	0.000100		ND	mg/L	1	08/19/2018 18:45	144997
Fluoranthene	NELAP	0.000200		ND	mg/L	1	08/19/2018 18:45	144997
Fluorene	NELAP	0.000100		ND	mg/L	1	08/19/2018 18:45	144997
Indeno(1,2,3-cd)pyrene	NELAP	0.000100		ND	mg/L	1	08/19/2018 18:45	144997
Naphthalene	NELAP	0.000200		ND	mg/L	1	08/19/2018 18:45	144997
Phenanthrene	NELAP	0.000400		ND	mg/L	1	08/19/2018 18:45	144997
Pyrene	NELAP	0.000100		ND	mg/L	1	08/19/2018 18:45	144997
Surr: 2-Fluorobiphenyl	*	10-164		65.1	%REC	1	08/19/2018 18:45	144997
Surr: Nitrobenzene-d5	*	10.3-142		62.9	%REC	1	08/19/2018 18:45	144997
Surr: p-Terphenyl-d14	*	47.1-148		90.8	%REC	1	08/19/2018 18:45	144997
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.50		ND	µg/L	1	08/16/2018 15:56	144955
Bromoform	NELAP	2.00		ND	µg/L	1	08/16/2018 15:56	144955
Ethylbenzene	NELAP	1.00		ND	µg/L	1	08/16/2018 15:56	144955
m,p-Xylenes	NELAP	1.00		ND	µg/L	1	08/16/2018 15:56	144955
Methylene chloride	NELAP	2.00		ND	µg/L	1	08/16/2018 15:56	144955
Naphthalene	NELAP	2.00		ND	µg/L	1	08/16/2018 15:56	144955
o-Xylene	NELAP	1.00		ND	µg/L	1	08/16/2018 15:56	144955
Toluene	NELAP	2.00		ND	µg/L	1	08/16/2018 15:56	144955
trans-1,2-Dichloroethene	NELAP	2.0	J	0.10	µg/L	1	08/16/2018 15:56	144955
Xylenes, Total	NELAP	1.00		ND	µg/L	1	08/16/2018 15:56	144955
Surr: 1,2-Dichloroethane-d4	*	79.6-118		101.0	%REC	1	08/16/2018 15:56	144955
Surr: 4-Bromofluorobenzene	*	83.9-115		99.0	%REC	1	08/16/2018 15:56	144955
Surr: Dibromofluoromethane	*	84.9-113		102.9	%REC	1	08/16/2018 15:56	144955
Surr: Toluene-d8	*	86.7-112		99.2	%REC	1	08/16/2018 15:56	144955



Laboratory Results

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

Client: ERM

Work Order: 18081123

Client Project: Ameren Taylorville 3rd Qtr 2018

Report Date: 21-Aug-18

Lab ID: 18081123-015

Client Sample ID: GW-19D

Matrix: GROUNDWATER

Collection Date: 08/14/2018 13:20

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3510C,8270C, SEMI-VOLATILE ORGANIC COMPOUNDS								
Acenaphthene	NELAP	0.000100		ND	mg/L	1	08/19/2018 19:22	144997
Acenaphthylene	NELAP	0.000100		ND	mg/L	1	08/19/2018 19:22	144997
Anthracene	NELAP	0.000100		ND	mg/L	1	08/19/2018 19:22	144997
Benzo(a)anthracene	NELAP	0.000100		ND	mg/L	1	08/19/2018 19:22	144997
Benzo(a)pyrene	NELAP	0.000100		ND	mg/L	1	08/19/2018 19:22	144997
Benzo(b)fluoranthene	NELAP	0.000100		ND	mg/L	1	08/19/2018 19:22	144997
Benzo(g,h,i)perylene	NELAP	0.000100		ND	mg/L	1	08/19/2018 19:22	144997
Benzo(k)fluoranthene	NELAP	0.000100		ND	mg/L	1	08/19/2018 19:22	144997
Bis(2-ethylhexyl)phthalate	NELAP	0.00650		0.00794	mg/L	5	08/21/2018 11:28	144997
Chrysene	NELAP	0.000100		ND	mg/L	1	08/19/2018 19:22	144997
Dibenzo(a,h)anthracene	NELAP	0.000100		ND	mg/L	1	08/19/2018 19:22	144997
Fluoranthene	NELAP	0.000200		ND	mg/L	1	08/19/2018 19:22	144997
Fluorene	NELAP	0.000100		ND	mg/L	1	08/19/2018 19:22	144997
Indeno(1,2,3-cd)pyrene	NELAP	0.000100		ND	mg/L	1	08/19/2018 19:22	144997
Naphthalene	NELAP	0.000200		ND	mg/L	1	08/19/2018 19:22	144997
Phenanthrene	NELAP	0.000400		ND	mg/L	1	08/19/2018 19:22	144997
Pyrene	NELAP	0.000100		ND	mg/L	1	08/19/2018 19:22	144997
Surr: 2-Fluorobiphenyl	*	10-164		73.8	%REC	1	08/19/2018 19:22	144997
Surr: Nitrobenzene-d5	*	10.3-142		55.4	%REC	1	08/19/2018 19:22	144997
Surr: p-Terphenyl-d14	*	47.1-148		94.4	%REC	1	08/19/2018 19:22	144997
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.50		ND	µg/L	1	08/16/2018 16:23	144955
Bromoform	NELAP	2.00		ND	µg/L	1	08/16/2018 16:23	144955
Ethylbenzene	NELAP	1.00		ND	µg/L	1	08/16/2018 16:23	144955
m,p-Xylenes	NELAP	1.00		ND	µg/L	1	08/16/2018 16:23	144955
Methylene chloride	NELAP	2.00		ND	µg/L	1	08/16/2018 16:23	144955
Naphthalene	NELAP	2.00		ND	µg/L	1	08/16/2018 16:23	144955
o-Xylene	NELAP	1.00		ND	µg/L	1	08/16/2018 16:23	144955
Toluene	NELAP	2.00		ND	µg/L	1	08/16/2018 16:23	144955
trans-1,2-Dichloroethene	NELAP	2.00		ND	µg/L	1	08/16/2018 16:23	144955
Xylenes, Total	NELAP	1.00		ND	µg/L	1	08/16/2018 16:23	144955
Surr: 1,2-Dichloroethane-d4	*	79.6-118		103.1	%REC	1	08/16/2018 16:23	144955
Surr: 4-Bromofluorobenzene	*	83.9-115		96.2	%REC	1	08/16/2018 16:23	144955
Surr: Dibromofluoromethane	*	84.9-113		101.0	%REC	1	08/16/2018 16:23	144955
Surr: Toluene-d8	*	86.7-112		97.8	%REC	1	08/16/2018 16:23	144955



Laboratory Results

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

Client: ERM

Work Order: 18081123

Client Project: Ameren Taylorville 3rd Qtr 2018

Report Date: 21-Aug-18

Lab ID: 18081123-016

Client Sample ID: GW-20

Matrix: GROUNDWATER

Collection Date: 08/14/2018 14:15

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3510C,8270C, SEMI-VOLATILE ORGANIC COMPOUNDS								
Acenaphthene	NELAP	0.000100		ND	mg/L	1	08/19/2018 20:00	144997
Acenaphthylene	NELAP	0.000100		0.000184	mg/L	1	08/19/2018 20:00	144997
Anthracene	NELAP	0.000100		ND	mg/L	1	08/19/2018 20:00	144997
Benzo(a)anthracene	NELAP	0.000100		0.000146	mg/L	1	08/19/2018 20:00	144997
Benzo(a)pyrene	NELAP	0.000100		0.000471	mg/L	1	08/19/2018 20:00	144997
Benzo(b)fluoranthene	NELAP	0.000100		0.000364	mg/L	1	08/19/2018 20:00	144997
Benzo(g,h,i)perylene	NELAP	0.000100		0.000513	mg/L	1	08/19/2018 20:00	144997
Benzo(k)fluoranthene	NELAP	0.000100		0.000163	mg/L	1	08/19/2018 20:00	144997
Bis(2-ethylhexyl)phthalate	NELAP	0.00200		ND	mg/L	1	08/19/2018 20:00	144997
Chrysene	NELAP	0.000100		0.000223	mg/L	1	08/19/2018 20:00	144997
Dibenzo(a,h)anthracene	NELAP	0.00010	J	0.000075	mg/L	1	08/19/2018 20:00	144997
Fluoranthene	NELAP	0.00020	J	0.00017	mg/L	1	08/19/2018 20:00	144997
Fluorene	NELAP	0.000100		ND	mg/L	1	08/19/2018 20:00	144997
Indeno(1,2,3-cd)pyrene	NELAP	0.000100		0.000536	mg/L	1	08/19/2018 20:00	144997
Naphthalene	NELAP	0.000200		ND	mg/L	1	08/19/2018 20:00	144997
Phenanthrene	NELAP	0.000400		ND	mg/L	1	08/19/2018 20:00	144997
Pyrene	NELAP	0.000100		0.000336	mg/L	1	08/19/2018 20:00	144997
Surr: 2-Fluorobiphenyl	*	10-164		79.6	%REC	1	08/19/2018 20:00	144997
Surr: Nitrobenzene-d5	*	10.3-142		60.7	%REC	1	08/19/2018 20:00	144997
Surr: p-Terphenyl-d14	*	47.1-148		84.6	%REC	1	08/19/2018 20:00	144997
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.50		ND	µg/L	1	08/16/2018 16:50	144955
Bromoform	NELAP	2.00		ND	µg/L	1	08/16/2018 16:50	144955
Ethylbenzene	NELAP	1.00		ND	µg/L	1	08/16/2018 16:50	144955
m,p-Xylenes	NELAP	1.00		ND	µg/L	1	08/16/2018 16:50	144955
Methylene chloride	NELAP	2.00		ND	µg/L	1	08/16/2018 16:50	144955
Naphthalene	NELAP	2.00		ND	µg/L	1	08/16/2018 16:50	144955
o-Xylene	NELAP	1.00		ND	µg/L	1	08/16/2018 16:50	144955
Toluene	NELAP	2.00		ND	µg/L	1	08/16/2018 16:50	144955
trans-1,2-Dichloroethene	NELAP	2.00		ND	µg/L	1	08/16/2018 16:50	144955
Xylenes, Total	NELAP	1.00		ND	µg/L	1	08/16/2018 16:50	144955
Surr: 1,2-Dichloroethane-d4	*	79.6-118		101.8	%REC	1	08/16/2018 16:50	144955
Surr: 4-Bromofluorobenzene	*	83.9-115		100.1	%REC	1	08/16/2018 16:50	144955
Surr: Dibromofluoromethane	*	84.9-113		100.3	%REC	1	08/16/2018 16:50	144955
Surr: Toluene-d8	*	86.7-112		96.1	%REC	1	08/16/2018 16:50	144955



Laboratory Results

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

Client: ERM

Work Order: 18081123

Client Project: Ameren Taylorville 3rd Qtr 2018

Report Date: 21-Aug-18

Lab ID: 18081123-017

Client Sample ID: GW-21

Matrix: GROUNDWATER

Collection Date: 08/13/2018 14:00

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3510C,8270C, SEMI-VOLATILE ORGANIC COMPOUNDS								
Acenaphthene	NELAP	0.000100		ND	mg/L	1	08/20/2018 14:31	144997
Acenaphthylene	NELAP	0.000100		ND	mg/L	1	08/20/2018 14:31	144997
Anthracene	NELAP	0.000100		ND	mg/L	1	08/20/2018 14:31	144997
Benzo(a)anthracene	NELAP	0.000100		ND	mg/L	1	08/20/2018 14:31	144997
Benzo(a)pyrene	NELAP	0.000100		ND	mg/L	1	08/20/2018 14:31	144997
Benzo(b)fluoranthene	NELAP	0.000100		ND	mg/L	1	08/20/2018 14:31	144997
Benzo(g,h,i)perylene	NELAP	0.000100		ND	mg/L	1	08/20/2018 14:31	144997
Benzo(k)fluoranthene	NELAP	0.000100		ND	mg/L	1	08/20/2018 14:31	144997
Bis(2-ethylhexyl)phthalate	NELAP	0.00200		ND	mg/L	1	08/20/2018 14:31	144997
Chrysene	NELAP	0.000100		ND	mg/L	1	08/20/2018 14:31	144997
Dibenzo(a,h)anthracene	NELAP	0.000100		ND	mg/L	1	08/20/2018 14:31	144997
Fluoranthene	NELAP	0.000200		ND	mg/L	1	08/20/2018 14:31	144997
Fluorene	NELAP	0.000100		ND	mg/L	1	08/20/2018 14:31	144997
Indeno(1,2,3-cd)pyrene	NELAP	0.000100		ND	mg/L	1	08/20/2018 14:31	144997
Naphthalene	NELAP	0.000200		ND	mg/L	1	08/20/2018 14:31	144997
Phenanthrene	NELAP	0.000400		ND	mg/L	1	08/20/2018 14:31	144997
Pyrene	NELAP	0.000100		ND	mg/L	1	08/20/2018 14:31	144997
Surr: 2-Fluorobiphenyl	*	10-164		89.1	%REC	1	08/20/2018 14:31	144997
Surr: Nitrobenzene-d5	*	10.3-142		62.4	%REC	1	08/20/2018 14:31	144997
Surr: p-Terphenyl-d14	*	47.1-148		101.0	%REC	1	08/20/2018 14:31	144997
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.50		ND	µg/L	1	08/16/2018 17:18	144955
Bromoform	NELAP	2.00		ND	µg/L	1	08/16/2018 17:18	144955
Ethylbenzene	NELAP	1.00		ND	µg/L	1	08/16/2018 17:18	144955
m,p-Xylenes	NELAP	1.00		ND	µg/L	1	08/16/2018 17:18	144955
Methylene chloride	NELAP	2.00		ND	µg/L	1	08/16/2018 17:18	144955
Naphthalene	NELAP	2.00		ND	µg/L	1	08/16/2018 17:18	144955
o-Xylene	NELAP	1.00		ND	µg/L	1	08/16/2018 17:18	144955
Toluene	NELAP	2.00		ND	µg/L	1	08/16/2018 17:18	144955
trans-1,2-Dichloroethene	NELAP	2.00		ND	µg/L	1	08/16/2018 17:18	144955
Xylenes, Total	NELAP	1.00		ND	µg/L	1	08/16/2018 17:18	144955
Surr: 1,2-Dichloroethane-d4	*	79.6-118		105.6	%REC	1	08/16/2018 17:18	144955
Surr: 4-Bromofluorobenzene	*	83.9-115		92.3	%REC	1	08/16/2018 17:18	144955
Surr: Dibromofluoromethane	*	84.9-113		102.4	%REC	1	08/16/2018 17:18	144955
Surr: Toluene-d8	*	86.7-112		97.1	%REC	1	08/16/2018 17:18	144955



Laboratory Results

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

Client: ERM

Work Order: 18081123

Client Project: Ameren Taylorville 3rd Qtr 2018

Report Date: 21-Aug-18

Lab ID: 18081123-018

Client Sample ID: GW-22S

Matrix: GROUNDWATER

Collection Date: 08/14/2018 17:00

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3510C,8270C, SEMI-VOLATILE ORGANIC COMPOUNDS								
Acenaphthene	NELAP	0.000100		ND	mg/L	1	08/19/2018 13:38	144997
Acenaphthylene	NELAP	0.000100		ND	mg/L	1	08/19/2018 13:38	144997
Anthracene	NELAP	0.000100		ND	mg/L	1	08/19/2018 13:38	144997
Benzo(a)anthracene	NELAP	0.000100		ND	mg/L	1	08/19/2018 13:38	144997
Benzo(a)pyrene	NELAP	0.000100		ND	mg/L	1	08/19/2018 13:38	144997
Benzo(b)fluoranthene	NELAP	0.000100		ND	mg/L	1	08/19/2018 13:38	144997
Benzo(g,h,i)perylene	NELAP	0.000100		ND	mg/L	1	08/19/2018 13:38	144997
Benzo(k)fluoranthene	NELAP	0.000100		ND	mg/L	1	08/19/2018 13:38	144997
Bis(2-ethylhexyl)phthalate	NELAP	0.00200		0.00264	mg/L	1	08/19/2018 13:38	144997
Chrysene	NELAP	0.000100		ND	mg/L	1	08/19/2018 13:38	144997
Dibenzo(a,h)anthracene	NELAP	0.000100		ND	mg/L	1	08/19/2018 13:38	144997
Fluoranthene	NELAP	0.00020	J	0.00015	mg/L	1	08/19/2018 13:38	144997
Fluorene	NELAP	0.000100		ND	mg/L	1	08/19/2018 13:38	144997
Indeno(1,2,3-cd)pyrene	NELAP	0.000100		ND	mg/L	1	08/19/2018 13:38	144997
Naphthalene	NELAP	0.000200		ND	mg/L	1	08/19/2018 13:38	144997
Phenanthrene	NELAP	0.000400		ND	mg/L	1	08/19/2018 13:38	144997
Pyrene	NELAP	0.000100		ND	mg/L	1	08/19/2018 13:38	144997
Surr: 2-Fluorobiphenyl	*	10-164		78.0	%REC	1	08/19/2018 13:38	144997
Surr: Nitrobenzene-d5	*	10.3-142		64.9	%REC	1	08/19/2018 13:38	144997
Surr: p-Terphenyl-d14	*	47.1-148		116.5	%REC	1	08/19/2018 13:38	144997
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.50		ND	µg/L	1	08/16/2018 17:47	144955
Bromoform	NELAP	2.00		ND	µg/L	1	08/16/2018 17:47	144955
Ethylbenzene	NELAP	1.00		ND	µg/L	1	08/16/2018 17:47	144955
m,p-Xylenes	NELAP	1.00		ND	µg/L	1	08/16/2018 17:47	144955
Methylene chloride	NELAP	2.00		ND	µg/L	1	08/16/2018 17:47	144955
Naphthalene	NELAP	2.00		ND	µg/L	1	08/16/2018 17:47	144955
o-Xylene	NELAP	1.00		ND	µg/L	1	08/16/2018 17:47	144955
Toluene	NELAP	2.00		ND	µg/L	1	08/16/2018 17:47	144955
trans-1,2-Dichloroethene	NELAP	2.00		ND	µg/L	1	08/16/2018 17:47	144955
Xylenes, Total	NELAP	1.00		ND	µg/L	1	08/16/2018 17:47	144955
Surr: 1,2-Dichloroethane-d4	*	79.6-118		103.9	%REC	1	08/16/2018 17:47	144955
Surr: 4-Bromofluorobenzene	*	83.9-115		98.9	%REC	1	08/16/2018 17:47	144955
Surr: Dibromofluoromethane	*	84.9-113		99.9	%REC	1	08/16/2018 17:47	144955
Surr: Toluene-d8	*	86.7-112		97.1	%REC	1	08/16/2018 17:47	144955



Laboratory Results

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

Client: ERM
 Client Project: Ameren Taylorville 3rd Qtr 2018
 Lab ID: 18081123-019
 Matrix: GROUNDWATER

Work Order: 18081123
 Report Date: 21-Aug-18

Client Sample ID: GW-22D
 Collection Date: 08/14/2018 16:50

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3510C,8270C, SEMI-VOLATILE ORGANIC COMPOUNDS								
Acenaphthene	NELAP	0.000100		ND	mg/L	1	08/19/2018 14:16	144997
Acenaphthylene	NELAP	0.000100		ND	mg/L	1	08/19/2018 14:16	144997
Anthracene	NELAP	0.000100		ND	mg/L	1	08/19/2018 14:16	144997
Benzo(a)anthracene	NELAP	0.000100		ND	mg/L	1	08/19/2018 14:16	144997
Benzo(a)pyrene	NELAP	0.000100		ND	mg/L	1	08/19/2018 14:16	144997
Benzo(b)fluoranthene	NELAP	0.000100		ND	mg/L	1	08/19/2018 14:16	144997
Benzo(g,h,i)perylene	NELAP	0.000100		ND	mg/L	1	08/19/2018 14:16	144997
Benzo(k)fluoranthene	NELAP	0.000100		ND	mg/L	1	08/19/2018 14:16	144997
Bis(2-ethylhexyl)phthalate	NELAP	0.00650		0.00939	mg/L	5	08/21/2018 12:41	144997
Chrysene	NELAP	0.000100		ND	mg/L	1	08/19/2018 14:16	144997
Dibenzo(a,h)anthracene	NELAP	0.000100		ND	mg/L	1	08/19/2018 14:16	144997
Fluoranthene	NELAP	0.000200		ND	mg/L	1	08/19/2018 14:16	144997
Fluorene	NELAP	0.000100		ND	mg/L	1	08/19/2018 14:16	144997
Indeno(1,2,3-cd)pyrene	NELAP	0.000100		ND	mg/L	1	08/19/2018 14:16	144997
Naphthalene	NELAP	0.000200		ND	mg/L	1	08/19/2018 14:16	144997
Phenanthrene	NELAP	0.000400		ND	mg/L	1	08/19/2018 14:16	144997
Pyrene	NELAP	0.000100		ND	mg/L	1	08/19/2018 14:16	144997
Surr: 2-Fluorobiphenyl	*	10-164		82.2	%REC	1	08/19/2018 14:16	144997
Surr: Nitrobenzene-d5	*	10.3-142		61.7	%REC	1	08/19/2018 14:16	144997
Surr: p-Terphenyl-d14	*	47.1-148		118.1	%REC	1	08/19/2018 14:16	144997
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.50		ND	µg/L	1	08/16/2018 18:16	144955
Bromoform	NELAP	2.00		ND	µg/L	1	08/16/2018 18:16	144955
Ethylbenzene	NELAP	1.00		ND	µg/L	1	08/16/2018 18:16	144955
m,p-Xylenes	NELAP	1.00		ND	µg/L	1	08/16/2018 18:16	144955
Methylene chloride	NELAP	2.00		ND	µg/L	1	08/16/2018 18:16	144955
Naphthalene	NELAP	2.00		ND	µg/L	1	08/16/2018 18:16	144955
o-Xylene	NELAP	1.00		ND	µg/L	1	08/16/2018 18:16	144955
Toluene	NELAP	2.00		ND	µg/L	1	08/16/2018 18:16	144955
trans-1,2-Dichloroethene	NELAP	2.00		ND	µg/L	1	08/16/2018 18:16	144955
Xylenes, Total	NELAP	1.00		ND	µg/L	1	08/16/2018 18:16	144955
Surr: 1,2-Dichloroethane-d4	*	79.6-118		105.2	%REC	1	08/16/2018 18:16	144955
Surr: 4-Bromofluorobenzene	*	83.9-115		94.5	%REC	1	08/16/2018 18:16	144955
Surr: Dibromofluoromethane	*	84.9-113		102.6	%REC	1	08/16/2018 18:16	144955
Surr: Toluene-d8	*	86.7-112		96.7	%REC	1	08/16/2018 18:16	144955



Laboratory Results

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

Client: ERM

Work Order: 18081123

Client Project: Ameren Taylorville 3rd Qtr 2018

Report Date: 21-Aug-18

Lab ID: 18081123-020

Client Sample ID: GW-22S DUP

Matrix: GROUNDWATER

Collection Date: 08/14/2018 17:00

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3510C,8270C, SEMI-VOLATILE ORGANIC COMPOUNDS								
Acenaphthene	NELAP	0.000100		ND	mg/L	1	08/19/2018 14:54	144997
Acenaphthylene	NELAP	0.000100		ND	mg/L	1	08/19/2018 14:54	144997
Anthracene	NELAP	0.000100		ND	mg/L	1	08/19/2018 14:54	144997
Benzo(a)anthracene	NELAP	0.000100		ND	mg/L	1	08/19/2018 14:54	144997
Benzo(a)pyrene	NELAP	0.000100		ND	mg/L	1	08/19/2018 14:54	144997
Benzo(b)fluoranthene	NELAP	0.000100		ND	mg/L	1	08/19/2018 14:54	144997
Benzo(g,h,i)perylene	NELAP	0.000100		ND	mg/L	1	08/19/2018 14:54	144997
Benzo(k)fluoranthene	NELAP	0.000100		ND	mg/L	1	08/19/2018 14:54	144997
Bis(2-ethylhexyl)phthalate	NELAP	0.00200		0.00477	mg/L	1	08/19/2018 14:54	144997
Chrysene	NELAP	0.000100		ND	mg/L	1	08/19/2018 14:54	144997
Dibenzo(a,h)anthracene	NELAP	0.000100		ND	mg/L	1	08/19/2018 14:54	144997
Fluoranthene	NELAP	0.000200		ND	mg/L	1	08/19/2018 14:54	144997
Fluorene	NELAP	0.000100		ND	mg/L	1	08/19/2018 14:54	144997
Indeno(1,2,3-cd)pyrene	NELAP	0.000100		ND	mg/L	1	08/19/2018 14:54	144997
Naphthalene	NELAP	0.000200		ND	mg/L	1	08/19/2018 14:54	144997
Phenanthrene	NELAP	0.000400		ND	mg/L	1	08/19/2018 14:54	144997
Pyrene	NELAP	0.000100		ND	mg/L	1	08/19/2018 14:54	144997
Surr: 2-Fluorobiphenyl	*	10-164		70.8	%REC	1	08/19/2018 14:54	144997
Surr: Nitrobenzene-d5	*	10.3-142		56.5	%REC	1	08/19/2018 14:54	144997
Surr: p-Terphenyl-d14	*	47.1-148		98.5	%REC	1	08/19/2018 14:54	144997
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.50		ND	µg/L	1	08/16/2018 12:15	144958
Bromoform	NELAP	2.00		ND	µg/L	1	08/16/2018 12:15	144958
Ethylbenzene	NELAP	1.00		ND	µg/L	1	08/16/2018 12:15	144958
m,p-Xylenes	NELAP	1.00		ND	µg/L	1	08/16/2018 12:15	144958
Methylene chloride	NELAP	2.00		ND	µg/L	1	08/16/2018 12:15	144958
Naphthalene	NELAP	2.00		ND	µg/L	1	08/16/2018 12:15	144958
o-Xylene	NELAP	1.00		ND	µg/L	1	08/16/2018 12:15	144958
Toluene	NELAP	2.00		ND	µg/L	1	08/16/2018 12:15	144958
trans-1,2-Dichloroethene	NELAP	2.00		ND	µg/L	1	08/16/2018 12:15	144958
Xylenes, Total	NELAP	1.00		ND	µg/L	1	08/16/2018 12:15	144958
Surr: 1,2-Dichloroethane-d4	*	79.6-118		96.8	%REC	1	08/16/2018 12:15	144958
Surr: 4-Bromofluorobenzene	*	83.9-115		98.7	%REC	1	08/16/2018 12:15	144958
Surr: Dibromofluoromethane	*	84.9-113		102.7	%REC	1	08/16/2018 12:15	144958
Surr: Toluene-d8	*	86.7-112		94.3	%REC	1	08/16/2018 12:15	144958



Laboratory Results

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

Client: ERM

Work Order: 18081123

Client Project: Ameren Taylorville 3rd Qtr 2018

Report Date: 21-Aug-18

Lab ID: 18081123-021

Client Sample ID: GW-01 DUP

Matrix: GROUNDWATER

Collection Date: 08/14/2018 11:00

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 3510C,8270C, SEMI-VOLATILE ORGANIC COMPOUNDS								
Acenaphthene	NELAP	0.000100		ND	mg/L	1	08/19/2018 15:32	145026
Acenaphthylene	NELAP	0.000100		ND	mg/L	1	08/19/2018 15:32	145026
Anthracene	NELAP	0.000100		ND	mg/L	1	08/19/2018 15:32	145026
Benzo(a)anthracene	NELAP	0.000100		ND	mg/L	1	08/19/2018 15:32	145026
Benzo(a)pyrene	NELAP	0.000100		ND	mg/L	1	08/19/2018 15:32	145026
Benzo(b)fluoranthene	NELAP	0.000100		ND	mg/L	1	08/19/2018 15:32	145026
Benzo(g,h,i)perylene	NELAP	0.000100		ND	mg/L	1	08/19/2018 15:32	145026
Benzo(k)fluoranthene	NELAP	0.000100		ND	mg/L	1	08/19/2018 15:32	145026
Bis(2-ethylhexyl)phthalate	NELAP	0.00200		ND	mg/L	1	08/19/2018 15:32	145026
Chrysene	NELAP	0.000100		ND	mg/L	1	08/19/2018 15:32	145026
Dibenzo(a,h)anthracene	NELAP	0.000100		ND	mg/L	1	08/19/2018 15:32	145026
Fluoranthene	NELAP	0.000200		ND	mg/L	1	08/19/2018 15:32	145026
Fluorene	NELAP	0.000100		ND	mg/L	1	08/19/2018 15:32	145026
Indeno(1,2,3-cd)pyrene	NELAP	0.000100		ND	mg/L	1	08/19/2018 15:32	145026
Naphthalene	NELAP	0.000200		ND	mg/L	1	08/19/2018 15:32	145026
Phenanthrene	NELAP	0.000400		ND	mg/L	1	08/19/2018 15:32	145026
Pyrene	NELAP	0.000100		ND	mg/L	1	08/19/2018 15:32	145026
Surr: 2-Fluorobiphenyl	*	10-164		85.1	%REC	1	08/19/2018 15:32	145026
Surr: Nitrobenzene-d5	*	10.3-142		71.4	%REC	1	08/19/2018 15:32	145026
Surr: p-Terphenyl-d14	*	47.1-148		113.8	%REC	1	08/19/2018 15:32	145026
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.50		ND	µg/L	1	08/16/2018 12:41	144958
Bromoform	NELAP	2.00		ND	µg/L	1	08/16/2018 12:41	144958
Ethylbenzene	NELAP	1.00		ND	µg/L	1	08/16/2018 12:41	144958
m,p-Xylenes	NELAP	1.00		ND	µg/L	1	08/16/2018 12:41	144958
Methylene chloride	NELAP	2.00		ND	µg/L	1	08/16/2018 12:41	144958
Naphthalene	NELAP	2.00		ND	µg/L	1	08/16/2018 12:41	144958
o-Xylene	NELAP	1.00		ND	µg/L	1	08/16/2018 12:41	144958
Toluene	NELAP	2.00		ND	µg/L	1	08/16/2018 12:41	144958
trans-1,2-Dichloroethene	NELAP	2.00		ND	µg/L	1	08/16/2018 12:41	144958
Xylenes, Total	NELAP	1.00		ND	µg/L	1	08/16/2018 12:41	144958
Surr: 1,2-Dichloroethane-d4	*	79.6-118		93.1	%REC	1	08/16/2018 12:41	144958
Surr: 4-Bromofluorobenzene	*	83.9-115		99.3	%REC	1	08/16/2018 12:41	144958
Surr: Dibromofluoromethane	*	84.9-113		102.4	%REC	1	08/16/2018 12:41	144958
Surr: Toluene-d8	*	86.7-112		95.3	%REC	1	08/16/2018 12:41	144958



Laboratory Results

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

Client: ERM

Work Order: 18081123

Client Project: Ameren Taylorville 3rd Qtr 2018

Report Date: 21-Aug-18

Lab ID: 18081123-022

Client Sample ID: Trip Blank

Matrix: TRIP BLANK

Collection Date: 08/15/2018 16:35

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS								
Benzene	NELAP	0.50		ND	µg/L	1	08/16/2018 13:07	144958
Bromoform	NELAP	2.00		ND	µg/L	1	08/16/2018 13:07	144958
Ethylbenzene	NELAP	1.00		ND	µg/L	1	08/16/2018 13:07	144958
m,p-Xylenes	NELAP	1.00		ND	µg/L	1	08/16/2018 13:07	144958
Methylene chloride	NELAP	2.00		ND	µg/L	1	08/16/2018 13:07	144958
Naphthalene	NELAP	2.00		ND	µg/L	1	08/16/2018 13:07	144958
o-Xylene	NELAP	1.00		ND	µg/L	1	08/16/2018 13:07	144958
Toluene	NELAP	2.00		ND	µg/L	1	08/16/2018 13:07	144958
trans-1,2-Dichloroethene	NELAP	2.00		ND	µg/L	1	08/16/2018 13:07	144958
Xylenes, Total	NELAP	1.00		ND	µg/L	1	08/16/2018 13:07	144958
Surr: 1,2-Dichloroethane-d4	*	79.6-118		96.3	%REC	1	08/16/2018 13:07	144958
Surr: 4-Bromofluorobenzene	*	83.9-115		98.6	%REC	1	08/16/2018 13:07	144958
Surr: Dibromofluoromethane	*	84.9-113		102.5	%REC	1	08/16/2018 13:07	144958
Surr: Toluene-d8	*	86.7-112		95.1	%REC	1	08/16/2018 13:07	144958



Sample Summary

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

Client: ERM

Work Order: 18081123

Client Project: Ameren Taylorville 3rd Qtr 2018

Report Date: 21-Aug-18

Lab Sample ID	Client Sample ID	Matrix	Fractions	Collection Date
18081123-001	GW-01	Groundwater	2	08/14/2018 11:00
18081123-002	GW-02	Groundwater	2	08/14/2018 10:25
18081123-003	GW-03	Groundwater	2	08/14/2018 9:45
18081123-004	GW-04R	Groundwater	2	08/14/2018 15:45
18081123-005	GW-05	Groundwater	2	08/13/2018 15:00
18081123-006	GW-07	Groundwater	2	08/13/2018 17:40
18081123-007	GW-14	Groundwater	2	08/13/2018 16:30
18081123-008	GW-15	Groundwater	2	08/14/2018 15:30
18081123-009	GW-16S	Groundwater	2	08/14/2018 8:55
18081123-010	GW-16D	Groundwater	2	08/14/2018 8:30
18081123-011	GW-17	Groundwater	2	08/14/2018 9:20
18081123-012	GW-18S	Groundwater	2	08/14/2018 12:30
18081123-013	GW-18D	Groundwater	2	08/14/2018 12:00
18081123-014	GW-19S	Groundwater	2	08/14/2018 13:35
18081123-015	GW-19D	Groundwater	2	08/14/2018 13:20
18081123-016	GW-20	Groundwater	2	08/14/2018 14:15
18081123-017	GW-21	Groundwater	2	08/13/2018 14:00
18081123-018	GW-22S	Groundwater	2	08/14/2018 17:00
18081123-019	GW-22D	Groundwater	2	08/14/2018 16:50
18081123-020	GW-22S DUP	Groundwater	2	08/14/2018 17:00
18081123-021	GW-01 DUP	Groundwater	2	08/14/2018 11:00
18081123-022	Trip Blank	Trip Blank	1	08/15/2018 16:35



Dates Report

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

Client: ERM

Work Order: 18081123

Client Project: Ameren Taylorville 3rd Qtr 2018

Report Date: 21-Aug-18

Sample ID	Client Sample ID	Collection Date	Received Date	Prep Date/Time	Analysis Date/Time
Test Name					
18081123-001A	GW-01	08/14/2018 11:00	08/15/2018 16:35		
SW-846 3510C,8270C, Semi-Volatile Organic Compounds				08/17/2018 9:55	08/17/2018 18:19
18081123-001B	GW-01	08/14/2018 11:00	08/15/2018 16:35		
SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS					08/16/2018 10:01
18081123-002A	GW-02	08/14/2018 10:25	08/15/2018 16:35		
SW-846 3510C,8270C, Semi-Volatile Organic Compounds				08/17/2018 9:55	08/17/2018 18:56
SW-846 3510C,8270C, Semi-Volatile Organic Compounds				08/17/2018 9:55	08/20/2018 15:09
18081123-002B	GW-02	08/14/2018 10:25	08/15/2018 16:35		
SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS					08/16/2018 10:27
18081123-003A	GW-03	08/14/2018 9:45	08/15/2018 16:35		
SW-846 3510C,8270C, Semi-Volatile Organic Compounds				08/17/2018 9:55	08/17/2018 19:33
18081123-003B	GW-03	08/14/2018 9:45	08/15/2018 16:35		
SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS					08/16/2018 10:54
18081123-004A	GW-04R	08/14/2018 15:45	08/15/2018 16:35		
SW-846 3510C,8270C, Semi-Volatile Organic Compounds				08/17/2018 9:55	08/17/2018 20:10
SW-846 3510C,8270C, Semi-Volatile Organic Compounds				08/17/2018 9:55	08/20/2018 15:46
SW-846 3510C,8270C, Semi-Volatile Organic Compounds				08/17/2018 9:55	08/21/2018 10:52
18081123-004B	GW-04R	08/14/2018 15:45	08/15/2018 16:35		
SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS					08/16/2018 11:21
18081123-005A	GW-05	08/13/2018 15:00	08/15/2018 16:35		
SW-846 3510C,8270C, Semi-Volatile Organic Compounds				08/17/2018 9:55	08/17/2018 20:46
18081123-005B	GW-05	08/13/2018 15:00	08/15/2018 16:35		
SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS					08/16/2018 11:48
18081123-006A	GW-07	08/13/2018 17:40	08/15/2018 16:35		
SW-846 3510C,8270C, Semi-Volatile Organic Compounds				08/17/2018 9:55	08/17/2018 21:23
SW-846 3510C,8270C, Semi-Volatile Organic Compounds				08/17/2018 9:55	08/20/2018 16:22
18081123-006B	GW-07	08/13/2018 17:40	08/15/2018 16:35		
SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS					08/16/2018 12:14
18081123-007A	GW-14	08/13/2018 16:30	08/15/2018 16:35		
SW-846 3510C,8270C, Semi-Volatile Organic Compounds				08/17/2018 9:55	08/17/2018 21:59
SW-846 3510C,8270C, Semi-Volatile Organic Compounds				08/17/2018 9:55	08/20/2018 16:59
18081123-007B	GW-14	08/13/2018 16:30	08/15/2018 16:35		
SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS					08/16/2018 12:42
18081123-008A	GW-15	08/14/2018 15:30	08/15/2018 16:35		
SW-846 3510C,8270C, Semi-Volatile Organic Compounds				08/17/2018 15:50	08/20/2018 12:00



Dates Report

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

Client: ERM

Work Order: 18081123

Client Project: Ameren Taylorville 3rd Qtr 2018

Report Date: 21-Aug-18

Sample ID	Client Sample ID	Collection Date	Received Date	Prep Date/Time	Analysis Date/Time
	Test Name				
18081123-008B	GW-15	08/14/2018 15:30	08/15/2018 16:35		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				08/16/2018 13:09
18081123-009A	GW-16S	08/14/2018 8:55	08/15/2018 16:35		
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			08/17/2018 15:50	08/20/2018 13:53
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			08/17/2018 15:50	08/21/2018 12:05
18081123-009B	GW-16S	08/14/2018 8:55	08/15/2018 16:35		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				08/16/2018 13:36
18081123-010A	GW-16D	08/14/2018 8:30	08/15/2018 16:35		
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			08/17/2018 15:50	08/19/2018 16:10
18081123-010B	GW-16D	08/14/2018 8:30	08/15/2018 16:35		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				08/16/2018 14:04
18081123-011A	GW-17	08/14/2018 9:20	08/15/2018 16:35		
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			08/17/2018 15:50	08/19/2018 16:48
18081123-011B	GW-17	08/14/2018 9:20	08/15/2018 16:35		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				08/16/2018 14:32
18081123-012A	GW-18S	08/14/2018 12:30	08/15/2018 16:35		
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			08/17/2018 15:50	08/19/2018 17:26
18081123-012B	GW-18S	08/14/2018 12:30	08/15/2018 16:35		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				08/16/2018 14:59
18081123-013A	GW-18D	08/14/2018 12:00	08/15/2018 16:35		
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			08/17/2018 15:50	08/19/2018 18:04
18081123-013B	GW-18D	08/14/2018 12:00	08/15/2018 16:35		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				08/16/2018 15:28
18081123-014A	GW-19S	08/14/2018 13:35	08/15/2018 16:35		
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			08/17/2018 15:50	08/19/2018 18:45
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			08/17/2018 15:50	08/20/2018 17:36
18081123-014B	GW-19S	08/14/2018 13:35	08/15/2018 16:35		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				08/16/2018 15:56
18081123-015A	GW-19D	08/14/2018 13:20	08/15/2018 16:35		
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			08/17/2018 15:50	08/19/2018 19:22
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			08/17/2018 15:50	08/21/2018 11:28
18081123-015B	GW-19D	08/14/2018 13:20	08/15/2018 16:35		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				08/16/2018 16:23
18081123-016A	GW-20	08/14/2018 14:15	08/15/2018 16:35		
	SW-846 3510C,8270C, Semi-Volatile Organic Compounds			08/17/2018 15:50	08/19/2018 20:00



Dates Report

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

Client: ERM

Work Order: 18081123

Client Project: Ameren Taylorville 3rd Qtr 2018

Report Date: 21-Aug-18

Sample ID	Client Sample ID	Collection Date	Received Date	Prep Date/Time	Analysis Date/Time
Test Name					
18081123-016B	GW-20	08/14/2018 14:15	08/15/2018 16:35		
SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS		08/16/2018 16:50			
18081123-017A	GW-21	08/13/2018 14:00	08/15/2018 16:35		
SW-846 3510C,8270C, Semi-Volatile Organic Compounds		08/17/2018 15:50 08/20/2018 14:31			
18081123-017B	GW-21	08/13/2018 14:00	08/15/2018 16:35		
SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS		08/16/2018 17:18			
18081123-018A	GW-22S	08/14/2018 17:00	08/15/2018 16:35		
SW-846 3510C,8270C, Semi-Volatile Organic Compounds		08/18/2018 8:48 08/19/2018 13:38			
18081123-018B	GW-22S	08/14/2018 17:00	08/15/2018 16:35		
SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS		08/16/2018 17:47			
18081123-019A	GW-22D	08/14/2018 16:50	08/15/2018 16:35		
SW-846 3510C,8270C, Semi-Volatile Organic Compounds		08/18/2018 8:48 08/19/2018 14:16			
SW-846 3510C,8270C, Semi-Volatile Organic Compounds		08/18/2018 8:48 08/21/2018 12:41			
18081123-019B	GW-22D	08/14/2018 16:50	08/15/2018 16:35		
SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS		08/16/2018 18:16			
18081123-020A	GW-22S DUP	08/14/2018 17:00	08/15/2018 16:35		
SW-846 3510C,8270C, Semi-Volatile Organic Compounds		08/18/2018 8:48 08/19/2018 14:54			
18081123-020B	GW-22S DUP	08/14/2018 17:00	08/15/2018 16:35		
SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS		08/16/2018 12:15			
18081123-021A	GW-01 DUP	08/14/2018 11:00	08/15/2018 16:35		
SW-846 3510C,8270C, Semi-Volatile Organic Compounds		08/18/2018 9:01 08/19/2018 15:32			
18081123-021B	GW-01 DUP	08/14/2018 11:00	08/15/2018 16:35		
SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS		08/16/2018 12:41			
18081123-022A	Trip Blank	08/15/2018 16:35	08/15/2018 16:35		
SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS		08/16/2018 13:07			



Quality Control Results

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

Client: ERM

Work Order: 18081123

Client Project: Ameren Taylorville 3rd Qtr 2018

Report Date: 21-Aug-18

SW-846 3510C,8270C, SEMI-VOLATILE ORGANIC COMPOUNDS

Batch 144997 SampType: MBLK Units mg/L
 SampID: MBLK-144997

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Acenaphthene	0.000100		ND						08/19/2018
Acenaphthylene	0.000100		ND						08/19/2018
Anthracene	0.000100		ND						08/19/2018
Benzo(a)anthracene	0.000100		ND						08/19/2018
Benzo(a)pyrene	0.000100		ND						08/19/2018
Benzo(b)fluoranthene	0.000100		ND						08/19/2018
Benzo(g,h,i)perylene	0.000100		ND						08/19/2018
Benzo(k)fluoranthene	0.000100		ND						08/19/2018
Bis(2-ethylhexyl)phthalate	0.00600		ND						08/19/2018
Chrysene	0.000100		ND						08/19/2018
Dibenzo(a,h)anthracene	0.000100		ND						08/19/2018
Fluoranthene	0.000200		ND						08/19/2018
Fluorene	0.000100		ND						08/19/2018
Indeno(1,2,3-cd)pyrene	0.000100		ND						08/19/2018
Naphthalene	0.000200		ND						08/19/2018
Phenanthrene	0.000400		ND						08/19/2018
Pyrene	0.000100		ND						08/19/2018
Surr: 2-Fluorobiphenyl			0.000757	0.001000		75.7	34.1	131	08/19/2018
Surr: Nitrobenzene-d5			0.000643	0.001000		64.3	35.1	136	08/19/2018
Surr: p-Terphenyl-d14			0.00101	0.001000		101.2	38.3	195	08/19/2018

Batch 144997 SampType: LCS Units mg/L
 SampID: LCS-144997

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Acenaphthene	0.000100		0.00171	0.002000	0	85.5	53.8	111	08/20/2018
Acenaphthylene	0.000100		0.00174	0.002000	0	87.0	55.3	112	08/20/2018
Anthracene	0.000100		0.00174	0.002000	0	87.1	56.5	111	08/20/2018
Benzo(a)anthracene	0.000100		0.00162	0.002000	0	81.2	52.8	121	08/20/2018
Benzo(a)pyrene	0.000100		0.00180	0.002000	0	89.8	56.9	127	08/20/2018
Benzo(b)fluoranthene	0.000100		0.00157	0.002000	0	78.6	50.8	132	08/20/2018
Benzo(g,h,i)perylene	0.000100		0.00192	0.002000	0	95.8	37.6	151	08/20/2018
Benzo(k)fluoranthene	0.000100		0.00197	0.002000	0	98.4	56.6	125	08/20/2018
Bis(2-ethylhexyl)phthalate	0.00600	J	0.0023	0.002000	0	114.5	33.2	220	08/20/2018
Chrysene	0.000100		0.00167	0.002000	0	83.7	39.6	124	08/20/2018
Dibenzo(a,h)anthracene	0.000100		0.00191	0.002000	0	95.6	42.6	144	08/20/2018
Fluoranthene	0.000200		0.00195	0.002000	0	97.6	55.3	130	08/20/2018
Fluorene	0.000100		0.00178	0.002000	0	89.0	53.2	118	08/20/2018
Indeno(1,2,3-cd)pyrene	0.000100		0.00132	0.002000	0	65.8	48.4	151	08/20/2018
Naphthalene	0.000200		0.00168	0.002000	0	83.9	50.6	108	08/20/2018
Phenanthrene	0.000400		0.00200	0.002000	0	100.2	56.1	125	08/20/2018
Pyrene	0.000100		0.00199	0.002000	0	99.4	52.7	129	08/20/2018
Surr: 2-Fluorobiphenyl			0.000904	0.001000		90.4	34.1	131	08/20/2018
Surr: Nitrobenzene-d5			0.000886	0.001000		88.6	35.1	136	08/20/2018
Surr: p-Terphenyl-d14			0.00112	0.001000		112.5	38.3	195	08/20/2018



Quality Control Results

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Client: ERM

Work Order: 18081123

Client Project: Ameren Taylorville 3rd Qtr 2018

Report Date: 21-Aug-18

SW-846 3510C,8270C, SEMI-VOLATILE ORGANIC COMPOUNDS

Batch 144997	SampType: LCSD	Units mg/L					RPD Limit 40		Date Analyzed
SampID: LCSD-144997									
Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Acenaphthene	0.000100		0.00151	).00200C	0	75.4	0.001709	12.51	08/17/2018
Acenaphthylene	0.000100		0.00133	).00200C	0	66.5	0.001740	26.74	08/17/2018
Anthracene	0.000100		0.00144	).00200C	0	72.0	0.001741	18.91	08/17/2018
Benzo(a)anthracene	0.000100		0.00146	).00200C	0	73.2	0.001625	10.46	08/17/2018
Benzo(a)pyrene	0.000100		0.00149	).00200C	0	74.4	0.001796	18.76	08/17/2018
Benzo(b)fluoranthene	0.000100		0.00133	).00200C	0	66.4	0.001571	16.84	08/17/2018
Benzo(g,h,i)perylene	0.000100		0.00143	).00200C	0	71.3	0.001916	29.38	08/17/2018
Benzo(k)fluoranthene	0.000100		0.00167	).00200C	0	83.4	0.001967	16.40	08/17/2018
Bis(2-ethylhexyl)phthalate	0.00600	J	0.0017	).00200C	0	84.6	0.002291	0.00	08/17/2018
Chrysene	0.000100		0.00144	).00200C	0	72.1	0.001673	14.79	08/17/2018
Dibenzo(a,h)anthracene	0.000100		0.00149	).00200C	0	74.6	0.001913	24.71	08/17/2018
Fluoranthene	0.000200		0.00164	).00200C	0	82.1	0.001951	17.18	08/17/2018
Fluorene	0.000100		0.00158	).00200C	0	78.8	0.001779	12.10	08/17/2018
Indeno(1,2,3-cd)pyrene	0.000100		0.00145	).00200C	0	72.3	0.001317	9.36	08/17/2018
Naphthalene	0.000200		0.00143	).00200C	0	71.3	0.001678	16.20	08/17/2018
Phenanthrene	0.000400		0.00169	).00200C	0	84.7	0.002004	16.75	08/17/2018
Pyrene	0.000100		0.00161	).00200C	0	80.4	0.001988	21.11	08/17/2018
Surr: 2-Fluorobiphenyl			0.000786	).00100C		78.6			08/17/2018
Surr: Nitrobenzene-d5			0.000749	).00100C		74.9			08/17/2018
Surr: p-Terphenyl-d14			0.000985	).00100C		98.5			08/17/2018

Batch 144997	SampType: MS	Units mg/L					Date Analyzed		
SampID: 18081123-008AMS							Date Analyzed		
Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Acenaphthene	0.000100		0.00150	).00200C	0	74.8	40.5	121	08/20/2018
Acenaphthylene	0.000100		0.00143	).00200C	0	71.7	50.9	132	08/20/2018
Anthracene	0.000100		0.00149	).00200C	0	74.5	62.1	120	08/20/2018
Benzo(a)anthracene	0.000100		0.00157	).00200C	0	78.4	67.8	119	08/20/2018
Benzo(a)pyrene	0.000100	S	0.00144	).00200C	0	72.2	73.8	124	08/20/2018
Benzo(b)fluoranthene	0.000100	S	0.00136	).00200C	0	68.1	73.3	119	08/20/2018
Benzo(g,h,i)perylene	0.000100		0.00155	).00200C	0	77.7	56.3	139	08/20/2018
Benzo(k)fluoranthene	0.000100		0.00155	).00200C	0	77.3	69.5	115	08/20/2018
Bis(2-ethylhexyl)phthalate	0.00600	JE	0.0055	).00200C	0.002745	136.7	33.3	221	08/20/2018
Chrysene	0.000100		0.00166	).00200C	0	82.9	69	112	08/20/2018
Dibenzo(a,h)anthracene	0.000100		0.00161	).00200C	0	80.4	66.1	135	08/20/2018
Fluoranthene	0.000200		0.00173	).00200C	0.0001456	79.2	69.4	117	08/20/2018
Fluorene	0.000100		0.00163	).00200C	0	81.4	54.3	116	08/20/2018
Indeno(1,2,3-cd)pyrene	0.000100		0.00126	).00200C	0	63.0	62.5	136	08/20/2018
Naphthalene	0.000200		0.00142	).00200C	0	70.8	34.6	129	08/20/2018
Phenanthrene	0.000400		0.00164	).00200C	0	82.0	62.4	108	08/20/2018
Pyrene	0.000100		0.00187	).00200C	0.0001433	86.3	64.2	118	08/20/2018
Surr: 2-Fluorobiphenyl			0.000703	).00100C		70.3	10	164	08/20/2018
Surr: Nitrobenzene-d5			0.000732	).00100C		73.2	10.3	142	08/20/2018
Surr: p-Terphenyl-d14			0.00100).00100C		100.2	47.1	148	08/20/2018



Quality Control Results

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Client: ERM

Work Order: 18081123

Client Project: Ameren Taylorville 3rd Qtr 2018

Report Date: 21-Aug-18

SW-846 3510C,8270C, SEMI-VOLATILE ORGANIC COMPOUNDS

Batch 144997	SampType: MSD	Units mg/L					RPD Limit 40		
SampID: 18081123-008AMSD									
Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Acenaphthene	0.000100		0.00141	0.00200C	0	70.6	0.001495	5.67	08/20/2018
Acenaphthylene	0.000100		0.00145	0.00200C	0	72.7	0.001435	1.37	08/20/2018
Anthracene	0.000100		0.00146	0.00200C	0	73.2	0.001491	1.83	08/20/2018
Benzo(a)anthracene	0.000100		0.00148	0.00200C	0	74.0	0.001568	5.81	08/20/2018
Benzo(a)pyrene	0.000100		0.00156	0.00200C	0	77.8	0.001445	7.35	08/20/2018
Benzo(b)fluoranthene	0.000100	S	0.00134	0.00200C	0	66.9	0.001362	1.77	08/20/2018
Benzo(g,h,i)perylene	0.000100		0.00152	0.00200C	0	76.2	0.001554	1.92	08/20/2018
Benzo(k)fluoranthene	0.000100		0.00155	0.00200C	0	77.3	0.001546	0.03	08/20/2018
Bis(2-ethylhexyl)phthalate	0.00600	SRE	0.00849	0.00200C	0.002745	287.0	0.005479	43.06	08/20/2018
Chrysene	0.000100		0.00159	0.00200C	0	79.6	0.001659	4.08	08/20/2018
Dibenzo(a,h)anthracene	0.000100		0.00148	0.00200C	0	74.2	0.001608	7.96	08/20/2018
Fluoranthene	0.000200		0.00159	0.00200C	0.0001456	72.3	0.001730	8.36	08/20/2018
Fluorene	0.000100		0.00149	0.00200C	0	74.7	0.001627	8.58	08/20/2018
Indeno(1,2,3-cd)pyrene	0.000100	R	0.00224	0.00200C	0	112.2	0.001260	56.21	08/20/2018
Naphthalene	0.000200		0.00134	0.00200C	0	67.0	0.001416	5.52	08/20/2018
Phenanthrene	0.000400		0.00151	0.00200C	0	75.7	0.001640	8.04	08/20/2018
Pyrene	0.000100		0.00165	0.00200C	0.0001433	75.2	0.001869	12.64	08/20/2018
Surr: 2-Fluorobiphenyl			0.000656	0.00100C		65.6			08/20/2018
Surr: Nitrobenzene-d5			0.000657	0.00100C		65.7			08/20/2018
Surr: p-Terphenyl-d14			0.000853	0.00100C		85.3			08/20/2018

Batch 145026	SampType: MBLK	Units mg/L							Date Analyzed
SampID: MBLK-145026									
Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Acenaphthene	0.000100		ND						08/19/2018
Acenaphthylene	0.000100		ND						08/19/2018
Anthracene	0.000100		ND						08/19/2018
Benzo(a)anthracene	0.000100		ND						08/19/2018
Benzo(a)pyrene	0.000100		ND						08/19/2018
Benzo(b)fluoranthene	0.000100		ND						08/19/2018
Benzo(g,h,i)perylene	0.000100		ND						08/19/2018
Benzo(k)fluoranthene	0.000100		ND						08/19/2018
Bis(2-ethylhexyl)phthalate	0.00600		ND						08/19/2018
Chrysene	0.000100		ND						08/19/2018
Dibenzo(a,h)anthracene	0.000100		ND						08/19/2018
Fluoranthene	0.000200		ND						08/19/2018
Fluorene	0.000100		ND						08/19/2018
Indeno(1,2,3-cd)pyrene	0.000100		ND						08/19/2018
Naphthalene	0.000200		ND						08/19/2018
Phenanthrene	0.000400		ND						08/19/2018
Pyrene	0.000100		ND						08/19/2018
Surr: 2-Fluorobiphenyl			0.000825	0.00100C		82.5	34.1	131	08/19/2018
Surr: Nitrobenzene-d5			0.000734	0.00100C		73.4	35.1	136	08/19/2018
Surr: p-Terphenyl-d14			0.00114	0.00100C		113.6	38.3	195	08/19/2018



Quality Control Results

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

Client: ERM

Work Order: 18081123

Client Project: Ameren Taylorville 3rd Qtr 2018

Report Date: 21-Aug-18

SW-846 3510C,8270C, SEMI-VOLATILE ORGANIC COMPOUNDS

Batch 145026 SampType: LCS Units mg/L
 SampID: LCS-145026

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Acenaphthene	0.000100		0.00155	.002000	0	77.7	53.8	111	08/19/2018
Acenaphthylene	0.000100		0.00162	.002000	0	80.9	55.3	112	08/19/2018
Anthracene	0.000100		0.00164	.002000	0	82.1	56.5	111	08/19/2018
Benzo(a)anthracene	0.000100		0.00167	.002000	0	83.4	52.8	121	08/19/2018
Benzo(a)pyrene	0.000100		0.00169	.002000	0	84.5	56.9	127	08/19/2018
Benzo(b)fluoranthene	0.000100		0.00153	.002000	0	76.5	50.8	132	08/19/2018
Benzo(g,h,i)perylene	0.000100		0.00176	.002000	0	88.1	37.6	151	08/19/2018
Benzo(k)fluoranthene	0.000100		0.00174	.002000	0	86.9	56.6	125	08/19/2018
Bis(2-ethylhexyl)phthalate	0.00600	J	0.0023	.002000	0	115.7	33.2	220	08/19/2018
Chrysene	0.000100		0.00178	.002000	0	89.0	39.6	124	08/19/2018
Dibenzo(a,h)anthracene	0.000100		0.00190	.002000	0	94.8	42.6	144	08/19/2018
Fluoranthene	0.000200		0.00199	.002000	0	99.3	55.3	130	08/19/2018
Fluorene	0.000100		0.00163	.002000	0	81.3	53.2	118	08/19/2018
Indeno(1,2,3-cd)pyrene	0.000100		0.00258	.002000	0	129.0	48.4	151	08/19/2018
Naphthalene	0.000200		0.00153	.002000	0	76.3	50.6	108	08/19/2018
Phenanthrene	0.000400		0.00191	.002000	0	95.7	56.1	125	08/19/2018
Pyrene	0.000100		0.00200	.002000	0	100.0	52.7	129	08/19/2018
Surr: 2-Fluorobiphenyl			0.000758	.001000		75.8	34.1	131	08/19/2018
Surr: Nitrobenzene-d5			0.000787	.001000		78.7	35.1	136	08/19/2018
Surr: p-Terphenyl-d14			0.00110	.001000		110.0	38.3	195	08/19/2018

Batch 145026 SampType: LCSD Units mg/L
 SampID: LCSD-145026

RPD Limit 40

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Acenaphthene	0.000100		0.00165	.002000	0	82.4	0.001554	5.90	08/19/2018
Acenaphthylene	0.000100		0.00164	.002000	0	82.0	0.001617	1.44	08/19/2018
Anthracene	0.000100		0.00163	.002000	0	81.7	0.001642	0.49	08/19/2018
Benzo(a)anthracene	0.000100		0.00160	.002000	0	80.1	0.001668	3.99	08/19/2018
Benzo(a)pyrene	0.000100		0.00165	.002000	0	82.6	0.001689	2.26	08/19/2018
Benzo(b)fluoranthene	0.000100		0.00149	.002000	0	74.4	0.001531	2.78	08/19/2018
Benzo(g,h,i)perylene	0.000100		0.00167	.002000	0	83.7	0.001761	5.07	08/19/2018
Benzo(k)fluoranthene	0.000100		0.00179	.002000	0	89.6	0.001738	3.09	08/19/2018
Bis(2-ethylhexyl)phthalate	0.00600	J	0.0020	.002000	0	99.1	0.002314	0.00	08/19/2018
Chrysene	0.000100		0.00170	.002000	0	84.8	0.001780	4.85	08/19/2018
Dibenzo(a,h)anthracene	0.000100		0.00156	.002000	0	78.0	0.001897	19.49	08/19/2018
Fluoranthene	0.000200		0.00185	.002000	0	92.6	0.001986	6.98	08/19/2018
Fluorene	0.000100		0.00168	.002000	0	84.2	0.001627	3.50	08/19/2018
Indeno(1,2,3-cd)pyrene	0.000100		0.00235	.002000	0	117.4	0.002581	9.47	08/19/2018
Naphthalene	0.000200		0.00161	.002000	0	80.5	0.001526	5.36	08/19/2018
Phenanthrene	0.000400		0.00182	.002000	0	90.9	0.001914	5.18	08/19/2018
Pyrene	0.000100		0.00187	.002000	0	93.5	0.001999	6.71	08/19/2018
Surr: 2-Fluorobiphenyl			0.000787	.001000		78.7			08/19/2018
Surr: Nitrobenzene-d5			0.000806	.001000		80.6			08/19/2018
Surr: p-Terphenyl-d14			0.00118	.001000		118.2			08/19/2018



Quality Control Results

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

Client: ERM

Work Order: 18081123

Client Project: Ameren Taylorville 3rd Qtr 2018

Report Date: 21-Aug-18

SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

Batch 144955		SampType: MBLK		Units µg/L						
SampID: MBLK-N180816A-1										
Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed	
Benzene	0.5		ND						08/16/2018	
Bromoform	2.0		ND						08/16/2018	
Ethylbenzene	2.0		ND						08/16/2018	
m,p-Xylenes	2.0		ND						08/16/2018	
Methylene chloride	10.0		ND						08/16/2018	
Naphthalene	5.0		ND						08/16/2018	
o-Xylene	2.0		ND						08/16/2018	
Toluene	2.0		ND						08/16/2018	
trans-1,2-Dichloroethene	2.0		ND						08/16/2018	
Xylenes, Total	2.0		ND						08/16/2018	
Surr: 1,2-Dichloroethane-d4			45.8	50.00		91.6	79.6	118	08/16/2018	
Surr: 4-Bromofluorobenzene			47.8	50.00		95.5	83.9	115	08/16/2018	
Surr: Dibromofluoromethane			48.6	50.00		97.1	84.9	113	08/16/2018	
Surr: Toluene-d8			46.9	50.00		93.7	86.7	112	08/16/2018	

Batch 144955		SampType: LCSD		Units µg/L		RPD Limit 40				
SampID: LCSD-N180816A-1										
Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed	
Benzene	0.5		46.1	50.00	0	92.2	45.39	1.55	08/16/2018	
Bromoform	2.0		52.6	50.00	0	105.1	50.63	3.76	08/16/2018	
Ethylbenzene	2.0		47.5	50.00	0	95.0	47.63	0.32	08/16/2018	
m,p-Xylenes	2.0		92.6	100.0	0	92.6	92.49	0.11	08/16/2018	
Methylene chloride	10.0		48.1	50.00	0	96.2	46.50	3.36	08/16/2018	
Naphthalene	5.0		48.7	50.00	0	97.4	48.00	1.47	08/16/2018	
o-Xylene	2.0		47.2	50.00	0	94.4	45.98	2.58	08/16/2018	
Toluene	2.0		45.2	50.00	0	90.5	44.69	1.25	08/16/2018	
trans-1,2-Dichloroethene	2.0		48.4	50.00	0	96.8	46.36	4.31	08/16/2018	
Xylenes, Total	2.0		140	150.0	0	93.2	138.5	0.93	08/16/2018	
Surr: 1,2-Dichloroethane-d4			46.4	50.00		92.8			08/16/2018	
Surr: 4-Bromofluorobenzene			46.9	50.00		93.9			08/16/2018	
Surr: Dibromofluoromethane			49.9	50.00		99.8			08/16/2018	
Surr: Toluene-d8			48.7	50.00		97.4			08/16/2018	



Quality Control Results

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

Client: ERM

Work Order: 18081123

Client Project: Ameren Taylorville 3rd Qtr 2018

Report Date: 21-Aug-18

SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

Batch 144955 SampType: LCS Units µg/L
 SampID: LCS-N180816A-1

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Benzene	0.5		45.4	50.00	0	90.8	77.8	120	08/16/2018
Bromoform	2.0		50.6	50.00	0	101.3	74.6	126	08/16/2018
Ethylbenzene	2.0		47.6	50.00	0	95.3	81.8	117	08/16/2018
m,p-Xylenes	2.0		92.5	100.0	0	92.5	82.7	118	08/16/2018
Methylene chloride	10.0		46.5	50.00	0	93.0	71	114	08/16/2018
Naphthalene	5.0		48.0	50.00	0	96.0	74.1	125	08/16/2018
o-Xylene	2.0		46.0	50.00	0	92.0	80.1	118	08/16/2018
Toluene	2.0		44.7	50.00	0	89.4	82.2	113	08/16/2018
trans-1,2-Dichloroethene	2.0		46.4	50.00	0	92.7	77.5	121	08/16/2018
Xylenes, Total	2.0		138	150.0	0	92.3	82.7	118	08/16/2018
Surr: 1,2-Dichloroethane-d4			46.7	50.00		93.5	79.6	118	08/16/2018
Surr: 4-Bromofluorobenzene			48.0	50.00		96.0	83.9	115	08/16/2018
Surr: Dibromofluoromethane			49.8	50.00		99.5	84.9	113	08/16/2018
Surr: Toluene-d8			48.6	50.00		97.2	86.7	112	08/16/2018

Batch 144955 SampType: MS Units µg/L
 SampID: 18081123-008BMS

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Benzene	0.50		45.7	50.00	0	91.4	62.5	121	08/16/2018
Ethylbenzene	1.00		51.2	50.00	0	102.4	74.4	130	08/16/2018
m,p-Xylenes	1.00		46.7	50.00	0	93.4	70.5	126	08/16/2018
o-Xylene	1.00		48.0	50.00	0	96.1	71.2	124	08/16/2018
Toluene	2.00		44.9	50.00	0	89.8	69.5	118	08/16/2018
Xylenes, Total	1.00		94.7	100.0	0	94.7	71.1	125	08/16/2018
Surr: 1,2-Dichloroethane-d4			52.3	50.00		104.7	74.7	129	08/16/2018
Surr: 4-Bromofluorobenzene			49.3	50.00		98.5	86	119	08/16/2018
Surr: Dibromofluoromethane			50.2	50.00		100.4	81.7	123	08/16/2018
Surr: Toluene-d8			49.8	50.00		99.7	84.3	114	08/16/2018

Batch 144955 SampType: MSD Units µg/L RPD Limit 20
 SampID: 18081123-008BMSD

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Benzene	0.50		45.6	50.00	0	91.1	45.71	0.33	08/16/2018
Ethylbenzene	1.00		50.7	50.00	0	101.4	51.21	0.96	08/16/2018
m,p-Xylenes	1.00		48.5	50.00	0	96.9	46.70	3.72	08/16/2018
o-Xylene	1.00		50.5	50.00	0	100.9	48.04	4.93	08/16/2018
Toluene	2.00		45.4	50.00	0	90.9	44.89	1.24	08/16/2018
Xylenes, Total	1.00		98.9	100.0	0	98.9	94.74	4.34	08/16/2018
Surr: 1,2-Dichloroethane-d4			52.5	50.00		105.0			08/16/2018
Surr: 4-Bromofluorobenzene			49.3	50.00		98.6			08/16/2018
Surr: Dibromofluoromethane			51.2	50.00		102.4			08/16/2018
Surr: Toluene-d8			52.1	50.00		104.2			08/16/2018



Quality Control Results

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

Client: ERM

Work Order: 18081123

Client Project: Ameren Taylorville 3rd Qtr 2018

Report Date: 21-Aug-18

SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

Batch 144958		SampType: MBLK		Units µg/L					
SampID: MBLK-T180816A-1									
Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Benzene	0.5		ND						08/16/2018
Bromoform	2.0		ND						08/16/2018
Ethylbenzene	2.0		ND						08/16/2018
m,p-Xylenes	2.0		ND						08/16/2018
Methylene chloride	10.0		ND						08/16/2018
Naphthalene	5.0		ND						08/16/2018
o-Xylene	2.0		ND						08/16/2018
Toluene	2.0		ND						08/16/2018
trans-1,2-Dichloroethene	2.0		ND						08/16/2018
Xylenes, Total	2.0		ND						08/16/2018
Surr: 1,2-Dichloroethane-d4			47.7	50.00		95.5	79.6	118	08/16/2018
Surr: 4-Bromofluorobenzene			48.9	50.00		97.9	83.9	115	08/16/2018
Surr: Dibromofluoromethane			52.0	50.00		104.0	84.9	113	08/16/2018
Surr: Toluene-d8			47.1	50.00		94.2	86.7	112	08/16/2018

Batch 144958		SampType: LCSD		Units µg/L		RPD Limit 40			
SampID: LCSD-T180816A-1									
Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	Date Analyzed
Benzene	0.5		54.4	50.00	0	108.9	54.38	0.09	08/16/2018
Bromoform	2.0		59.2	50.00	0	118.3	58.67	0.83	08/16/2018
Ethylbenzene	2.0		50.8	50.00	0	101.5	51.34	1.12	08/16/2018
m,p-Xylenes	2.0		100	100.0	0	100.5	101.1	0.64	08/16/2018
Methylene chloride	10.0		52.6	50.00	0	105.3	54.39	3.29	08/16/2018
Naphthalene	5.0		54.1	50.00	0	108.2	53.75	0.69	08/16/2018
o-Xylene	2.0		49.6	50.00	0	99.3	50.16	1.04	08/16/2018
Toluene	2.0		49.0	50.00	0	97.9	49.99	2.06	08/16/2018
trans-1,2-Dichloroethene	2.0		56.3	50.00	0	112.5	56.23	0.07	08/16/2018
Xylenes, Total	2.0		150	150.0	0	100.1	151.3	0.78	08/16/2018
Surr: 1,2-Dichloroethane-d4			46.9	50.00		93.8			08/16/2018
Surr: 4-Bromofluorobenzene			47.7	50.00		95.5			08/16/2018
Surr: Dibromofluoromethane			52.2	50.00		104.5			08/16/2018
Surr: Toluene-d8			47.1	50.00		94.3			08/16/2018



Quality Control Results

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

Client: ERM

Work Order: 18081123

Client Project: Ameren Taylorville 3rd Qtr 2018

Report Date: 21-Aug-18

SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

Batch 144958 SampType: LCS Units µg/L

SampID: LCS-T180816A-1

Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Benzene	0.5		54.4	50.00	0	108.8	77.8	120	08/16/2018
Bromoform	2.0		58.7	50.00	0	117.3	74.6	126	08/16/2018
Ethylbenzene	2.0		51.3	50.00	0	102.7	81.8	117	08/16/2018
m,p-Xylenes	2.0		101	100.0	0	101.1	82.7	118	08/16/2018
Methylene chloride	10.0		54.4	50.00	0	108.8	71	114	08/16/2018
Naphthalene	5.0		53.8	50.00	0	107.5	74.1	125	08/16/2018
o-Xylene	2.0		50.2	50.00	0	100.3	80.1	118	08/16/2018
Toluene	2.0		50.0	50.00	0	100.0	82.2	113	08/16/2018
trans-1,2-Dichloroethene	2.0		56.2	50.00	0	112.5	77.5	121	08/16/2018
Xylenes, Total	2.0		151	150.0	0	100.9	82.7	118	08/16/2018
Surr: 1,2-Dichloroethane-d4			47.1	50.00		94.2	79.6	118	08/16/2018
Surr: 4-Bromofluorobenzene			47.2	50.00		94.3	83.9	115	08/16/2018
Surr: Dibromofluoromethane			52.1	50.00		104.2	84.9	113	08/16/2018
Surr: Toluene-d8			46.5	50.00		93.0	86.7	112	08/16/2018



Receiving Check List

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

Client: ERM

Work Order: 18081123

Client Project: Ameren Taylorville 3rd Qtr 2018

Report Date: 21-Aug-18

Carrier: Nick Reed

Received By: NH

Completed by:

On:

15-Aug-18

Nathan Harer

Reviewed by:

On:

16-Aug-18

Michael L. Austin

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 7.82 |
| 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 type="checkbox"/> | Lab <input type="checkbox"/> | NA <input checked="" type="checkbox"/> | |
| Container/Temp Blank temperature in compliance? | Yes <input type="checkbox"/> | No <input checked="" 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 checked="" type="checkbox"/> | No <input type="checkbox"/> | No VOA vials <input 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 type="checkbox"/> | NA <input checked="" 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.

Samples out of temperature compliance. Proceed with analysis per Brett Carney - bvetter/nharer 8/15/18 / 8/16/18

CHAIN OF CUSTODY

pg. 1 of 3 Work order # 1808123

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

Client: ERM
 Address: 68 Villa Grove
 City / State / Zip: Springfield, IL 62712
 Contact: Brett Carney
 E-Mail: brett.camey@erm.com
 Phone: (217) 529-0914
 Fax:

Samples on: ICE BLUE ICE NO ICE 18.2 °C
 Preserved in: LAB FIELD FOR LAB USE ONLY
 Lab Notes: HS BY 8/15/18
Courier

Client Comments

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

Project Name/Number: Ameren Taylorville 3rd Qtr 2018
 Sample Collector's Name:

Lab Use Only	Sample Identification	Date/Time Sampled	Billing Instructions		# and Type of Containers	
			Standard <input type="checkbox"/> 1-2 Day (100% Surcharge) Other <input type="checkbox"/> 3 Day (50% Surcharge)		UNP	HCI
1808123-001 ✓	GW-01	8/14/18 1100			1	2
002 ✓	GW-02	8/14/18 1025			1	2
003 ✓	GW-03	8/14/18 0945			1	2
004 ✓	GW-04R	8/14/18 1545			1	2
005 ✓	GW-05	8/13/18 1500			1	2
006 ✓	GW-07	8/13/18 1740			1	2
007 ✓	GW-14	8/13/18 1630			1	2
008 ✓	GW-15	8/14/18 1530			1	2
009 ✓	GW-16S	8/14/18 0855			1	2
010 ✓	GW-16D	8/14/18 0830			1	2

MATRIX		INDICATE ANALYSIS REQUESTED															
Groundwater	Aqueous	PAHs	VOCs														
X	X	X	X														
X	X	X	X														
X	X	X	X														
X	X	X	X														
X	X	X	X														
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: [Signature] Date/Time: 8/15/18 1440
 Received By: [Signature] Date/Time: 8/15/18 1635

Relinquished By: [Signature] Date/Time: 8/15/18 1440
 Received By: [Signature] Date/Time: 8/15/18 1635

CHAIN OF CUSTODY

pg. 2 of 3 Work order # 18081023

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

Client: ERM
Address: 68 Villa Grove
 Springfield, IL 62712
City / State / Zip
Contact: Brett Carney (217) 529-0914
 brett.carney@erm.com
E-Mail: Phone: Fax:

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

Client Comments

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

Project Name/Number	Sample Collector's Name	Billing Instructions	Date/Time Sampled		# and Type of Containers	
			UNP	HCI	UNP	HCI
Ameren Taylorville 3rd Qtr 2018	W. Halle		8/14/18	0920	1	2
			8/14/18	1230	1	2
			8/14/18	1200	1	2
			8/14/18	1335	1	2
			8/14/18	1320	1	2
			8/14/18	1415	1	2
			8/13/18	1400	1	2
			8/14/18	1700	1	2
			8/14/18	1650	1	2
			8/14/18	1700	1	2

MATRIX	INDICATE ANALYSIS REQUESTED										
	Aqueous	Groundwater	Trip Blank	PAHs	VOCs						
	X	X		X	X						
	X	X		X	X						
	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: [Signature] **Date/Time:** 8/15/18 1440

Received By: [Signature] **Date/Time:** 8/15/18 1440

Relinquished By: [Signature] **Date/Time:** 8/15/18 1635

Received By: [Signature] **Date/Time:** 8/15/18 1635

CHAIN OF CUSTODY pg. 3 of 3 Work order # 1808123
 TEKLAB, INC. 5445 Horseshoe Lake Road - Collinsville, IL 62234 - Phone: (618) 344-1004 - Fax: (618) 344-1005

ERM
 68 Villa Grove
 Springfield, IL 62712
 Contact: Brett Carney (217) 529-0914
 E-Mail: brett.carney@erm.com

Samples on: ICE BLUE ICE NO ICE _____ °C
 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? 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:
 MS/MSD taken @ GW-15

Project Name/Number
 Ameren Taylorville 3rd Qtr 2018

MATRIX

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

INDICATE ANALYSIS REQUESTED

Lab Use Only
 GW-01 DUP
 Trip Blank

Drinking Water

Sample Collector's Name
 Halley

Groundwater

Billing Instructions
 Date/Time Sampled
 8/15/18 1440

Special Waste

OTHER
 NaHSO4
 MeOH
 HCL
 H2SO4
 NaOH
 HNO3
 UNPRES

Sludge

Relinquished By
 Date/Time
 8/15/18 1440

Soil

Received By
 Date/Time
 8/15/18 1635

Aqueous

PAHs

VOCs