11228 Aurora Avenue
Des Moines, Iowa 50322-7905
United States
www.ghd.com

Our ref: 11156780-LTR-4

July 29, 2022

Mr. Sam Beaird
General Manager
Albia Municipal Waterworks
Albia City Hall
120 South A Street
Albia, Iowa 52531

Notification of Soil and Groundwater Impact – Former Manufactured Gas Plant, Albia, Iowa

Dear Mr. Beaird:

This letter has been prepared on behalf of Interstate Power and Light Company (IPL) to formally notify you of soil and groundwater contamination in the vicinity of the Albia former manufactured gas plant (FMGP) site. The Albia FMGP site is located at 510 N Main Street in Albia, Iowa. IPL has conducted an environmental assessment at the site under the oversight of the Iowa Department of Natural Resources (IDNR).

IPL has conducted a site investigation to identify the extent of contamination in the area (Figures 1 and 2). Residual FMGP-related soil and groundwater contamination remains in a very localized area at the site. The chemicals of concern in soil related to the FMGP site include volatile organic compounds, such as benzene, and polynuclear aromatic hydrocarbons, such as naphthalene. A summary of soil and groundwater sample results from the site are attached as Table 1 and Table 2, respectively. The IDNR's Statewide Standards are also provided in the tables for your reference. The site location and soil standard exceedances are illustrated in Figure 1 and the groundwater exceedances are illustrated in Figure 2.

IPL is submitting this notification for reference when performing utility work in the area. Groundwater contamination remains at concentrations above the allowable levels for drinking water. Localized soil contamination remains at concentrations of possible concern. Caution and further evaluation should be used before performing soil excavation or utility work in the impacted area.

If you have questions, or need additional information, please contact Jill Stevens of IPL at 608-458-0446 or me at 515-414-3935.

Sincerely,

Kevin G Armstrong.

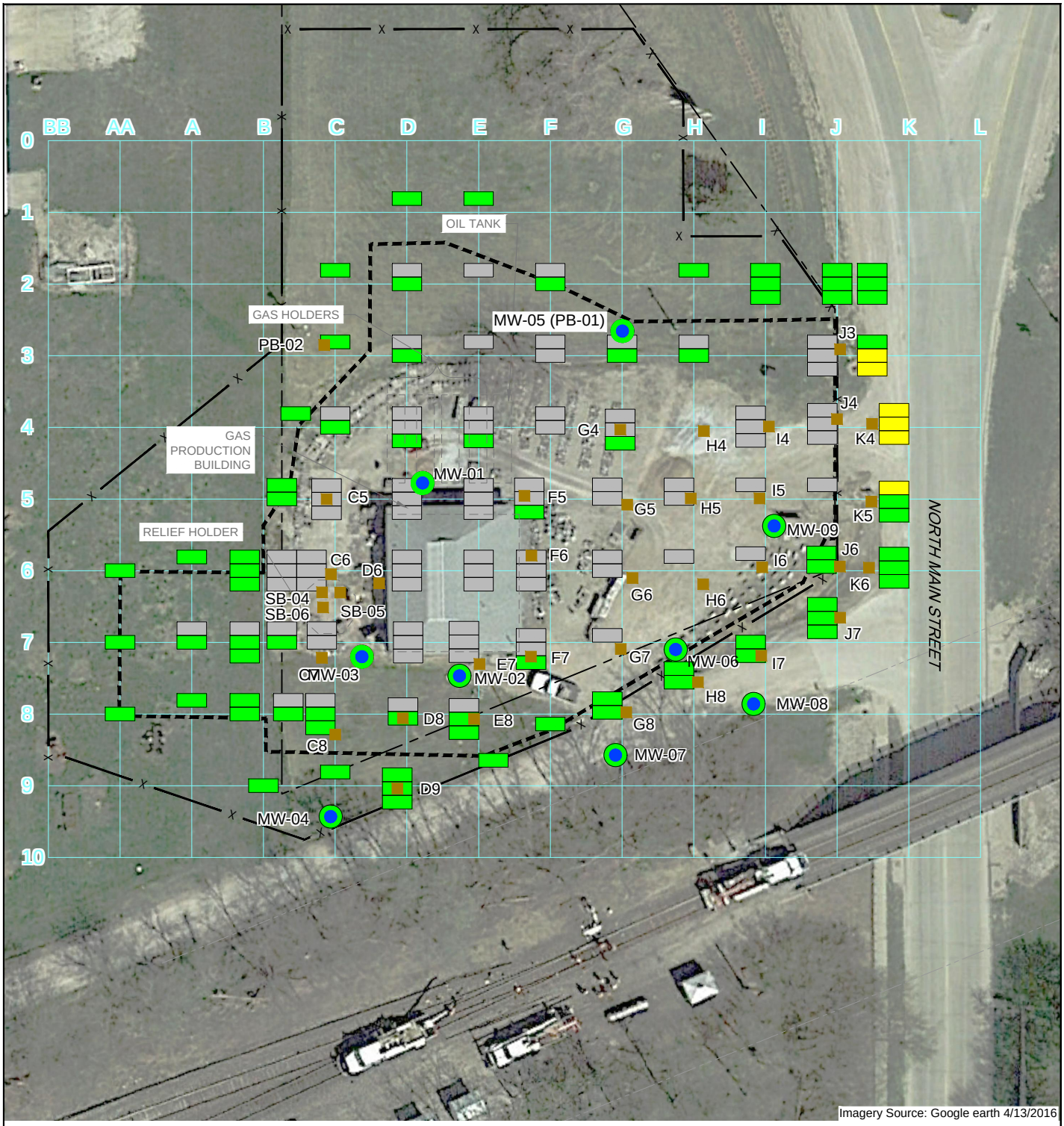
Kevin G. Armstrong, C.P.G.
Project Manager

+1 515 414-3935
kevin.armstrong@ghd.com

KA/lg/LTR-4

cc: Jill Stevens, IPL
Matt Culp, Iowa Department of Natural Resources (Contaminated Sites Section)

Figures



Imagery Source: Google earth 4/13/2016

LEGEND

- APPROXIMATE PROPERTY BOUNDARY
- APPROXIMATE RAILROAD R.O.W.
- APPROXIMATE LOCATION OF FORMER MGP STRUCTURES
- SOIL BORING COMPLETED AS SHALLOW MONITORING WELL
- SOIL BORING
- 1' DEPTH SAMPLE
- 3' DEPTH SAMPLE
- 5' DEPTH SAMPLE
- EXCAVATION EXTENT
- EXCAVATED/REMOVED
- MEETS SWS
- EXCEEDS SWS
- EXCEEDS SWS BY >10x

Source: FORMER MGP STRUCTURES FROM SANBORN MAP CO. IMAGERY (1922). & PROPERTY BOUNDARY ESTIMATED FROM MONROE COUNTY GIS.

0 25 50 ft
1" = 50 ft

Coordinate System:
IOWA SOUTH STATE PLANE
NAD83 FEET

N

GHD

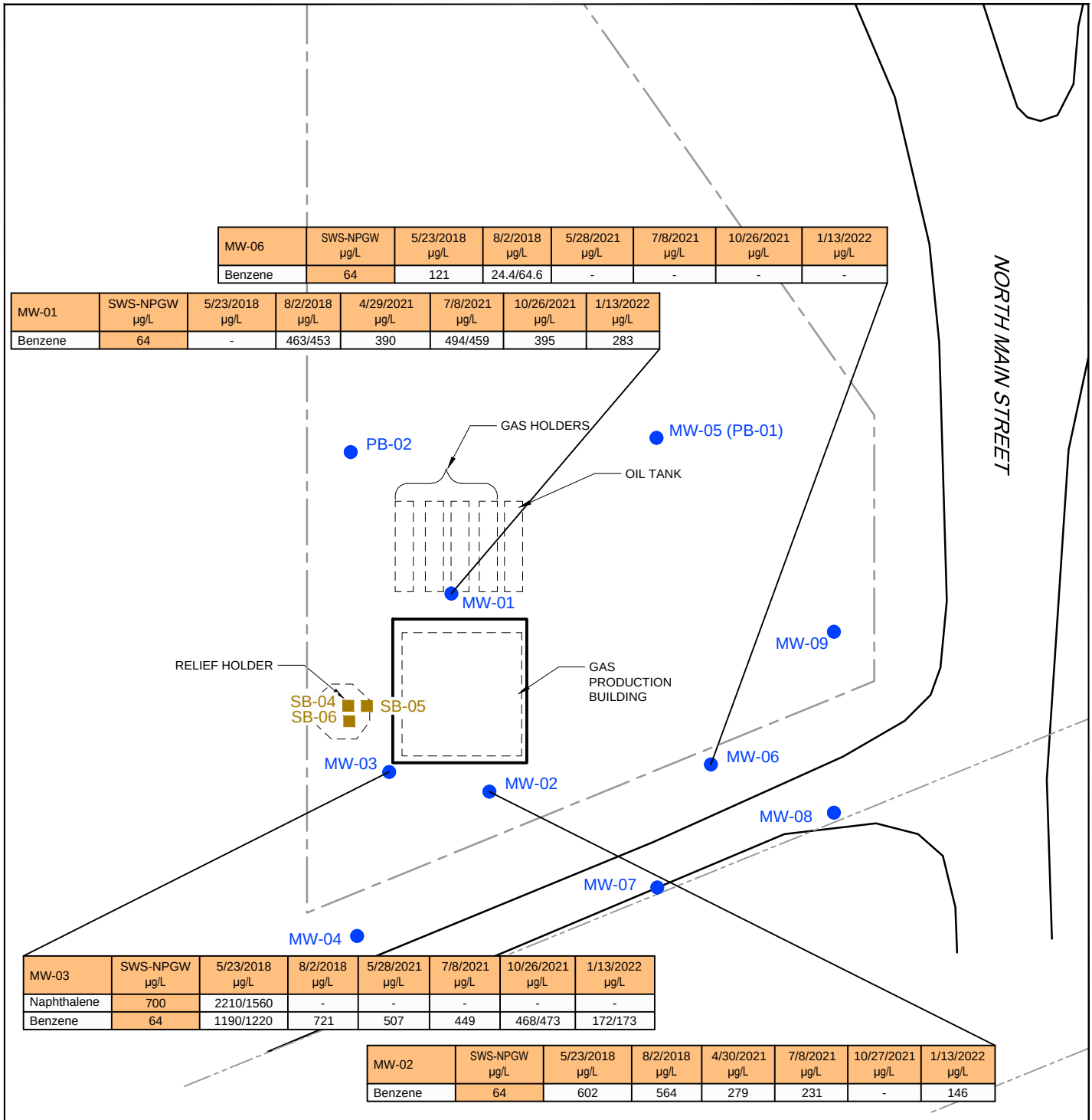
INTERSTATE POWER AND LIGHT COMPANY
ALBIA FORMER MANUFACTURED GAS PLANT SITE
ALBIA, IOWA

SOIL SAMPLING LOCATIONS USED FOR RISK EVALUATION

Project No. **11156780**
Date **July 2022**

FIGURE 1

Filename: N:\US\Des Moines\Projects\563\11156780\Digital_Design\ACAD\Figures\LTR004\11156780-GHD-00-00-LTR-EN-D101_DE-004.DWG
Plot Date: 27 July 2022 6:02 PM



MW-06	SWS-NPGW µg/L	5/23/2018 µg/L	8/2/2018 µg/L	5/28/2021 µg/L	7/8/2021 µg/L	10/26/2021 µg/L	1/13/2022 µg/L
Benzene	64	121	24.4/64.6	-	-	-	-

MW-01	SWS-NPGW µg/L	5/23/2018 µg/L	8/2/2018 µg/L	4/29/2021 µg/L	7/8/2021 µg/L	10/26/2021 µg/L	1/13/2022 µg/L
Benzene	64	-	463/453	390	494/459	395	283

MW-03	SWS-NPGW µg/L	5/23/2018 µg/L	8/2/2018 µg/L	5/28/2021 µg/L	7/8/2021 µg/L	10/26/2021 µg/L	1/13/2022 µg/L
Naphthalene	700	2210/1560	-	-	-	-	-
Benzene	64	1190/1220	721	507	449	468/473	172/173

MW-02	SWS-NPGW µg/L	5/23/2018 µg/L	8/2/2018 µg/L	4/30/2021 µg/L	7/8/2021 µg/L	10/27/2021 µg/L	1/13/2022 µg/L
Benzene	64	602	564	279	231	-	146

LEGEND

- APPROXIMATE PROPERTY BOUNDARY
- APPROXIMATE RAILROAD R.O.W.
- APPROXIMATE LOCATION OF FORMER MGP STRUCTURES
- SOIL BORING
- SOIL BORING COMPLETED AS SHALLOW MONITORING WELL

MW-01	SWS-NPGW µg/L	5/23/2018 µg/L	8/2/2018 µg/L
Benzene	64	-	463/453

SAMPLE LOCATION
SAMPLE DATE
RESULT UNIT
RESULT
PARAMETER

NOTES:
µg/L = MICROGRAMS PER LITER
SWS-NPGW = STATEWIDE STANDARD FOR NON-PROTECTED GROUNDWATER
- = NO EXCEEDANCE
24.4/64.6 = DUPLICATE SAMPLE

0 25 50 ft
1" = 50 ft

Coordinate System:
IOWA SOUTH STATE PLANE
NAD83 FEET

N

GHD

INTERSTATE POWER AND LIGHT COMPANY
ALBIA FORMER MANUFACTURED GAS PLANT SITE
ALBIA, IOWA

Project No. **11156780**
Date **July 2022**

GROUNDWATER EXCEEDANCE MAP

FIGURE 2

Filename: N:\US\Des Moines\Projects\563\11156780\Digital_Design\ACAD\Figures\LTR004\11156780-GHD-00-00-LTR-EN-D102_DE-004.DWG
Plot Date: 27 July 2022 5:38 PM

SOURCE: FORMER MGP STRUCTURES FROM SANBORN MAP CO. IMAGERY (1922). & PROPERTY BOUNDARY ESTIMATED FROM MONROE COUNTY GIS.

Tables

Table 1

Soil Analytical Results
Interstate Power and Light Company
Former Manufactured Gas Plant - Albia, Iowa

Analyte	Units	Iowa Statewide Standard	SB01-SL-0418-7.5-10' 4/23/2018	SB02-SL-0418-7.5-10' 4/23/2018	SB03-SL-0418-5-7.5' 4/23/2018	PB01-SL-0718-1.25' 7/11/2018	PB01-SL-0718-8.75' 7/11/2018	PB02-SL-0718-3.75' 7/11/2018	MW04-SL-0718-1.25' 7/11/2018	MW04-SL-0718-6.25' 7/11/2018	MW06-SL-0718-13.75' 7/12/2018	MW07-SL-0918-1.25' 9/19/2018	MW07-SL-0918-6.25' 9/19/2018	MW08-SL-0918-1.25' 9/19/2018
Inorganics														
Cyanide, Amenable	mg/kg	NA	<1.27	<1.33	<1.32	<1.22	<1.23	<1.29	<1.31	<1.28	<1.15	<1.25	<1.28	<1.27
Arsenic	mg/kg	17	<8.34	<6.19	<7.54	16.9	<7.36	<12.0	<7.79	<7.93	9.10	<7.26	<7.61	<7.59
Lead	mg/kg	400	16.6	11.9	15.5	15.3	<9.20	27.8	18.5	14.5	8.60	26.9	16.6	33.8
Polynuclear Aromatic Hydrocarbons														
2-Methylnaphthalene	mg/kg	230	<2.47 F1	<0.257	<0.254	<0.115	<0.0118	<0.0126	<0.0126	<0.0127	2.49	<0.121	<0.0127	<0.119
Acenaphthene	mg/kg	3400	<2.47 F1	<0.257	<0.254	<0.115	0.0503	<0.0126	<0.0126	<0.0127	0.722	<0.121	<0.0127	<0.119
Acenaphthylene	mg/kg	1700	<2.47 F1	<0.257	<0.254	0.342	<0.0118	<0.0126	<0.0126	<0.0127	3.86	<0.121	<0.0127	<0.119
Anthracene	mg/kg	17000	<2.47 F1 F2	<0.257	<0.254	0.192	0.0205	<0.0126	<0.0126	<0.0127	3.41	<0.121	<0.0127	<0.119
Benzo[a]anthracene	mg/kg	3.1	1.31 J F1 F2	<0.103	<0.102	0.481	0.0192	<0.0126	0.0159	<0.0127	2.28	<0.121	<0.0127	0.198
Benzo[a]pyrene	mg/kg	2.3	1.80 J F1	<0.126	<0.124	0.830	0.0191	<0.0126	0.0224	<0.0127	2.22	<0.121 F1	<0.0127	0.387
Benzo[b]fluoranthene	mg/kg	3.1	1.31 J F1	<0.0988	<0.0978	0.798	0.0180	<0.0126	0.0446	<0.0127	1.87	<0.121	<0.0127	0.291
Benzo[g,h,i]perylene	mg/kg	170	<2.47 F1	<0.257	<0.254	0.932	<0.0118	<0.0126	0.0289	<0.0127	1.32	<0.121	<0.0127	0.269
Benzo[k]fluoranthene	mg/kg	31	<2.47 F1	<0.257	<0.254	0.311	<0.0118	<0.0126	<0.0126	<0.0127	0.719	<0.121	<0.0127	0.124
Chrysene	mg/kg	310	<2.47 F1 F2	<0.257	<0.254	0.541	0.0211	<0.0126	0.0340	<0.0127	1.88	<0.121	<0.0127	0.196
Dibenz(a,h)anthracene	mg/kg	0.31	<0.900 F1	<0.0936	<0.0927	0.152	<0.0118	<0.0126	<0.0126	<0.0127	0.174	<0.121	<0.0127	<0.119
Fluoranthene	mg/kg	2300	4.38 F1 F2	<0.257	<0.254	0.598	0.0577	<0.0126	0.0373	<0.0127	8.77	<0.121	<0.0127	0.233
Fluorene	mg/kg	2300	<2.47	<0.257	<0.254	<0.115	0.0265	<0.0126	<0.0126	<0.0127	4.89	<0.121	<0.0127	<0.119
Indeno[1,2,3-cd]pyrene	mg/kg	3.1	1.49 J F1	<0.101	<0.100	0.834	<0.0118	<0.0126	0.0301	<0.0127	1.23	<0.121	<0.0127	0.270
Naphthalene	mg/kg	1100	13.6 F1	<0.257	0.379	<0.115	<0.0118	<0.0126	<0.0126 F2	<0.0127	28.5	<0.121	<0.0127	<0.119
Phenanthrene	mg/kg	1700	9.75 F1 F2	<0.257	<0.254	0.389	0.0719	<0.0126	0.0223	<0.0127	21.1	<0.121	<0.0127	0.135
Pyrene	mg/kg	1700	6.37 F1 F2	<0.257	<0.254	1.02	0.0917	<0.0126	0.0329	<0.0127	11.1	<0.121	<0.0127	0.376
Volatile Organic Compounds														
Benzene	mg/kg	56	<0.121 F1 F2	<0.0140	0.0194	<0.0118	<0.0144	<0.0145	<0.0143	<0.0134	<0.110	<0.00250	<0.00256	<0.00254
Ethylbenzene	mg/kg	7600	2.00 F1 F2	<0.0140	0.0203	<0.0118	<0.0144	<0.0145	<0.0143	<0.0134	<0.110	<0.00250	<0.00256	<0.00254
Toluene	mg/kg	6100	<0.121 F1 F2	<0.0140	<0.0137	<0.0118	<0.0144	<0.0145	<0.0143	<0.0134	0.212	<0.00250	<0.00256	<0.00254
Xylenes, Total	mg/kg	15000	1.07 F1 F2	<0.0420	<0.0411	<0.0354	<0.0431	<0.0434	<0.0428	<0.0403	1.20	<0.00500	<0.00512	<0.00507
1,1,1,2-Tetrachloroethane	mg/kg	230	<0.121 F2	<0.0140	<0.0137	<0.0118	<0.0144	<0.0145	<0.0143	<0.0134	<0.110	<0.00250	<0.00256	<0.00254
1,1,1-Trichloroethane	mg/kg	150000	<0.121 F1 F2	<0.0140	<0.0137	<0.0118	<0.0144	<0.0145	<0.0143	<0.0134	<0.110	<0.00250	<0.00256	<0.00254
1,1,2,2-Tetrachloroethane	mg/kg	15	<0.121	<0.0140	<0.0137	<0.0118	<0.0144	<0.0145	<0.0143	<0.0134	<0.110	<0.00250	<0.00256	<0.00254
1,1,2-Trichloroethane	mg/kg	54	<0.121 F2	<0.0140 *	<0.0137 *	<0.0118	<0.0144	<0.0145	<0.0143	<0.0134	<0.110	<0.00250	<0.00256	<0.00254
1,1-Dichloroethane	mg/kg	1500	<0.121	<0.0140	<0.0137	<0.0118	<0.0144	<0.0145	<0.0143	<0.0134	<0.110	<0.00250	<0.00256	<0.00254
1,1-Dichloroethene	mg/kg	380	<0.121	<0.0140	<0.0137	<0.0118	<0.0144	<0.0145	<0.0143	<0.0134	<0.110	<0.00250	<0.00256	<0.00254
1,1-Dichloropropene	mg/kg	NA	<0.121 F1 F2	<0.0140	<0.0137	<0.0118	<0.0144	<0.0145	<0.0143	<0.0134	<0.110	<0.00250	<0.00256	<0.00254
1,2,3-Trichlorobenzene	mg/kg	NA	<0.121	<0.0700	<0.0684	<0.0590	<0.0718	<0.0723	<0.0713 F2	<0.0671	<0.110	<0.00250	<0.00256	<0.00254
1,2,3-Trichloropropane	mg/kg	0.1	<0.121	<0.0140 *	<0.0137 *	<0.0118	<0.0144	<0.0145	<0.0143	<0.0134	<0.110	<0.00250	<0.00256	<0.00254
1,2,4-Trichlorobenzene	mg/kg	760	<0.121	<0.0700	<0.0684	<0.0590	<0.0718	<0.0723	<0.0713 F2	<0.0671	<0.110	<0.00250	<0.00256	<0.00254
1,2,4-Trimethylbenzene	mg/kg	760	0.809	<0.0140	0.0201	<0.0118	<0.0144	<0.0145	<0.0143	<0.0134	2.22 F1 F2	<0.00250	<0.00256	<0.00254
1,2-Dibromo-3-Chloropropane	mg/kg	2.6	<0.121	<0.140	<0.137	<0.118	<0.144	<0.145	<0.143	<0.134	<0.110	<0.00625	<0.00640	<0.00634
1,2-Dibromoethane (EDB)	mg/kg	1.5	<0.121 F2	<0.140 *	<0.137 *	<0.118	<0.144	<0.145	<0.143	<0.134	<0.110	<0.00250	<0.00256	<0.00254
1,2-Dichlorobenzene	mg/kg	5500	<0.121	<0.0140	<0.0137	<0.0118	<0.0144	<0.0145	<0.0143	<0.0134	<0.110	<0.00250	<0.00256	<0.00254
1,2-Dichloroethane	mg/kg	34	<0.121 F2	<0.0140	<0.0137	<0.0118	<0.0144	<0.0145	<0.0143	<0.0134	<0.110	<0.00625	<0.00640	<0.00634
1,2-Dichloropropane	mg/kg	53	<0.121	<0.0140	<0.0137	<0.0118	<0.0144	<0.0145	<0.0143	<0.0134	<0.110	<0.00250	<0.00256	<0.00254
1,3,5-Trimethylbenzene	mg/kg	760	0.274 F1 F2	<0.0140	<0.0137	<0.0118	<0.0144	<0.0145	<0.0143	<0.0134	0.677 F1	<0.00250	<0.00256	<0.00254

Table 1

Soil Analytical Results
Interstate Power and Light Company
Former Manufactured Gas Plant - Albia, Iowa

Analyte	Units	Iowa Statewide Standard	SB01-SL-0418-7.5-10' 4/23/2018	SB02-SL-0418-7.5-10' 4/23/2018	SB03-SL-0418-5-7.5' 4/23/2018	PB01-SL-0718-1.25' 7/11/2018	PB01-SL-0718-8.75' 7/11/2018	PB02-SL-0718-3.75' 7/11/2018	MW04-SL-0718-1.25' 7/11/2018	MW04-SL-0718-6.25' 7/11/2018	MW06-SL-0718-13.75' 7/12/2018	MW07-SL-0918-1.25' 9/19/2018	MW07-SL-0918-6.25' 9/19/2018	MW08-SL-0918-1.25' 9/19/2018
Volatile Organic Compounds (cont'd)														
1,3-Dichlorobenzene	mg/kg	6800	<0.121	<0.0140	<0.0137	<0.0118	<0.0144	<0.0145	<0.0143	<0.0134	<0.110	<0.00250	<0.00256	<0.00254
1,3-Dichloropropane	mg/kg	NA	<0.121 F2	<0.0140	<0.0137	<0.0118	<0.0144	<0.0145	<0.0143	<0.0134	<0.110	<0.00250	<0.00256	<0.00254
1,4-Dichlorobenzene	mg/kg	760	<0.121	<0.0140	<0.0137	<0.0118	<0.0144	<0.0145	<0.0143	<0.0134	<0.110	<0.00250	<0.00256	<0.00254
2,2-Dichloropropane	mg/kg	NA	<0.121 F2	<0.0560	<0.0548	<0.0472	<0.0574	<0.0578	<0.0571	<0.0537	<0.110	<0.0250	<0.0256	<0.0254
2-Butanone (MEK)	mg/kg	46000	<0.302 F2	<0.140	<0.137	<0.118	<0.144	<0.145	<0.143	<0.134	<0.275	<0.00625	<0.00640	<0.00634
2-Chlorotoluene	mg/kg	1500	<0.121 F2	<0.0140	<0.0137	<0.0118	<0.0144	<0.0145	<0.0143	<0.0134	<0.110	<0.00250	<0.00256	<0.00254
4-Chlorotoluene	mg/kg	1500	<0.121 F2	<0.0140	<0.0137	<0.0118	<0.0144	<0.0145	<0.0143	<0.0134	<0.110	<0.00250	<0.00256	<0.00254
Acetone	mg/kg	68000	<0.604 F1	<0.140	<0.137	<0.118	<0.144	<0.145	<0.143 F1	<0.134	<0.550	<0.0250	<0.0256	<0.0254
Bromobenzene	mg/kg	NA	<0.121	<0.0140	<0.0137	<0.0118	<0.0144	<0.0145	<0.0143	<0.0134	<0.110	<0.00250	<0.00256	<0.00254
Bromochloromethane	mg/kg	760	<0.121 F1 F2	<0.0140	<0.0137	<0.0118	<0.0144	<0.0145	<0.0143	<0.0134	<0.110	<0.00250	<0.00256	<0.00254
Bromodichloromethane	mg/kg	50	<0.121	<0.0140	<0.0137	<0.0118	<0.0144	<0.0145	<0.0143	<0.0134	<0.110	<0.00250	<0.00256	<0.00254
Bromoform	mg/kg	390	<0.121	<0.0280	<0.0274	<0.0236	<0.0287	<0.0289	<0.0285	<0.0268	<0.110	<0.00250	<0.00256	<0.00254
Bromomethane	mg/kg	110	<0.604	<0.0560	<0.0548	<0.0472	<0.0574	<0.0578	<0.0571	<0.0537	<0.550	<0.00625	<0.00640	<0.00634
Carbon disulfide	mg/kg	7600	<0.121	<0.0140	<0.0137	<0.0118	<0.0144	<0.0145	<0.0143	<0.0134	<0.110	<0.00625	<0.00640	<0.00634
Carbon tetrachloride	mg/kg	44	<0.121 F1 F2	<0.0140	<0.0137	<0.0118	<0.0144	<0.0145	<0.0143	<0.0134	<0.110	<0.00250	<0.00256	<0.00254
Chlorobenzene	mg/kg	1500	<0.121	<0.0140	<0.0137	<0.0118	<0.0144	<0.0145	<0.0143	<0.0134	<0.110	<0.00250	<0.00256	<0.00254
Chlorodibromomethane	mg/kg	150	<0.121 F2	<0.0140	<0.0137	<0.0118	<0.0144	<0.0145	<0.0143	<0.0134	<0.110	<0.00250	<0.00256	<0.00254
Chloroethane	mg/kg	30000	<0.121	<0.0560	<0.0548	<0.0472	<0.0574	<0.0578	<0.0571	<0.0537	<0.110	<0.00625 *	<0.00640 *	<0.00634 *
Chloroform	mg/kg	NA	<0.121 F1 F2	<0.0140	<0.0137	<0.0118	<0.0144	<0.0145	<0.0143	<0.0134	<0.110	<0.00250	<0.00256	<0.00254
Chloromethane	mg/kg	NA	<0.302	<0.0560	<0.0548	<0.0472	<0.0574	<0.0578	<0.0571	<0.0537	<0.275	<0.00625	<0.00640	<0.00634
cis-1,2-Dichloroethene	mg/kg	150	<0.121 F1 F2	<0.0140	<0.0137	<0.0118	<0.0144	<0.0145	<0.0143	<0.0134	<0.110	<0.00250	<0.00256	<0.00254
cis-1,3-Dichloropropene	mg/kg	NA	<0.121 F2	<0.0140	<0.0137	<0.0118	<0.0144	<0.0145	<0.0143	<0.0134	<0.110	<0.00250	<0.00256	<0.00254
Dibromomethane	mg/kg	760	<0.121	<0.0140	<0.0137	<0.0118	<0.0144	<0.0145	<0.0143	<0.0134	<0.110	<0.00250	<0.00256	<0.00254
Dichlorodifluoromethane	mg/kg	15000	<0.121	<0.0420	<0.0411	<0.0354	<0.0431	<0.0434	<0.0428	<0.0403	<0.110	<0.00625	<0.00640	<0.00634
Hexachlorobutadiene	mg/kg	40	<0.121	<0.0700	<0.0684	<0.0590	<0.0718	<0.0723	<0.0713	<0.0671	<0.110	<0.00625	<0.00640	<0.00634
Hexane	mg/kg	4600	<0.121	<0.0700	<0.0684	<0.0590	<0.0718	<0.0723	<0.0713	<0.0671	<0.110	<0.00250	<0.00256	<0.00254
Isopropylbenzene	mg/kg	7600	<0.121	<0.0140	<0.0137	<0.0118	<0.0144	<0.0145	<0.0143	<0.0134	<0.110	<0.00250	<0.00256	<0.00254
Methyl tert-butyl ether	mg/kg	2300	<0.121	<0.0140	<0.0137	<0.0118	<0.0144	<0.0145	<0.0143	<0.0134	<0.110	<0.00250	<0.00256	<0.00254
Methylene Chloride	mg/kg	1500	<0.302	<0.140	<0.137	<0.118	<0.144	<0.145	<0.143	<0.134	<0.275	<0.00625	<0.00640	<0.00634
n-Butylbenzene	mg/kg	3800	<0.121	<0.0140	<0.0137	<0.0118	<0.0144	<0.0145	<0.0143	<0.0134	0.201	<0.00250	<0.00256	<0.00254
N-Propylbenzene	mg/kg	7600	<0.121	<0.0140	<0.0137	<0.0118	<0.0144	<0.0145	<0.0143	<0.0134	0.173	<0.00250	<0.00256	<0.00254
p-Isopropyltoluene	mg/kg	NA	<0.121	<0.0140	<0.0137	<0.0118	<0.0144	<0.0145	<0.0143	<0.0134	<0.110	<0.00250	<0.00256	<0.00254
sec-Butylbenzene	mg/kg	NA	<0.121	<0.0140	<0.0137	<0.0118	<0.0144	<0.0145	<0.0143	<0.0134	<0.110	<0.00250	<0.00256	<0.00254
Styrene	mg/kg	15000	<0.121	<0.0140	<0.0137	<0.0118	<0.0144	<0.0145	<0.0143	<0.0134	<0.110	<0.00250	<0.00256	<0.00254
tert-Butylbenzene	mg/kg	NA	<0.121 F2	<0.0140	<0.0137	<0.0118	<0.0144	<0.0145	<0.0143	<0.0134	<0.110	<0.00250	<0.00256	<0.00254
Tetrachloroethene	mg/kg	1500	<0.121 F2	<0.0140	<0.0137	<0.0118	<0.0144	<0.0145	<0.0143	<0.0134	<0.110	<0.00250	<0.00256	<0.00254
trans-1,2-Dichloroethene	mg/kg	1500	<0.121	<0.0140	<0.0137	<0.0118	<0.0144	<0.0145	<0.0143	<0.0134	<0.110	<0.00250	<0.00256	<0.00254
trans-1,3-Dichloropropene	mg/kg	NA	<0.121 F1 F2	<0.0140	<0.0137	<0.0118	<0.0144	<0.0145	<0.0143	<0.0134	<0.110	<0.00250	<0.00256	<0.00254
Trichloroethene	mg/kg	67	<0.121	<0.0140	<0.0137	<0.0118	<0.0144	<0.0145	<0.0143	<0.0134	<0.110	<0.00250 *	<0.00256 *	<0.00254 *
Trichlorofluoromethane	mg/kg	23000	<0.121	<0.0560	<0.0548	<0.0472	<0.0574	<0.0578	<0.0571	<0.0537	<0.110	<0.00625	<0.00640	<0.00634
Vinyl chloride	mg/kg	2.1	<0.121	<0.0420	<0.0411	<0.0354	<0.0431	<0.0434	<0.0428	<0.0403	<0.110	<0.00250	<0.00256	<0.00254

Table 1

Soil Analytical Results
Interstate Power and Light Company
Former Manufactured Gas Plant - Albia, Iowa

Analyte	Units	Iowa Statewide Standard	SB01-SL-0418 -7.5-10' 4/23/2018	SB02-SL-0418- 7.5-10' 4/23/2018	SB03-SL-0418- 5-7.5' 4/23/2018	PB01-SL-0718- 1.25' 7/11/2018	PB01-SL-0718- 8.75' 7/11/2018	PB02-SL-0718- 3.75' 7/11/2018	MW04-SL-0718- 1.25' 7/11/2018	MW04-SL-0718- 6.25' 7/11/2018	MW06-SL-0718- 13.75' 7/12/2018	MW07-SL-0918- 1.25' 9/19/2018	MW07-SL-0918- 6.25' 9/19/2018	MW08-SL-0918- 1.25' 9/19/2018
Phenols														
2,4,5-Trichlorophenol	mg/kg	6100	<2.47 F1	<0.257	<0.254	-	-	-	-	-	-	-	-	-
2,4,6-Trichlorophenol	mg/kg	220	<2.47 F1	<0.257	<0.254	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenol	mg/kg	180	<2.47 F1	<0.257	<0.254	-	-	-	-	-	-	-	-	-
2,4-Dimethylphenol	mg/kg	1200	<2.47 F1	<0.257	<0.254	-	-	-	-	-	-	-	-	-
2,4-Dinitrophenol	mg/kg	120	<4.93 F1 *	<0.513 *	<0.508 *	-	-	-	-	-	-	-	-	-
2-Chlorophenol	mg/kg	310	<2.47 F1	<0.257	<0.254	-	-	-	-	-	-	-	-	-
2-Methylphenol	mg/kg	3100	<2.47 F1	<0.257	<0.254	-	-	-	-	-	-	-	-	-
2-Nitrophenol	mg/kg	NA	<2.47 F1	<0.257	<0.254	-	-	-	-	-	-	-	-	-
4,6-Dinitro-2-methylphenol	mg/kg	NA	<2.47 F1	<0.257	<0.254	-	-	-	-	-	-	-	-	-
4-Chloro-3-methylphenol	mg/kg	6100	<2.47 F1	<0.257	<0.254	-	-	-	-	-	-	-	-	-
4-Methylphenol (and/or 3-Methylphenol)	mg/kg	6100	<2.47 F1	<0.257	<0.254	-	-	-	-	-	-	-	-	-
4-Nitrophenol	mg/kg	490	<2.47 F1	<0.257	<0.254	-	-	-	-	-	-	-	-	-
Pentachlorophenol	mg/kg	4.5	<2.47 F1	<0.257	<0.254	-	-	-	-	-	-	-	-	-
Phenol	mg/kg	18000	<2.47 F1	<0.257	<0.254	-	-	-	-	-	-	-	-	-
Total Cresols	mg/kg	NA	<2.47 F1	<0.257	<0.254	-	-	-	-	-	-	-	-	-

Notes:
mg/kg = miligram per kilogram.
Cells with red outlines exceed the statewide standard.
Shaded columns indicate soil which has been excavated.

Table 1

Soil Analytical Results
Interstate Power and Light Company
Former Manufactured Gas Plant - Albia, Iowa

Analyte	Units	Iowa Statewide Standard	MW08-SL-0918-3.75' 9/19/2018	MW09-SL-0918-6.25' 9/19/2018	C5-SL-0819-5' 8/13/2019	C8-SL-0819-3' 8/13/2019	C8-SL-0819-5' 8/13/2019	D8-SL-0819-3' 8/13/2019	DP02-SL-0819 8/13/2019	D9-SL-0819-1' 8/13/2019	D9-SL-0819-3' 8/13/2019	D9-SL-0819-5' 8/13/2019	E8-SL-0819-3' 8/13/2019	E8-SL-0819-5' 8/13/2019
Inorganics														
Cyanide, Amenable	mg/kg	NA	<1.22	<1.26	-	-	-	-	-	-	-	-	-	-
Arsenic	mg/kg	17	<3.65	16.7	-	-	-	<4.20	7.42 J	-	-	-	-	-
Lead	mg/kg	400	8.33	22.8	-	-	-	19.0	33.2	-	-	-	-	-
Polynuclear Aromatic Hydrocarbons														
2-Methylnaphthalene	mg/kg	230	<0.117	<0.0595	<0.0622	<0.0634 F1 F2	0.0146 B	<0.127	<0.126	0.129 B	<0.127	0.331 B	<0.133	<0.0632
Acenaphthene	mg/kg	3400	<0.117	<0.0595	<0.0622	<0.0634	<0.0133	<0.127	<0.126	<0.121	<0.127	<0.0645	<0.133	<0.0632
Acenaphthylene	mg/kg	1700	<0.117	<0.0595	0.227	<0.0634	<0.0133	<0.127	<0.126	<0.121	<0.127	<0.0645	<0.133	<0.0632
Anthracene	mg/kg	17000	<0.117	<0.0595	0.351	<0.0634	<0.0133	<0.127	<0.126	<0.121	<0.127	<0.0645	<0.133	<0.0632
Benzo[a]anthracene	mg/kg	3.1	<0.117	<0.0595	0.179	<0.0634	<0.0133	<0.127	<0.126	<0.121	<0.127	<0.0645	<0.133	<0.0632
Benzo[a]pyrene	mg/kg	2.3	0.201	<0.0595	0.136	<0.0634	<0.0133	<0.127	<0.126	<0.121	<0.127	<0.0645	<0.133	<0.0632
Benzo[b]fluoranthene	mg/kg	3.1	0.182	<0.0595	0.120	<0.0634	<0.0133	<0.127	<0.126	<0.121	<0.127	<0.0645	<0.133	<0.0632
Benzo[g,h,i]perylene	mg/kg	170	0.138	<0.0595	0.0959	<0.0634	<0.0133	0.139	<0.126	<0.121	<0.127	<0.0645	<0.133	<0.0632
Benzo[k]fluoranthene	mg/kg	31	<0.117	<0.0595	<0.0622	<0.0634	<0.0133	<0.127	<0.126	<0.121	<0.127	<0.0645	<0.133	<0.0632
Chrysene	mg/kg	310	<0.117	<0.0595	0.153	<0.0634	<0.0133	<0.127	<0.126	<0.121	<0.127	<0.0645	<0.133	<0.0632
Dibenz(a,h)anthracene	mg/kg	0.31	<0.117	<0.0595	<0.0622	<0.0634	<0.0133	<0.127	<0.126	<0.121	<0.127	<0.0645	<0.133	<0.0632
Fluoranthene	mg/kg	2300	0.162	<0.0595	2.23	<0.0634	0.0142	<0.127	<0.126	<0.121	<0.127	<0.0645	<0.133	<0.0632
Fluorene	mg/kg	2300	<0.117	<0.0595	0.325	<0.0634	<0.0133	<0.127	<0.126	<0.121	<0.127	<0.0645	<0.133	<0.0632
Indeno[1,2,3-cd]pyrene	mg/kg	3.1	0.144	<0.0595	0.0880	<0.0634	<0.0133	0.128	<0.126	<0.121	<0.127	<0.0645	<0.133	<0.0632
Naphthalene	mg/kg	1100	<0.117	<0.0595	<0.0622	<0.0634 F1 F2	0.0166	<0.127	<0.126	<0.121	<0.127	<0.0645	<0.133	<0.0632
Phenanthrene	mg/kg	1700	<0.117	<0.0595	0.0837	<0.0634	0.0359	<0.127	<0.126	<0.121	<0.127	<0.0645	<0.133	<0.0632
Pyrene	mg/kg	1700	0.230	<0.0595	2.65	<0.0634	0.0193	<0.127	<0.126	<0.121	<0.127	<0.0645	<0.133	<0.0632
Volatile Organic Compounds														
Benzene	mg/kg	56	<0.00244	<0.00251	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	mg/kg	7600	<0.00244	<0.00251	-	-	-	-	-	-	-	-	-	-
Toluene	mg/kg	6100	<0.00244	<0.00251	-	-	-	-	-	-	-	-	-	-
Xylenes, Total	mg/kg	15000	<0.00489	<0.00502	-	-	-	-	-	-	-	-	-	-
1,1,1,2-Tetrachloroethane	mg/kg	230	<0.00244	<0.00251	-	-	-	-	-	-	-	-	-	-
1,1,1-Trichloroethane	mg/kg	150000	<0.00244	<0.00251	-	-	-	-	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	mg/kg	15	<0.00244	<0.00251	-	-	-	-	-	-	-	-	-	-
1,1,2-Trichloroethane	mg/kg	54	<0.00244	<0.00251	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethane	mg/kg	1500	<0.00244	<0.00251	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethene	mg/kg	380	<0.00244	<0.00251	-	-	-	-	-	-	-	-	-	-
1,1-Dichloropropene	mg/kg	NA	<0.00244	<0.00251	-	-	-	-	-	-	-	-	-	-
1,2,3-Trichlorobenzene	mg/kg	NA	<0.00244	<0.00251	-	-	-	-	-	-	-	-	-	-
1,2,3-Trichloropropane	mg/kg	0.1	<0.00244	<0.00251	-	-	-	-	-	-	-	-	-	-
1,2,4-Trichlorobenzene	mg/kg	760	<0.00244	<0.00251	-	-	-	-	-	-	-	-	-	-
1,2,4-Trimethylbenzene	mg/kg	760	<0.00244	<0.00251	-	-	-	-	-	-	-	-	-	-
1,2-Dibromo-3-Chloropropane	mg/kg	2.6	<0.00611	<0.00628	-	-	-	-	-	-	-	-	-	-
1,2-Dibromoethane (EDB)	mg/kg	1.5	<0.00244	<0.00251	-	-	-	-	-	-	-	-	-	-
1,2-Dichlorobenzene	mg/kg	5500	<0.00244	<0.00251	-	-	-	-	-	-	-	-	-	-
1,2-Dichloroethane	mg/kg	34	<0.00611	<0.00628	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	mg/kg	53	<0.00244	<0.00251	-	-	-	-	-	-	-	-	-	-
1,3,5-Trimethylbenzene	mg/kg	760	<0.00244	<0.00251	-	-	-	-	-	-	-	-	-	-

Table 1

Soil Analytical Results
Interstate Power and Light Company
Former Manufactured Gas Plant - Albia, Iowa

Analyte	Units	Iowa Statewide Standard	MW08-SL-0918-3.75' 9/19/2018	MW09-SL-0918-6.25' 9/19/2018	C5-SL-0819-5' 8/13/2019	C8-SL-0819-3' 8/13/2019	C8-SL-0819-5' 8/13/2019	D8-SL-0819-3' 8/13/2019	DP02-SL-0819 8/13/2019	D9-SL-0819-1' 8/13/2019	D9-SL-0819-3' 8/13/2019	D9-SL-0819-5' 8/13/2019	E8-SL-0819-3' 8/13/2019	E8-SL-0819-5' 8/13/2019
Volatile Organic Compounds (cont'd)														
1,3-Dichlorobenzene	mg/kg	6800	<0.00244	<0.00251	-	-	-	-	-	-	-	-	-	-
1,3-Dichloropropane	mg/kg	NA	<0.00244	<0.00251	-	-	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene	mg/kg	760	<0.00244	<0.00251	-	-	-	-	-	-	-	-	-	-
2,2-Dichloropropane	mg/kg	NA	<0.0244	<0.0251	-	-	-	-	-	-	-	-	-	-
2-Butanone (MEK)	mg/kg	46000	<0.00611	<0.00628	-	-	-	-	-	-	-	-	-	-
2-Chlorotoluene	mg/kg	1500	<0.00244	<0.00251	-	-	-	-	-	-	-	-	-	-
4-Chlorotoluene	mg/kg	1500	<0.00244	<0.00251	-	-	-	-	-	-	-	-	-	-
Acetone	mg/kg	68000	<0.0244	<0.0251	-	-	-	-	-	-	-	-	-	-
Bromobenzene	mg/kg	NA	<0.00244	<0.00251	-	-	-	-	-	-	-	-	-	-
Bromochloromethane	mg/kg	760	<0.00244	<0.00251	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	mg/kg	50	<0.00244	<0.00251	-	-	-	-	-	-	-	-	-	-
Bromoform	mg/kg	390	<0.00244	<0.00251	-	-	-	-	-	-	-	-	-	-
Bromomethane	mg/kg	110	<0.00611	<0.00628	-	-	-	-	-	-	-	-	-	-
Carbon disulfide	mg/kg	7600	<0.00611	<0.00628	-	-	-	-	-	-	-	-	-	-
Carbon tetrachloride	mg/kg	44	<0.00244	<0.00251	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	mg/kg	1500	<0.00244	<0.00251	-	-	-	-	-	-	-	-	-	-
Chlorodibromomethane	mg/kg	150	<0.00244	<0.00251	-	-	-	-	-	-	-	-	-	-
Chloroethane	mg/kg	30000	<0.00611 *	<0.00628 *	-	-	-	-	-	-	-	-	-	-
Chloroform	mg/kg	NA	<0.00244	<0.00251	-	-	-	-	-	-	-	-	-	-
Chloromethane	mg/kg	NA	<0.00611	<0.00628	-	-	-	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	mg/kg	150	<0.00244	<0.00251	-	-	-	-	-	-	-	-	-	-
cis-1,3-Dichloropropene	mg/kg	NA	<0.00244	<0.00251	-	-	-	-	-	-	-	-	-	-
Dibromomethane	mg/kg	760	<0.00244	<0.00251	-	-	-	-	-	-	-	-	-	-
Dichlorodifluoromethane	mg/kg	15000	<0.00611	<0.00628	-	-	-	-	-	-	-	-	-	-
Hexachlorobutadiene	mg/kg	40	<0.00611	<0.00628	-	-	-	-	-	-	-	-	-	-
Hexane	mg/kg	4600	<0.00244	<0.00251	-	-	-	-	-	-	-	-	-	-
Isopropylbenzene	mg/kg	7600	<0.00244	<0.00251	-	-	-	-	-	-	-	-	-	-
Methyl tert-butyl ether	mg/kg	2300	<0.00244	<0.00251	-	-	-	-	-	-	-	-	-	-
Methylene Chloride	mg/kg	1500	<0.00611	<0.00628	-	-	-	-	-	-	-	-	-	-
n-Butylbenzene	mg/kg	3800	<0.00244	<0.00251	-	-	-	-	-	-	-	-	-	-
N-Propylbenzene	mg/kg	7600	<0.00244	<0.00251	-	-	-	-	-	-	-	-	-	-
p-Isopropyltoluene	mg/kg	NA	<0.00244	<0.00251	-	-	-	-	-	-	-	-	-	-
sec-Butylbenzene	mg/kg	NA	<0.00244	<0.00251	-	-	-	-	-	-	-	-	-	-
Styrene	mg/kg	15000	<0.00244	<0.00251	-	-	-	-	-	-	-	-	-	-
tert-Butylbenzene	mg/kg	NA	<0.00244	<0.00251	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene	mg/kg	1500	<0.00244	<0.00251	-	-	-	-	-	-	-	-	-	-
trans-1,2-Dichloroethene	mg/kg	1500	<0.00244	<0.00251	-	-	-	-	-	-	-	-	-	-
trans-1,3-Dichloropropene	mg/kg	NA	<0.00244	<0.00251	-	-	-	-	-	-	-	-	-	-
Trichloroethene	mg/kg	67	<0.00244 *	<0.00251 *	-	-	-	-	-	-	-	-	-	-
Trichlorofluoromethane	mg/kg	23000	<0.00611	<0.00628	-	-	-	-	-	-	-	-	-	-
Vinyl chloride	mg/kg	2.1	<0.00244	<0.00251	-	-	-	-	-	-	-	-	-	-

Table 1

Soil Analytical Results
Interstate Power and Light Company
Former Manufactured Gas Plant - Albia, Iowa

Analyte	Units	Iowa Statewide Standard	MW08-SL-0918-3.75' 9/19/2018	MW09-SL-0918-6.25' 9/19/2018	C5-SL-0819-5' 8/13/2019	C8-SL-0819-3' 8/13/2019	C8-SL-0819-5' 8/13/2019	D8-SL-0819-3' 8/13/2019	DP02-SL-0819 8/13/2019	D9-SL-0819-1' 8/13/2019	D9-SL-0819-3' 8/13/2019	D9-SL-0819-5' 8/13/2019	E8-SL-0819-3' 8/13/2019	E8-SL-0819-5' 8/13/2019
Phenols														
2,4,5-Trichlorophenol	mg/kg	6100	-	-	-	-	-	-	-	-	-	-	-	-
2,4,6-Trichlorophenol	mg/kg	220	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenol	mg/kg	180	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dimethylphenol	mg/kg	1200	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dinitrophenol	mg/kg	120	-	-	-	-	-	-	-	-	-	-	-	-
2-Chlorophenol	mg/kg	310	-	-	-	-	-	-	-	-	-	-	-	-
2-Methylphenol	mg/kg	3100	-	-	-	-	-	-	-	-	-	-	-	-
2-Nitrophenol	mg/kg	NA	-	-	-	-	-	-	-	-	-	-	-	-
4,6-Dinitro-2-methylphenol	mg/kg	NA	-	-	-	-	-	-	-	-	-	-	-	-
4-Chloro-3-methylphenol	mg/kg	6100	-	-	-	-	-	-	-	-	-	-	-	-
4-Methylphenol (and/or 3-Methylphenol)	mg/kg	6100	-	-	-	-	-	-	-	-	-	-	-	-
4-Nitrophenol	mg/kg	490	-	-	-	-	-	-	-	-	-	-	-	-
Pentachlorophenol	mg/kg	4.5	-	-	-	-	-	-	-	-	-	-	-	-
Phenol	mg/kg	18000	-	-	-	-	-	-	-	-	-	-	-	-
Total Cresols	mg/kg	NA	-	-	-	-	-	-	-	-	-	-	-	-

Notes:
mg/kg = miligram per kilogram.
Cells with red outlines exceed the statewide standard.
Shaded columns indicate soil which has been excavated.

Table 1

Soil Analytical Results
Interstate Power and Light Company
Former Manufactured Gas Plant - Albia, Iowa

Analyte	Units	Iowa Statewide Standard	F5-SL-0819-5' 8/13/2019	F7-SL-0819-5' 8/13/2019	G4-SL-0819-5' 8/13/2019	G8-SL-0819-1' 8/13/2019	G8-SL-0819-3' 8/13/2019	H8-SL-0819-1' 8/13/2019	H8-SL-0819-3' 8/13/2019	I7-SL-0819-1' 8/13/2019	I7-SL-0819-3' 8/13/2019	J6-SL-0819-1' 8/13/2019	J6-SL-0819-3' 8/13/2019	DP04-SL-0819 8/13/2019
Inorganics														
Cyanide, Amenable	mg/kg	NA	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	mg/kg	17	-	-	-	10.0	<4.31	4.89 J	<3.78	6.15 J	8.37	9.23	<3.26	-
Lead	mg/kg	400	-	-	-	214	12.7	16.1	12.1	15.4	16.4	42.3	23.9	-
Polynuclear Aromatic Hydrocarbons														
2-Methylnaphthalene	mg/kg	230	<0.125	0.319 B	<0.120	<0.0989	<0.0263	<0.122	<0.131	<0.113	<0.0125	<0.114	<0.117	<0.116
Acenaphthene	mg/kg	3400	<0.125	0.135	<0.120	<0.0989	<0.0263	<0.122	<0.131	<0.113	<0.0125	<0.114	<0.117	<0.116
Acenaphthylene	mg/kg	1700	<0.125	<0.135	1.25	0.146	<0.0263	<0.122	<0.131	<0.113	<0.0125	<0.114	<0.117	<0.116
Anthracene	mg/kg	17000	<0.125	<0.135	0.277	0.159	<0.0263	0.169	<0.131	<0.113	<0.0125	<0.114	<0.117	<0.116
Benzo[a]anthracene	mg/kg	3.1	<0.125	<0.135	0.131	0.564	<0.0263	0.888	<0.131	<0.113	<0.0125	0.244	<0.117	0.120
Benzo[a]pyrene	mg/kg	2.3	0.149	<0.135	0.699	0.969	<0.0263	0.883	<0.131 F2	<0.113	<0.0125	0.353	<0.117	0.181
Benzo[b]fluoranthene	mg/kg	3.1	0.190	<0.135	0.584	0.975	<0.0263	1.32	<0.131 F2	<0.113	<0.0125	0.417	<0.117	0.231
Benzo[g,h,i]perylene	mg/kg	170	0.226	<0.135	1.27	0.918	<0.0263	0.646	<0.131 F2	<0.113	<0.0125	0.392	<0.117	0.220
Benzo[k]fluoranthene	mg/kg	31	<0.125	<0.135	0.190	0.370	<0.0263	0.409	<0.131 F2	<0.113	<0.0125	0.141	<0.117	<0.116
Chrysene	mg/kg	310	0.241	<0.135	0.510	0.760	<0.0263	1.15	<0.131 F2	<0.113	<0.0125	0.312	<0.117	0.167
Dibenz(a,h)anthracene	mg/kg	0.31	<0.125	<0.135	0.185	0.161	<0.0263	0.185	<0.131	<0.113	<0.0125	<0.114	<0.117	<0.116
Fluoranthene	mg/kg	2300	0.146	<0.135	0.172	0.652	<0.0263	1.16	<0.131 F2	<0.113	<0.0125	0.336	<0.117	0.157
Fluorene	mg/kg	2300	<0.125	<0.135	<0.120	<0.0989	<0.0263	<0.122	<0.131	<0.113	<0.0125	<0.114	<0.117	<0.116
Indeno[1,2,3-cd]pyrene	mg/kg	3.1	0.197	<0.135	1.25	0.832	<0.0263	0.705	<0.131 F2	<0.113	<0.0125	0.330	<0.117	0.192
Naphthalene	mg/kg	1100	<0.125	0.165	<0.120	<0.0989	<0.0263	<0.122	<0.131	<0.113	<0.0125	0.150	<0.117	<0.116
Phenanthrene	mg/kg	1700	0.237	0.160	<0.120	0.563	<0.0263	0.720	<0.131	<0.113	<0.0125	0.315	<0.117	<0.116
Pyrene	mg/kg	1700	0.375	0.158	0.893	0.910	<0.0263	1.09	<0.131 F2	<0.113	<0.0125	0.510	<0.117	0.250
Volatile Organic Compounds														
Benzene	mg/kg	56	-	-	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	mg/kg	7600	-	-	-	-	-	-	-	-	-	-	-	-
Toluene	mg/kg	6100	-	-	-	-	-	-	-	-	-	-	-	-
Xylenes, Total	mg/kg	15000	-	-	-	-	-	-	-	-	-	-	-	-
1,1,1,2-Tetrachloroethane	mg/kg	230	-	-	-	-	-	-	-	-	-	-	-	-
1,1,1-Trichloroethane	mg/kg	150000	-	-	-	-	-	-	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	mg/kg	15	-	-	-	-	-	-	-	-	-	-	-	-
1,1,2-Trichloroethane	mg/kg	54	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethane	mg/kg	1500	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethene	mg/kg	380	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloropropene	mg/kg	NA	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3-Trichlorobenzene	mg/kg	NA	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3-Trichloropropane	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-	-
1,2,4-Trichlorobenzene	mg/kg	760	-	-	-	-	-	-	-	-	-	-	-	-
1,2,4-Trimethylbenzene	mg/kg	760	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dibromo-3-Chloropropane	mg/kg	2.6	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dibromoethane (EDB)	mg/kg	1.5	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichlorobenzene	mg/kg	5500	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloroethane	mg/kg	34	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	mg/kg	53	-	-	-	-	-	-	-	-	-	-	-	-
1,3,5-Trimethylbenzene	mg/kg	760	-	-	-	-	-	-	-	-	-	-	-	-

Table 1

Soil Analytical Results
Interstate Power and Light Company
Former Manufactured Gas Plant - Albia, Iowa

Analyte	Units	Iowa Statewide Standard	F5-SL-0819-5' 8/13/2019	F7-SL-0819-5' 8/13/2019	G4-SL-0819-5' 8/13/2019	G8-SL-0819-1' 8/13/2019	G8-SL-0819-3' 8/13/2019	H8-SL-0819-1' 8/13/2019	H8-SL-0819-3' 8/13/2019	I7-SL-0819-1' 8/13/2019	I7-SL-0819-3' 8/13/2019	J6-SL-0819-1' 8/13/2019	J6-SL-0819-3' 8/13/2019	DP04-SL-0819 8/13/2019
Volatile Organic Compounds (cont'd)														
1,3-Dichlorobenzene	mg/kg	6800	-	-	-	-	-	-	-	-	-	-	-	-
1,3-Dichloropropane	mg/kg	NA	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene	mg/kg	760	-	-	-	-	-	-	-	-	-	-	-	-
2,2-Dichloropropane	mg/kg	NA	-	-	-	-	-	-	-	-	-	-	-	-
2-Butanone (MEK)	mg/kg	46000	-	-	-	-	-	-	-	-	-	-	-	-
2-Chlorotoluene	mg/kg	1500	-	-	-	-	-	-	-	-	-	-	-	-
4-Chlorotoluene	mg/kg	1500	-	-	-	-	-	-	-	-	-	-	-	-
Acetone	mg/kg	68000	-	-	-	-	-	-	-	-	-	-	-	-
Bromobenzene	mg/kg	NA	-	-	-	-	-	-	-	-	-	-	-	-
Bromochloromethane	mg/kg	760	-	-	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	mg/kg	50	-	-	-	-	-	-	-	-	-	-	-	-
Bromoform	mg/kg	390	-	-	-	-	-	-	-	-	-	-	-	-
Bromomethane	mg/kg	110	-	-	-	-	-	-	-	-	-	-	-	-
Carbon disulfide	mg/kg	7600	-	-	-	-	-	-	-	-	-	-	-	-
Carbon tetrachloride	mg/kg	44	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	mg/kg	1500	-	-	-	-	-	-	-	-	-	-	-	-
Chlorodibromomethane	mg/kg	150	-	-	-	-	-	-	-	-	-	-	-	-
Chloroethane	mg/kg	30000	-	-	-	-	-	-	-	-	-	-	-	-
Chloroform	mg/kg	NA	-	-	-	-	-	-	-	-	-	-	-	-
Chloromethane	mg/kg	NA	-	-	-	-	-	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	mg/kg	150	-	-	-	-	-	-	-	-	-	-	-	-
cis-1,3-Dichloropropene	mg/kg	NA	-	-	-	-	-	-	-	-	-	-	-	-
Dibromomethane	mg/kg	760	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorodifluoromethane	mg/kg	15000	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobutadiene	mg/kg	40	-	-	-	-	-	-	-	-	-	-	-	-
Hexane	mg/kg	4600	-	-	-	-	-	-	-	-	-	-	-	-
Isopropylbenzene	mg/kg	7600	-	-	-	-	-	-	-	-	-	-	-	-
Methyl tert-butyl ether	mg/kg	2300	-	-	-	-	-	-	-	-	-	-	-	-
Methylene Chloride	mg/kg	1500	-	-	-	-	-	-	-	-	-	-	-	-
n-Butylbenzene	mg/kg	3800	-	-	-	-	-	-	-	-	-	-	-	-
N-Propylbenzene	mg/kg	7600	-	-	-	-	-	-	-	-	-	-	-	-
p-Isopropyltoluene	mg/kg	NA	-	-	-	-	-	-	-	-	-	-	-	-
sec-Butylbenzene	mg/kg	NA	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	mg/kg	15000	-	-	-	-	-	-	-	-	-	-	-	-
tert-Butylbenzene	mg/kg	NA	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene	mg/kg	1500	-	-	-	-	-	-	-	-	-	-	-	-
trans-1,2-Dichloroethene	mg/kg	1500	-	-	-	-	-	-	-	-	-	-	-	-
trans-1,3-Dichloropropene	mg/kg	NA	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene	mg/kg	67	-	-	-	-	-	-	-	-	-	-	-	-
Trichlorofluoromethane	mg/kg	23000	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl chloride	mg/kg	2.1	-	-	-	-	-	-	-	-	-	-	-	-

Table 1

Soil Analytical Results
Interstate Power and Light Company
Former Manufactured Gas Plant - Albia, Iowa

Analyte	Units	Iowa Statewide Standard	F5-SL-0819-5' 8/13/2019	F7-SL-0819-5' 8/13/2019	G4-SL-0819-5' 8/13/2019	G8-SL-0819-1' 8/13/2019	G8-SL-0819-3' 8/13/2019	H8-SL-0819-1' 8/13/2019	H8-SL-0819-3' 8/13/2019	I7-SL-0819-1' 8/13/2019	I7-SL-0819-3' 8/13/2019	J6-SL-0819-1' 8/13/2019	J6-SL-0819-3' 8/13/2019	DP04-SL-0819 8/13/2019
Phenols														
2,4,5-Trichlorophenol	mg/kg	6100	-	-	-	-	-	-	-	-	-	-	-	-
2,4,6-Trichlorophenol	mg/kg	220	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenol	mg/kg	180	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dimethylphenol	mg/kg	1200	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dinitrophenol	mg/kg	120	-	-	-	-	-	-	-	-	-	-	-	-
2-Chlorophenol	mg/kg	310	-	-	-	-	-	-	-	-	-	-	-	-
2-Methylphenol	mg/kg	3100	-	-	-	-	-	-	-	-	-	-	-	-
2-Nitrophenol	mg/kg	NA	-	-	-	-	-	-	-	-	-	-	-	-
4,6-Dinitro-2-methylphenol	mg/kg	NA	-	-	-	-	-	-	-	-	-	-	-	-
4-Chloro-3-methylphenol	mg/kg	6100	-	-	-	-	-	-	-	-	-	-	-	-
4-Methylphenol (and/or 3-Methylphenol)	mg/kg	6100	-	-	-	-	-	-	-	-	-	-	-	-
4-Nitrophenol	mg/kg	490	-	-	-	-	-	-	-	-	-	-	-	-
Pentachlorophenol	mg/kg	4.5	-	-	-	-	-	-	-	-	-	-	-	-
Phenol	mg/kg	18000	-	-	-	-	-	-	-	-	-	-	-	-
Total Cresols	mg/kg	NA	-	-	-	-	-	-	-	-	-	-	-	-

Notes:
mg/kg = miligram per kilogram.
Cells with red outlines exceed the statewide standard.
Shaded columns indicate soil which has been excavated.

Table 1

Soil Analytical Results
Interstate Power and Light Company
Former Manufactured Gas Plant - Albia, Iowa

Analyte	Units	Iowa Statewide Standard	J7-SL-0819-1' 8/13/2019	J7-SL-0819-3' 8/13/2019	J7-SL-0819-5' 8/13/2019	K4-SL-0819-1' 8/13/2019	K4-SL-0819-3' 8/13/2019	K4-SL-0819-5' 8/13/2019	K5-SL-0819-1' 8/13/2019	K5-SL-0819-3' 8/13/2019	K5-SL-0819-5' 8/13/2019	K6-SL-0819-1' 8/13/2019	K6-SL-0819-3' 8/13/2019	K6-SL-0819-5' 8/13/2019	B6-SL-0720-1' 7/27/2020
Inorganics															
Cyanide, Amenable	mg/kg	NA	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	mg/kg	17	-	-	-	-	-	-	12.6	6.01 J	-	-	-	-	5.31
Lead	mg/kg	400	-	-	-	-	-	-	86.0	18.5	-	-	-	-	67.6
Polynuclear Aromatic Hydrocarbons															
2-Methylnaphthalene	mg/kg	230	0.441 B	<0.0114	<0.0113	0.138	0.452	<0.133	0.272	<0.123	<0.0117	<0.112	<0.0115	<0.0116	0.084
Acenaphthene	mg/kg	3400	<0.113	<0.0114	<0.0113	<0.108	0.591	12.5	0.425	<0.123	<0.0117	<0.112	<0.0115	<0.0116	<0.0638
Acenaphthylene	mg/kg	1700	<0.113	<0.0114	<0.0113	0.889	2.93	7.02	0.512	0.139	<0.0117	<0.112	<0.0115	<0.0116	1.06
Anthracene	mg/kg	17000	<0.113	<0.0114	<0.0113	0.483	1.73	7.35	0.897	<0.123	<0.0117	<0.112	<0.0115	<0.0116	0.241 F1
Benzo[a]anthracene	mg/kg	3.1	0.141	<0.0114	<0.0113	1.26	**4.41**	2.92	2.79	0.483	<0.0117	0.417	<0.0115	<0.0116	0.788
Benzo[a]pyrene	mg/kg	2.3	0.265	<0.0114	<0.0113	1.77	**6.34**	**2.52**	**3.47**	0.868	<0.0117	0.675	<0.0115	<0.0116	1.32
Benzo[b]fluoranthene	mg/kg	3.1	0.283	<0.0114	<0.0113	2.01	**5.68**	2.14	**4.10**	0.949	<0.0117	0.807	<0.0115	<0.0116	1.83
Benzo[g,h,i]perylene	mg/kg	170	0.321	<0.0114	<0.0113	2.18	6.13	1.41	3.39	1.08	<0.0117	0.713	<0.0115	<0.0116	1.51
Benzo[k]fluoranthene	mg/kg	31	<0.113	<0.0114	<0.0113	0.650	1.83	0.743	1.70	0.307	<0.0117	0.252	<0.0115	<0.0116	0.704
Chrysene	mg/kg	310	0.162	<0.0114	<0.0113	1.69	5.24	2.99	3.36	0.664	<0.0117	0.533	<0.0115	<0.0116	0.974
Dibenz(a,h)anthracene	mg/kg	0.31	<0.113	<0.0114	<0.0113	**0.360**	**1.05**	0.279	**0.693**	0.149	<0.0117	0.134	<0.0115	<0.0116	0.259 F1
Fluoranthene	mg/kg	2300	0.160	<0.0114	<0.0113	2.08	8.12	9.69	4.86	0.594	<0.0117	0.466	<0.0115	<0.0116	0.766
Fluorene	mg/kg	2300	<0.113	<0.0114	<0.0113	0.142	0.574	8.28	0.357	<0.123	<0.0117	<0.112	<0.0115	<0.0116	<0.0638
Indeno[1,2,3-cd]pyrene	mg/kg	3.1	0.265	<0.0114	<0.0113	1.77	**5.17**	1.34	3.08	0.875	<0.0117	0.608	<0.0115	<0.0116	1.16
Naphthalene	mg/kg	1100	0.190	<0.0114	<0.0113	0.236	0.983	0.213	0.524	<0.123	<0.0117	<0.112	<0.0115	<0.0116	0.124 F1
Phenanthrene	mg/kg	1700	<0.113	<0.0114	<0.0113	1.45	3.79	26.7	3.56	0.398	<0.0117	0.245	<0.0115	<0.0116	0.370 F1
Pyrene	mg/kg	1700	0.276	<0.0114	<0.0113	3.32	12.7	13.5	5.27	0.908	<0.0117	0.669	<0.0115	<0.0116	1.34
Volatile Organic Compounds															
Benzene	mg/kg	56	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	mg/kg	7600	-	-	-	-	-	-	-	-	-	-	-	-	-
Toluene	mg/kg	6100	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylenes, Total	mg/kg	15000	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1,1,2-Tetrachloroethane	mg/kg	230	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1,1-Trichloroethane	mg/kg	150000	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	mg/kg	15	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1,2-Trichloroethane	mg/kg	54	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethane	mg/kg	1500	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethene	mg/kg	380	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloropropene	mg/kg	NA	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3-Trichlorobenzene	mg/kg	NA	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3-Trichloropropane	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2,4-Trichlorobenzene	mg/kg	760	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2,4-Trimethylbenzene	mg/kg	760	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dibromo-3-Chloropropane	mg/kg	2.6	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dibromoethane (EDB)	mg/kg	1.5	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichlorobenzene	mg/kg	5500	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloroethane	mg/kg	34	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	mg/kg	53	-	-	-	-	-	-	-	-	-	-	-	-	-
1,3,5-Trimethylbenzene	mg/kg	760	-	-	-	-	-	-	-	-	-	-	-	-	-

Table 1

Soil Analytical Results
Interstate Power and Light Company
Former Manufactured Gas Plant - Albia, Iowa

Analyte	Units	Iowa Statewide Standard	J7-SL-0819-1' 8/13/2019	J7-SL-0819-3' 8/13/2019	J7-SL-0819-5' 8/13/2019	K4-SL-0819-1' 8/13/2019	K4-SL-0819-3' 8/13/2019	K4-SL-0819-5' 8/13/2019	K5-SL-0819-1' 8/13/2019	K5-SL-0819-3' 8/13/2019	K5-SL-0819-5' 8/13/2019	K6-SL-0819-1' 8/13/2019	K6-SL-0819-3' 8/13/2019	K6-SL-0819-5' 8/13/2019	B6-SL-0720-1' 7/27/2020
Volatile Organic Compounds (cont'd)															
1,3-Dichlorobenzene	mg/kg	6800	-	-	-	-	-	-	-	-	-	-	-	-	-
1,3-Dichloropropane	mg/kg	NA	-	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene	mg/kg	760	-	-	-	-	-	-	-	-	-	-	-	-	-
2,2-Dichloropropane	mg/kg	NA	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Butanone (MEK)	mg/kg	46000	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Chlorotoluene	mg/kg	1500	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Chlorotoluene	mg/kg	1500	-	-	-	-	-	-	-	-	-	-	-	-	-
Acetone	mg/kg	68000	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromobenzene	mg/kg	NA	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromochloromethane	mg/kg	760	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	mg/kg	50	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromoform	mg/kg	390	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromomethane	mg/kg	110	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon disulfide	mg/kg	7600	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon tetrachloride	mg/kg	44	-	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	mg/kg	1500	-	-	-	-	-	-	-	-	-	-	-	-	-
Chlorodibromomethane	mg/kg	150	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroethane	mg/kg	30000	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroform	mg/kg	NA	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloromethane	mg/kg	NA	-	-	-	-	-	-	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	mg/kg	150	-	-	-	-	-	-	-	-	-	-	-	-	-
cis-1,3-Dichloropropene	mg/kg	NA	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibromomethane	mg/kg	760	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorodifluoromethane	mg/kg	15000	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobutadiene	mg/kg	40	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexane	mg/kg	4600	-	-	-	-	-	-	-	-	-	-	-	-	-
Isopropylbenzene	mg/kg	7600	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl tert-butyl ether	mg/kg	2300	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylene Chloride	mg/kg	1500	-	-	-	-	-	-	-	-	-	-	-	-	-
n-Butylbenzene	mg/kg	3800	-	-	-	-	-	-	-	-	-	-	-	-	-
N-Propylbenzene	mg/kg	7600	-	-	-	-	-	-	-	-	-	-	-	-	-
p-Isopropyltoluene	mg/kg	NA	-	-	-	-	-	-	-	-	-	-	-	-	-
sec-Butylbenzene	mg/kg	NA	-	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	mg/kg	15000	-	-	-	-	-	-	-	-	-	-	-	-	-
tert-Butylbenzene	mg/kg	NA	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene	mg/kg	1500	-	-	-	-	-	-	-	-	-	-	-	-	-
trans-1,2-Dichloroethene	mg/kg	1500	-	-	-	-	-	-	-	-	-	-	-	-	-
trans-1,3-Dichloropropene	mg/kg	NA	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene	mg/kg	67	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichlorofluoromethane	mg/kg	23000	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl chloride	mg/kg	2.1	-	-	-	-	-	-	-	-	-	-	-	-	-

Table 1

Soil Analytical Results
Interstate Power and Light Company
Former Manufactured Gas Plant - Albia, Iowa

Analyte	Units	Iowa Statewide Standard	J7-SL-0819-1' 8/13/2019	J7-SL-0819-3' 8/13/2019	J7-SL-0819-5' 8/13/2019	K4-SL-0819-1' 8/13/2019	K4-SL-0819-3' 8/13/2019	K4-SL-0819-5' 8/13/2019	K5-SL-0819-1' 8/13/2019	K5-SL-0819-3' 8/13/2019	K5-SL-0819-5' 8/13/2019	K6-SL-0819-1' 8/13/2019	K6-SL-0819-3' 8/13/2019	K6-SL-0819-5' 8/13/2019	B6-SL-0720-1' 7/27/2020
Phenols									-						
2,4,5-Trichlorophenol	mg/kg	6100	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4,6-Trichlorophenol	mg/kg	220	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenol	mg/kg	180	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dimethylphenol	mg/kg	1200	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dinitrophenol	mg/kg	120	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Chlorophenol	mg/kg	310	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Methylphenol	mg/kg	3100	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Nitrophenol	mg/kg	NA	-	-	-	-	-	-	-	-	-	-	-	-	-
4,6-Dinitro-2-methylphenol	mg/kg	NA	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Chloro-3-methylphenol	mg/kg	6100	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Methylphenol (and/or 3-Methylphenol)	mg/kg	6100	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Nitrophenol	mg/kg	490	-	-	-	-	-	-	-	-	-	-	-	-	-
Pentachlorophenol	mg/kg	4.5	-	-	-	-	-	-	-	-	-	-	-	-	-
Phenol	mg/kg	18000	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Cresols	mg/kg	NA	-	-	-	-	-	-	-	-	-	-	-	-	-

Notes:
mg/kg = miligram per kilogram.
Cells with red outlines exceed the statewide standard.
Shaded columns indicate soil which has been excavated.

Notes:
Concentrations above the Iowa Statewide Standard are in bold red font.
* - LCS or LCSD is outside acceptance limits.
F1 - MS and/or MSD Recovery is outside acceptance limits.
F2 - MS/MSD RPD exceeds control limits.
"-" - Not analyzed.
NA - Not applicable.
H - Sample prepped or analyzed outside holding time.
J - Result is an approximate value.
X - Surrogate is outside control limits.

Table 1

Soil Analytical Results
Interstate Power and Light Company
Former Manufactured Gas Plant - Albia, Iowa

Analyte	Units	Iowa Statewide Standard	B6-SL-0720-3' 7/27/2020	B6-SL-0720-5' 7/27/2020	B7-SL-0720-3' 7/27/2020	B7-SL-0720-5' 7/27/2020	C9-SL-0720-1' 7/27/2020	E8.7-SL-0720-1' 7/27/2020	F8.3-SL-0720-1' 7/27/2020	BC5-SL-0720-1' 7/27/2020	BC5-SL-0720-3' 7/27/2020	C4-SL-0720-3' 7/27/2020	G3-SL-0720-3' 7/27/2020	H3-SL-0720-3' 7/27/2020
Inorganics														
Cyanide, Amenable	mg/kg	NA	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	mg/kg	17	1.79 J	<2.09	<2.65	<2.05	2.00 J	<1.12	<2.13	1.43 J	<1.88	3.55 J	<2.03	2.54 J
Lead	mg/kg	400	18.7	16.6	74	18.9	18.7	18.2	25.5	13.8	14	17.4	16.7	18.6
Polynuclear Aromatic Hydrocarbons														
2-Methylnaphthalene	mg/kg	230	<0.309	<0.0623	<0.0720	<0.0126	0.0678	<0.0137	<0.0656	0.127	0.0694	0.151	<0.0127	<0.0125
Acenaphthene	mg/kg	3400	<0.309	<0.0623	<0.0720	<0.0126	<0.0124	<0.0137	<0.0656	0.0226	0.0223	0.0631	<0.0127	<0.0125
Acenaphthylene	mg/kg	1700	0.672	0.2	0.276	<0.0126	0.181	<0.0137	<0.0656	0.256	0.527	0.673	<0.0127	0.0212
Anthracene	mg/kg	17000	<0.309	<0.0623	0.0784	<0.0126	0.0477	<0.0137	<0.0656	0.0759	0.0567	0.344	<0.0127	<0.0125
Benzo[a]anthracene	mg/kg	3.1	0.521	<0.0623	0.237	<0.0126	0.0573	<0.0137	<0.0656	0.0292	0.0791	0.48	<0.0127	0.024
Benzo[a]pyrene	mg/kg	2.3	0.896	0.0793	0.4	<0.0126	0.128	<0.0137	0.0969	0.0808	0.121	0.565	0.0159	0.0403
Benzo[b]fluoranthene	mg/kg	3.1	1.45	<0.0623	0.591	<0.0126	0.159	0.0212	0.108	0.181	0.303	0.526	0.0216	0.0602
Benzo[g,h,i]perylene	mg/kg	170	1.32	0.238	0.451	<0.0126	0.247	<0.0137	0.105	0.207	0.145	0.3	0.0205	0.0558
Benzo[k]fluoranthene	mg/kg	31	0.485	<0.0623	0.147	<0.0126	0.0441	<0.0137	<0.0656	0.0522	0.0991	0.219	<0.0127	0.0165
Chrysene	mg/kg	310	0.807	<0.0623	0.381	<0.0126	0.0808	<0.0137	<0.0656	0.0621	0.157	0.479	0.0143	0.036
Dibenz(a,h)anthracene	mg/kg	0.31	<0.309	<0.0623	<0.0720	<0.0126	0.0337	<0.0137	<0.0656	0.0298	0.0329	0.0406	<0.0127	<0.0125
Fluoranthene	mg/kg	2300	0.53	<0.0623	0.4	<0.0126	0.0645	<0.0137	<0.0656	0.0816	0.0713	1.83	<0.0127	0.0277
Fluorene	mg/kg	2300	<0.309	<0.0623	<0.0720	<0.0126	<0.0124	<0.0137	<0.0656	0.0541	0.0701	0.604	<0.0127	<0.0125
Indeno[1,2,3-cd]pyrene	mg/kg	3.1	0.953	0.163	0.37	<0.0126	0.196	<0.0137	0.0805	0.156	0.148	0.258	0.0163	0.0425
Naphthalene	mg/kg	1100	<0.309	<0.0623	<0.0720	<0.0126	0.169	<0.0137	0.231	0.185	0.158	0.202	<0.0127	<0.0125
Phenanthrene	mg/kg	1700	<0.309	<0.0623	0.182	<0.0126	0.0764	<0.0137	<0.0656	0.214	0.0801	3.61	<0.0127	0.0194
Pyrene	mg/kg	1700	1.01	<0.0623	0.594	<0.0126	0.0913	<0.0137	0.0959	0.122	0.168	2.34	0.0178	0.0474
Volatile Organic Compounds														
Benzene	mg/kg	56	-	-	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	mg/kg	7600	-	-	-	-	-	-	-	-	-	-	-	-
Toluene	mg/kg	6100	-	-	-	-	-	-	-	-	-	-	-	-
Xylenes, Total	mg/kg	15000	-	-	-	-	-	-	-	-	-	-	-	-
1,1,1,2-Tetrachloroethane	mg/kg	230	-	-	-	-	-	-	-	-	-	-	-	-
1,1,1-Trichloroethane	mg/kg	150000	-	-	-	-	-	-	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	mg/kg	15	-	-	-	-	-	-	-	-	-	-	-	-
1,1,2-Trichloroethane	mg/kg	54	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethane	mg/kg	1500	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethene	mg/kg	380	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloropropene	mg/kg	NA	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3-Trichlorobenzene	mg/kg	NA	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3-Trichloropropane	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-	-
1,2,4-Trichlorobenzene	mg/kg	760	-	-	-	-	-	-	-	-	-	-	-	-
1,2,4-Trimethylbenzene	mg/kg	760	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dibromo-3-Chloropropane	mg/kg	2.6	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dibromoethane (EDB)	mg/kg	1.5	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichlorobenzene	mg/kg	5500	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloroethane	mg/kg	34	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	mg/kg	53	-	-	-	-	-	-	-	-	-	-	-	-
1,3,5-Trimethylbenzene	mg/kg	760	-	-	-	-	-	-	-	-	-	-	-	-

Table 1

Soil Analytical Results
Interstate Power and Light Company
Former Manufactured Gas Plant - Albia, Iowa

Analyte	Units	Iowa Statewide Standard	B6-SL-0720-3' 7/27/2020	B6-SL-0720-5' 7/27/2020	B7-SL-0720-3' 7/27/2020	B7-SL-0720-5' 7/27/2020	C9-SL-0720-1' 7/27/2020	E8.7-SL-0720-1' 7/27/2020	F8.3-SL-0720-1' 7/27/2020	BC5-SL-0720-1' 7/27/2020	BC5-SL-0720-3' 7/27/2020	C4-SL-0720-3' 7/27/2020	G3-SL-0720-3' 7/27/2020	H3-SL-0720-3' 7/27/2020
Volatile Organic Compounds (cont'd)														
1,3-Dichlorobenzene	mg/kg	6800	-	-	-	-	-	-	-	-	-	-	-	-
1,3-Dichloropropane	mg/kg	NA	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene	mg/kg	760	-	-	-	-	-	-	-	-	-	-	-	-
2,2-Dichloropropane	mg/kg	NA	-	-	-	-	-	-	-	-	-	-	-	-
2-Butanone (MEK)	mg/kg	46000	-	-	-	-	-	-	-	-	-	-	-	-
2-Chlorotoluene	mg/kg	1500	-	-	-	-	-	-	-	-	-	-	-	-
4-Chlorotoluene	mg/kg	1500	-	-	-	-	-	-	-	-	-	-	-	-
Acetone	mg/kg	68000	-	-	-	-	-	-	-	-	-	-	-	-
Bromobenzene	mg/kg	NA	-	-	-	-	-	-	-	-	-	-	-	-
Bromochloromethane	mg/kg	760	-	-	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	mg/kg	50	-	-	-	-	-	-	-	-	-	-	-	-
Bromoform	mg/kg	390	-	-	-	-	-	-	-	-	-	-	-	-
Bromomethane	mg/kg	110	-	-	-	-	-	-	-	-	-	-	-	-
Carbon disulfide	mg/kg	7600	-	-	-	-	-	-	-	-	-	-	-	-
Carbon tetrachloride	mg/kg	44	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	mg/kg	1500	-	-	-	-	-	-	-	-	-	-	-	-
Chlorodibromomethane	mg/kg	150	-	-	-	-	-	-	-	-	-	-	-	-
Chloroethane	mg/kg	30000	-	-	-	-	-	-	-	-	-	-	-	-
Chloroform	mg/kg	NA	-	-	-	-	-	-	-	-	-	-	-	-
Chloromethane	mg/kg	NA	-	-	-	-	-	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	mg/kg	150	-	-	-	-	-	-	-	-	-	-	-	-
cis-1,3-Dichloropropene	mg/kg	NA	-	-	-	-	-	-	-	-	-	-	-	-
Dibromomethane	mg/kg	760	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorodifluoromethane	mg/kg	15000	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobutadiene	mg/kg	40	-	-	-	-	-	-	-	-	-	-	-	-
Hexane	mg/kg	4600	-	-	-	-	-	-	-	-	-	-	-	-
Isopropylbenzene	mg/kg	7600	-	-	-	-	-	-	-	-	-	-	-	-
Methyl tert-butyl ether	mg/kg	2300	-	-	-	-	-	-	-	-	-	-	-	-
Methylene Chloride	mg/kg	1500	-	-	-	-	-	-	-	-	-	-	-	-
n-Butylbenzene	mg/kg	3800	-	-	-	-	-	-	-	-	-	-	-	-
N-Propylbenzene	mg/kg	7600	-	-	-	-	-	-	-	-	-	-	-	-
p-Isopropyltoluene	mg/kg	NA	-	-	-	-	-	-	-	-	-	-	-	-
sec-Butylbenzene	mg/kg	NA	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	mg/kg	15000	-	-	-	-	-	-	-	-	-	-	-	-
tert-Butylbenzene	mg/kg	NA	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene	mg/kg	1500	-	-	-	-	-	-	-	-	-	-	-	-
trans-1,2-Dichloroethene	mg/kg	1500	-	-	-	-	-	-	-	-	-	-	-	-
trans-1,3-Dichloropropene	mg/kg	NA	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene	mg/kg	67	-	-	-	-	-	-	-	-	-	-	-	-
Trichlorofluoromethane	mg/kg	23000	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl chloride	mg/kg	2.1	-	-	-	-	-	-	-	-	-	-	-	-

Table 1

Soil Analytical Results
Interstate Power and Light Company
Former Manufactured Gas Plant - Albia, Iowa

Analyte	Units	Iowa Statewide Standard	B6-SL-0720-3' 7/27/2020	B6-SL-0720-5' 7/27/2020	B7-SL-0720-3' 7/27/2020	B7-SL-0720-5' 7/27/2020	C9-SL-0720-1' 7/27/2020	E8.7-SL-0720-1' 7/27/2020	F8.3-SL-0720-1' 7/27/2020	BC5-SL-0720-1' 7/27/2020	BC5-SL-0720-3' 7/27/2020	C4-SL-0720-3' 7/27/2020	G3-SL-0720-3' 7/27/2020	H3-SL-0720-3' 7/27/2020
Phenols														
2,4,5-Trichlorophenol	mg/kg	6100	-	-	-	-	-	-	-	-	-	-	-	-
2,4,6-Trichlorophenol	mg/kg	220	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenol	mg/kg	180	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dimethylphenol	mg/kg	1200	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dinitrophenol	mg/kg	120	-	-	-	-	-	-	-	-	-	-	-	-
2-Chlorophenol	mg/kg	310	-	-	-	-	-	-	-	-	-	-	-	-
2-Methylphenol	mg/kg	3100	-	-	-	-	-	-	-	-	-	-	-	-
2-Nitrophenol	mg/kg	NA	-	-	-	-	-	-	-	-	-	-	-	-
4,6-Dinitro-2-methylphenol	mg/kg	NA	-	-	-	-	-	-	-	-	-	-	-	-
4-Chloro-3-methylphenol	mg/kg	6100	-	-	-	-	-	-	-	-	-	-	-	-
4-Methylphenol (and/or 3-Methylphenol)	mg/kg	6100	-	-	-	-	-	-	-	-	-	-	-	-
4-Nitrophenol	mg/kg	490	-	-	-	-	-	-	-	-	-	-	-	-
Pentachlorophenol	mg/kg	4.5	-	-	-	-	-	-	-	-	-	-	-	-
Phenol	mg/kg	18000	-	-	-	-	-	-	-	-	-	-	-	-
Total Cresols	mg/kg	NA	-	-	-	-	-	-	-	-	-	-	-	-

Notes:
mg/kg = miligram per kilogram.
Cells with red outlines exceed the statewide standard.
Shaded columns indicate soil which has been excavated.

Table 1

Soil Analytical Results
Interstate Power and Light Company
Former Manufactured Gas Plant - Albia, Iowa

Analyte	Units	Iowa Statewide Standard	I2-SL-0720-1' 7/27/2020	I2-SL-0720-3' 7/27/2020	I2-SL-0720-5' 7/27/2020	J2-SL-0720-1' 7/27/2020	J2-SL-0720-3' 7/27/2020	J2-SL-0720-5' 7/27/2020	JK3-SL-0720-1' 7/27/2020	JK3-SL-0720-3' 7/27/2020	JK3-SL-0720-5' 7/27/2020	A7-SL-0720-3' 7/27/2020	A6-SL-0720-1' 7/27/2020	A8-SL-0720-1' 7/27/2020
Inorganics														
Cyanide, Amenable	mg/kg	NA	-	-	-	-	-	-	-	-	-	-		
Arsenic	mg/kg	17	5.77	<1.85	2.88 J	6.67 J	<2.01	2.53 J	<6.67	3.99 J	4.23 J	-		
Lead	mg/kg	400	53.1	18.1	19.3	124	24.4	22	26.3 J	93.5	113	-	-	-
Polynuclear Aromatic Hydrocarbons														
2-Methylnaphthalene	mg/kg	230	<0.0602	<0.0122	<0.0127	<0.0597	<0.0127	<0.0123	<0.0505	0.248	0.189	<0.0634	<0.0583	<0.0575
Acenaphthene	mg/kg	3400	<0.0602	<0.0122	<0.0127	<0.0597	<0.0127	<0.0123	<0.0505	<0.0582	0.0804	<0.0634	<0.0583	<0.0575
Acenaphthylene	mg/kg	1700	0.384	0.0292	<0.0127	0.0988	<0.0127	<0.0123	<0.0505	1.09	0.882	0.167	<0.0583 F1	<0.0575
Anthracene	mg/kg	17000	0.0967	<0.0122	<0.0127	0.101	<0.0127	<0.0123	<0.0505	0.487	0.604	0.0745	<0.0583	<0.0575
Benzo[a]anthracene	mg/kg	3.1	0.991	0.0391	0.0298	0.57	<0.0127	<0.0123	0.0925	2.27	1.8	0.276	0.0689 F1 F2	0.112
Benzo[a]pyrene	mg/kg	2.3	1.61	0.0687	0.0477	0.775	0.0127	<0.0123	0.18	**3.79**	**2.71**	0.44	0.0722 F1	0.166
Benzo[b]fluoranthene	mg/kg	3.1	1.9	0.0891	0.0609	0.933	0.0184	<0.0123	0.212	**3.8**	**3.25**	0.644	0.109 F1	0.264
Benzo[g,h,i]perylene	mg/kg	170	1.2	0.049	0.0387	0.516	<0.0127	<0.0123	0.149	2.37	1.58	0.463	0.0691 F1	0.151
Benzo[k]fluoranthene	mg/kg	31	0.632	0.0254	0.0168	0.265	<0.0127	<0.0123	0.0579	1.36	0.973	0.195	<0.0583 F1	0.0640
Chrysene	mg/kg	310	1.28	0.0522	0.0382	0.653	<0.0127	<0.0123	0.115	2.53	1.99	0.439	0.104 F1 F2	0.174
Dibenz(a,h)anthracene	mg/kg	0.31	0.188	<0.0122	<0.0127	0.101	<0.0127	<0.0123	<0.0505	**0.384**	**0.321**	0.0734	<0.0583	<0.0575
Fluoranthene	mg/kg	2300	1.45	0.0599	0.0429	0.553	0.0131	<0.0123	0.0982	3.17	2.39	0.442	0.160 F1	0.151
Fluorene	mg/kg	2300	<0.0602	<0.0122	<0.0127	<0.0597	<0.0127	<0.0123	<0.0505	0.164	0.14	<0.0634	<0.0583	<0.0575
Indeno[1,2,3-cd]pyrene	mg/kg	3.1	1.03	0.0415	0.0311	0.45	<0.0127	<0.0123	0.116	2.05	1.45	0.364	<0.0583 F1	0.123
Naphthalene	mg/kg	1100	0.07	<0.0122	<0.0127	0.101	<0.0127	<0.0123	<0.0505	0.438	0.279	<0.0634	<0.0583	<0.0575
Phenanthrene	mg/kg	1700	0.407	0.0179	<0.0127	0.404	0.0155	<0.0123	<0.0505	1.97	2.08	0.296	0.130	0.107
Pyrene	mg/kg	1700	2.43	0.112	0.0723	0.803	0.0159	<0.0123	0.162	5.53	3.61	0.617	0.246 F1 F2	0.187
Volatile Organic Compounds														
Benzene	mg/kg	56	-	-	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	mg/kg	7600	-	-	-	-	-	-	-	-	-	-	-	-
Toluene	mg/kg	6100	-	-	-	-	-	-	-	-	-	-	-	-
Xylenes, Total	mg/kg	15000	-	-	-	-	-	-	-	-	-	-	-	-
1,1,1,2-Tetrachloroethane	mg/kg	230	-	-	-	-	-	-	-	-	-	-	-	-
1,1,1-Trichloroethane	mg/kg	150000	-	-	-	-	-	-	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	mg/kg	15	-	-	-	-	-	-	-	-	-	-	-	-
1,1,2-Trichloroethane	mg/kg	54	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethane	mg/kg	1500	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethene	mg/kg	380	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloropropene	mg/kg	NA	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3-Trichlorobenzene	mg/kg	NA	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3-Trichloropropane	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-	-
1,2,4-Trichlorobenzene	mg/kg	760	-	-	-	-	-	-	-	-	-	-	-	-
1,2,4-Trimethylbenzene	mg/kg	760	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dibromo-3-Chloropropane	mg/kg	2.6	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dibromoethane (EDB)	mg/kg	1.5	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichlorobenzene	mg/kg	5500	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloroethane	mg/kg	34	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	mg/kg	53	-	-	-	-	-	-	-	-	-	-	-	-
1,3,5-Trimethylbenzene	mg/kg	760	-	-	-	-	-	-	-	-	-	-	-	-

Table 1

Soil Analytical Results
Interstate Power and Light Company
Former Manufactured Gas Plant - Albia, Iowa

Analyte	Units	Iowa Statewide Standard	I2-SL-0720-1' 7/27/2020	I2-SL-0720-3' 7/27/2020	I2-SL-0720-5' 7/27/2020	J2-SL-0720-1' 7/27/2020	J2-SL-0720-3' 7/27/2020	J2-SL-0720-5' 7/27/2020	JK3-SL-0720-1' 7/27/2020	JK3-SL-0720-3' 7/27/2020	JK3-SL-0720-5' 7/27/2020	A7-SL-0720-3' 7/27/2020	A6-SL-0720-1' 7/27/2020	A8-SL-0720-1' 7/27/2020
Volatile Organic Compounds (cont'd)														
1,3-Dichlorobenzene	mg/kg	6800	-	-	-	-	-	-	-	-	-	-	-	-
1,3-Dichloropropane	mg/kg	NA	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene	mg/kg	760	-	-	-	-	-	-	-	-	-	-	-	-
2,2-Dichloropropane	mg/kg	NA	-	-	-	-	-	-	-	-	-	-	-	-
2-Butanone (MEK)	mg/kg	46000	-	-	-	-	-	-	-	-	-	-	-	-
2-Chlorotoluene	mg/kg	1500	-	-	-	-	-	-	-	-	-	-	-	-
4-Chlorotoluene	mg/kg	1500	-	-	-	-	-	-	-	-	-	-	-	-
Acetone	mg/kg	68000	-	-	-	-	-	-	-	-	-	-	-	-
Bromobenzene	mg/kg	NA	-	-	-	-	-	-	-	-	-	-	-	-
Bromochloromethane	mg/kg	760	-	-	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	mg/kg	50	-	-	-	-	-	-	-	-	-	-	-	-
Bromoform	mg/kg	390	-	-	-	-	-	-	-	-	-	-	-	-
Bromomethane	mg/kg	110	-	-	-	-	-	-	-	-	-	-	-	-
Carbon disulfide	mg/kg	7600	-	-	-	-	-	-	-	-	-	-	-	-
Carbon tetrachloride	mg/kg	44	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	mg/kg	1500	-	-	-	-	-	-	-	-	-	-	-	-
Chlorodibromomethane	mg/kg	150	-	-	-	-	-	-	-	-	-	-	-	-
Chloroethane	mg/kg	30000	-	-	-	-	-	-	-	-	-	-	-	-
Chloroform	mg/kg	NA	-	-	-	-	-	-	-	-	-	-	-	-
Chloromethane	mg/kg	NA	-	-	-	-	-	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	mg/kg	150	-	-	-	-	-	-	-	-	-	-	-	-
cis-1,3-Dichloropropene	mg/kg	NA	-	-	-	-	-	-	-	-	-	-	-	-
Dibromomethane	mg/kg	760	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorodifluoromethane	mg/kg	15000	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobutadiene	mg/kg	40	-	-	-	-	-	-	-	-	-	-	-	-
Hexane	mg/kg	4600	-	-	-	-	-	-	-	-	-	-	-	-
Isopropylbenzene	mg/kg	7600	-	-	-	-	-	-	-	-	-	-	-	-
Methyl tert-butyl ether	mg/kg	2300	-	-	-	-	-	-	-	-	-	-	-	-
Methylene Chloride	mg/kg	1500	-	-	-	-	-	-	-	-	-	-	-	-
n-Butylbenzene	mg/kg	3800	-	-	-	-	-	-	-	-	-	-	-	-
N-Propylbenzene	mg/kg	7600	-	-	-	-	-	-	-	-	-	-	-	-
p-Isopropyltoluene	mg/kg	NA	-	-	-	-	-	-	-	-	-	-	-	-
sec-Butylbenzene	mg/kg	NA	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	mg/kg	15000	-	-	-	-	-	-	-	-	-	-	-	-
tert-Butylbenzene	mg/kg	NA	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene	mg/kg	1500	-	-	-	-	-	-	-	-	-	-	-	-
trans-1,2-Dichloroethene	mg/kg	1500	-	-	-	-	-	-	-	-	-	-	-	-
trans-1,3-Dichloropropene	mg/kg	NA	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene	mg/kg	67	-	-	-	-	-	-	-	-	-	-	-	-
Trichlorofluoromethane	mg/kg	23000	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl chloride	mg/kg	2.1	-	-	-	-	-	-	-	-	-	-	-	-

Table 1

Soil Analytical Results
Interstate Power and Light Company
Former Manufactured Gas Plant - Albia, Iowa

Analyte	Units	Iowa Statewide Standard	I2-SL-0720-1' 7/27/2020	I2-SL-0720-3' 7/27/2020	I2-SL-0720-5' 7/27/2020	J2-SL-0720-1' 7/27/2020	J2-SL-0720-3' 7/27/2020	J2-SL-0720-5' 7/27/2020	JK3-SL-0720-1' 7/27/2020	JK3-SL-0720-3' 7/27/2020	JK3-SL-0720-5' 7/27/2020	A7-SL-0720-3' 7/27/2020	A6-SL-0720-1' 7/27/2020	A8-SL-0720-1' 7/27/2020
Phenols														
2,4,5-Trichlorophenol	mg/kg	6100	-	-	-	-	-	-	-	-	-	-	-	-
2,4,6-Trichlorophenol	mg/kg	220	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenol	mg/kg	180	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dimethylphenol	mg/kg	1200	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dinitrophenol	mg/kg	120	-	-	-	-	-	-	-	-	-	-	-	-
2-Chlorophenol	mg/kg	310	-	-	-	-	-	-	-	-	-	-	-	-
2-Methylphenol	mg/kg	3100	-	-	-	-	-	-	-	-	-	-	-	-
2-Nitrophenol	mg/kg	NA	-	-	-	-	-	-	-	-	-	-	-	-
4,6-Dinitro-2-methylphenol	mg/kg	NA	-	-	-	-	-	-	-	-	-	-	-	-
4-Chloro-3-methylphenol	mg/kg	6100	-	-	-	-	-	-	-	-	-	-	-	-
4-Methylphenol (and/or 3-Methylphenol)	mg/kg	6100	-	-	-	-	-	-	-	-	-	-	-	-
4-Nitrophenol	mg/kg	490	-	-	-	-	-	-	-	-	-	-	-	-
Pentachlorophenol	mg/kg	4.5	-	-	-	-	-	-	-	-	-	-	-	-
Phenol	mg/kg	18000	-	-	-	-	-	-	-	-	-	-	-	-
Total Cresols	mg/kg	NA	-	-	-	-	-	-	-	-	-	-	-	-

Notes:
mg/kg = miligram per kilogram.
Cells with red outlines exceed the statewide standard.
Shaded columns indicate soil which has been excavated.

Table 1

Soil Analytical Results
Interstate Power and Light Company
Former Manufactured Gas Plant - Albia, Iowa

Analyte	Units	Iowa Statewide Standard	B8-SL-0720-1' 7/27/2020	B8-SL-0720-3' 7/27/2020	BC4-SL-0720-1' 7/27/2020	BC8-SL-0720-3' 7/27/2020	C3-SL-0720-1' 7/27/2020	D3-SL-0720-3' 7/27/2020	D4-SL-0720-5' 7/27/2020	E4-SL-0720-5' 7/27/2020	F2-SL-0720-1' 7/27/2020	F2-SL-0720-3' 7/27/2020	H2-SL-0720-1' 7/27/2020	JK2-SL-0720-1' 7/27/2020
Inorganics														
Cyanide, Amenable	mg/kg	NA	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	mg/kg	17	-	-	-	-	-	-	-	-	-	-	-	-
Lead	mg/kg	400	-	-	-	-	-	-	-	-	-	-	-	-
Polynuclear Aromatic Hydrocarbons														
2-Methylnaphthalene	mg/kg	230	<0.0659	<0.0688	0.133	<0.0131	<0.0602	<0.0126	<0.0127	<0.0126	<0.0596	<0.0124	<0.0592	<0.0613
Acenaphthene	mg/kg	3400	<0.0659	<0.0688	<0.0625	<0.0131	<0.0602	<0.0126	<0.0127	<0.0126	<0.0596	<0.0124	<0.0592	<0.0613
Acenaphthylene	mg/kg	1700	0.482	0.311	0.492 F1	<0.0131	0.2	<0.0126	<0.0127	0.0682	0.133	<0.0124	0.106	<0.0613
Anthracene	mg/kg	17000	0.081	<0.0688	0.141	<0.0131	<0.0602	<0.0126	<0.0127	<0.0126	0.0674	<0.0124	0.0617	<0.0613
Benzo[a]anthracene	mg/kg	3.1	0.203	0.143	0.640 F1	<0.0131	0.323	<0.0126	<0.0127	<0.0126	0.464	<0.0124	0.453	0.0924
Benzo[a]pyrene	mg/kg	2.3	0.883	0.542	0.909	0.0326	0.455	<0.0126	<0.0127	0.0473	0.868	<0.0124	0.709	0.108
Benzo[b]fluoranthene	mg/kg	3.1	0.812	0.533	1.27	0.0339	0.67	<0.0126	0.0143	0.041	1.11	<0.0124	0.9	0.136
Benzo[g,h,i]perylene	mg/kg	170	0.888	0.567	1.06	0.027	0.468	<0.0126	<0.0127	0.0996	0.862	<0.0124	0.67	0.0781
Benzo[k]fluoranthene	mg/kg	31	0.207	0.136	0.411 F1	<0.0131	0.22	<0.0126	<0.0127	<0.0126	0.363	<0.0124	0.236	<0.0613
Chrysene	mg/kg	310	0.319	0.248	0.861	0.0133	0.446	<0.0126	<0.0127	<0.0126	0.691	<0.0124	0.605	0.107
Dibenz(a,h)anthracene	mg/kg	0.31	0.117	0.0701	0.168 F1	<0.0131	0.0671	<0.0126	<0.0127	0.0358	0.128	<0.0124	0.101	<0.0613
Fluoranthene	mg/kg	2300	0.223	0.169	0.902	<0.0131	0.466	<0.0126	0.0208	<0.0126	0.665	<0.0124	0.624	0.107
Fluorene	mg/kg	2300	<0.0659	<0.0688	<0.0625	<0.0131	<0.0602	<0.0126	<0.0127	<0.0126	<0.0596	<0.0124	<0.0592	<0.0613
Indeno[1,2,3-cd]pyrene	mg/kg	3.1	0.67	0.424	0.78	0.021	0.338	<0.0126	<0.0127	0.0761	0.68	<0.0124	0.531	<0.0613
Naphthalene	mg/kg	1100	<0.0659	<0.0688	0.360 F1	<0.0131	<0.0602	<0.0126	<0.0127	<0.0126	<0.0596	<0.0124	<0.0592	<0.0613
Phenanthrene	mg/kg	1700	0.0842	<0.0688	0.500 F1	<0.0131	0.126	<0.0126	0.0284	<0.0126	0.372	<0.0124	0.35	0.0661
Pyrene	mg/kg	1700	0.414	0.316	1.45	0.0251	0.803	<0.0126	0.0301	0.0131	0.936	<0.0124	0.937	0.143
Volatile Organic Compounds														
Benzene	mg/kg	56	-	-	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	mg/kg	7600	-	-	-	-	-	-	-	-	-	-	-	-
Toluene	mg/kg	6100	-	-	-	-	-	-	-	-	-	-	-	-
Xylenes, Total	mg/kg	15000	-	-	-	-	-	-	-	-	-	-	-	-
1,1,1,2-Tetrachloroethane	mg/kg	230	-	-	-	-	-	-	-	-	-	-	-	-
1,1,1-Trichloroethane	mg/kg	150000	-	-	-	-	-	-	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	mg/kg	15	-	-	-	-	-	-	-	-	-	-	-	-
1,1,2-Trichloroethane	mg/kg	54	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethane	mg/kg	1500	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethene	mg/kg	380	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloropropene	mg/kg	NA	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3-Trichlorobenzene	mg/kg	NA	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3-Trichloropropane	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-	-
1,2,4-Trichlorobenzene	mg/kg	760	-	-	-	-	-	-	-	-	-	-	-	-
1,2,4-Trimethylbenzene	mg/kg	760	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dibromo-3-Chloropropane	mg/kg	2.6	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dibromoethane (EDB)	mg/kg	1.5	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichlorobenzene	mg/kg	5500	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloroethane	mg/kg	34	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	mg/kg	53	-	-	-	-	-	-	-	-	-	-	-	-
1,3,5-Trimethylbenzene	mg/kg	760	-	-	-	-	-	-	-	-	-	-	-	-

Table 1

Soil Analytical Results
Interstate Power and Light Company
Former Manufactured Gas Plant - Albia, Iowa

Analyte	Units	Iowa Statewide Standard	B8-SL-0720-1' 7/27/2020	B8-SL-0720-3' 7/27/2020	BC4-SL-0720-1' 7/27/2020	BC8-SL-0720-3' 7/27/2020	C3-SL-0720-1' 7/27/2020	D3-SL-0720-3' 7/27/2020	D4-SL-0720-5' 7/27/2020	E4-SL-0720-5' 7/27/2020	F2-SL-0720-1' 7/27/2020	F2-SL-0720-3' 7/27/2020	H2-SL-0720-1' 7/27/2020	JK2-SL-0720-1' 7/27/2020
Volatile Organic Compounds (cont'd)														
1,3-Dichlorobenzene	mg/kg	6800	-	-	-	-	-	-	-	-	-	-	-	-
1,3-Dichloropropane	mg/kg	NA	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene	mg/kg	760	-	-	-	-	-	-	-	-	-	-	-	-
2,2-Dichloropropane	mg/kg	NA	-	-	-	-	-	-	-	-	-	-	-	-
2-Butanone (MEK)	mg/kg	46000	-	-	-	-	-	-	-	-	-	-	-	-
2-Chlorotoluene	mg/kg	1500	-	-	-	-	-	-	-	-	-	-	-	-
4-Chlorotoluene	mg/kg	1500	-	-	-	-	-	-	-	-	-	-	-	-
Acetone	mg/kg	68000	-	-	-	-	-	-	-	-	-	-	-	-
Bromobenzene	mg/kg	NA	-	-	-	-	-	-	-	-	-	-	-	-
Bromochloromethane	mg/kg	760	-	-	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	mg/kg	50	-	-	-	-	-	-	-	-	-	-	-	-
Bromoform	mg/kg	390	-	-	-	-	-	-	-	-	-	-	-	-
Bromomethane	mg/kg	110	-	-	-	-	-	-	-	-	-	-	-	-
Carbon disulfide	mg/kg	7600	-	-	-	-	-	-	-	-	-	-	-	-
Carbon tetrachloride	mg/kg	44	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	mg/kg	1500	-	-	-	-	-	-	-	-	-	-	-	-
Chlorodibromomethane	mg/kg	150	-	-	-	-	-	-	-	-	-	-	-	-
Chloroethane	mg/kg	30000	-	-	-	-	-	-	-	-	-	-	-	-
Chloroform	mg/kg	NA	-	-	-	-	-	-	-	-	-	-	-	-
Chloromethane	mg/kg	NA	-	-	-	-	-	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	mg/kg	150	-	-	-	-	-	-	-	-	-	-	-	-
cis-1,3-Dichloropropene	mg/kg	NA	-	-	-	-	-	-	-	-	-	-	-	-
Dibromomethane	mg/kg	760	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorodifluoromethane	mg/kg	15000	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobutadiene	mg/kg	40	-	-	-	-	-	-	-	-	-	-	-	-
Hexane	mg/kg	4600	-	-	-	-	-	-	-	-	-	-	-	-
Isopropylbenzene	mg/kg	7600	-	-	-	-	-	-	-	-	-	-	-	-
Methyl tert-butyl ether	mg/kg	2300	-	-	-	-	-	-	-	-	-	-	-	-
Methylene Chloride	mg/kg	1500	-	-	-	-	-	-	-	-	-	-	-	-
n-Butylbenzene	mg/kg	3800	-	-	-	-	-	-	-	-	-	-	-	-
N-Propylbenzene	mg/kg	7600	-	-	-	-	-	-	-	-	-	-	-	-
p-Isopropyltoluene	mg/kg	NA	-	-	-	-	-	-	-	-	-	-	-	-
sec-Butylbenzene	mg/kg	NA	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	mg/kg	15000	-	-	-	-	-	-	-	-	-	-	-	-
tert-Butylbenzene	mg/kg	NA	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene	mg/kg	1500	-	-	-	-	-	-	-	-	-	-	-	-
trans-1,2-Dichloroethene	mg/kg	1500	-	-	-	-	-	-	-	-	-	-	-	-
trans-1,3-Dichloropropene	mg/kg	NA	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene	mg/kg	67	-	-	-	-	-	-	-	-	-	-	-	-
Trichlorofluoromethane	mg/kg	23000	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl chloride	mg/kg	2.1	-	-	-	-	-	-	-	-	-	-	-	-

Table 1

Soil Analytical Results
Interstate Power and Light Company
Former Manufactured Gas Plant - Albia, Iowa

Analyte	Units	Iowa Statewide Standard	B8-SL-0720-1' 7/27/2020	B8-SL-0720-3' 7/27/2020	BC4-SL-0720-1' 7/27/2020	BC8-SL-0720-3' 7/27/2020	C3-SL-0720-1' 7/27/2020	D3-SL-0720-3' 7/27/2020	D4-SL-0720-5' 7/27/2020	E4-SL-0720-5' 7/27/2020	F2-SL-0720-1' 7/27/2020	F2-SL-0720-3' 7/27/2020	H2-SL-0720-1' 7/27/2020	JK2-SL-0720-1' 7/27/2020
Phenols														
2,4,5-Trichlorophenol	mg/kg	6100	-	-	-	-	-	-	-	-	-	-	-	-
2,4,6-Trichlorophenol	mg/kg	220	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenol	mg/kg	180	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dimethylphenol	mg/kg	1200	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dinitrophenol	mg/kg	120	-	-	-	-	-	-	-	-	-	-	-	-
2-Chlorophenol	mg/kg	310	-	-	-	-	-	-	-	-	-	-	-	-
2-Methylphenol	mg/kg	3100	-	-	-	-	-	-	-	-	-	-	-	-
2-Nitrophenol	mg/kg	NA	-	-	-	-	-	-	-	-	-	-	-	-
4,6-Dinitro-2-methylphenol	mg/kg	NA	-	-	-	-	-	-	-	-	-	-	-	-
4-Chloro-3-methylphenol	mg/kg	6100	-	-	-	-	-	-	-	-	-	-	-	-
4-Methylphenol (and/or 3-Methylphenol)	mg/kg	6100	-	-	-	-	-	-	-	-	-	-	-	-
4-Nitrophenol	mg/kg	490	-	-	-	-	-	-	-	-	-	-	-	-
Pentachlorophenol	mg/kg	4.5	-	-	-	-	-	-	-	-	-	-	-	-
Phenol	mg/kg	18000	-	-	-	-	-	-	-	-	-	-	-	-
Total Cresols	mg/kg	NA	-	-	-	-	-	-	-	-	-	-	-	-

Notes:
mg/kg = miligram per kilogram.
Cells with red outlines exceed the statewide standard.
Shaded columns indicate soil which has been excavated.

Table 1

Soil Analytical Results
Interstate Power and Light Company
Former Manufactured Gas Plant - Albia, Iowa

Analyte	Units	Iowa Statewide Standard	JK2-SL-0720-3' 7/27/2020	JK2-SL-0720-5' 7/27/2020	AA8-SL-0920-1' 9/11/2020	AA7-SL-0920-1' 9/11/2020	AA6-SL-0920-1' 9/11/2020	B9-SL-0920-1' 9/11/2020	C2-SL-0920-1' 9/11/2020	D2-SL-1020-2.5' 10/22/2020	D1-SL-1020-1' 10/22/2020	E1-SL-1020-1' 10/22/2020	DP01-SL-1020 10/22/2020
Inorganics													
Cyanide, Amenable	mg/kg	NA	-	-	-	-	-	-	-				
Arsenic	mg/kg	17	-	-	-	-	-	-	-				
Lead	mg/kg	400	-	-	-	-	-	-	-				
Polynuclear Aromatic Hydrocarbons													
2-Methylnaphthalene	mg/kg	230	<0.0628	<0.0641	<0.0623	<0.0590	<0.0113	<0.0619	<0.0657	<0.0121	<0.0115	<0.0118	<0.0118
Acenaphthene	mg/kg	3400	<0.0628	<0.0641	<0.0623	<0.0590	<0.0113	<0.0619	<0.0657	<0.0121	<0.0115	<0.0118	<0.0118
Acenaphthylene	mg/kg	1700	0.132	<0.0641	0.0963	0.192	0.0359	0.237	0.184	<0.0121	<0.0115	<0.0118	<0.0118
Anthracene	mg/kg	17000	0.0774	<0.0641	<0.0623	0.0666	0.0129	<0.0619	<0.0657	<0.0121	<0.0115	<0.0118	<0.0118
Benzo[a]anthracene	mg/kg	3.1	0.432	0.105	0.251	0.242	0.0527	0.260	0.396	<0.0121	<0.0115	<0.0118	<0.0118
Benzo[a]pyrene	mg/kg	2.3	0.532	0.124	0.347	0.420	0.0881	0.725	0.643	<0.0121	<0.0115	<0.0118	<0.0118
Benzo[b]fluoranthene	mg/kg	3.1	0.687	0.156	0.484	0.519	0.131	0.856	0.885	<0.0121	0.0150	<0.0118	0.0143
Benzo[g,h,i]perylene	mg/kg	170	0.459	0.0886	0.319	0.436	0.103	0.796	0.728	<0.0121	<0.0115	<0.0118	<0.0118
Benzo[k]fluoranthene	mg/kg	31	0.201	<0.0641	0.151	0.152	0.0378	0.235	0.262	<0.0121	<0.0115	<0.0118	<0.0118
Chrysene	mg/kg	310	0.521	0.134	0.344	0.293	0.0755	0.405	0.527	<0.0121	<0.0115	<0.0118	<0.0118
Dibenz(a,h)anthracene	mg/kg	0.31	0.0849	<0.0641	<0.0623	0.0739	0.0187	0.113	0.0863	<0.0121	<0.0115	<0.0118	<0.0118
Fluoranthene	mg/kg	2300	0.58	0.114	0.369	0.343	0.0630	0.375	0.868	<0.0121	<0.0115	<0.0118	<0.0118
Fluorene	mg/kg	2300	<0.0628	<0.0641	<0.0623	<0.0590	<0.0113	<0.0619	<0.0657	<0.0121	<0.0115	<0.0118	<0.0118
Indeno[1,2,3-cd]pyrene	mg/kg	3.1	0.368	0.0764	0.285	0.376	0.0875	0.674	0.633	<0.0121	<0.0115	<0.0118	<0.0118
Naphthalene	mg/kg	1100	<0.0628	<0.0641	0.0740	0.0642	0.0113	<0.0619	<0.0657	<0.0121	<0.0115	<0.0118	<0.0118
Phenanthrene	mg/kg	1700	0.337	0.0854	0.268	0.205	0.0320	0.176	0.260	<0.0121	<0.0115	<0.0118	<0.0118
Pyrene	mg/kg	1700	0.77	0.15	0.455	0.510	0.0945	0.604	1.29	<0.0121	<0.0115	<0.0118	<0.0118
Volatile Organic Compounds													
Benzene	mg/kg	56	-	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	mg/kg	7600	-	-	-	-	-	-	-	-	-	-	-
Toluene	mg/kg	6100	-	-	-	-	-	-	-	-	-	-	-
Xylenes, Total	mg/kg	15000	-	-	-	-	-	-	-	-	-	-	-
1,1,1,2-Tetrachloroethane	mg/kg	230	-	-	-	-	-	-	-	-	-	-	-
1,1,1-Trichloroethane	mg/kg	150000	-	-	-	-	-	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	mg/kg	15	-	-	-	-	-	-	-	-	-	-	-
1,1,2-Trichloroethane	mg/kg	54	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethane	mg/kg	1500	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethene	mg/kg	380	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloropropene	mg/kg	NA	-	-	-	-	-	-	-	-	-	-	-
1,2,3-Trichlorobenzene	mg/kg	NA	-	-	-	-	-	-	-	-	-	-	-
1,2,3-Trichloropropane	mg/kg	0.1	-	-	-	-	-	-	-	-	-	-	-
1,2,4-Trichlorobenzene	mg/kg	760	-	-	-	-	-	-	-	-	-	-	-
1,2,4-Trimethylbenzene	mg/kg	760	-	-	-	-	-	-	-	-	-	-	-
1,2-Dibromo-3-Chloropropane	mg/kg	2.6	-	-	-	-	-	-	-	-	-	-	-
1,2-Dibromoethane (EDB)	mg/kg	1.5	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichlorobenzene	mg/kg	5500	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloroethane	mg/kg	34	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	mg/kg	53	-	-	-	-	-	-	-	-	-	-	-
1,3,5-Trimethylbenzene	mg/kg	760	-	-	-	-	-	-	-	-	-	-	-

Table 1

Soil Analytical Results
Interstate Power and Light Company
Former Manufactured Gas Plant - Albia, Iowa

Analyte	Units	Iowa Statewide Standard	JK2-SL-0720-3' 7/27/2020	JK2-SL-0720-5' 7/27/2020	AA8-SL-0920-1' 9/11/2020	AA7-SL-0920-1' 9/11/2020	AA6-SL-0920-1' 9/11/2020	B9-SL-0920-1' 9/11/2020	C2-SL-0920-1' 9/11/2020	D2-SL-1020-2.5' 10/22/2020	D1-SL-1020-1' 10/22/2020	E1-SL-1020-1' 10/22/2020	DP01-SL-1020 10/22/2020
Volatile Organic Compounds (cont'd)													
1,3-Dichlorobenzene	mg/kg	6800	-	-	-	-	-	-	-	-	-	-	-
1,3-Dichloropropane	mg/kg	NA	-	-	-	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene	mg/kg	760	-	-	-	-	-	-	-	-	-	-	-
2,2-Dichloropropane	mg/kg	NA	-	-	-	-	-	-	-	-	-	-	-
2-Butanone (MEK)	mg/kg	46000	-	-	-	-	-	-	-	-	-	-	-
2-Chlorotoluene	mg/kg	1500	-	-	-	-	-	-	-	-	-	-	-
4-Chlorotoluene	mg/kg	1500	-	-	-	-	-	-	-	-	-	-	-
Acetone	mg/kg	68000	-	-	-	-	-	-	-	-	-	-	-
Bromobenzene	mg/kg	NA	-	-	-	-	-	-	-	-	-	-	-
Bromochloromethane	mg/kg	760	-	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	mg/kg	50	-	-	-	-	-	-	-	-	-	-	-
Bromoform	mg/kg	390	-	-	-	-	-	-	-	-	-	-	-
Bromomethane	mg/kg	110	-	-	-	-	-	-	-	-	-	-	-
Carbon disulfide	mg/kg	7600	-	-	-	-	-	-	-	-	-	-	-
Carbon tetrachloride	mg/kg	44	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	mg/kg	1500	-	-	-	-	-	-	-	-	-	-	-
Chlorodibromomethane	mg/kg	150	-	-	-	-	-	-	-	-	-	-	-
Chloroethane	mg/kg	30000	-	-	-	-	-	-	-	-	-	-	-
Chloroform	mg/kg	NA	-	-	-	-	-	-	-	-	-	-	-
Chloromethane	mg/kg	NA	-	-	-	-	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	mg/kg	150	-	-	-	-	-	-	-	-	-	-	-
cis-1,3-Dichloropropene	mg/kg	NA	-	-	-	-	-	-	-	-	-	-	-
Dibromomethane	mg/kg	760	-	-	-	-	-	-	-	-	-	-	-
Dichlorodifluoromethane	mg/kg	15000	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobutadiene	mg/kg	40	-	-	-	-	-	-	-	-	-	-	-
Hexane	mg/kg	4600	-	-	-	-	-	-	-	-	-	-	-
Isopropylbenzene	mg/kg	7600	-	-	-	-	-	-	-	-	-	-	-
Methyl tert-butyl ether	mg/kg	2300	-	-	-	-	-	-	-	-	-	-	-
Methylene Chloride	mg/kg	1500	-	-	-	-	-	-	-	-	-	-	-
n-Butylbenzene	mg/kg	3800	-	-	-	-	-	-	-	-	-	-	-
N-Propylbenzene	mg/kg	7600	-	-	-	-	-	-	-	-	-	-	-
p-Isopropyltoluene	mg/kg	NA	-	-	-	-	-	-	-	-	-	-	-
sec-Butylbenzene	mg/kg	NA	-	-	-	-	-	-	-	-	-	-	-
Styrene	mg/kg	15000	-	-	-	-	-	-	-	-	-	-	-
tert-Butylbenzene	mg/kg	NA	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene	mg/kg	1500	-	-	-	-	-	-	-	-	-	-	-
trans-1,2-Dichloroethene	mg/kg	1500	-	-	-	-	-	-	-	-	-	-	-
trans-1,3-Dichloropropene	mg/kg	NA	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene	mg/kg	67	-	-	-	-	-	-	-	-	-	-	-
Trichlorofluoromethane	mg/kg	23000	-	-	-	-	-	-	-	-	-	-	-
Vinyl chloride	mg/kg	2.1	-	-	-	-	-	-	-	-	-	-	-

Table 1

Soil Analytical Results
Interstate Power and Light Company
Former Manufactured Gas Plant - Albia, Iowa

Analyte	Units	Iowa Statewide Standard	JK2-SL-0720-3' 7/27/2020	JK2-SL-0720-5' 7/27/2020	AA8-SL-0920-1' 9/11/2020	AA7-SL-0920-1' 9/11/2020	AA6-SL-0920-1' 9/11/2020	B9-SL-0920-1' 9/11/2020	C2-SL-0920-1' 9/11/2020	D2-SL-1020-2.5' 10/22/2020	D1-SL-1020-1' 10/22/2020	E1-SL-1020-1' 10/22/2020	DP01-SL-1020 10/22/2020
Phenols													
2,4,5-Trichlorophenol	mg/kg	6100	-	-	-	-	-	-	-	-	-	-	-
2,4,6-Trichlorophenol	mg/kg	220	-	-	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenol	mg/kg	180	-	-	-	-	-	-	-	-	-	-	-
2,4-Dimethylphenol	mg/kg	1200	-	-	-	-	-	-	-	-	-	-	-
2,4-Dinitrophenol	mg/kg	120	-	-	-	-	-	-	-	-	-	-	-
2-Chlorophenol	mg/kg	310	-	-	-	-	-	-	-	-	-	-	-
2-Methylphenol	mg/kg	3100	-	-	-	-	-	-	-	-	-	-	-
2-Nitrophenol	mg/kg	NA	-	-	-	-	-	-	-	-	-	-	-
4,6-Dinitro-2-methylphenol	mg/kg	NA	-	-	-	-	-	-	-	-	-	-	-
4-Chloro-3-methylphenol	mg/kg	6100	-	-	-	-	-	-	-	-	-	-	-
4-Methylphenol (and/or 3-Methylphenol)	mg/kg	6100	-	-	-	-	-	-	-	-	-	-	-
4-Nitrophenol	mg/kg	490	-	-	-	-	-	-	-	-	-	-	-
Pentachlorophenol	mg/kg	4.5	-	-	-	-	-	-	-	-	-	-	-
Phenol	mg/kg	18000	-	-	-	-	-	-	-	-	-	-	-
Total Cresols	mg/kg	NA	-	-	-	-	-	-	-	-	-	-	-

Notes:
mg/kg = miligram per kilogram.
Cells with red outlines exceed the statewide standard.
Shaded columns indicate soil which has been excavated.

Table 2

Groundwater Analytical Results
Interstate Power and Light Company
Former Manufactured Gas Plant - Albia, Iowa

Analyte	Units	Iowa Statewide Standard (Non-Protected)	Iowa Statewide Standard (Protected)	MW-01 MW01-GW-0518 5/23/2018	MW-01 MW01-GW-0818 8/2/2018	MW-01 DP01-GW-0818 8/2/2018	MW-01 MW01-GW-0421 4/29/2021	MW-01 MW01-GW-0721 7/8/2021	MW-01 DUP1-GW-0721 7/8/2021	MW-01 MW01-GW-1021 10/26/2021	MW-01 MW01-GW-0122 1/13/2022	MW-02 MW02-GW-0518 5/23/2018	MW-02 MW02-GW-0818 8/2/2018	MW-02 MW02-GW-0421 4/30/2021	MW-02 MW02-GW-0721 7/8/2021	MW-02 MW02-GW-1021 10/27/2021	MW-02 MW02-GW-0122 1/13/2022
Inorganics																	
Cyanide, Free	mg/L	-	-	<0.00500	<0.00500	<0.00500	-	-	-	-		<0.00500	<0.00500	-	-	-	-
Arsenic, Total	mg/L	0.05	0.01	<0.00200	0.00677	0.00618	**0.0134**	0.00610	0.00598	**0.0124**	**0.0166**	0.00204	**0.0184**	**0.0147**	**0.0153**	**0.0228**	**0.0149**
Lead, Total	mg/L	0.075	0.015	<0.000500	<0.000500	<0.000500	<0.000500	0.000664	0.000583	0.000590	0.000715	<0.000500	<0.000500	<0.000500	<0.000500	0.000533	<0.000500
Polynuclear Aromatic Hydrocarbons																	
2-Methylnaphthalene	µg/L	140	28	<0.200	<0.161	0.573	<0.200	0.280	0.259	<0.227	<0.200	**41.4**	6.64	1.74	1.03	<0.217	<0.238
Acenaphthene	µg/L	2100	420	<0.200	11.8	21.3	11.9	19.3	20.1	11.6	17.6	46.4	14.3	22.5	20.7	<0.217	13.9
Acenaphthylene	µg/L	1000	210	<0.200	0.511	4.39	2.63 F1	4.71	5.05	1.43	3.33	95.5	17.5	24.8	25.8	<0.217	9.58
Anthracene	µg/L	10000	2100	<0.200	1.61	4.74	0.844	1.83	1.98	1.04	1.43	5.43	2.07	1.57	1.33	<0.217	0.808
Benzo[a]anthracene	µg/L	4.8	0.24	<0.200	<0.161	<0.172	<0.200	<0.227	<0.238	<0.227	<0.200	<0.238	<0.172	<0.200	<0.208	<0.217	<0.238
Benzo[a]pyrene	µg/L	3.5	0.18	<0.200	<0.161	<0.172	<0.200	<0.227	<0.238	<0.227	<0.200	<0.238	<0.172	<0.200	<0.208	<0.217	<0.238
Benzo[b]fluoranthene	µg/L	4.8	0.24	<0.200	<0.161	<0.172	<0.200	<0.227	<0.238	<0.227	<0.200	<0.238	<0.172	<0.200	<0.208	<0.217	<0.238
Benzo[g,h,i]perylene	µg/L	100	21	<0.200	<0.161	<0.172	<0.200	<0.227	<0.238	<0.227	<0.200	<0.238	<0.172	<0.200	<0.208	<0.217	<0.238
Benzo[k]fluoranthene	µg/L	48	2.4	<0.200	<0.161	<0.172	<0.200	<0.227	<0.238	<0.227	<0.200	<0.238	<0.172	<0.200	<0.208	<0.217	<0.238
Chrysene	µg/L	480	24	<0.200	<0.161	<0.172	<0.200	<0.227	<0.238	<0.227	<0.200	<0.238	<0.172	<0.200	<0.208	<0.217	<0.238
Dibenz(a,h)anthracene	µg/L	0.48	0.024	<0.200	<0.161	<0.172	<0.200	<0.227	<0.238	<0.227	<0.200	<0.238	<0.172	<0.200	<0.208	<0.217	<0.238
Fluoranthene	µg/L	1400	280	<0.200	2.91	4.47	0.579	1.65	1.68	1.05	0.924	1.24	1.18	0.896	0.799	<0.217	0.972
Fluorene	µg/L	1400	280	<0.200	19.6	42.3	9.01	15.4	17.2	10.0	13.9	37.5	11.3	16.8	16.7	<0.217	8.83
Indeno[1,2,3-cd]pyrene	µg/L	4.8	0.24	<0.200	<0.161	<0.172	<0.200	<0.227	<0.238	<0.227	<0.200	<0.238	<0.172	<0.200	<0.208	<0.217	<0.238
Naphthalene	µg/L	700	100	<0.500	<0.403	0.660	13.6 F2	66.9	80.9	0.848 F1 F2	4.39	**178**	0.699	39.4	22.6	<0.543	0.909
Phenanthrene	µg/L	1000	210	<0.200	2.35	18.5	4.32	12.0	13.3	3.08 F1 F2	6.75	28.0	11.6	8.82	8.59	<0.217	2.9
Pyrene	µg/L	1000	210	<0.200	2.59	4.10	0.473	1.55	1.56	1.02	0.909	1.01	0.924	0.831	0.760	0.234	1.05
Volatile Organic Compounds																	
Benzene	µg/L	64	5	**51.2**	**463**	**453**	**390**	**494**	**459**	**395**	**283**	**602**	**564**	**279**	**231**	**38.6**	**146**
Ethylbenzene	µg/L	3500	700	126	**1270**	**1200**	407	565	562	531	384	126	180	89.5	81.5	12.4	27.6
Toluene	µg/L	5000	1000	<10.0	11.9	11.1	4.60	6.58	6.51	4.78	2.87	54.1	58.7	6.48	5.80	<1.00	1.31
Xylenes, Total	µg/L	50000	10000	70.5	773	740	49.5	57.5	55.2	41.9	29.6	284	300	58.1	51.7	10.1	24.8
1,1,1,2-Tetrachloroethane	µg/L	350	70	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1,1-Trichloroethane	µg/L	70000	200	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1,2,2-Tetrachloroethane	µg/L	18	0.3	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1,2-Trichloroethane	µg/L	61	5	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1-Dichloroethane	µg/L	700	140	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1-Dichloroethene	µg/L	180	7	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00
1,1-Dichloropropene	µg/L	-	-	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2,3-Trichlorobenzene	µg/L	-	-	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
1,2,3-Trichloropropane	µg/L	0.12	0.0058	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2,4-Trichlorobenzene	µg/L	350	70	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
1,2,4-Trimethylbenzene	µg/L	350	70	17.7	**158**	**156**	**85.2**	**111**	**104**	**78.2**	69.6	44.8	47.3	45.9	41.5	10.3	21
1,2-Dibromo-3-Chloropropane	µg/L	2.9	0.2	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
1,2-Dibromoethane (EDB)	µg/L	1.8	0.05	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-Dichlorobenzene	µg/L	3200	600	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-Dichloroethane	µg/L	38	5	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	3.61
1,2-Dichloropropane	µg/L	60	5	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,3,5-Trimethylbenzene	µg/L	350	70	<10.0	63.5	60.1	<1.00	<1.00	<1.00	<1.00 F1 F2	<1.00	27.3	15.2	4.32	3.54	1.17	1.62
1,3-Dichlorobenzene	µg/L	3200	600	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,3-Dichloropropane	µg/L	-	-	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,4-Dichlorobenzene	µg/L	650	75	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
2,2-Dichloropropane	µg/L	-	-	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00
2-Butanone (MEK)	µg/L	21000	4000	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
2-Chlorotoluene	µg/L	700	100	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00

Table 2

Groundwater Analytical Results
Interstate Power and Light Company
Former Manufactured Gas Plant - Albia, Iowa

Analyte	Units	Iowa Statewide Standard (Non-Protected)	Iowa Statewide Standard (Protected)	MW-01 MW01-GW-0518 5/23/2018	MW-01 MW01-GW-0818 8/2/2018	MW-01 DP01-GW-0818 8/2/2018	MW-01 MW01-GW-0421 4/29/2021	MW-01 MW01-GW-0721 7/8/2021	MW-01 DUP1-GW-0721 7/8/2021	MW-01 MW01-GW-1021 10/26/2021	MW-01 MW01-GW-0122 1/13/2022	MW-02 MW02-GW-0518 5/23/2018	MW-02 MW02-GW-0818 8/2/2018	MW-02 MW02-GW-0421 4/30/2021	MW-02 MW02-GW-0721 7/8/2021	MW-02 MW02-GW-1021 10/27/2021	MW-02 MW02-GW-0122 1/13/2022
Volatile Organic Compounds (cont'd)																	
4-Chlorotoluene	µg/L	700	100	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Acetone	µg/L	32000	6300	<100	<10.0	<10.0	<10.0 F1	<10.0	<10.0	<10.0	<10.0	<100	<10.0	<10.0	<10.0	<10.0	<10.0
Bromobenzene	µg/L	-	-	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Bromochloromethane	µg/L	450	90	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Bromodichloromethane	µg/L	400	80	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Bromoform	µg/L	440	80	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Bromomethane	µg/L	50	10	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00
Carbon disulfide	µg/L	3500	700	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	1.15	<1.00	<1.00
Carbon tetrachloride	µg/L	50	5	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00
Chlorobenzene	µg/L	700	100	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Chlorodibromomethane	µg/L	400	80	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Chloroethane	µg/L	14000	2800	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00
Chloroform	µg/L	-	80	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00
Chloromethane	µg/L	-	-	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00
cis-1,2-Dichloroethene	µg/L	350	70	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
cis-1,3-Dichloropropene	µg/L	-	-	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Dibromomethane	µg/L	350	70	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Dichlorodifluoromethane	µg/L	7000	1000	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00
Hexachlorobutadiene	µg/L	45	1	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Hexane	µg/L	2100	420	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Isopropylbenzene	µg/L	3500	700	<1.00	9.54	9.24	4.30	6.17	6.17	4.78	4.62	<10.0	3.57	2.78	2.45	<1.00	1.18
Methyl tert-butyl ether	µg/L	1000	210	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Methylene Chloride	µg/L	1800	5	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
n-Butylbenzene	µg/L	1800	350	<1.00	2.47	2.42	<1.00	<1.00	<1.00	<1.00	<1.00	<10.0	1.20	1.14	<1.00	<1.00	<1.00
N-Propylbenzene	µg/L	17000	3400	<1.00	23.7	22.4	6.43	11.0	10.8	7.84	7.91	<1.00	3.71	2.31	1.96	<1.00	<1.00
p-Isopropyltoluene	µg/L	-	-	<1.00	1.60	1.33	<1.00	<1.00	<1.00	<1.00	<1.00	<10.0	<1.00	<1.00	<1.00	<1.00	<1.00
sec-Butylbenzene	µg/L	-	-	<1.00	1.17	1.10	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Styrene	µg/L	-	100	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
tert-Butylbenzene	µg/L	-	-	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Tetrachloroethene	µg/L	1700	5	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
trans-1,2-Dichloroethene	µg/L	700	100	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
trans-1,3-Dichloropropene	µg/L	-	-	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Trichloroethene	µg/L	76	5	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Trichlorofluoromethane	µg/L	10000	2000	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00
Vinyl chloride	µg/L	10	2	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Phenols																	
2,4,5-Trichlorophenol	µg/L	3500	700	<103	-	-	-	-	-	-	-	<104	-	-	-	-	-
2,4,6-Trichlorophenol	µg/L	320	16	<103	-	-	-	-	-	-	-	<104	-	-	-	-	-
2,4-Dichlorophenol	µg/L	100	20	<103	-	-	-	-	-	-	-	<104	-	-	-	-	-
2,4-Dimethylphenol	µg/L	700	100	<103	-	-	-	-	-	-	-	<104	-	-	-	-	-
2,4-Dinitrophenol	µg/L	70	14	<206	-	-	-	-	-	-	-	<208	-	-	-	-	-
2-Chlorophenol	µg/L	200	40	<103	-	-	-	-	-	-	-	<104	-	-	-	-	-
2-Methylphenol	µg/L	-	35	<103	-	-	-	-	-	-	-	<104	-	-	-	-	-
2-Nitrophenol	µg/L	-	-	<103	-	-	-	-	-	-	-	<104	-	-	-	-	-
4,6-Dinitro-2-methylphenol	µg/L	-	-	<103	-	-	-	-	-	-	-	<104	-	-	-	-	-
4-Chloro-3-methylphenol	µg/L	3500	700	<103	-	-	-	-	-	-	-	<104	-	-	-	-	-
4-Methylphenol (and/or 3-Methylphenol)	µg/L	-	70	<103	-	-	-	-	-	-	-	<104	-	-	-	-	-
4-Nitrophenol	µg/L	300	60	<103	-	-	-	-	-	-	-	<104	-	-	-	-	-
Pentachlorophenol	µg/L	8.8	1	<103	-	-	-	-	-	-	-	<104	-	-	-	-	-
Phenol	µg/L	10000	2000	<103	-	-	-	-	-	-	-	<104	-	-	-	-	-
Total Cresols	µg/L	-	-	<103	-	-	-	-	-	-	-	<104	-	-	-	-	-

Notes:

Concentrations above Statewide Standard for a Protected Water Source are in bold font.
Concentrations above Statewide Standard for a Non-Protected Water Source are in bold red font with red outline.
F1 - MS and/or MSD Recovery is outside acceptance limits.
*1 - LCS/LCSD RPD exceeds control limits.
+ - LCS and/or LCSD is outside acceptance limit, high biased.

Table 2

Groundwater Analytical Results
Interstate Power and Light Company
Former Manufactured Gas Plant - Albia, Iowa

Analyte	Units	Iowa Statewide Standard (Non-Protected)	Iowa Statewide Standard (Protected)	MW-03 MW03-GW-0518 5/23/2018	MW-03 DP01-GW-0518 5/23/2018	MW-03 MW03-GW-0818 8/2/2018	MW-03 MW3-GW-0521 5/28/2021	MW-03 MW03-GW-0721 7/8/2021	MW-03 MW03-GW-1021 10/26/2021	MW-03 DUP1-GW-1021 10/26/2021	MW-03 MW03-GW-0122 1/13/2022	MW-03 DUP1-GW-0122 1/13/2022	MW-04 MW04-GW-0818 8/2/2018	MW-04 MW04-GW-0918 9/6/2018	MW-04 MW04-GW-0421 4/30/2021	MW-04 DP01-GW-0421 4/30/2021	MW-04 MW04-GW-0721 7/7/2021	MW-04 MW04-GW-1021 10/26/2021	MW-04 MW04-GW-0122 1/13/2022
Inorganics																			
Cyanide, Free	mg/L	-	-	<0.00500 F1	<0.00500	<0.00500 F1	-	-	-	-	-	-	<0.00500	-	-	-	-	-	
Arsenic, Total	mg/L	0.05	0.01	0.00593	0.00575	**0.0173**	0.00353	0.00416	0.00637	0.00673	**0.0111**	0.0069	0.00243	0.00351	0.00409	0.00448	0.00598	0.00394	0.00537
Lead, Total	mg/L	0.075	0.015	<0.000500	<0.000500	<0.000500	<0.000500	0.000999	0.000571	0.000933	0.000558	0.000592	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	0.000704	0.000799
Polynuclear Aromatic Hydrocarbons																			
2-Methylnaphthalene	µg/L	140	28	**72.2**	**39.2**	18.5	3.62 *1	1.29	0.295	0.238	0.273	0.266	<0.167	<0.192	<0.208	<0.208	<0.200	<0.227	<0.200
Acenaphthene	µg/L	2100	420	43.6	27.1	13.8	27.0 *1	18.7	21.6	21.1	18.3	20.9	<0.167	<0.192	<0.208	<0.208	<0.200	<0.227	<0.200
Acenaphthylene	µg/L	1000	210	180	122	67.1 F2	159 *1	129	130	114	70.4	96.1	<0.167	<0.192	<0.208	<0.208	<0.200	<0.227	<0.200
Anthracene	µg/L	10000	2100	7.60	4.98	2.65 F2 F1	6.09 *1	4.22	2.50	3.26	1.56	1.49	<0.167	<0.192	<0.208	<0.208	<0.200	<0.227	<0.200
Benzo[a]anthracene	µg/L	4.8	0.24	<0.227	<0.200	<0.172	<0.200 *1	<0.217	<0.208	<0.227	<0.200	<0.200	<0.167	<0.192	<0.208	<0.208	<0.200	<0.227	<0.200
Benzo[a]pyrene	µg/L	3.5	0.18	<0.227	<0.200	<0.172	<0.200 *1	<0.217	<0.208	<0.227	<0.200	<0.200	0.177	<0.192	<0.208	<0.208	<0.200	<0.227	<0.200
Benzo[b]fluoranthene	µg/L	4.8	0.24	<0.227	<0.200	<0.172	<0.200 *1	<0.217	<0.208	<0.227	<0.200	<0.200	<0.167	<0.192	<0.208	<0.208	0.219	<0.227	<0.200
Benzo[g,h,i]perylene	µg/L	100	21	<0.227	<0.200	<0.172 F2	<0.200 *1	<0.217	<0.208	<0.227	<0.200	<0.200	0.356	<0.192 F2	<0.208	<0.208	<0.200	<0.227	<0.200
Benzo[k]fluoranthene	µg/L	48	2.4	<0.227	<0.200	<0.172	<0.200	<0.217	<0.208	<0.227	<0.200	<0.200	<0.167	<0.192	<0.208	<0.208	<0.200	<0.227	<0.200
Chrysene	µg/L	480	24	<0.227	<0.200	<0.172	<0.200 *1	<0.217	<0.208	<0.227	<0.200	<0.200	<0.167	<0.192	<0.208	<0.208	<0.200	<0.227	<0.200
Dibenz(a,h)anthracene	µg/L	0.48	0.024	<0.227	<0.200	<0.172 F2	<0.200 *1	<0.217	<0.208	<0.227	<0.200	<0.200	**0.352**	<0.192 F2	<0.208	<0.208	<0.200	<0.227	<0.200
Fluoranthene	µg/L	1400	280	5.41	3.60	1.70	5.37 *1	4.66	3.99	4.36	1.03	1.05	<0.167	<0.192	<0.208	<0.208	<0.200	<0.227	<0.200
Fluorene	µg/L	1400	280	29.2	18.7	9.95 F2	17.2 *1	12.2	11.5	11.1	8.64	9.23	<0.167	<0.192	<0.208	<0.208	<0.200	<0.227	<0.200
Indeno[1,2,3-cd]pyrene	µg/L	4.8	0.24	<0.227	<0.200	<0.172 F2	<0.200 *1	<0.217	<0.208	<0.227	<0.200	<0.200	**0.393**	<0.192	<0.208	<0.208	<0.200	<0.227	<0.200
Naphthalene	µg/L	700	100	**2210**	**1560**	**618 F2**	**ing**	**266**	39.9	32.7	14	15.7	<0.417	<0.481	<0.521	<0.521	<0.500	<0.568	<0.500
Phenanthrene	µg/L	1000	210	90.8	64.2	24.2	66.4	54.3	27.8	22.3	15	16.3	<0.167	<0.192	<0.208	<0.208	<0.200	<0.227	<0.200
Pyrene	µg/L	1000	210	5.34	3.59	1.66	5.55 *1	5.07	4.09	4.48	0.959	1.03	<0.167	<0.192	<0.208	<0.208	<0.200	<0.227	<0.200
Volatile Organic Compounds																			
Benzene	µg/L	64	5	**1190**	**1220**	**721**	**507**	**449**	**468**	**473**	**172**	**173**	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
Ethylbenzene	µg/L	3500	700	293	265	174	154	133	188	194	49.8	49.8	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Toluene	µg/L	5000	1000	23.7	22.1	15.7	19.0	20.1	7.86	7.91	2.5	2.39	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Xylenes, Total	µg/L	50000	10000	309	281	158 F1	130	121	95.6	96.9	48.8	47.4	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00
1,1,1,2-Tetrachloroethane	µg/L	350	70	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1,1-Trichloroethane	µg/L	70000	200	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1,2,2-Tetrachloroethane	µg/L	18	0.3	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1,2-Trichloroethane	µg/L	61	5	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1-Dichloroethane	µg/L	700	140	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1-Dichloroethene	µg/L	180	7	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00
1,1-Dichloropropene	µg/L	-	-	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2,3-Trichlorobenzene	µg/L	-	-	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
1,2,3-Trichloropropane	µg/L	0.12	0.0058	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2,4-Trichlorobenzene	µg/L	350	70	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
1,2,4-Trimethylbenzene	µg/L	350	70	**122**	**111**	57.8	69.7	**72.1**	69.5	**71.5**	42.7	41.3	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-Dibromo-3-Chloropropane	µg/L	2.9	0.2	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
1,2-Dibromoethane (EDB)	µg/L	1.8	0.05	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-Dichlorobenzene	µg/L	3200	600	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-Dichloroethane	µg/L	38	5	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-Dichloropropane	µg/L	60	5	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,3,5-Trimethylbenzene	µg/L	350	70	30.4	27.3	12.2	7.97	7.16	4.10	4.25	2.95	2.81	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,3-Dichlorobenzene	µg/L	3200	600	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,3-Dichloropropane	µg/L	-	-	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,4-Dichlorobenzene	µg/L	650	75	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
2,2-Dichloropropane	µg/L	-	-	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00
2-Butanone (MEK)	µg/L	21000	4000	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
2-Chlorotoluene	µg/L	700	100	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00

Table 2

Groundwater Analytical Results
Interstate Power and Light Company
Former Manufactured Gas Plant - Albia, Iowa

Analyte	Units	Iowa Statewide Standard (Non-Protected)	Iowa Statewide Standard (Protected)	MW-03 MW03-GW-0518 5/23/2018	MW-03 DP01-GW-0518 5/23/2018	MW-03 MW03-GW-0818 8/2/2018	MW-03 MW3-GW-0521 5/28/2021	MW-03 MW03-GW-0721 7/8/2021	MW-03 MW03-GW-1021 10/26/2021	MW-03 DUP1-GW-1021 10/26/2021	MW-03 MW03-GW-0122 1/13/2022	MW-03 DUP1-GW-0122 1/13/2022	MW-04 MW04-GW-0818 8/2/2018	MW-04 MW04-GW-0918 9/6/2018	MW-04 MW04-GW-0421 4/30/2021	MW-04 DP01-GW-0421 4/30/2021	MW-04 MW04-GW-0721 7/7/2021	MW-04 MW04-GW-1021 10/26/2021	MW-04 MW04-GW-0122 1/13/2022
Volatile Organic Compounds (cont'd)																			
4-Chlorotoluene	µg/L	700	100	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Acetone	µg/L	32000	6300	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Bromobenzene	µg/L	-	-	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Bromochloromethane	µg/L	450	90	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Bromodichloromethane	µg/L	400	80	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Bromoform	µg/L	440	80	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Bromomethane	µg/L	50	10	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00
Carbon disulfide	µg/L	3500	700	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Carbon tetrachloride	µg/L	50	5	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00
Chlorobenzene	µg/L	700	100	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Chlorodibromomethane	µg/L	400	80	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Chloroethane	µg/L	14000	2800	<4.00	<4.00	<4.00	<4.00	21.9	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00 *	<4.00	<4.00	<4.00	<4.00	<4.00
Chloroform	µg/L	-	80	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00
Chloromethane	µg/L	-	-	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00
cis-1,2-Dichloroethene	µg/L	350	70	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
cis-1,3-Dichloropropene	µg/L	-	-	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Dibromomethane	µg/L	350	70	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Dichlorodifluoromethane	µg/L	7000	1000	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00
Hexachlorobutadiene	µg/L	45	1	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Hexane	µg/L	2100	420	<1.00	<1.00	<1.00 F2	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Isopropylbenzene	µg/L	3500	700	22.4	20.5	10.3	12.9	13.8	16.4	17.3	4.76	4.74	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Methyl tert-butyl ether	µg/L	1000	210	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Methylene Chloride	µg/L	1800	5	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
n-Butylbenzene	µg/L	1800	350	2.81	2.83	1.63	2.12	1.75	1.62	1.69	1.04	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
N-Propylbenzene	µg/L	17000	3400	10.1	9.07	4.10	4.68	4.58	5.21	5.47	1.23	1.27	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
p-Isopropyltoluene	µg/L	-	-	2.55	2.21	<1.00	1.02	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
sec-Butylbenzene	µg/L	-	-	1.23	1.09	<1.00	1.01	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Styrene	µg/L	-	100	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
tert-Butylbenzene	µg/L	-	-	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Tetrachloroethene	µg/L	1700	5	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
trans-1,2-Dichloroethene	µg/L	700	100	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
trans-1,3-Dichloropropene	µg/L	-	-	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Trichloroethene	µg/L	76	5	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Trichlorofluoromethane	µg/L	10000	2000	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00
Vinyl chloride	µg/L	10	2	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00 *	<1.00	<1.00	<1.00	<1.00	<1.00
Phenols																			
2,4,5-Trichlorophenol	µg/L	3500	700	<105	<106	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4,6-Trichlorophenol	µg/L	320	16	<105	<106	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenol	µg/L	100	20	<105	<106	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dimethylphenol	µg/L	700	100	<105	<106	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dinitrophenol	µg/L	70	14	<211	<213	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Chlorophenol	µg/L	200	40	<105	<106	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Methylphenol	µg/L	-	35	<105	<106	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Nitrophenol	µg/L	-	-	<105	<106	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4,6-Dinitro-2-methylphenol	µg/L	-	-	<105	<106	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Chloro-3-methylphenol	µg/L	3500	700	<105	<106	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Methylphenol (and/or 3-Methylphenol)	µg/L	-	70	<105	<106	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Nitrophenol	µg/L	300	60	<105	<106	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pentachlorophenol	µg/L	8.8	1	<105	<106	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phenol	µg/L	10000	2000	<105	<106	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Cresols	µg/L	-	-	<105	<106	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Notes:
Concentrations above Statewide Standard for a Protected Water Source are in bold font.
Concentrations above Statewide Standard for a Non-Protected Water Source are in bold red font with red outline.
F1 - MS and/or MSD Recovery is outside acceptance limits.
*1 - LCS/LCSD RPD exceeds control limits.
+ - LCS and/or LCSD is outside acceptance limit, high biased.

Table 2

Groundwater Analytical Results
Interstate Power and Light Company
Former Manufactured Gas Plant - Albia, Iowa

Analyte	Units	Iowa Statewide Standard (Non-Protected)	Iowa Statewide Standard (Protected)	MW-05 MW05-GW-0818 8/2/2018	MW-05 MW05-GW-0918 9/6/2018	MW-05 MW05-GW-0421 4/29/2021	MW-05 MW05-GW-0721 7/7/2021	MW-05 MW05-GW-1021 10/26/2021	MW-05 MW05-GW-0122 1/13/2022	MW-06 MW06-GW-0818 8/2/2018	MW-06 MW06-GW-0918 9/6/2018	MW-06 DP01-GW-0918 9/6/2018	MW-06 MW06-GW-0421 4/30/2021	MW-06 MW06-GW-0721 7/8/2021	MW-06 MW06-GW-1021 10/27/2021	MW-06 MW06-GW-0122 1/13/2022
Inorganics																
Cyanide, Free	mg/L	-	-	<0.00500	-	-	-	-	-	<0.00500	-	-	-	-	-	-
Arsenic, Total	mg/L	0.05	0.01	<0.00200 ^	0.00242	0.00342	<0.00200	<0.00200	<0.00200	<0.00200 ^	0.00468	0.00470	**0.0422**	**0.0257**	**0.0193**	**0.0266**
Lead, Total	mg/L	0.075	0.015	<0.000500	<0.000500	<0.000500	<0.000500	0.000737	<0.000500	<0.000500	<0.000500	<0.000500	0.000534	<0.000500	0.00127	0.00065
Polynuclear Aromatic Hydrocarbons																
2-Methylnaphthalene	µg/L	140	28	<0.167	<0.200	<0.217	<0.200	<0.217	<0.227	13.1	6.40	9.50	<0.200	0.319	<0.217	<0.208
Acenaphthene	µg/L	2100	420	<0.167	<0.200	<0.217	<0.200	<0.217	<0.227	8.80	3.59	4.08	1.53	2.06	<0.217	3.02
Acenaphthylene	µg/L	1000	210	<0.167	<0.200	<0.217	<0.200	<0.217	<0.227	66.5	31.5	37.3	3.77	5.72	<0.217	4.9
Anthracene	µg/L	10000	2100	<0.167	<0.200	<0.217	<0.200	<0.217	<0.227	5.55	1.57	1.50	<0.200	0.544	<0.217	0.74
Benzo[a]anthracene	µg/L	4.8	0.24	<0.167	<0.200	<0.217	<0.200	<0.217	<0.227	<0.167	<0.200	<0.192	<0.200	<0.227	<0.217	<0.208
Benzo[a]pyrene	µg/L	3.5	0.18	<0.167	<0.200	<0.217	<0.200	<0.217	<0.227	<0.167	<0.200	<0.192	<0.200	<0.227	<0.217	<0.208
Benzo[b]fluoranthene	µg/L	4.8	0.24	<0.167	<0.200	<0.217	<0.200	<0.217	<0.227	<0.167	<0.200	<0.192	<0.200	<0.227	<0.217	<0.208
Benzo[g,h,i]perylene	µg/L	100	21	<0.167	<0.200	<0.217	<0.200	<0.217	<0.227	<0.167	<0.200	<0.192	<0.200	<0.227	<0.217	<0.208
Benzo[k]fluoranthene	µg/L	48	2.4	<0.167	<0.200	<0.217	<0.200	<0.217	<0.227	<0.167	<0.200	<0.192	<0.200	<0.227	<0.217	<0.208
Chrysene	µg/L	480	24	<0.167	<0.200	<0.217	<0.200	<0.217	<0.227	<0.167	<0.200	<0.192	<0.200	<0.227	<0.217	<0.208
Dibenz(a,h)anthracene	µg/L	0.48	0.024	<0.167	<0.200	<0.217	<0.200	<0.217	<0.227	<0.167	<0.200	<0.192	<0.200	<0.227	<0.217	<0.208
Fluoranthene	µg/L	1400	280	<0.167	<0.200	<0.217	<0.200	<0.217	<0.227	2.90	2.04	2.09	0.654	0.804	<0.217	1.28
Fluorene	µg/L	1400	280	<0.167	<0.200	<0.217	<0.200	<0.217	<0.227	27.7	11.5	12.9	0.744	1.63	<0.217	2.82
Indeno[1,2,3-cd]pyrene	µg/L	4.8	0.24	<0.167	<0.200	<0.217	<0.200	<0.217	<0.227	<0.167	<0.200	<0.192	<0.200	<0.227	<0.217	<0.208
Naphthalene	µg/L	700	100	0.432	<0.500	<0.543	<0.500	<0.543	<0.568	**226**	**121**	**342**	0.733	6.83	<0.543	0.933
Phenanthrene	µg/L	1000	210	<0.167	<0.200	<0.217	<0.200	<0.217	<0.227	27.4	8.07	9.79	<0.200	4.07	<0.217	5.4
Pyrene	µg/L	1000	210	<0.167	<0.200	<0.217	<0.200	<0.217	<0.227	3.26	3.14	3.21	0.914	0.927	<0.217	1.34
Volatile Organic Compounds																
Benzene	µg/L	64	5	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	**121**	**24.4**	**64.6**	**41.7**	**22.7**	**9.16**	**20.9**
Ethylbenzene	µg/L	3500	700	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	20.0	<10.0	13.6	6.05	4.63	2.04	6.54
Toluene	µg/L	5000	1000	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	179	40.5	89.0	4.32	3.28	<1.00	1.25
Xylenes, Total	µg/L	50000	10000	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	169	<30.0	59.7	44.7	29.7	4.23	19.3
1,1,1,2-Tetrachloroethane	µg/L	350	70	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<10.0	<10.0	<1.00	<1.00	<1.00	<1.00
1,1,1-Trichloroethane	µg/L	70000	200	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<10.0	<10.0	<1.00	<1.00	<1.00	<1.00
1,1,2,2-Tetrachloroethane	µg/L	18	0.3	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<10.0	<10.0	<1.00	<1.00	<1.00	<1.00
1,1,2-Trichloroethane	µg/L	61	5	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<10.0	<10.0	<1.00	<1.00	<1.00	<1.00
1,1-Dichloroethane	µg/L	700	140	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<10.0	<10.0	<1.00	<1.00	<1.00	<1.00
1,1-Dichloroethene	µg/L	180	7	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<20.0	<20.0	<2.00	<2.00	<2.00	<2.00
1,1-Dichloropropene	µg/L	-	-	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<10.0	<10.0	<1.00	<1.00	<1.00	<1.00
1,2,3-Trichlorobenzene	µg/L	-	-	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<50.0	<50.0	<5.00	<5.00	<5.00	<5.00
1,2,3-Trichloropropane	µg/L	0.12	0.0058	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<10.0	<10.0	<1.00	<1.00	<1.00	<1.00
1,2,4-Trichlorobenzene	µg/L	350	70	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<50.0	<50.0	<5.00	<5.00	<5.00	<5.00
1,2,4-Trimethylbenzene	µg/L	350	70	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	26.1	<10.0	11.4	17.4	14.6	2.71	15.2
1,2-Dibromo-3-Chloropropane	µg/L	2.9	0.2	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<50.0	<50.0	<5.00	<5.00	<5.00	<5.00
1,2-Dibromoethane (EDB)	µg/L	1.8	0.05	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<10.0	<10.0	<1.00	<1.00	<1.00	<1.00
1,2-Dichlorobenzene	µg/L	3200	600	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<10.0	<10.0	<1.00	<1.00	<1.00	<1.00
1,2-Dichloroethane	µg/L	38	5	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<10.0	<10.0	<1.00	<1.00	<1.00	<1.00
1,2-Dichloropropane	µg/L	60	5	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<10.0	<10.0	<1.00	<1.00	<1.00	<1.00
1,3,5-Trimethylbenzene	µg/L	350	70	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	10.5	<10.0	<10.0	<1.00	<1.00	<1.00	1.15
1,3-Dichlorobenzene	µg/L	3200	600	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<10.0	<10.0	<1.00	<1.00	<1.00	<1.00
1,3-Dichloropropane	µg/L	-	-	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<10.0	<10.0	<1.00	<1.00	<1.00	<1.00
1,4-Dichlorobenzene	µg/L	650	75	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<10.0	<10.0	<1.00	<1.00	<1.00	<1.00
2,2-Dichloropropane	µg/L	-	-	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<40.0	<40.0	<4.00	<4.00	<4.00	<4.00
2-Butanone (MEK)	µg/L	21000	4000	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<100	<100	<10.0	<10.0	<10.0	<10.0
2-Chlorotoluene	µg/L	700	100	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<10.0	<10.0	<1.00	<1.00	<1.00	<1.00

Table 2

Groundwater Analytical Results
Interstate Power and Light Company
Former Manufactured Gas Plant - Albia, Iowa

Analyte	Units	Iowa Statewide Standard (Non-Protected)	Iowa Statewide Standard (Protected)	MW-05 MW05-GW-0818 8/2/2018	MW-05 MW05-GW-0918 9/6/2018	MW-05 MW05-GW-0421 4/29/2021	MW-05 MW05-GW-0721 7/7/2021	MW-05 MW05-GW-1021 10/26/2021	MW-05 MW05-GW-0122 1/13/2022	MW-06 MW06-GW-0818 8/2/2018	MW-06 MW06-GW-0918 9/6/2018	MW-06 DP01-GW-0918 9/6/2018	MW-06 MW06-GW-0421 4/30/2021	MW-06 MW06-GW-0721 7/8/2021	MW-06 MW06-GW-1021 10/27/2021	MW-06 MW06-GW-0122 1/13/2022
Volatile Organic Compounds (cont'd)																
4-Chlorotoluene	µg/L	700	100	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<10.0	<10.0	<1.00	<1.00	<1.00	<1.00
Acetone	µg/L	32000	6300	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<100	<100	<10.0	<10.0	<10.0	<10.0
Bromobenzene	µg/L	-	-	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<10.0	<10.0	<1.00	<1.00	<1.00	<1.00
Bromochloromethane	µg/L	450	90	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<50.0	<50.0	<5.00	<5.00	<5.00	<5.00
Bromodichloromethane	µg/L	400	80	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<10.0	<10.0	<1.00	<1.00	<1.00	<1.00
Bromoform	µg/L	440	80	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<50.0	<50.0	<5.00	<5.00	<5.00	<5.00
Bromomethane	µg/L	50	10	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<40.0	<40.0	<4.00	<4.00	<4.00	<4.00
Carbon disulfide	µg/L	3500	700	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<10.0	<10.0	<1.00	<1.00	<1.00	<1.00
Carbon tetrachloride	µg/L	50	5	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<20.0	<20.0	<2.00	<2.00	<2.00	<2.00
Chlorobenzene	µg/L	700	100	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<10.0	<10.0	<1.00	<1.00	<1.00	<1.00
Chlorodibromomethane	µg/L	400	80	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<50.0	<50.0	<5.00	<5.00	<5.00	<5.00
Chloroethane	µg/L	14000	2800	<4.00	<4.00 *	<4.00	<4.00	<4.00	<4.00	<4.00	<40.0	<40.0	<4.00	<4.00	<4.00	<4.00
Chloroform	µg/L	-	80	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<30.0	<30.0	<3.00	<3.00	<3.00	<3.00
Chloromethane	µg/L	-	-	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<30.0	<30.0	<3.00	<3.00	<3.00	<3.00
cis-1,2-Dichloroethene	µg/L	350	70	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<10.0	<10.0	<1.00	<1.00	<1.00	<1.00
cis-1,3-Dichloropropene	µg/L	-	-	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<50.0	<50.0	<5.00	<5.00	<5.00	<5.00
Dibromomethane	µg/L	350	70	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<10.0	<10.0	<1.00	<1.00	<1.00	<1.00
Dichlorodifluoromethane	µg/L	7000	1000	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<30.0	<30.0	<3.00	<3.00	<3.00	<3.00
Hexachlorobutadiene	µg/L	45	1	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<50.0	<50.0	<5.00	<5.00	<5.00	<5.00
Hexane	µg/L	2100	420	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<10.0	<10.0	<1.00	<1.00	<1.00	<1.00
Isopropylbenzene	µg/L	3500	700	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	1.23	<10.0	<10.0	<1.00	<1.00	<1.00	<1.00
Methyl tert-butyl ether	µg/L	1000	210	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<10.0	<10.0	<1.00	<1.00	<1.00	<1.00
Methylene Chloride	µg/L	1800	5	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<50.0	<50.0	<5.00	<5.00	<5.00	<5.00
n-Butylbenzene	µg/L	1800	350	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	1.12	<10.0	<10.0	<1.00	<1.00	<1.00	<1.00
N-Propylbenzene	µg/L	17000	3400	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<10.0	<10.0	<1.00	<1.00	<1.00	<1.00
p-Isopropyltoluene	µg/L	-	-	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<10.0	<10.0	<1.00	<1.00	<1.00	<1.00
sec-Butylbenzene	µg/L	-	-	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<10.0	<10.0	<1.00	<1.00	<1.00	<1.00
Styrene	µg/L	-	100	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<10.0	<10.0	<1.00	<1.00	<1.00	<1.00
tert-Butylbenzene	µg/L	-	-	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<10.0	<10.0	<1.00	<1.00	<1.00	<1.00
Tetrachloroethene	µg/L	1700	5	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<10.0	<10.0	<1.00	<1.00	<1.00	<1.00
trans-1,2-Dichloroethene	µg/L	700	100	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<10.0	<10.0	<1.00	<1.00	<1.00	<1.00
trans-1,3-Dichloropropene	µg/L	-	-	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<50.0	<50.0	<5.00	<5.00	<5.00	<5.00
Trichloroethene	µg/L	76	5	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<10.0	<10.0	<1.00	<1.00	<1.00	<1.00
Trichlorofluoromethane	µg/L	10000	2000	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<40.0	<40.0	<4.00	<4.00	<4.00	<4.00
Vinyl chloride	µg/L	10	2	<1.00	<1.00 *	<1.00	<1.00	<1.00	<1.00	<1.00	<10.0	<10.0	<1.00	<1.00	<1.00	<1.00
Phenols																
2,4,5-Trichlorophenol	µg/L	3500	700	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4,6-Trichlorophenol	µg/L	320	16	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenol	µg/L	100	20	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dimethylphenol	µg/L	700	100	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dinitrophenol	µg/L	70	14	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Chlorophenol	µg/L	200	40	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Methylphenol	µg/L	-	35	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Nitrophenol	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4,6-Dinitro-2-methylphenol	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Chloro-3-methylphenol	µg/L	3500	700	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Methylphenol (and/or 3-Methylphenol)	µg/L	-	70	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Nitrophenol	µg/L	300	60	-	-	-	-	-	-	-	-	-	-	-	-	-
Pentachlorophenol	µg/L	8.8	1	-	-	-	-	-	-	-	-	-	-	-	-	-
Phenol	µg/L	10000	2000	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Cresols	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Notes:

Concentrations above Statewide Standard for a Protected Water Source are in bold font.
Concentrations above Statewide Standard for a Non-Protected Water Source are in bold red font with red outline.
F1 - MS and/or MSD Recovery is outside acceptance limits.
*1 - LCS/LCSD RPD exceeds control limits.
+ - LCS and/or LCSD is outside acceptance limit, high biased.

Table 2

Groundwater Analytical Results
Interstate Power and Light Company
Former Manufactured Gas Plant - Albia, Iowa

Analyte	Units	Iowa Statewide Standard (Non-Protected)	Iowa Statewide Standard (Protected)	MW-07 MW07-GW-1018 10/18/2018	MW-07 MW07-GW-0119 1/15/2019	MW-07 MW7-GW-0521 5/28/2021	MW-07 MW07-GW-0721 7/7/2021	MW-07 MW07-GW-1021 10/29/2021	MW-07 MW07-GW-0122 1/13/2022	MW-08 MW08-GW-1018 10/18/2018	MW-08 MW08-GW-0119 1/15/2019	MW-08 DP01-GW-0119 1/15/2019	MW-08R MW8R-GW-0421 4/30/2021	MW-08R MW08R-GW-0721 7/7/2021	MW-08R MW08R-GW-1021 10/26/2021	MW-08R MW08R-GW-0122 1/13/2022
Inorganics																
Cyanide, Free	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Arsenic, Total	mg/L	0.05	0.01	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	**0.0133**	**0.0112**	**0.0110**	<0.00200
Lead, Total	mg/L	0.075	0.015	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	0.000819	<0.000500	0.000695	0.000578	0.000614	0.000536	0.00577	<0.000500
Polynuclear Aromatic Hydrocarbons																
2-Methylnaphthalene	µg/L	140	28	<0.185	<0.192	1.02 *1	<0.227	<0.227	<0.200	<0.192	<0.192	<0.200	<0.200	<0.200	<0.227	<0.238
Acenaphthene	µg/L	2100	420	<0.185	<0.192	<0.227 *1	<0.227	<0.227	<0.200	0.389	<0.192	<0.200	<0.200	<0.200	<0.227	<0.238
Acenaphthylene	µg/L	1000	210	<0.185	<0.192	0.453 *1	<0.227	<0.227	<0.200	<0.192	<0.192	<0.200	<0.200	<0.200	<0.227	<0.238
Anthracene	µg/L	10000	2100	<0.185	<0.192	<0.227 *1	<0.227	<0.227	<0.200	<0.192	<0.192	<0.200	<0.200	<0.200	<0.227	<0.238
Benzo[a]anthracene	µg/L	4.8	0.24	<0.185	<0.192	<0.227 *1	<0.227	<0.227	<0.200	<0.192	<0.192	<0.200	<0.200	<0.200	<0.227	<0.238
Benzo[a]pyrene	µg/L	3.5	0.18	<0.185	<0.192	<0.227 *1	<0.227	<0.227	<0.200	<0.192 F2	<0.192	<0.200	<0.200	<0.200	<0.227	<0.238
Benzo[b]fluoranthene	µg/L	4.8	0.24	<0.185	<0.192	<0.227 *1	<0.227	<0.227	<0.200	<0.192 F2	<0.192	<0.200	<0.200	<0.200	<0.227	<0.238
Benzo[g,h,i]perylene	µg/L	100	21	<0.185	<0.192	<0.227 *1	<0.227	<0.227	<0.200	<0.192 F2	<0.192	<0.200	<0.200	<0.200	<0.227	<0.238
Benzo[k]fluoranthene	µg/L	48	2.4	<0.185	<0.192	<0.227	<0.227	<0.227	<0.200	<0.192 F2	<0.192	<0.200	<0.200	<0.200	<0.227	<0.238
Chrysene	µg/L	480	24	<0.185	<0.192	<0.227 *1	<0.227	<0.227	<0.200	<0.192	<0.192	<0.200	<0.200	<0.200	<0.227	<0.238
Dibenz(a,h)anthracene	µg/L	0.48	0.024	<0.185	<0.192	<0.227 *1	<0.227	<0.227	<0.200	<0.192 F2	<0.192	<0.200	<0.200	<0.200	<0.227	<0.238
Fluoranthene	µg/L	1400	280	<0.185	<0.192	<0.227 *1	<0.227	<0.227	<0.200	<0.192	<0.192	<0.200	<0.200	<0.200	<0.227	<0.238
Fluorene	µg/L	1400	280	<0.185	<0.192	<0.227 *1	<0.227	<0.227	<0.200	<0.192	<0.192	<0.200	<0.200	<0.200	<0.227	<0.238
Indeno[1,2,3-cd]pyrene	µg/L	4.8	0.24	<0.185	<0.192	<0.227 *1	<0.227	<0.227	<0.200	<0.192 F2	<0.192	<0.200	<0.200	<0.200	<0.227	<0.238
Naphthalene	µg/L	700	100	<0.463	<0.481	2.91 *1 *+	<0.568	<0.568	<0.500	<0.481	<0.481	<0.500	<0.500	<0.500	<0.568	<0.595
Phenanthrene	µg/L	1000	210	<0.185	<0.192	<0.227	<0.227	<0.227	<0.200	<0.192	<0.192	<0.200	<0.200	<0.200	<0.227	<0.238
Pyrene	µg/L	1000	210	<0.185	<0.192	<0.227 *1	<0.227	<0.227	<0.200	<0.192	<0.192	<0.200	<0.200	<0.200	<0.227	<0.238
Volatile Organic Compounds																
Benzene	µg/L	64	5	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
Ethylbenzene	µg/L	3500	700	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Toluene	µg/L	5000	1000	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Xylenes, Total	µg/L	50000	10000	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00
1,1,1,2-Tetrachloroethane	µg/L	350	70	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1,1-Trichloroethane	µg/L	70000	200	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00 F2	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1,2,2-Tetrachloroethane	µg/L	18	0.3	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1,2-Trichloroethane	µg/L	61	5	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1-Dichloroethane	µg/L	700	140	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1-Dichloroethene	µg/L	180	7	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00
1,1-Dichloropropene	µg/L	-	-	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00 F2	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2,3-Trichlorobenzene	µg/L	-	-	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
1,2,3-Trichloropropane	µg/L	0.12	0.0058	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2,4-Trichlorobenzene	µg/L	350	70	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
1,2,4-Trimethylbenzene	µg/L	350	70	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-Dibromo-3-Chloropropane	µg/L	2.9	0.2	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
1,2-Dibromoethane (EDB)	µg/L	1.8	0.05	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-Dichlorobenzene	µg/L	3200	600	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-Dichloroethane	µg/L	38	5	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-Dichloropropane	µg/L	60	5	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,3,5-Trimethylbenzene	µg/L	350	70	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,3-Dichlorobenzene	µg/L	3200	600	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,3-Dichloropropane	µg/L	-	-	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,4-Dichlorobenzene	µg/L	650	75	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
2,2-Dichloropropane	µg/L	-	-	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00
2-Butanone (MEK)	µg/L	21000	4000	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
2-Chlorotoluene	µg/L	700	100	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00

Table 2

Groundwater Analytical Results
Interstate Power and Light Company
Former Manufactured Gas Plant - Albia, Iowa

Analyte	Units	Iowa Statewide Standard (Non-Protected)	Iowa Statewide Standard (Protected)	MW-07 MW07-GW-1018 10/18/2018	MW-07 MW07-GW-0119 1/15/2019	MW-07 MW7-GW-0521 5/28/2021	MW-07 MW07-GW-0721 7/7/2021	MW-07 MW07-GW-1021 10/29/2021	MW-07 MW07-GW-0122 1/13/2022	MW-08 MW08-GW-1018 10/18/2018	MW-08 MW08-GW-0119 1/15/2019	MW-08 DP01-GW-0119 1/15/2019	MW-08R MW8R-GW-0421 4/30/2021	MW-08R MW08R-GW-0721 7/7/2021	MW-08R MW08R-GW-1021 10/26/2021	MW-08R MW08R-GW-0122 1/13/2022
Volatile Organic Compounds (cont'd)																
4-Chlorotoluene	µg/L	700	100	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Acetone	µg/L	32000	6300	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Bromobenzene	µg/L	-	-	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Bromochloromethane	µg/L	450	90	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Bromodichloromethane	µg/L	400	80	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Bromoform	µg/L	440	80	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Bromomethane	µg/L	50	10	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00
Carbon disulfide	µg/L	3500	700	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Carbon tetrachloride	µg/L	50	5	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00 F2	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00
Chlorobenzene	µg/L	700	100	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Chlorodibromomethane	µg/L	400	80	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Chloroethane	µg/L	14000	2800	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00
Chloroform	µg/L	-	80	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00
Chloromethane	µg/L	-	-	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00
cis-1,2-Dichloroethene	µg/L	350	70	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
cis-1,3-Dichloropropene	µg/L	-	-	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Dibromomethane	µg/L	350	70	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Dichlorodifluoromethane	µg/L	7000	1000	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00
Hexachlorobutadiene	µg/L	45	1	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Hexane	µg/L	2100	420	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Isopropylbenzene	µg/L	3500	700	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Methyl tert-butyl ether	µg/L	1000	210	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Methylene Chloride	µg/L	1800	5	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
n-Butylbenzene	µg/L	1800	350	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
N-Propylbenzene	µg/L	17000	3400	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
p-Isopropyltoluene	µg/L	-	-	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
sec-Butylbenzene	µg/L	-	-	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Styrene	µg/L	-	100	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
tert-Butylbenzene	µg/L	-	-	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Tetrachloroethene	µg/L	1700	5	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
trans-1,2-Dichloroethene	µg/L	700	100	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
trans-1,3-Dichloropropene	µg/L	-	-	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Trichloroethene	µg/L	76	5	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Trichlorofluoromethane	µg/L	10000	2000	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00
Vinyl chloride	µg/L	10	2	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Phenols																
2,4,5-Trichlorophenol	µg/L	3500	700	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4,6-Trichlorophenol	µg/L	320	16	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenol	µg/L	100	20	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dimethylphenol	µg/L	700	100	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dinitrophenol	µg/L	70	14	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Chlorophenol	µg/L	200	40	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Methylphenol	µg/L	-	35	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Nitrophenol	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4,6-Dinitro-2-methylphenol	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Chloro-3-methylphenol	µg/L	3500	700	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Methylphenol (and/or 3-Methylphenol)	µg/L	-	70	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Nitrophenol	µg/L	300	60	-	-	-	-	-	-	-	-	-	-	-	-	-
Pentachlorophenol	µg/L	8.8	1	-	-	-	-	-	-	-	-	-	-	-	-	-
Phenol	µg/L	10000	2000	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Cresols	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Notes:

Concentrations above Statewide Standard for a Protected Water Source are in bold font.
Concentrations above Statewide Standard for a Non-Protected Water Source are in bold red font with red outline.
F1 - MS and/or MSD Recovery is outside acceptance limits.
*1 - LCS/LCSD RPD exceeds control limits.
+ - LCS and/or LCSD is outside acceptance limit, high biased.

Table 2

Groundwater Analytical Results
Interstate Power and Light Company
Former Manufactured Gas Plant - Albia, Iowa

Analyte	Units	Iowa Statewide Standard (Non-Protected)	Iowa Statewide Standard (Protected)	MW-09 MW09-GW-1018 10/18/2018	MW-09 DP01-GW-1018 10/18/2018	MW-09 MW09-GW-0119 1/15/2019	MW-09 MW09-GW-0421 4/29/2021	MW-09 MW09-GW-0721 7/7/2021	MW-09 MW09-GW-1021 10/27/2021	MW-09 MW09-GW-0122 1/13/2022	PB-02 PB02-GW-0718 7/12/2018
Inorganics											
Cyanide, Free	mg/L	-	-	-	-	-	-	-	-	-	<0.00500
Arsenic, Total	mg/L	0.05	0.01	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	**0.0116**
Lead, Total	mg/L	0.075	0.015	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	0.000509	<0.000500	**0.0158**
Polynuclear Aromatic Hydrocarbons											
2-Methylnaphthalene	µg/L	140	28	<0.192	<0.192	<0.200	<0.250	<0.200	<0.227	<0.200	<0.108
Acenaphthene	µg/L	2100	420	<0.192	<0.192	<0.200	<0.250	<0.200	<0.227	<0.200	<0.108
Acenaphthylene	µg/L	1000	210	<0.192	<0.192	<0.200	<0.250	<0.200	<0.227	<0.200	<0.108
Anthracene	µg/L	10000	2100	<0.192	<0.192	<0.200	<0.250	<0.200	<0.227	<0.200	<0.108
Benzo[a]anthracene	µg/L	4.8	0.24	<0.192	<0.192	<0.200	<0.250	<0.200	<0.227	<0.200	<0.108
Benzo[a]pyrene	µg/L	3.5	0.18	<0.192	<0.192	<0.200	<0.250	<0.200	<0.227	<0.200	<0.108
Benzo[b]fluoranthene	µg/L	4.8	0.24	<0.192	<0.192	<0.200	<0.250	<0.200	<0.227	<0.200	<0.108
Benzo[g,h,i]perylene	µg/L	100	21	<0.192	<0.192	<0.200 F2	<0.250	<0.200	<0.227	<0.200	<0.108
Benzo[k]fluoranthene	µg/L	48	2.4	<0.192	<0.192	<0.200	<0.250	<0.200	<0.227	<0.200	<0.108
Chrysene	µg/L	480	24	<0.192	<0.192	<0.200	<0.250	<0.200	<0.227	<0.200	<0.108
Dibenz(a,h)anthracene	µg/L	0.48	0.024	<0.192	<0.192	<0.200 F2	<0.250	<0.200	<0.227	<0.200	<0.108
Fluoranthene	µg/L	1400	280	<0.192	<0.192	<0.200	<0.250	<0.200	<0.227	<0.200	<0.108
Fluorene	µg/L	1400	280	<0.192	<0.192	<0.200	<0.250	<0.200	<0.227	<0.200	<0.108
Indeno[1,2,3-cd]pyrene	µg/L	4.8	0.24	<0.192	<0.192	<0.200 F2	<0.250	<0.200	<0.227	<0.200	<0.108
Naphthalene	µg/L	700	100	<0.481	<0.481	<0.500	<0.625	<0.500	<0.568	<0.500	<0.538
Phenanthrene	µg/L	1000	210	<0.192	<0.192	<0.200	<0.250	<0.200	<0.227	<0.200	<0.108
Pyrene	µg/L	1000	210	<0.192	<0.192	<0.200	<0.250	<0.200	<0.227	<0.200	<0.108
Volatile Organic Compounds											
Benzene	µg/L	64	5	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
Ethylbenzene	µg/L	3500	700	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Toluene	µg/L	5000	1000	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Xylenes, Total	µg/L	50000	10000	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00
1,1,1,2-Tetrachloroethane	µg/L	350	70	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1,1-Trichloroethane	µg/L	70000	200	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1,2,2-Tetrachloroethane	µg/L	18	0.3	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1,2-Trichloroethane	µg/L	61	5	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1-Dichloroethane	µg/L	700	140	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1-Dichloroethene	µg/L	180	7	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00
1,1-Dichloropropene	µg/L	-	-	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2,3-Trichlorobenzene	µg/L	-	-	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
1,2,3-Trichloropropane	µg/L	0.12	0.0058	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2,4-Trichlorobenzene	µg/L	350	70	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
1,2,4-Trimethylbenzene	µg/L	350	70	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-Dibromo-3-Chloropropane	µg/L	2.9	0.2	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
1,2-Dibromoethane (EDB)	µg/L	1.8	0.05	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-Dichlorobenzene	µg/L	3200	600	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-Dichloroethane	µg/L	38	5	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-Dichloropropane	µg/L	60	5	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,3,5-Trimethylbenzene	µg/L	350	70	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,3-Dichlorobenzene	µg/L	3200	600	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,3-Dichloropropane	µg/L	-	-	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,4-Dichlorobenzene	µg/L	650	75	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
2,2-Dichloropropane	µg/L	-	-	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00
2-Butanone (MEK)	µg/L	21000	4000	<10.0	<10.0	<10.0 F2	<10.0	<10.0	<10.0	<10.0	<10.0
2-Chlorotoluene	µg/L	700	100	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00

Table 2

Groundwater Analytical Results
Interstate Power and Light Company
Former Manufactured Gas Plant - Albia, Iowa

Analyte	Units	Iowa Statewide Standard (Non-Protected)	Iowa Statewide Standard (Protected)	MW-09 MW09-GW-1018 10/18/2018	MW-09 DP01-GW-1018 10/18/2018	MW-09 MW09-GW-0119 1/15/2019	MW-09 MW09-GW-0421 4/29/2021	MW-09 MW09-GW-0721 7/7/2021	MW-09 MW09-GW-1021 10/27/2021	MW-09 MW09-GW-0122 1/13/2022	PB-02 PB02-GW-0718 7/12/2018
Volatile Organic Compounds (cont'd)											
4-Chlorotoluene	µg/L	700	100	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Acetone	µg/L	32000	6300	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Bromobenzene	µg/L	-	-	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Bromochloromethane	µg/L	450	90	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Bromodichloromethane	µg/L	400	80	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Bromoform	µg/L	440	80	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Bromomethane	µg/L	50	10	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00
Carbon disulfide	µg/L	3500	700	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Carbon tetrachloride	µg/L	50	5	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00
Chlorobenzene	µg/L	700	100	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Chlorodibromomethane	µg/L	400	80	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Chloroethane	µg/L	14000	2800	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00
Chloroform	µg/L	-	80	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00
Chloromethane	µg/L	-	-	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00
cis-1,2-Dichloroethene	µg/L	350	70	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
cis-1,3-Dichloropropene	µg/L	-	-	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Dibromomethane	µg/L	350	70	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Dichlorodifluoromethane	µg/L	7000	1000	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00
Hexachlorobutadiene	µg/L	45	1	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Hexane	µg/L	2100	420	<1.00	<1.00	<1.00 F2	<1.00	<1.00	<1.00	<1.00	<1.00
Isopropylbenzene	µg/L	3500	700	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Methyl tert-butyl ether	µg/L	1000	210	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Methylene Chloride	µg/L	1800	5	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
n-Butylbenzene	µg/L	1800	350	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
N-Propylbenzene	µg/L	17000	3400	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
p-Isopropyltoluene	µg/L	-	-	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
sec-Butylbenzene	µg/L	-	-	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Styrene	µg/L	-	100	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
tert-Butylbenzene	µg/L	-	-	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Tetrachloroethene	µg/L	1700	5	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
trans-1,2-Dichloroethene	µg/L	700	100	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
trans-1,3-Dichloropropene	µg/L	-	-	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Trichloroethene	µg/L	76	5	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Trichlorofluoromethane	µg/L	10000	2000	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00
Vinyl chloride	µg/L	10	2	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Phenols											
2,4,5-Trichlorophenol	µg/L	3500	700	-	-	-	-	-	-	-	-
2,4,6-Trichlorophenol	µg/L	320	16	-	-	-	-	-	-	-	-
2,4-Dichlorophenol	µg/L	100	20	-	-	-	-	-	-	-	-
2,4-Dimethylphenol	µg/L	700	100	-	-	-	-	-	-	-	-
2,4-Dinitrophenol	µg/L	70	14	-	-	-	-	-	-	-	-
2-Chlorophenol	µg/L	200	40	-	-	-	-	-	-	-	-
2-Methylphenol	µg/L	-	35	-	-	-	-	-	-	-	-
2-Nitrophenol	µg/L	-	-	-	-	-	-	-	-	-	-
4,6-Dinitro-2-methylphenol	µg/L	-	-	-	-	-	-	-	-	-	-
4-Chloro-3-methylphenol	µg/L	3500	700	-	-	-	-	-	-	-	-
4-Methylphenol (and/or 3-Methylphenol)	µg/L	-	70	-	-	-	-	-	-	-	-
4-Nitrophenol	µg/L	300	60	-	-	-	-	-	-	-	-
Pentachlorophenol	µg/L	8.8	1	-	-	-	-	-	-	-	-
Phenol	µg/L	10000	2000	-	-	-	-	-	-	-	-
Total Cresols	µg/L	-	-	-	-	-	-	-	-	-	-

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Concentrations above Statewide Standard for a Non-Protected Water Source are in bold red font with red outline.
F1 - MS and/or MSD Recovery is outside acceptance limits.
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