



Friday, November 12, 2010  
Analytical Results

Ed Council  
LJB Engineers & Architects  
3100 Research Boulevard  
Dayton, OH 45420-0246  
TEL: 937-259-5000  
FAX 937-259-5100

RE: 09020 Piqua Power Plant

Work Order: 10J1483

Belmont Labs received 1 sample(s) on 10/29/2010 for the analyses presented in the following report.

Belmont Labs attests that all analytical methods were performed using acceptable methods, and that the QA/QC procedures stipulated in these methods were followed. USEPA's RCRA Program regards a statement of quality assurance as a legal means of assuring that acceptable and uniform laboratory methods and QA/QC practices were followed by the laboratory.

If you have any questions regarding the test results, please feel free to call me at (937) 832-8242.

Respectfully submitted,

Holly Green  
Project Manager  
VAP

**Certifications:**

NELAP/NELAC - #04130  
Ohio EPA Drinking water - #836

VAP - #CL0032  
Ohio EPA Drinking water (Micro) - #872

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25 Holiday Drive \* Englewood, Ohio 45322 \* 1.937.832.8242 \* 1.937.832.2868 Fax

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**CLIENT:** LJB Engineers & Architects  
**Project:** 09020 Piqua Power Plant**Lab Order:** 10J1483

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**Work Order Sample Summary**

<b>Lab Sample ID</b>	<b>Client Sample ID</b>	<b>Sampled Date</b>	<b>Received Date</b>
10J1483-01A	MW-4d	10/27/2010 4:40:00PM	10/29/2010
10J1483-01B	MW-4d	10/27/2010 4:40:00PM	10/29/2010
10J1483-01C	MW-4d	10/27/2010 4:40:00PM	10/29/2010
10J1483-01D	MW-4d	10/27/2010 4:40:00PM	10/29/2010
10J1483-01E	MW-4d	10/27/2010 4:40:00PM	10/29/2010
10J1483-01F	MW-4d	10/27/2010 4:40:00PM	10/29/2010
10J1483-01G	MW-4d	10/27/2010 4:40:00PM	10/29/2010

**CLIENT:** LJB Engineers & Architects  
**Project:** 09020 Piqua Power Plant

**Lab Order:** 10J1483

**Lab ID:** 10J1483-01  
**Client Sample ID:** MW-4d

**Collection Date:** 10/27/2010 4:40:00PM  
**Matrix:** Groundwater

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
<b>ICP_Ag</b>	<b>SW 6010B</b>						<b>Analyst: RJE</b>
Silver	BDL	0.000500		mg/L	1	1046178	11/11/2010 12:58:45AM
<b>ICP_Al</b>	<b>SW 6010B</b>						<b>Analyst: RJE</b>
Aluminum	BDL	0.0500		mg/L	1	1046178	11/11/2010 12:58:45AM
<b>ICP_As</b>	<b>SW 6010B</b>						<b>Analyst: RJE</b>
Arsenic	BDL	0.00500		mg/L	1	1046178	11/11/2010 12:58:45AM
<b>ICP_Ba</b>	<b>SW 6010B</b>						<b>Analyst: RJE</b>
<b>Barium</b>	<b>0.0695</b>	0.00500		mg/L	1	1046178	11/11/2010 12:58:45AM
<b>ICP_Be</b>	<b>SW 6010B</b>						<b>Analyst: RJE</b>
Beryllium	BDL	0.000500		mg/L	1	1046178	11/11/2010 12:58:45AM
<b>ICP_Cd</b>	<b>SW 6010B</b>						<b>Analyst: RJE</b>
Cadmium	BDL	0.000500		mg/L	1	1046178	11/11/2010 12:58:45AM
<b>ICP_Co</b>	<b>SW 6010B</b>						<b>Analyst: RJE</b>
Cobalt	BDL	0.00500		mg/L	1	1046178	11/11/2010 12:58:45AM
<b>ICP_Cr</b>	<b>SW 6010B</b>						<b>Analyst: RJE</b>
Chromium	BDL	0.00500		mg/L	1	1046178	11/11/2010 12:58:45AM
<b>ICP_Ni</b>	<b>SW 6010B</b>						<b>Analyst: RJE</b>
Nickel	BDL	0.00500		mg/L	1	1046178	11/11/2010 12:58:45AM
<b>ICP_Pb</b>	<b>SW 6010B</b>						<b>Analyst: RJE</b>
Lead	BDL	0.00500		mg/L	1	1046178	11/11/2010 12:58:45AM
<b>ICP_Sb</b>	<b>SW 6010B</b>						<b>Analyst: RJE</b>
Antimony	BDL	0.00500		mg/L	1	1046178	11/11/2010 12:58:45AM
<b>ICP_Se</b>	<b>SW 6010B</b>						<b>Analyst: RJE</b>
Selenium	BDL	0.0100		mg/L	1	1046178	11/11/2010 12:58:45AM
<b>ICP_V</b>	<b>SW 6010B</b>						<b>Analyst: RJE</b>
Vanadium	BDL	0.00500		mg/L	1	1046178	11/11/2010 12:58:45AM
<b>ICP_Zn</b>	<b>SW 6010B</b>						<b>Analyst: RJE</b>
Zinc	BDL	0.0100		mg/L	1	1046178	11/11/2010 12:58:45AM
<b>GFAA TI</b>	<b>SW 7841</b>						<b>Analyst: RJE</b>

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**Lab Order:** 10J1483

**Lab ID:** 10J1483-01  
**Client Sample ID:** MW-4d

**Collection Date:** 10/27/2010 4:40:00PM  
**Matrix:** Groundwater

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
Thallium	BDL	0.00100		mg/L	1	1046228	11/11/2010 3:23:00PM
<b>HG</b>		<b>SW 7470A</b>		<b>Analyst: KC</b>			
Mercury	BDL	0.000200		mg/L	1	1046276	11/11/2010 5:59:37PM
<b>PCB_8082</b>		<b>SW 8082</b>		<b>Analyst: FRS</b>			
Aroclor 1016	BDL	0.500		ug/L	1	1045047	11/2/2010 11:59:00AM
Aroclor 1221	BDL	0.500		ug/L	1	1045047	11/2/2010 11:59:00AM
Aroclor 1232	BDL	0.500		ug/L	1	1045047	11/2/2010 11:59:00AM
Aroclor 1242	BDL	0.500		ug/L	1	1045047	11/2/2010 11:59:00AM
Aroclor 1248	BDL	0.500		ug/L	1	1045047	11/2/2010 11:59:00AM
Aroclor 1254	BDL	0.500		ug/L	1	1045047	11/2/2010 11:59:00AM
Aroclor 1260	BDL	0.500		ug/L	1	1045047	11/2/2010 11:59:00AM
<i>Surrogate: Decachlorobiphenyl</i>		73.0 %			36-157	1045047	11/2/2010 11:59:00AM
<i>Surrogate: Tetrachloro-m-xylene</i>		79.0 %			28-127	1045047	11/2/2010 11:59:00AM

<b>VOC 8260</b>		<b>SW 8260B</b>		<b>Analyst: kds</b>			
1,1,1,2-Tetrachloroethane	BDL	5.00		ug/L	1	1046204	11/8/2010 5:09:00PM
1,1,1-Trichloroethane	BDL	5.00		ug/L	1	1046204	11/8/2010 5:09:00PM
1,1,2,2-Tetrachloroethane	BDL	5.00		ug/L	1	1046204	11/8/2010 5:09:00PM
1,1,2-Trichloroethane	BDL	5.00		ug/L	1	1046204	11/8/2010 5:09:00PM
1,1-Dichloroethane	BDL	5.00		ug/L	1	1046204	11/8/2010 5:09:00PM
1,1-Dichloroethene	BDL	5.00		ug/L	1	1046204	11/8/2010 5:09:00PM
1,1-Dichloropropene	BDL	5.00		ug/L	1	1046204	11/8/2010 5:09:00PM
1,2-Dibromoethane	BDL	5.00		ug/L	1	1046204	11/8/2010 5:09:00PM
1,2-Dichloroethane	BDL	5.00		ug/L	1	1046204	11/8/2010 5:09:00PM
1,2-Dichloropropane	BDL	5.00		ug/L	1	1046204	11/8/2010 5:09:00PM
1,3-Dichloropropane	BDL	5.00		ug/L	1	1046204	11/8/2010 5:09:00PM
2,2-Dichloropropane	BDL	5.00		ug/L	1	1046204	11/8/2010 5:09:00PM
2-Butanone	BDL	20.0		ug/L	1	1046204	11/8/2010 5:09:00PM
2-Chlorotoluene	BDL	5.00		ug/L	1	1046204	11/8/2010 5:09:00PM
2-Hexanone	BDL	20.0		ug/L	1	1046204	11/8/2010 5:09:00PM
4-Chlorotoluene	BDL	5.00		ug/L	1	1046204	11/8/2010 5:09:00PM
4-Methyl-2-pentanone	BDL	20.0		ug/L	1	1046204	11/8/2010 5:09:00PM
Acetone	BDL	20.0		ug/L	1	1046204	11/8/2010 5:09:00PM
Acetonitrile	BDL	40.0		ug/L	1	1046204	11/8/2010 5:09:00PM
Acrolein	BDL	20.0		ug/L	1	1046204	11/8/2010 5:09:00PM
Acrylonitrile	BDL	20.0		ug/L	1	1046204	11/8/2010 5:09:00PM
Allyl chloride	BDL	5.00		ug/L	1	1046204	11/8/2010 5:09:00PM
Benzene	BDL	5.00		ug/L	1	1046204	11/8/2010 5:09:00PM
Bromobenzene	BDL	5.00		ug/L	1	1046204	11/8/2010 5:09:00PM
Bromochloromethane	BDL	5.00		ug/L	1	1046204	11/8/2010 5:09:00PM
Bromodichloromethane	BDL	5.00		ug/L	1	1046204	11/8/2010 5:09:00PM
Bromoform	BDL	5.00		ug/L	1	1046204	11/8/2010 5:09:00PM
Bromomethane	BDL	5.00		ug/L	1	1046204	11/8/2010 5:09:00PM

CLIENT: LJB Engineers & Architects  
 Project: 09020 Piqua Power Plant

Lab Order: 10J1483

Lab ID: 10J1483-01  
 Client Sample ID: MW-4d

Collection Date: 10/27/2010 4:40:00PM  
 Matrix: Groundwater

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
Carbon Disulfide	BDL	20.0		ug/L	1	1046204	11/8/2010 5:09:00PM
Carbon Tetrachloride	BDL	5.00		ug/L	1	1046204	11/8/2010 5:09:00PM
Chlorobenzene	BDL	5.00		ug/L	1	1046204	11/8/2010 5:09:00PM
Chloroethane	BDL	5.00		ug/L	1	1046204	11/8/2010 5:09:00PM
Chloroform	BDL	5.00		ug/L	1	1046204	11/8/2010 5:09:00PM
Chloromethane	BDL	5.00		ug/L	1	1046204	11/8/2010 5:09:00PM
cis-1,2-Dichloroethene	BDL	5.00		ug/L	1	1046204	11/8/2010 5:09:00PM
cis-1,3-Dichloropropene	BDL	5.00		ug/L	1	1046204	11/8/2010 5:09:00PM
Dibromochloromethane	BDL	5.00		ug/L	1	1046204	11/8/2010 5:09:00PM
Dibromomethane	BDL	5.00		ug/L	1	1046204	11/8/2010 5:09:00PM
Dichlorodifluoromethane	BDL	5.00		ug/L	1	1046204	11/8/2010 5:09:00PM
Ethylbenzene	BDL	5.00		ug/L	1	1046204	11/8/2010 5:09:00PM
Iodomethane	BDL	10.0		ug/L	1	1046204	11/8/2010 5:09:00PM
Methylene Chloride	BDL	5.00		ug/L	1	1046204	11/8/2010 5:09:00PM
Methyl tert-Butyl Ether	BDL	10.0		ug/L	1	1046204	11/8/2010 5:09:00PM
m,p-Xylene	BDL	10.0		ug/L	1	1046204	11/8/2010 5:09:00PM
n-Hexane	BDL	5.00		ug/L	1	1046204	11/8/2010 5:09:00PM
o-Xylene	BDL	5.00		ug/L	1	1046204	11/8/2010 5:09:00PM
Styrene	BDL	5.00		ug/L	1	1046204	11/8/2010 5:09:00PM
Tetrachloroethene	BDL	5.00		ug/L	1	1046204	11/8/2010 5:09:00PM
Toluene	BDL	5.00		ug/L	1	1046204	11/8/2010 5:09:00PM
trans-1,2-Dichloroethene	BDL	5.00		ug/L	1	1046204	11/8/2010 5:09:00PM
trans-1,3-Dichloropropene	BDL	5.00		ug/L	1	1046204	11/8/2010 5:09:00PM
Trichloroethene	BDL	5.00		ug/L	1	1046204	11/8/2010 5:09:00PM
Trichlorofluoromethane	BDL	5.00		ug/L	1	1046204	11/8/2010 5:09:00PM
Vinyl Chloride	BDL	1.00		ug/L	1	1046204	11/8/2010 5:09:00PM
Vinyl acetate	BDL	10.0		ug/L	1	1046204	11/8/2010 5:09:00PM

Surrogate: 4-Bromofluorobenzene	83.9 %	41-140	1046204	11/8/2010 5:09:00PM
Surrogate: Dibromofluoromethane	105 %	34-158	1046204	11/8/2010 5:09:00PM
Surrogate: Toluene-d8	92.9 %	47-147	1046204	11/8/2010 5:09:00PM
Surrogate: 1,2-Dichloroethane-d4	105 %	29-163	1046204	11/8/2010 5:09:00PM

**PAH\_FULL\_8270**

Analyst: MBG

2-Methylnaphthalene	BDL	10.0		ug/L	1	1045160	11/7/2010 3:26:00AM
Acenaphthene	BDL	10.0		ug/L	1	1045160	11/7/2010 3:26:00AM
Acenaphthylene	BDL	10.0		ug/L	1	1045160	11/7/2010 3:26:00AM
Anthracene	BDL	10.0		ug/L	1	1045160	11/7/2010 3:26:00AM
Benz(a)anthracene	BDL	0.260		ug/L	1	1045160	11/7/2010 3:26:00AM
Benzo(a)pyrene	BDL	0.200		ug/L	1	1045160	11/7/2010 3:26:00AM
Benzo(b)fluoranthene	BDL	0.170		ug/L	1	1045160	11/7/2010 3:26:00AM
Benzo(g,h,i)perylene	BDL	10.0		ug/L	1	1045160	11/7/2010 3:26:00AM
Benzo(k)fluoranthene	BDL	1.70		ug/L	1	1045160	11/7/2010 3:26:00AM
Chrysene	BDL	10.0		ug/L	1	1045160	11/7/2010 3:26:00AM
Dibenz(a,h)anthracene	BDL	0.100		ug/L	1	1045160	11/7/2010 3:26:00AM
Fluoranthene	BDL	10.0		ug/L	1	1045160	11/7/2010 3:26:00AM

**CLIENT:** LJB Engineers & Architects  
**Project:** 09020 Piqua Power Plant

**Lab Order:** 10J1483

**Lab ID:** 10J1483-01  
**Client Sample ID:** MW-4d

**Collection Date:** 10/27/2010 4:40:00PM  
**Matrix:** Groundwater

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
Fluorene	BDL	10.0		ug/L	1	1045160	11/7/2010 3:26:00AM
Indeno(1,2,3-cd)pyrene	BDL	0.220		ug/L	1	1045160	11/7/2010 3:26:00AM
Naphthalene	BDL	1.00		ug/L	1	1045160	11/7/2010 3:26:00AM
Phenanthrene	BDL	10.0		ug/L	1	1045160	11/7/2010 3:26:00AM
Pyrene	BDL	10.0		ug/L	1	1045160	11/7/2010 3:26:00AM
<i>Surrogate: Nitrobenzene-d5</i>		74.6 %			50-125	1045160	11/7/2010 3:26:00AM
<i>Surrogate: 2-Fluorobiphenyl</i>		65.2 %			50-120	1045160	11/7/2010 3:26:00AM
<i>Surrogate: Terphenyl-d14</i>		23.4 %	S-04		30-150	1045160	11/7/2010 3:26:00AM



**CLIENT:** LJB Engineers & Architects  
**Project:** 09020 Piqua Power Plant

**Lab Order:** 10J1483

**Total Metals by ICP - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1046178 - PREP ICP W**

**Blank (1046178-BLK1)**

Prepared & Analyzed: 11/10/10

Aluminum	BDL	0.0500	mg/L							
Antimony	BDL	0.00500	mg/L							
Arsenic	BDL	0.00500	mg/L							
Barium	BDL	0.00500	mg/L							
Beryllium	BDL	0.000500	mg/L							
Cadmium	BDL	0.000500	mg/L							
Chromium	BDL	0.00500	mg/L							
Cobalt	BDL	0.00500	mg/L							
Lead	BDL	0.00500	mg/L							
Nickel	BDL	0.00500	mg/L							
Selenium	BDL	0.0100	mg/L							
Silver	BDL	0.000500	mg/L							
Vanadium	BDL	0.00500	mg/L							
Zinc	BDL	0.0100	mg/L							

**LCS (1046178-BS1)**

Prepared & Analyzed: 11/10/10

Aluminum	0.952	0.0500	mg/L	1.000		95.2	85-115			
Antimony	0.890	0.00500	mg/L	1.000		89.0	85-115			
Arsenic	0.858	0.00500	mg/L	1.000		85.8	85-115			
Barium	0.870	0.00500	mg/L	1.000		87.0	85-115			
Beryllium	0.863	0.000500	mg/L	1.000		86.3	85-115			
Cadmium	0.843	0.000500	mg/L	1.000		84.3	85-115			
Chromium	0.859	0.00500	mg/L	1.000		85.9	85-115			
Cobalt	0.851	0.00500	mg/L	1.000		85.1	85-115			
Lead	0.856	0.00500	mg/L	1.000		85.6	85-115			
Nickel	0.870	0.00500	mg/L	1.000		87.0	85-115			
Selenium	0.869	0.0100	mg/L	1.000		86.9	85-115			
Silver	0.892	0.000500	mg/L	1.000		89.2	85-115			
Vanadium	0.898	0.00500	mg/L	1.000		89.8	85-115			
Zinc	0.868	0.0100	mg/L	1.000		86.8	85-115			

A-01



CLIENT: LJB Engineers & Architects  
 Project: 09020 Piqua Power Plant

Lab Order: 10J1483

**Total Metals by ICP - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1046178 - PREP ICP W**

**LCS Dup (1046178-BSD1)**

Prepared & Analyzed: 11/10/10

Aluminum	0.979	0.0500	mg/L	1.000		97.9	85-115	2.80	20	
Antimony	0.913	0.00500	mg/L	1.000		91.3	85-115	2.55	20	
Arsenic	0.882	0.00500	mg/L	1.000		88.2	85-115	2.76	20	
Barium	0.897	0.00500	mg/L	1.000		89.7	85-115	3.06	20	
Beryllium	0.885	0.000500	mg/L	1.000		88.5	85-115	2.52	20	
Cadmium	0.851	0.000500	mg/L	1.000		85.1	85-115	0.945	20	
Chromium	0.881	0.00500	mg/L	1.000		88.1	85-115	2.53	20	
Cobalt	0.871	0.00500	mg/L	1.000		87.1	85-115	2.32	20	
Lead	0.854	0.00500	mg/L	1.000		85.4	85-115	0.234	20	
Nickel	0.872	0.00500	mg/L	1.000		87.2	85-115	0.230	20	
Selenium	0.872	0.0100	mg/L	1.000		87.2	85-115	0.345	20	
Silver	0.920	0.000500	mg/L	1.000		92.0	85-115	3.09	20	
Vanadium	0.921	0.00500	mg/L	1.000		92.1	85-115	2.53	20	
Zinc	0.889	0.0100	mg/L	1.000		88.9	85-115	2.39	20	

**Duplicate (1046178-DUP1)**

Source: 10J1393-13

Prepared & Analyzed: 11/10/10

Aluminum	0.0249	0.0500	mg/L		0.0448			57.1	20	R
Antimony	0.00208	0.00500	mg/L		0.0178			158	20	R
Arsenic	0.00645	0.00500	mg/L		0.0191			99.0	20	R
Barium	0.00849	0.00500	mg/L		0.00928			8.89	20	
Beryllium	BDL	0.000500	mg/L		ND				20	
Cadmium	BDL	0.000500	mg/L		ND				20	
Chromium	BDL	0.00500	mg/L		ND				20	
Cobalt	BDL	0.00500	mg/L		ND				20	
Lead	BDL	0.00500	mg/L		ND				20	
Nickel	BDL	0.00500	mg/L		0.000590				20	
Selenium	BDL	0.0100	mg/L		ND				20	
Silver	BDL	0.000500	mg/L		ND				20	
Vanadium	0.000200	0.00500	mg/L		ND				20	
Zinc	BDL	0.0100	mg/L		ND				20	

CLIENT: LJB Engineers & Architects  
 Project: 09020 Piqua Power Plant

Lab Order: 10J1483

**Total Metals by ICP - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1046178 - PREP ICP W**

Matrix Spike (1046178-MS1)	Source: 10J1494-07			Prepared & Analyzed: 11/10/10						
Aluminum	0.973	0.0500	mg/L	1.000	ND	97.3	75-125			
Antimony	0.908	0.00500	mg/L	1.000	ND	90.8	75-125			
Arsenic	0.881	0.00500	mg/L	1.000	0.00160	87.9	75-125			
Barium	0.893	0.00500	mg/L	1.000	ND	89.3	75-125			
Beryllium	0.882	0.000500	mg/L	1.000	ND	88.2	75-125			
Cadmium	0.843	0.000500	mg/L	1.000	0.000780	84.2	75-125			
Chromium	0.879	0.00500	mg/L	1.000	ND	87.9	75-125			
Cobalt	0.872	0.00500	mg/L	1.000	ND	87.2	75-125			
Lead	0.856	0.00500	mg/L	1.000	ND	85.6	75-125			
Nickel	0.870	0.00500	mg/L	1.000	0.000640	86.9	75-125			
Selenium	0.869	0.0100	mg/L	1.000	ND	86.9	75-125			
Silver	0.911	0.000500	mg/L	1.000	ND	91.1	75-125			
Vanadium	0.919	0.00500	mg/L	1.000	ND	91.9	75-125			
Zinc	0.930	0.0100	mg/L	1.000	0.0462	88.4	75-125			

Matrix Spike Dup (1046178-MSD1)	Source: 10J1494-07			Prepared & Analyzed: 11/10/10						
Aluminum	0.996	0.0500	mg/L	1.000	ND	99.6	75-125	2.34	20	
Antimony	0.928	0.00500	mg/L	1.000	ND	92.8	75-125	2.18	20	
Arsenic	0.895	0.00500	mg/L	1.000	0.00160	89.3	75-125	1.58	20	
Barium	0.909	0.00500	mg/L	1.000	ND	90.9	75-125	1.78	20	
Beryllium	0.898	0.000500	mg/L	1.000	ND	89.8	75-125	1.80	20	
Cadmium	0.851	0.000500	mg/L	1.000	0.000780	85.0	75-125	0.945	20	
Chromium	0.894	0.00500	mg/L	1.000	ND	89.4	75-125	1.69	20	
Cobalt	0.887	0.00500	mg/L	1.000	ND	88.7	75-125	1.71	20	
Lead	0.865	0.00500	mg/L	1.000	ND	86.5	75-125	1.05	20	
Nickel	0.883	0.00500	mg/L	1.000	0.000640	88.2	75-125	1.48	20	
Selenium	0.888	0.0100	mg/L	1.000	ND	88.8	75-125	2.16	20	
Silver	0.931	0.000500	mg/L	1.000	ND	93.1	75-125	2.17	20	
Vanadium	0.938	0.00500	mg/L	1.000	ND	93.8	75-125	2.05	20	
Zinc	0.945	0.0100	mg/L	1.000	0.0462	89.9	75-125	1.60	20	

**CLIENT:** LJB Engineers & Architects  
**Project:** 09020 Piqua Power Plant

**Lab Order:** 10J1483

**Total Metals by ICP - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1046178 - PREP ICP W**

<b>Post Spike (1046178-PS1)</b>	<b>Source: 10J1494-07</b>			<b>Prepared &amp; Analyzed: 11/10/10</b>						
Aluminum	0.990		mg/L	1.000	-0.00225	99.2	0-200			
Antimony	0.812		mg/L	1.000	-0.00183	81.4	0-200			
Arsenic	0.741		mg/L	1.000	0.00160	73.9	0-200			
Barium	0.898		mg/L	1.000	-0.00140	89.9	0-200			
Beryllium	0.888		mg/L	1.000	-0.000120	88.8	0-200			
Cadmium	0.841		mg/L	1.000	0.000780	84.0	0-200			
Chromium	0.885		mg/L	1.000	-0.000400	88.5	0-200			
Cobalt	0.876		mg/L	1.000	-0.000890	87.7	0-200			
Lead	0.855		mg/L	1.000	0.000370	85.5	0-200			
Nickel	0.873		mg/L	1.000	0.000640	87.2	0-200			
Selenium	0.873		mg/L	1.000	0.00187	87.1	0-200			
Silver	0.919		mg/L	1.000	-0.000330	91.9	0-200			
Vanadium	0.928		mg/L	1.000	-0.000190	92.8	0-200			
Zinc	0.936		mg/L	1.000	0.0462	89.0	0-200			

CLIENT: LJB Engineers & Architects  
 Project: 09020 Piqua Power Plant

Lab Order: 10J1483

**Metals by EPA 6000/7000 Series Methods - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1046228 - PREP GFAA W**

<b>Blank (1046228-BLK1)</b>				Prepared: 11/10/10 Analyzed: 11/11/10						
Thallium	BDL	0.00100	mg/L							
<b>LCS (1046228-BS1)</b>				Prepared: 11/10/10 Analyzed: 11/11/10						
Thallium	0.00982	0.00100	mg/L	0.01000		98	80-120			
<b>LCS Dup (1046228-BSD1)</b>				Prepared: 11/10/10 Analyzed: 11/11/10						
Thallium	0.0104	0.00100	mg/L	0.01000		104	80-120	6	20	
<b>Duplicate (1046228-DUP1)</b>				Source: 10J1482-01		Prepared: 11/10/10 Analyzed: 11/11/10				
Thallium	BDL	0.00100	mg/L		ND				200	
<b>Matrix Spike (1046228-MS1)</b>				Source: 10K0248-01		Prepared: 11/10/10 Analyzed: 11/11/10				
Thallium	0.00986	0.00100	mg/L	0.01000	ND	99	70-130			
<b>Matrix Spike Dup (1046228-MSD1)</b>				Source: 10K0248-01		Prepared: 11/10/10 Analyzed: 11/11/10				
Thallium	0.0101	0.00100	mg/L	0.01000	ND	101	70-130	2	30	
<b>Post Spike (1046228-PS1)</b>				Source: 10K0248-01		Prepared: 11/10/10 Analyzed: 11/11/10				
Thallium	9.80		ug/L	10.00	0.100	97	0-200			

**CLIENT:** LJB Engineers & Architects  
**Project:** 09020 Piqua Power Plant

**Lab Order:** 10J1483

**Mercury Analysis - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1046276 - PREP HG W**

<b>Blank (1046276-BLK1)</b>				Prepared & Analyzed: 11/11/10						
Mercury	BDL	0.000200	mg/L							
<b>LCS (1046276-BS1)</b>				Prepared & Analyzed: 11/11/10						
Mercury	0.00696	0.000200	mg/L	0.007500		93	80-120			
<b>LCS Dup (1046276-BSD1)</b>				Prepared & Analyzed: 11/11/10						
Mercury	0.00720	0.000200	mg/L	0.007500		96	80-120	3	20	
<b>Matrix Spike (1046276-MS1)</b>				<b>Source: 10J1393-22</b>		Prepared & Analyzed: 11/11/10				
Mercury	0.00742	0.000200	mg/L	0.007500	ND	99	70-130			
<b>Matrix Spike Dup (1046276-MSD1)</b>				<b>Source: 10J1393-22</b>		Prepared & Analyzed: 11/11/10				
Mercury	0.00766	0.000200	mg/L	0.007500	ND	102	70-130	3	30	

CLIENT: LJB Engineers & Architects  
 Project: 09020 Piqua Power Plant

Lab Order: 10J1483

**Polychlorinated Biphenyls by EPA Method 8082 - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1045047 - PREP PP W**

**Blank (1045047-BLK1)**

Prepared: 11/01/10 Analyzed: 11/02/10

Aroclor 1016	BDL	0.500	ug/L							
Aroclor 1221	BDL	0.500	ug/L							
Aroclor 1232	BDL	0.500	ug/L							
Aroclor 1242	BDL	0.500	ug/L							
Aroclor 1248	BDL	0.500	ug/L							
Aroclor 1254	BDL	0.500	ug/L							
Aroclor 1260	BDL	0.500	ug/L							
Surrogate: Decachlorobiphenyl	0.670		ug/L	1.000		67.0	36-157			
Surrogate: Tetrachloro-m-xylene	0.810		ug/L	1.000		81.0	28-127			

**LCS (1045047-BS1)**

Prepared: 11/01/10 Analyzed: 11/02/10

Aroclor 1016	19.2	0.500	ug/L	25.00		77.0	50-170			
Aroclor 1260	19.7	0.500	ug/L	25.00		78.9	53-163			
Surrogate: Decachlorobiphenyl	1.02		ug/L	1.000		102	36-157			
Surrogate: Tetrachloro-m-xylene	0.730		ug/L	1.000		73.0	28-127			

**LCS Dup (1045047-BSD1)**

Prepared: 11/01/10 Analyzed: 11/02/10

Aroclor 1016	19.8	0.500	ug/L	25.00		79.0	50-170	2.62	19	
Aroclor 1260	18.5	0.500	ug/L	25.00		73.9	53-163	6.49	22	
Surrogate: Decachlorobiphenyl	0.960		ug/L	1.000		96.0	36-157			
Surrogate: Tetrachloro-m-xylene	0.770		ug/L	1.000		77.0	28-127			

CLIENT: LJB Engineers & Architects  
 Project: 09020 Piqua Power Plant

Lab Order: 10J1483

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1046204 - VOC PREP

Blank (1046204-BLK1)

Prepared & Analyzed: 11/08/10

1,1,1,2-Tetrachloroethane	BDL	5.00	ug/L							
1,1,1-Trichloroethane	BDL	5.00	ug/L							
1,1,2,2-Tetrachloroethane	BDL	5.00	ug/L							
1,1,2-Trichloroethane	BDL	5.00	ug/L							
1,1-Dichloroethane	BDL	5.00	ug/L							
1,1-Dichloroethene	BDL	5.00	ug/L							
1,1-Dichloropropene	BDL	5.00	ug/L							
1,2-Dibromoethane	BDL	5.00	ug/L							
1,2-Dichloroethane	BDL	5.00	ug/L							
1,2-Dichloropropane	BDL	5.00	ug/L							
1,3-Dichloropropane	BDL	5.00	ug/L							
2,2-Dichloropropane	BDL	5.00	ug/L							
2-Butanone	BDL	20.0	ug/L							
2-Chlorotoluene	BDL	5.00	ug/L							
2-Hexanone	BDL	20.0	ug/L							
4-Chlorotoluene	BDL	5.00	ug/L							
4-Methyl-2-pentanone	BDL	20.0	ug/L							
Acetone	BDL	20.0	ug/L							
Acetonitrile	BDL	40.0	ug/L							
Acrolein	BDL	20.0	ug/L							
Acrylonitrile	BDL	20.0	ug/L							
Allyl chloride	BDL	5.00	ug/L							
Benzene	BDL	5.00	ug/L							
Bromobenzene	BDL	5.00	ug/L							
Bromochloromethane	BDL	5.00	ug/L							
Bromodichloromethane	BDL	5.00	ug/L							
Bromoform	BDL	5.00	ug/L							
Bromomethane	BDL	5.00	ug/L							
Carbon Disulfide	BDL	20.0	ug/L							
Carbon Tetrachloride	BDL	5.00	ug/L							
Chlorobenzene	BDL	5.00	ug/L							
Chloroethane	BDL	5.00	ug/L							
Chloroform	BDL	5.00	ug/L							
Chloromethane	BDL	5.00	ug/L							
cis-1,2-Dichloroethene	BDL	5.00	ug/L							
cis-1,3-Dichloropropene	BDL	5.00	ug/L							
Dibromochloromethane	BDL	5.00	ug/L							
Dibromomethane	BDL	5.00	ug/L							
Dichlorodifluoromethane	BDL	5.00	ug/L							
Ethylbenzene	BDL	5.00	ug/L							
Iodomethane	BDL	10.0	ug/L							
Methylene Chloride	BDL	5.00	ug/L							
Methyl tert-Butyl Ether	BDL	10.0	ug/L							
m,p-Xylene	BDL	10.0	ug/L							
n-Hexane	BDL	5.00	ug/L							

CLIENT: LJB Engineers & Architects  
 Project: 09020 Piqua Power Plant

Lab Order: 10J1483

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1046204 - VOC PREP

Blank (1046204-BLK1)

Prepared & Analyzed: 11/08/10

o-Xylene	BDL	5.00	ug/L							
Styrene	BDL	5.00	ug/L							
Tetrachloroethene	BDL	5.00	ug/L							
Toluene	BDL	5.00	ug/L							
trans-1,2-Dichloroethene	BDL	5.00	ug/L							
trans-1,3-Dichloropropene	BDL	5.00	ug/L							
Trichloroethene	BDL	5.00	ug/L							
Trichlorofluoromethane	BDL	5.00	ug/L							
Vinyl Chloride	BDL	1.00	ug/L							
Vinyl acetate	BDL	10.0	ug/L							
<i>Surrogate: 4-Bromofluorobenzene</i>	41.6		ug/L	50.00		83.1	41-140			
<i>Surrogate: Dibromofluoromethane</i>	41.9		ug/L	50.00		83.9	34-158			
<i>Surrogate: Toluene-d8</i>	45.7		ug/L	50.00		91.4	47-147			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	44.2		ug/L	50.00		88.5	29-163			

LCS (1046204-BS1)

Prepared & Analyzed: 11/08/10

1,1,1,2-Tetrachloroethane	17.8	5.00	ug/L	20.00		88.8	78-128			
1,1,1-Trichloroethane	18.4	5.00	ug/L	20.00		92.0	70-135			
1,1,2,2-Tetrachloroethane	15.2	5.00	ug/L	20.00		75.8	68-135			
1,1,2-Trichloroethane	16.9	5.00	ug/L	20.00		84.5	74-131			
1,1-Dichloroethane	16.6	5.00	ug/L	20.00		83.2	72-134			
1,1-Dichloroethene	16.2	5.00	ug/L	20.00		80.9	62-143			
1,1-Dichloropropene	18.1	5.00	ug/L	20.00		90.4	82-128			
1,2-Dibromoethane	16.4	5.00	ug/L	20.00		82.2	67-132			
1,2-Dichloroethane	16.3	5.00	ug/L	20.00		81.4	72-131			
1,2-Dichloropropane	18.1	5.00	ug/L	20.00		90.6	75-128			
1,3-Dichloropropane	16.2	5.00	ug/L	20.00		81.0	73-130			
2,2-Dichloropropane	17.4	5.00	ug/L	20.00		87.2	45-173			
2-Butanone	45.7	20.0	ug/L	80.00		57.2	42-140			
2-Chlorotoluene	18.8	5.00	ug/L	20.00		94.2	76-126			
2-Hexanone	55.4	20.0	ug/L	80.00		69.3	18-178			
4-Chlorotoluene	18.8	5.00	ug/L	20.00		93.8	77-132			
4-Methyl-2-pentanone	64.3	20.0	ug/L	80.00		80.4	42-160			
Acetone	52.5	20.0	ug/L	80.00		65.6	30-173			
Acetonitrile	12.9	40.0	ug/L	20.00		64.6	58-150			
Acrylonitrile	14.0	20.0	ug/L	20.00		70.0	64-153			
Allyl chloride	15.4	5.00	ug/L	20.00		77.2	67-149			
Benzene	18.3	5.00	ug/L	20.00		91.6	77-126			
Bromobenzene	19.4	5.00	ug/L	20.00		96.8	72-131			
Bromochloromethane	16.3	5.00	ug/L	20.00		81.4	71-135			
Bromodichloromethane	17.4	5.00	ug/L	20.00		87.2	78-129			
Bromoform	16.8	5.00	ug/L	20.00		83.8	69-135			
Bromomethane	38.0	5.00	ug/L	20.00		190	14-193			
Carbon Disulfide	16.3	20.0	ug/L	20.00		81.7	54-150			
Carbon Tetrachloride	18.2	5.00	ug/L	20.00		91.0	67-138			



CLIENT: LJB Engineers & Architects  
 Project: 09020 Piqua Power Plant

Lab Order: 10J1483

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1046204 - VOC PREP

LCS (1046204-BS1)

Prepared & Analyzed: 11/08/10

Chlorobenzene	19.1	5.00	ug/L	20.00		95.6	77-125			
Chloroethane	46.4	5.00	ug/L	20.00		232	27-170			L
Chloroform	16.6	5.00	ug/L	20.00		83.0	73-136			
Chloromethane	34.6	5.00	ug/L	20.00		173	44-145			L
cis-1,2-Dichloroethene	16.5	5.00	ug/L	20.00		82.4	77-137			
cis-1,3-Dichloropropene	18.6	5.00	ug/L	20.00		93.0	70-133			
Dibromochloromethane	16.8	5.00	ug/L	20.00		83.8	68-131			
Dibromomethane	16.9	5.00	ug/L	20.00		84.6	74-129			
Dichlorodifluoromethane	44.5	5.00	ug/L	20.00		223	41-145			L
Ethylbenzene	18.7	5.00	ug/L	20.00		93.5	79-126			
Iodomethane	23.4	10.0	ug/L	20.00		117	52-150			
Methylene Chloride	16.2	5.00	ug/L	20.00		81.1	43-162			
Methyl tert-Butyl Ether	13.2	10.0	ug/L	20.00		65.8	63-134			
m,p-Xylene	39.2	10.0	ug/L	40.00		98.0	82-132			
n-Hexane	20.8	5.00	ug/L	21.20		98.0	10-216			
o-Xylene	20.1	5.00	ug/L	20.00		101	81-128			
Styrene	19.8	5.00	ug/L	20.00		98.8	81-129			
Tetrachloroethene	20.9	5.00	ug/L	20.00		105	43-152			
Toluene	19.4	5.00	ug/L	20.00		96.8	79-128			
trans-1,2-Dichloroethene	17.0	5.00	ug/L	20.00		84.9	60-144			
trans-1,3-Dichloropropene	18.4	5.00	ug/L	20.00		92.2	67-138			
Trichloroethene	18.6	5.00	ug/L	20.00		92.8	74-132			
Trichlorofluoromethane	25.8	5.00	ug/L	20.00		129	48-170			
Vinyl Chloride	37.2	1.00	ug/L	20.00		186	60-143			L
Vinyl acetate	11.1	10.0	ug/L	20.00		55.4	16-196			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>41.7</i>		<i>ug/L</i>	<i>50.00</i>		<i>83.3</i>	<i>41-140</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>39.5</i>		<i>ug/L</i>	<i>50.00</i>		<i>79.0</i>	<i>34-158</i>			
<i>Surrogate: Toluene-d8</i>	<i>46.4</i>		<i>ug/L</i>	<i>50.00</i>		<i>92.9</i>	<i>47-147</i>			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>38.2</i>		<i>ug/L</i>	<i>50.00</i>		<i>76.4</i>	<i>29-163</i>			

CLIENT: LJB Engineers & Architects  
 Project: 09020 Piqua Power Plant

Lab Order: 10J1483

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 1046204 - VOC PREP</b>										
<b>LCS Dup (1046204-BS1)</b>				Prepared & Analyzed: 11/08/10						
1,1,1,2-Tetrachloroethane	18.3	5.00	ug/L	20.00		91.3	78-128	2.78	16	
1,1,1-Trichloroethane	19.0	5.00	ug/L	20.00		95.0	70-135	3.10	20	
1,1,2,2-Tetrachloroethane	16.0	5.00	ug/L	20.00		79.8	68-135	5.01	19	
1,1,2-Trichloroethane	18.0	5.00	ug/L	20.00		90.1	74-131	6.41	16	
1,1-Dichloroethane	17.0	5.00	ug/L	20.00		85.2	72-134	2.32	19	
1,1-Dichloroethene	16.4	5.00	ug/L	20.00		81.8	62-143	1.11	20	
1,1-Dichloropropene	19.1	5.00	ug/L	20.00		95.3	82-128	5.22	18	
1,2-Dibromoethane	17.2	5.00	ug/L	20.00		86.0	67-132	4.52	13	
1,2-Dichloroethane	17.4	5.00	ug/L	20.00		87.1	72-131	6.83	16	
1,2-Dichloropropane	18.5	5.00	ug/L	20.00		92.6	75-128	2.13	19	
1,3-Dichloropropane	17.4	5.00	ug/L	20.00		87.2	73-130	7.43	13	
2,2-Dichloropropane	18.1	5.00	ug/L	20.00		90.6	45-173	3.88	25	
2-Butanone	50.8	20.0	ug/L	80.00		63.5	42-140	10.5	18	
2-Chlorotoluene	18.6	5.00	ug/L	20.00		93.2	76-126	1.07	20	
2-Hexanone	62.5	20.0	ug/L	80.00		78.2	18-178	12.1	17	
4-Chlorotoluene	18.5	5.00	ug/L	20.00		92.6	77-132	1.34	22	
4-Methyl-2-pentanone	71.3	20.0	ug/L	80.00		89.1	42-160	10.3	67	
Acetone	56.3	20.0	ug/L	80.00		70.4	30-173	7.09	24	
Acetonitrile	11.1	40.0	ug/L	20.00		55.3	58-150	15.4	25	L
Acrylonitrile	14.2	20.0	ug/L	20.00		71.2	64-153	1.56	20	
Allyl chloride	15.5	5.00	ug/L	20.00		77.5	67-149	0.453	16	
Benzene	18.8	5.00	ug/L	20.00		94.2	77-126	2.80	19	
Bromobenzene	19.5	5.00	ug/L	20.00		97.3	72-131	0.567	20	
Bromochloromethane	17.1	5.00	ug/L	20.00		85.6	71-135	4.97	16	
Bromodichloromethane	18.2	5.00	ug/L	20.00		90.8	78-129	3.99	17	
Bromoform	18.5	5.00	ug/L	20.00		92.5	69-135	9.87	18	
Bromomethane	38.0	5.00	ug/L	20.00		190	14-193	0.0789	28	
Carbon Disulfide	16.5	20.0	ug/L	20.00		82.7	54-150	1.22	19	
Carbon Tetrachloride	18.3	5.00	ug/L	20.00		91.5	67-138	0.603	21	
Chlorobenzene	19.3	5.00	ug/L	20.00		96.5	77-125	0.885	19	
Chloroethane	43.2	5.00	ug/L	20.00		216	27-170	7.08	64	L
Chloroform	17.2	5.00	ug/L	20.00		86.2	73-136	3.72	19	
Chloromethane	34.2	5.00	ug/L	20.00		171	44-145	1.16	26	L
cis-1,2-Dichloroethene	16.9	5.00	ug/L	20.00		84.5	77-137	2.58	17	
cis-1,3-Dichloropropene	19.5	5.00	ug/L	20.00		97.3	70-133	4.52	19	
Dibromochloromethane	18.0	5.00	ug/L	20.00		89.9	68-131	6.96	18	
Dibromomethane	18.0	5.00	ug/L	20.00		90.0	74-129	6.24	16	
Dichlorodifluoromethane	45.9	5.00	ug/L	20.00		229	41-145	3.01	15	L
Ethylbenzene	18.7	5.00	ug/L	20.00		93.6	79-126	0.107	20	
Iodomethane	24.1	10.0	ug/L	20.00		121	52-150	3.33	25	
Methylene Chloride	16.6	5.00	ug/L	20.00		83.1	43-162	2.44	28	
Methyl tert-Butyl Ether	14.5	10.0	ug/L	20.00		72.5	63-134	9.61	20	
m,p-Xylene	38.8	10.0	ug/L	40.00		97.0	82-132	1.08	18	
n-Hexane	21.1	5.00	ug/L	21.20		99.6	10-216	1.62	64	
o-Xylene	20.0	5.00	ug/L	20.00		100	81-128	0.499	19	

CLIENT: LJB Engineers & Architects  
 Project: 09020 Piqua Power Plant

Lab Order: 10J1483

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1046204 - VOC PREP

LCS Dup (1046204-BSD1)

Prepared & Analyzed: 11/08/10

Styrene	19.8	5.00	ug/L	20.00		99.2	81-129	0.454	17	
Tetrachloroethene	21.2	5.00	ug/L	20.00		106	43-152	1.14	29	
Toluene	19.4	5.00	ug/L	20.00		97.2	79-128	0.361	19	
trans-1,2-Dichloroethene	17.6	5.00	ug/L	20.00		88.1	60-144	3.70	20	
trans-1,3-Dichloropropene	19.7	5.00	ug/L	20.00		98.6	67-138	6.66	17	
Trichloroethene	18.9	5.00	ug/L	20.00		94.5	74-132	1.76	20	
Trichlorofluoromethane	26.2	5.00	ug/L	20.00		131	48-170	1.42	50	
Vinyl Chloride	34.9	1.00	ug/L	20.00		175	60-143	6.37	19	L
Vinyl acetate	11.9	10.0	ug/L	20.00		59.5	16-196	7.05	45	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>42.4</i>		<i>ug/L</i>	<i>50.00</i>		<i>84.8</i>	<i>41-140</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>40.8</i>		<i>ug/L</i>	<i>50.00</i>		<i>81.6</i>	<i>34-158</i>			
<i>Surrogate: Toluene-d8</i>	<i>46.4</i>		<i>ug/L</i>	<i>50.00</i>		<i>92.8</i>	<i>47-147</i>			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>39.9</i>		<i>ug/L</i>	<i>50.00</i>		<i>79.8</i>	<i>29-163</i>			

CLIENT: LJB Engineers & Architects  
 Project: 09020 Piqua Power Plant

Lab Order: 10J1483

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1045160 - PREP SVOC W

Blank (1045160-BLK1)

Prepared: 11/03/10 Analyzed: 11/05/10

2-Methylnaphthalene	BDL	10.0	ug/L							
Acenaphthene	BDL	10.0	ug/L							
Acenaphthylene	BDL	10.0	ug/L							
Anthracene	BDL	10.0	ug/L							
Benz(a)anthracene	BDL	0.260	ug/L							
Benzo(a)pyrene	BDL	0.200	ug/L							
Benzo(b)fluoranthene	BDL	0.170	ug/L							
Benzo(g,h,i)perylene	BDL	10.0	ug/L							
Benzo(k)fluoranthene	BDL	1.70	ug/L							
Chrysene	BDL	10.0	ug/L							
Dibenz(a,h)anthracene	BDL	0.100	ug/L							
Fluoranthene	BDL	10.0	ug/L							
Fluorene	BDL	10.0	ug/L							
Indeno(1,2,3-cd)pyrene	BDL	0.220	ug/L							
Naphthalene	BDL	1.00	ug/L							
Phenanthrene	BDL	10.0	ug/L							
Pyrene	BDL	10.0	ug/L							
Surrogate: Nitrobenzene-d5	28.5		ug/L	40.00		71.2	50-125			
Surrogate: 2-Fluorobiphenyl	25.7		ug/L	40.00		64.2	50-120			
Surrogate: Terphenyl-d14	21.3		ug/L	40.00		53.2	30-150			

LCS (1045160-BS1)

Prepared: 11/03/10 Analyzed: 11/05/10

Acenaphthene	97.0	10.0	ug/L	100.0		97.0	65-110			
Acenaphthylene	93.2	10.0	ug/L	100.0		93.2	45-120			
Anthracene	93.3	10.0	ug/L	100.0		93.3	50-120			
Benz(a)anthracene	87.8	0.260	ug/L	100.0		87.8	65-125			
Benzo(a)pyrene	92.9	0.200	ug/L	100.0		92.9	40-150			
Benzo(b)fluoranthene	82.6	0.170	ug/L	100.0		82.6	30-165			
Benzo(g,h,i)perylene	93.5	10.0	ug/L	100.0		93.5	40-175			
Benzo(k)fluoranthene	113	1.70	ug/L	100.0		113	35-125			
Chrysene	98.7	10.0	ug/L	100.0		98.7	60-125			
Dibenz(a,h)anthracene	97.4	0.100	ug/L	100.0		97.4	30-180			
Fluoranthene	101	10.0	ug/L	100.0		101	55-125			
Fluorene	104	10.0	ug/L	100.0		104	60-120			
Indeno(1,2,3-cd)pyrene	83.4	0.220	ug/L	100.0		83.4	40-180			
Naphthalene	102	1.00	ug/L	100.0		102	40-115			
Phenanthrene	105	10.0	ug/L	100.0		105	50-115			
Pyrene	89.9	10.0	ug/L	100.0		89.9	55-130			
Surrogate: Nitrobenzene-d5	26.9		ug/L	40.00		67.2	50-125			
Surrogate: 2-Fluorobiphenyl	25.1		ug/L	40.00		62.8	50-120			
Surrogate: Terphenyl-d14	20.5		ug/L	40.00		51.3	30-150			

CLIENT: LJB Engineers & Architects  
 Project: 09020 Piqua Power Plant

Lab Order: 10J1483

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1045160 - PREP SVOC W

LCS Dup (1045160-BSD1)

Prepared: 11/03/10 Analyzed: 11/05/10

Acenaphthene	95.6	10.0	ug/L	100.0		95.6	65-110	1.50	15	
Acenaphthylene	92.4	10.0	ug/L	100.0		92.4	45-120	0.862	15	
Anthracene	92.0	10.0	ug/L	100.0		92.0	50-120	1.38	18	
Benz(a)anthracene	88.5	0.260	ug/L	100.0		88.5	65-125	0.817	20	
Benzo(a)pyrene	94.4	0.200	ug/L	100.0		94.4	40-150	1.57	20	
Benzo(b)fluoranthene	71.0	0.170	ug/L	100.0		71.0	30-165	15.1	30	
Benzo(g,h,i)perylene	96.6	10.0	ug/L	100.0		96.6	40-175	3.17	20	
Benzo(k)fluoranthene	106	1.70	ug/L	100.0		106	35-125	7.08	30	
Chrysene	106	10.0	ug/L	100.0		106	60-125	6.98	20	
Dibenz(a,h)anthracene	97.2	0.100	ug/L	100.0		97.2	30-180	0.175	20	
Fluoranthene	90.8	10.0	ug/L	100.0		90.8	55-125	10.6	15	
Fluorene	96.6	10.0	ug/L	100.0		96.6	60-120	7.29	15	
Indeno(1,2,3-cd)pyrene	81.8	0.220	ug/L	100.0		81.8	40-180	1.99	30	
Naphthalene	98.6	1.00	ug/L	100.0		98.6	40-115	3.70	14	
Phenanthrene	110	10.0	ug/L	100.0		110	50-115	4.85	18	
Pyrene	102	10.0	ug/L	100.0		102	55-130	12.6	20	
Surrogate: Nitrobenzene-d5	27.0		ug/L	40.00		67.6	50-125			
Surrogate: 2-Fluorobiphenyl	24.8		ug/L	40.00		62.0	50-120			
Surrogate: Terphenyl-d14	21.7		ug/L	40.00		54.2	30-150			

**CLIENT:** LJB Engineers & Architects  
**Project:** 09020 Piqua Power Plant

**Lab Order:** 10J1483

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**Notes and Definitions**

- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- R RPD outside of accepted recovery limits.
- L Laboratory control sample recovery outside of acceptance limits high, sample results are below detection limits. Sample data is still acceptable.
- A-01 BSD Acceptable

Sample preservation was met unless otherwise noted.