



Wednesday, June 1, 2011
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: 11E1083

Belmont Labs received 2 sample(s) on 5/20/2011 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

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

CLIENT: LJB Engineers & Architects
Project: 09020 Piqua Power Plant**Lab Order:** 11E1083

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Sampled Date	Received Date
11E1083-01A	MW-3s	5/19/2011 2:50:00PM	5/20/2011
11E1083-02A	MW-4s	5/19/2011 4:50:00PM	5/20/2011

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

Lab Order: 11E1083

Lab ID: 11E1083-01
Client Sample ID: MW-3s

Collection Date: 5/19/2011 2:50:00PM
Matrix: Groundwater

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
PAH_FULL_8270							Analyst: mbg
2-Methylnaphthalene	BDL	10.0		ug/L	1	1122093	5/31/2011 1:06:00PM
Acenaphthene	BDL	10.0		ug/L	1	1122093	5/31/2011 1:06:00PM
Acenaphthylene	BDL	10.0		ug/L	1	1122093	5/31/2011 1:06:00PM
Anthracene	BDL	10.0		ug/L	1	1122093	5/31/2011 1:06:00PM
Benz(a)anthracene	BDL	0.260		ug/L	1	1122093	5/31/2011 1:06:00PM
Benzo(a)pyrene	BDL	0.200		ug/L	1	1122093	5/31/2011 1:06:00PM
Benzo(b)fluoranthene	BDL	0.170		ug/L	1	1122093	5/31/2011 1:06:00PM
Benzo(g,h,i)perylene	BDL	10.0		ug/L	1	1122093	5/31/2011 1:06:00PM
Benzo(k)fluoranthene	BDL	1.70		ug/L	1	1122093	5/31/2011 1:06:00PM
Chrysene	BDL	10.0		ug/L	1	1122093	5/31/2011 1:06:00PM
Dibenz(a,h)anthracene	BDL	0.100		ug/L	1	1122093	5/31/2011 1:06:00PM
Fluoranthene	BDL	10.0		ug/L	1	1122093	5/31/2011 1:06:00PM
Fluorene	BDL	10.0		ug/L	1	1122093	5/31/2011 1:06:00PM
Indeno(1,2,3-cd)pyrene	BDL	0.220		ug/L	1	1122093	5/31/2011 1:06:00PM
Naphthalene	BDL	1.00		ug/L	1	1122093	5/31/2011 1:06:00PM
Phenanthrene	BDL	10.0		ug/L	1	1122093	5/31/2011 1:06:00PM
Pyrene	BDL	10.0		ug/L	1	1122093	5/31/2011 1:06:00PM
<i>Surrogate: Nitrobenzene-d5</i>		52.2 %		50-125		1122093	5/31/2011 1:06:00PM
<i>Surrogate: 2-Fluorobiphenyl</i>		77.2 %		50-120		1122093	5/31/2011 1:06:00PM
<i>Surrogate: Terphenyl-d14</i>		47.4 %		30-150		1122093	5/31/2011 1:06:00PM

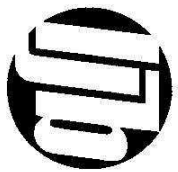
CLIENT: LJB Engineers & Architects
 Project: 09020 Piqua Power Plant

Lab Order: 11E1083

Lab ID: 11E1083-02
 Client Sample ID: MW-4s

Collection Date: 5/19/2011 4:50:00PM
 Matrix: Groundwater

Analysis	Result	PQL	Qual	Units	Dilution	Batch	Date Analyzed
PAH_FULL_8270							Analyst: mbg
2-Methylnaphthalene	BDL	10.0		ug/L	1	1122093	5/25/2011 11:21:00PM
Acenaphthene	BDL	10.0		ug/L	1	1122093	5/25/2011 11:21:00PM
Acenaphthylene	BDL	10.0		ug/L	1	1122093	5/25/2011 11:21:00PM
Anthracene	BDL	10.0		ug/L	1	1122093	5/25/2011 11:21:00PM
Benz(a)anthracene	BDL	0.260		ug/L	1	1122093	5/25/2011 11:21:00PM
Benzo(a)pyrene	BDL	0.200		ug/L	1	1122093	5/25/2011 11:21:00PM
Benzo(b)fluoranthene	BDL	0.170		ug/L	1	1122093	5/25/2011 11:21:00PM
Benzo(g,h,i)perylene	BDL	10.0		ug/L	1	1122093	5/25/2011 11:21:00PM
Benzo(k)fluoranthene	BDL	1.70		ug/L	1	1122093	5/25/2011 11:21:00PM
Chrysene	BDL	10.0		ug/L	1	1122093	5/25/2011 11:21:00PM
Dibenz(a,h)anthracene	BDL	0.100		ug/L	1	1122093	5/25/2011 11:21:00PM
Fluoranthene	BDL	10.0		ug/L	1	1122093	5/25/2011 11:21:00PM
Fluorene	BDL	10.0		ug/L	1	1122093	5/25/2011 11:21:00PM
Indeno(1,2,3-cd)pyrene	BDL	0.220		ug/L	1	1122093	5/25/2011 11:21:00PM
Naphthalene	BDL	1.00		ug/L	1	1122093	5/25/2011 11:21:00PM
Phenanthrene	BDL	10.0		ug/L	1	1122093	5/25/2011 11:21:00PM
Pyrene	BDL	10.0		ug/L	1	1122093	5/25/2011 11:21:00PM
Surrogate: Nitrobenzene-d5		71.8 %		50-125		1122093	5/25/2011 11:21:00PM
Surrogate: 2-Fluorobiphenyl		68.5 %		50-120		1122093	5/25/2011 11:21:00PM
Surrogate: Terphenyl-d14		40.8 %		30-150		1122093	5/25/2011 11:21:00PM



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Dayton, Ohio 45420-0246
(937) 259-5000 tel • (937) 259-5100 fax • ljblnc.com

ANALYTICAL SERVICES REQUEST AND CHAIN OF CUSTODY

SEND TO LJB:

INVOICE
 RESULTS

CONTACT:

ADDRESS:

Same

SEND TO:

INVOICE
 RESULTS

CONTACT: Mark Aultman

ADDRESS: Brown Field

PHONE: Same

FAX: Same

PHONE:

FAX:

ANALYSIS REQUESTED

REMARKS

LJB Job #: *gva Power Plant* PO#:

SAMPLE SITE: *gva Power Plant*

SAMPLED BY: *Ed Council*

SIGNATURE: *Ed Council*

RUSH
 PHONE RESULTS

STANDARD TURNAROUND
 FAX RESULTS

NEED BY:

SPECIAL INSTRUCTIONS:

VAP Reduce

PAHs 8270

VAP

Reduce due to Belmont QA/QC issues

SAMPLE ID	DATE	TIME	MATRIX	COMP	GRAB	# BTLs
MW-3s	5-19	2:50p	w		✓	1
MW-4s	5-19	4:50p	w		✓	1

DATE/TIME	RECEIVED BY
<i>5/20/11 8:30p</i>	<i>See SR</i>
<i>5-20-11 1425</i>	<i>LAS</i>

REINQUISHED BY: *See SR*

DATE/TIME: *5/20/11 8:30p*

RECEIVED BY: *See SR*

DATE/TIME: *5-20-11 1320*

REINQUISHED BY: *See SR*

DATE/TIME: *5-20-11 1425*

RECEIVED BY: *LAS*

DATE/TIME:

REINQUISHED BY:

DATE/TIME:

RECEIVED AT LAB BY:

DATE/TIME:

Wp 11E 10823

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

Lab Order: 11E1083

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 1122093 - PREP SVOC W

Blank (1122093-BLK1)

Prepared: 05/24/11 Analyzed: 05/25/11

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	33.3		ug/L	40.00		83.2	50-125			
Surrogate: 2-Fluorobiphenyl	27.0		ug/L	40.00		67.5	50-120			
Surrogate: Terphenyl-d14	29.2		ug/L	40.00		72.9	30-150			

LCS (1122093-BS1)

Prepared: 05/24/11 Analyzed: 05/25/11

Acenaphthene	75.4	10.0	ug/L	100.0		75.4	65-110			
Acenaphthylene	72.4	10.0	ug/L	100.0		72.4	45-120			
Anthracene	73.8	10.0	ug/L	100.0		73.8	50-120			
Benz(a)anthracene	90.1	0.260	ug/L	100.0		90.1	65-125			
Benzo(a)pyrene	83.5	0.200	ug/L	100.0		83.5	40-150			
Benzo(b)fluoranthene	78.7	0.170	ug/L	100.0		78.7	30-165			
Benzo(g,h,i)perylene	73.0	10.0	ug/L	100.0		73.0	40-175			
Benzo(k)fluoranthene	62.5	1.70	ug/L	100.0		62.5	35-125			
Chrysene	85.6	10.0	ug/L	100.0		85.6	60-125			
Dibenz(a,h)anthracene	80.0	0.100	ug/L	100.0		80.0	30-180			
Fluoranthene	70.5	10.0	ug/L	100.0		70.5	55-125			
Fluorene	77.7	10.0	ug/L	100.0		77.7	60-120			
Indeno(1,2,3-cd)pyrene	80.8	0.220	ug/L	100.0		80.8	40-180			
Naphthalene	61.3	1.00	ug/L	100.0		61.3	40-115			
Phenanthrene	81.1	10.0	ug/L	100.0		81.1	50-115			
Pyrene	79.8	10.0	ug/L	100.0		79.8	55-130			
Surrogate: Nitrobenzene-d5	33.5		ug/L	40.00		83.8	50-125			
Surrogate: 2-Fluorobiphenyl	31.7		ug/L	40.00		79.3	50-120			
Surrogate: Terphenyl-d14	30.9		ug/L	40.00		77.2	30-150			

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

Lab Order: 11E1083

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 1122093 - PREP SVOC W

LCS Dup (1122093-BSD1)

Prepared: 05/24/11 Analyzed: 05/25/11

Acenaphthene	76.4	10.0	ug/L	100.0		76.4	65-110	1.28	15	
Acenaphthylene	72.4	10.0	ug/L	100.0		72.4	45-120	0.0552	15	
Anthracene	73.3	10.0	ug/L	100.0		73.3	50-120	0.612	18	
Benz(a)anthracene	90.2	0.260	ug/L	100.0		90.2	65-125	0.0555	20	
Benzo(a)pyrene	84.6	0.200	ug/L	100.0		84.6	40-150	1.30	20	
Benzo(b)fluoranthene	75.6	0.170	ug/L	100.0		75.6	30-165	3.98	30	
Benzo(g,h,i)perylene	76.9	10.0	ug/L	100.0		76.9	40-175	5.18	20	
Benzo(k)fluoranthene	61.7	1.70	ug/L	100.0		61.7	35-125	1.34	30	
Chrysene	84.5	10.0	ug/L	100.0		84.5	60-125	1.35	20	
Dibenz(a,h)anthracene	82.9	0.100	ug/L	100.0		82.9	30-180	3.65	20	
Fluoranthene	70.6	10.0	ug/L	100.0		70.6	55-125	0.0851	15	
Fluorene	78.7	10.0	ug/L	100.0		78.7	60-120	1.28	15	
Indeno(1,2,3-cd)pyrene	85.3	0.220	ug/L	100.0		85.3	40-180	5.37	30	
Naphthalene	62.1	1.00	ug/L	100.0		62.1	40-115	1.25	14	
Phenanthrene	80.6	10.0	ug/L	100.0		80.6	50-115	0.594	18	
Pyrene	77.8	10.0	ug/L	100.0		77.8	55-130	2.56	20	
Surrogate: Nitrobenzene-d5	34.6		ug/L	40.00		86.5	50-125			
Surrogate: 2-Fluorobiphenyl	32.8		ug/L	40.00		82.1	50-120			
Surrogate: Terphenyl-d14	31.1		ug/L	40.00		77.8	30-150			

Matrix Spike (1122093-MS1)

Source: 11E1083-02

Prepared: 05/24/11 Analyzed: 05/26/11

2-Methylnaphthalene	72.9	10.0	ug/L	100.0	ND	72.9	0-200			
Acenaphthene	78.8	10.0	ug/L	100.0	ND	78.8	70-130			
Acenaphthylene	78.1	10.0	ug/L	100.0	ND	78.1	70-130			
Anthracene	72.9	10.0	ug/L	100.0	ND	72.9	70-130			
Benz(a)anthracene	82.9	0.260	ug/L	100.0	ND	82.9	70-130			
Benzo(a)pyrene	77.4	0.200	ug/L	100.0	ND	77.4	70-130			
Benzo(b)fluoranthene	68.5	0.170	ug/L	100.0	ND	68.5	70-130			M
Benzo(g,h,i)perylene	71.6	10.0	ug/L	100.0	ND	71.6	70-130			
Benzo(k)fluoranthene	58.7	1.70	ug/L	100.0	ND	58.7	0-200			
Chrysene	81.6	10.0	ug/L	100.0	ND	81.6	70-130			
Dibenz(a,h)anthracene	77.3	0.100	ug/L	100.0	ND	77.3	70-130			
Fluoranthene	70.6	10.0	ug/L	100.0	ND	70.6	70-130			
Fluorene	81.1	10.0	ug/L	100.0	ND	81.1	70-130			
Indeno(1,2,3-cd)pyrene	78.5	0.220	ug/L	100.0	ND	78.5	70-130			
Naphthalene	69.4	1.00	ug/L	100.0	ND	69.4	70-130			M
Phenanthrene	81.2	10.0	ug/L	100.0	ND	81.2	70-130			
Pyrene	80.9	10.0	ug/L	100.0	ND	80.9	70-130			
Surrogate: Nitrobenzene-d5	32.2		ug/L	40.00		80.4	50-125			
Surrogate: 2-Fluorobiphenyl	35.3		ug/L	40.00		88.2	50-120			
Surrogate: Terphenyl-d14	21.3		ug/L	40.00		53.4	30-150			

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

Lab Order: 11E1083

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 1122093 - PREP SVOC W

Matrix Spike Dup (1122093-MSD1)

Source: 11E1083-02

Prepared: 05/24/11 Analyzed: 05/26/11

2-Methylnaphthalene	73.2	10.0	ug/L	100.0	ND	73.2	0-200	0.370	200	
Acenaphthene	78.4	10.0	ug/L	100.0	ND	78.4	70-130	0.572	20	
Acenaphthylene	78.1	10.0	ug/L	100.0	ND	78.1	70-130	0.0128	20	
Anthracene	76.3	10.0	ug/L	100.0	ND	76.3	70-130	4.52	20	
Benz(a)anthracene	86.5	0.260	ug/L	100.0	ND	86.5	70-130	4.23	20	
Benzo(a)pyrene	81.1	0.200	ug/L	100.0	ND	81.1	70-130	4.75	20	
Benzo(b)fluoranthene	72.9	0.170	ug/L	100.0	ND	72.9	70-130	6.32	20	
Benzo(g,h,i)perylene	71.4	10.0	ug/L	100.0	ND	71.4	70-130	0.196	20	
Benzo(k)fluoranthene	60.2	1.70	ug/L	100.0	ND	60.2	0-200	2.62	200	
Chrysene	83.4	10.0	ug/L	100.0	ND	83.4	70-130	2.24	20	
Dibenz(a,h)anthracene	78.6	0.100	ug/L	100.0	ND	78.6	70-130	1.63	20	
Fluoranthene	74.4	10.0	ug/L	100.0	ND	74.4	70-130	5.34	20	
Fluorene	82.4	10.0	ug/L	100.0	ND	82.4	70-130	1.68	20	
Indeno(1,2,3-cd)pyrene	80.3	0.220	ug/L	100.0	ND	80.3	70-130	2.22	20	
Naphthalene	71.5	1.00	ug/L	100.0	ND	71.5	70-130	3.04	20	
Phenanthrene	83.3	10.0	ug/L	100.0	ND	83.3	70-130	2.59	20	
Pyrene	77.8	10.0	ug/L	100.0	ND	77.8	70-130	3.91	20	
Surrogate: Nitrobenzene-d5	34.9		ug/L	40.00		87.3	50-125			
Surrogate: 2-Fluorobiphenyl	35.4		ug/L	40.00		88.6	50-120			
Surrogate: Terphenyl-d14	22.5		ug/L	40.00		56.2	30-150			

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

Lab Order: 11E1083

Notes and Definitions

M Matrix spike and/or matrix spike duplicate recovery outside of acceptance limits.

Sample preservation was met unless otherwise noted.