



**PDC Laboratories, Inc.**

3278 N Highway 67 • Florissant, MO 63033  
(314) 432-0550 • (800) 333-FAST • FAX (314) 432-4977



Bridgeton Landfill  
13570 St Charles Rock Road  
Bridgeton, MO 63044  
Attn: Accounts Payable

Date Received: 08/02/13 16:20  
Report Date: 08/05/13  
Customer #: 277310

**\*Laboratory Results\***

Sample No: **3080299-01**  
Sample Description: **BL-PC-08-02-13**

Collect Date: **08/02/13 15:08**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b><u>Anions - STL</u></b>					
Chloride	5500 mg/L		08/05/13 08:05	DWM	EPA 300.0 R2.1 04KS
Sulfate	850 mg/L		08/05/13 08:29	DWM	EPA 300.0 R2.1 04KS
<b><u>General Chemistry - STL</u></b>					
Alkalinity - total as CaCO3	13000 mg/L		08/05/13 12:00	ACV	SM 2320B 18Ed*
<b><u>Nutrients - STL</u></b>					
Phosphorus - total as P	< 0.25 mg/L		08/05/13 13:00	ACV	SM 4500P B E 04KS 18ed
<b><u>Total Metals - STL</u></b>					
Aluminum	17 mg/L		08/02/13 17:56	WPS	EPA 200.7 R4.4*
Mercury	0.023 mg/L		08/05/13 12:03	WPS	EPA 245.1 R3.0 / SW 7470A 04KS
Antimony	< 0.20 mg/L		08/02/13 17:56	WPS	EPA 200.7 R4.4 04KS
Arsenic	0.32 mg/L		08/02/13 17:56	WPS	EPA 200.7 R4.4 04KS
Barium	3.4 mg/L		08/02/13 17:56	WPS	EPA 200.7 R4.4 04KS
Beryllium	< 0.020 mg/L		08/02/13 17:56	WPS	EPA 200.7 R4.4 04KS
Hardness	13000 mg/L		08/05/13 12:03	WPS	SM 2340B
Cadmium	0.058 mg/L		08/02/13 17:56	WPS	EPA 200.7 R4.4 04KS
Calcium	4700 mg/L	E, X	08/05/13 12:03	WPS	EPA 200.7 R4.4 04KS
Chromium	0.29 mg/L		08/02/13 17:56	WPS	EPA 200.7 R4.4 04KS
Cobalt	0.094 mg/L		08/02/13 17:56	WPS	EPA 200.7 R4.4 04KS
Copper	0.061 mg/L		08/02/13 17:56	WPS	EPA 200.7 R4.4 04KS
Iron	960 mg/L		08/02/13 17:56	WPS	EPA 200.7 R4.4 04KS
Lead	0.22 mg/L		08/02/13 17:56	WPS	EPA 200.7 R4.4 04KS
Magnesium	370 mg/L		08/02/13 17:56	WPS	EPA 200.7 R4.4 04KS
Manganese	62 mg/L		08/02/13 17:56	WPS	EPA 200.7 R4.4 04KS
Nickel	0.14 mg/L		08/02/13 17:56	WPS	EPA 200.7 R4.4 04KS
Selenium	< 0.20 mg/L		08/02/13 17:56	WPS	EPA 200.7 R4.4 04KS
Silver	< 0.040 mg/L		08/02/13 17:56	WPS	EPA 200.7 R4.4 04KS
Sodium	7200 mg/L	Q4	08/05/13 12:03	WPS	EPA 200.7 R4.4*
Thallium	< 0.40 mg/L		08/02/13 17:56	WPS	EPA 200.7 R4.4 04KS
Zinc	13 mg/L		08/02/13 17:56	WPS	EPA 200.7 R4.4 04KS



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**General Chemistry - Quality Control**

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>Batch B313077 - 04-No Prep WC</b>								
<b>Blank (B313077-BLK1)</b>			Prepared & Analyzed: 08/05/13					
Alkalinity - total as CaCO3	< 2.0	mg/L						
<b>LCS (B313077-BS1)</b>			Prepared & Analyzed: 08/05/13					
Alkalinity - total as CaCO3	100	mg/L	100.0		100	90-110		
<b>Duplicate (B313077-DUP1)</b>			Prepared & Analyzed: 08/05/13					
	<b>Source: 3080299-01</b>							
Alkalinity - total as CaCO3	13100	mg/L		13000			0.5	20

**Nutrients - Quality Control**

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>Batch B313085 - 04-No Prep WC</b>								
<b>Blank (B313085-BLK1)</b>			Prepared & Analyzed: 08/05/13					
Phosphorus - total as P	< 0.050	mg/L						
<b>LCS (B313085-BS1)</b>			Prepared & Analyzed: 08/05/13					
Phosphorus - total as P	0.497	mg/L	0.5000		99	80-120		
<b>Matrix Spike (B313085-MS1)</b>			Prepared & Analyzed: 08/05/13					
	<b>Source: 3080299-01</b>							
Phosphorus - total as P	2.48	mg/L	2.500	0.0600	97	80-120		
<b>Matrix Spike Dup (B313085-MSD1)</b>			Prepared & Analyzed: 08/05/13					
	<b>Source: 3080299-01</b>							
Phosphorus - total as P	2.44	mg/L	2.500	0.0600	95	80-120	1	20

**Total Metals - Quality Control**

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>Batch B313012 - 04 EPA 200.2 R2.8</b>								
<b>Blank (B313012-BLK1)</b>			Prepared & Analyzed: 08/02/13					
Aluminum	< 0.015	mg/L						
Antimony	< 0.010	mg/L						
Arsenic	< 0.015	mg/L						
Barium	< 0.010	mg/L						
Beryllium	< 0.0010	mg/L						
Cadmium	< 0.0020	mg/L						
Calcium	< 0.095	mg/L						
Chromium	< 0.0020	mg/L						
Cobalt	< 0.0020	mg/L						



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**Total Metals - Quality Control**

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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**Batch B313012 - 04 EPA 200.2 R2.8**

**Blank (B313012-BLK1)**

Prepared & Analyzed: 08/02/13

Copper	< 0.0020	mg/L						
Iron	< 0.010	mg/L						
Lead	< 0.010	mg/L						
Magnesium	< 0.050	mg/L						
Manganese	< 0.0030	mg/L						
Nickel	< 0.0020	mg/L						
Selenium	< 0.010	mg/L						
Silver	< 0.0020	mg/L						
Sodium	< 0.20	mg/L						
Thallium	< 0.020	mg/L						
Zinc	< 0.010	mg/L						

**LCS (B313012-BS1)**

Prepared & Analyzed: 08/02/13

Aluminum	0.104	mg/L	0.1000		104	85-115		
Antimony	0.0876	mg/L	0.1000		88	85-115		
Arsenic	0.0913	mg/L	0.1000		91	85-115		
Barium	0.101	mg/L	0.1000		101	85-115		
Beryllium	0.102	mg/L	0.1000		102	85-115		
Cadmium	0.101	mg/L	0.1000		101	85-115		
Calcium	0.109	mg/L	0.1000		109	85-115		
Chromium	0.100	mg/L	0.1000		100	85-115		
Cobalt	0.101	mg/L	0.1000		101	85-115		
Copper	0.101	mg/L	0.1000		101	85-115		
Iron	0.0983	mg/L	0.1000		98	85-115		
Lead	0.0975	mg/L	0.1000		97	85-115		
Magnesium	0.114	mg/L	0.1000		114	85-115		
Manganese	0.101	mg/L	0.1000		101	85-115		
Nickel	0.0994	mg/L	0.1000		99	85-115		
Selenium	0.0909	mg/L	0.1000		91	85-115		
Silver	0.0265	mg/L	0.02500		106	85-115		
Thallium	0.0894	mg/L	0.1000		89	85-115		
Zinc	0.102	mg/L	0.1000		102	85-115		

**LCS (B313012-BS2)**

Prepared: 08/02/13 Analyzed: 08/03/13

Aluminum	NR	< 0.015	mg/L			85-115		
Antimony	NR	< 0.010	mg/L			85-115		
Arsenic	NR	< 0.015	mg/L			85-115		
Barium	NR	< 0.010	mg/L			85-115		
Beryllium	NR	< 0.0010	mg/L			85-115		
Cadmium	NR	< 0.0020	mg/L			85-115		



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**Total Metals - Quality Control**

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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**Batch B313012 - 04 EPA 200.2 R2.8**

**LCS (B313012-BS2)**

Prepared: 08/02/13 Analyzed: 08/03/13

Calcium	NR	< 0.095	mg/L			85-115		
Chromium	NR	< 0.0020	mg/L			85-115		
Cobalt	NR	< 0.0020	mg/L			85-115		
Copper	NR	< 0.0020	mg/L			85-115		
Iron	NR	< 0.010	mg/L			85-115		
Lead	NR	< 0.010	mg/L			85-115		
Magnesium	NR	< 0.050	mg/L			85-115		
Manganese	NR	< 0.0030	mg/L			85-115		
Nickel	NR	< 0.0020	mg/L			85-115		
Selenium	NR	< 0.010	mg/L			85-115		
Silver	NR	< 0.0020	mg/L			85-115		
Sodium		0.529	mg/L	0.5000	106	85-115		
Thallium	NR	< 0.020	mg/L			85-115		
Zinc	NR	< 0.010	mg/L			85-115		

**Matrix Spike (B313012-MS1)**

**Source: 3080299-01**

Prepared & Analyzed: 08/02/13

Aluminum	Q4	17.4	mg/L	0.2000	16.7	349	70-130	
Antimony	Q3	0.311	mg/L	0.2000	ND	155	70-130	
Arsenic	Q3	0.747	mg/L	0.2000	0.325	211	70-130	
Barium	Q4	3.76	mg/L	0.2000	3.44	164	70-130	
Beryllium		0.228	mg/L	0.2000	ND	114	70-130	
Cadmium		0.270	mg/L	0.2000	0.0580	106	70-130	
Calcium	Q4	2710	mg/L	0.2000	4730	NR	70-130	
Chromium		0.518	mg/L	0.2000	0.291	114	70-130	
Cobalt		0.282	mg/L	0.2000	0.0936	94	70-130	
Copper		0.227	mg/L	0.2000	0.0605	83	70-130	
Iron	Q4	876	mg/L	0.2000	965	NR	70-130	
Lead		0.381	mg/L	0.2000	0.218	81	70-130	
Magnesium	Q4	398	mg/L	0.2000	371	NR	70-130	
Manganese	Q4	65.8	mg/L	0.2000	61.8	NR	70-130	
Nickel		0.341	mg/L	0.2000	0.141	100	70-130	
Selenium		0.247	mg/L	0.2000	ND	123	70-130	
Silver		0.0418	mg/L	0.05000	ND	84	70-130	
Thallium	Q3	0.0842	mg/L	0.2000	ND	42	70-130	
Zinc	Q4	14.8	mg/L	0.2000	13.0	867	70-130	

**Matrix Spike (B313012-MS2)**

**Source: 3080299-01**

Prepared: 08/02/13 Analyzed: 08/03/13

Aluminum	NR	< 0.030	mg/L		16.7		70-130	
Antimony	NR	< 0.020	mg/L		ND		70-130	
Arsenic	NR	< 0.030	mg/L		0.325		70-130	

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**Total Metals - Quality Control**

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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**Batch B313012 - 04 EPA 200.2 R2.8**

<b>Matrix Spike (B313012-MS2)</b>		<b>Source: 3080299-01</b>		Prepared: 08/02/13 Analyzed: 08/03/13					
Barium	NR	< 0.020	mg/L		3.44		70-130		
Beryllium	NR	< 0.0020	mg/L		ND		70-130		
Cadmium	NR	< 0.0040	mg/L		0.0580		70-130		
Calcium	NR	< 0.19	mg/L		4730		70-130		
Chromium	NR	< 0.0040	mg/L		0.291		70-130		
Cobalt	NR	< 0.0040	mg/L		0.0936		70-130		
Copper	NR	< 0.0040	mg/L		0.0605		70-130		
Iron	NR	< 0.020	mg/L		965		70-130		
Lead	NR	< 0.020	mg/L		0.218		70-130		
Magnesium	NR	< 0.10	mg/L		371		70-130		
Manganese	NR	< 0.0060	mg/L		61.8		70-130		
Nickel	NR	< 0.0040	mg/L		0.141		70-130		
Selenium	NR	< 0.020	mg/L		ND		70-130		
Silver	NR	< 0.0040	mg/L		ND		70-130		
Sodium	Q4	549	mg/L	1.000	7220	NR	70-130		
Thallium	NR	< 0.040	mg/L		ND		70-130		
Zinc	NR	< 0.020	mg/L		13.0		70-130		

<b>Matrix Spike Dup (B313012-MSD1)</b>		<b>Source: 3080299-01</b>		Prepared & Analyzed: 08/02/13					
Aluminum	Q4	16.2	mg/L	0.2000	16.7	NR	70-130	7	20
Antimony	Q3	0.273	mg/L	0.2000	ND	136	70-130	13	20
Arsenic	Q3	0.586	mg/L	0.2000	0.325	131	70-130	24	20
Barium	Q4	3.80	mg/L	0.2000	3.44	184	70-130	1	20
Beryllium		0.229	mg/L	0.2000	ND	115	70-130	0.6	20
Cadmium		0.261	mg/L	0.2000	0.0580	102	70-130	3	20
Calcium	Q4	2760	mg/L	0.2000	4730	NR	70-130	2	20
Chromium		0.476	mg/L	0.2000	0.291	92	70-130	8	20
Cobalt		0.275	mg/L	0.2000	0.0936	91	70-130	2	20
Copper		0.215	mg/L	0.2000	0.0605	77	70-130	5	20
Iron	Q4	750	mg/L	0.2000	965	NR	70-130	15	20
Lead	Q2	0.323	mg/L	0.2000	0.218	52	70-130	17	20
Magnesium	Q4	407	mg/L	0.2000	371	NR	70-130	2	20
Manganese	Q4	67.4	mg/L	0.2000	61.8	NR	70-130	2	20
Nickel		0.335	mg/L	0.2000	0.141	97	70-130	2	20
Selenium	Q2	0.110	mg/L	0.2000	ND	55	70-130	77	20
Silver	Q2	0.0261	mg/L	0.05000	ND	52	70-130	46	20
Thallium	Q3	0.117	mg/L	0.2000	ND	59	70-130		20
Zinc	Q4	14.8	mg/L	0.2000	13.0	910	70-130	0.6	20

<b>Matrix Spike Dup (B313012-MSD2)</b>		<b>Source: 3080299-01</b>		Prepared: 08/02/13 Analyzed: 08/03/13					
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3080299



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**Total Metals - Quality Control**

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>Batch B313012 - 04 EPA 200.2 R2.8</b>								
<b>Matrix Spike Dup (B313012-MSD2)</b>		<b>Source: 3080299-01</b>		Prepared: 08/02/13 Analyzed: 08/03/13				
Aluminum	NR < 0.030	mg/L		16.7		70-130		20
Antimony	NR < 0.020	mg/L		ND		70-130		20
Arsenic	NR < 0.030	mg/L		0.325		70-130		20
Barium	NR < 0.020	mg/L		3.44		70-130		20
Beryllium	NR < 0.0020	mg/L		ND		70-130		20
Cadmium	NR < 0.0040	mg/L		0.0580		70-130		20
Calcium	NR < 0.19	mg/L		4730		70-130		20
Chromium	NR < 0.0040	mg/L		0.291		70-130		20
Cobalt	NR < 0.0040	mg/L		0.0936		70-130		20
Copper	NR < 0.0040	mg/L		0.0605		70-130		20
Iron	NR < 0.020	mg/L		965		70-130		20
Lead	NR < 0.020	mg/L		0.218		70-130		20
Magnesium	NR < 0.10	mg/L		371		70-130		20
Manganese	NR < 0.0060	mg/L		61.8		70-130		20
Nickel	NR < 0.0040	mg/L		0.141		70-130		20
Selenium	NR < 0.020	mg/L		ND		70-130		20
Silver	NR < 0.0040	mg/L		ND		70-130		20
Sodium	Q4 549	mg/L	1.000	7220	NR	70-130	0.01	20
Thallium	NR < 0.040	mg/L		ND		70-130		20
Zinc	NR < 0.020	mg/L		13.0		70-130		20

**Batch B313026 - 04-SW 7470A/245.1**

<b>Blank (B313026-BLK1)</b>		Prepared & Analyzed: 08/05/13						
Mercury	< 0.0002	mg/L						
<b>LCS (B313026-BS1)</b>		Prepared & Analyzed: 08/05/13						
Mercury	0.00201	mg/L	0.002000	100	85-115			
<b>Matrix Spike (B313026-MS1)</b>		<b>Source: 3074027-01</b>		Prepared & Analyzed: 08/05/13				
Mercury	0.0195	mg/L	0.02000	ND	98	70-130		
<b>Matrix Spike Dup (B313026-MSD1)</b>		<b>Source: 3074027-01</b>		Prepared & Analyzed: 08/05/13				
Mercury	0.0201	mg/L	0.02000	ND	100	70-130	3	20

**Anions - Quality Control**

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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**Batch B313071 - 04-IC No Prep**

<b>Calibration Blank (B313071-CCB1)</b>		Prepared & Analyzed: 08/05/13						
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**Anions - Quality Control**

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>Batch B313071 - 04-IC No Prep</b>								
<b>Calibration Blank (B313071-CCB1)</b>			Prepared & Analyzed: 08/05/13					
Chloride	0.244	mg/L						
Sulfate	0.00	mg/L						
<b>Calibration Check (B313071-CCV1)</b>			Prepared & Analyzed: 08/05/13					
Chloride	3.26	mg/L	3.500		93	90-110		
Sulfate	3.48	mg/L	3.500		99	90-110		



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**Notes**

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PDC Laboratories participates in the following accreditation/certification and proficiency programs at the following locations. Endorsement by Federal or State Governments or their agencies is not implied.

- PIA PDC Laboratories - Peoria, IL  
NELAC Accreditation for Drinking Water, Wastewater, Hazardous and Solid Wastes Fields of Testing through IL EPA Lab No. 100230  
Illinois Department of Public Health Bacteriological Analysis in Drinking Water Approved Laboratory Registry No. 17553  
Drinking Water Certifications: Kansas (E-10338); Missouri (870); Wisconsin (998284430); Indiana (C-IL-040); Iowa (240)  
Wastewater Certifications: Arkansas (88-0677); Wisconsin (998284430); Iowa (240); Kansas (E-10335)  
Hazardous/Solid Waste Certifications: Arkansas (88-0677); Wisconsin (998284430); Iowa (240); Kansas (E-10335)  
UST Certification; Iowa (240)
- SPM PDC Laboratories - Springfield, MO  
EPA DMR-QA Program
- STL PDC Laboratories - St. Louis, MO  
NELAC Accreditation for Wastewater, Hazardous and Solid Wastes Fields of Testing  
Drinking Water Certifications: Kansas (E-10389)

- X 100 X Dilution
- Q4 The matrix spike recovery result is unusable since the analyte concentration in the sample is greater than four times the spike level. The associated blank spike was acceptable.
- Q3 MS/MSD both failed %R
- Q2 MSD failed %R
- NR Not Required
- E Estimated - concentration exceeds the instrument calibration range.

Certified by: Roxann Shull, Client Services Supervisor





**PDC Laboratories, Inc. – St. Louis**  
**3278 N. Highway 67 (Lindbergh)**  
**Florissant, MO 63033**  
 www.pdclab.com

**CHAIN OF CUSTODY RECORD**  
 Phone (314) 432-0550 or (314) 921-4488  
 Fax (314) 432-4977

State where samples collected \_\_\_\_\_  
 (Instructions/Sample Acceptance Policy on Reverse)

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ALL SHADED AREAS MUST BE COMPLETED BY CLIENT (PLEASE PRINT)

1	CLIENT <b>BRIDGETON LF.</b>	PROJECT NUMBER <b>LEACHATE</b>	P. O. NUMBER	MEANS SHIPPED	3	ANALYSIS REQUESTED					4 (FOR LAB USE ONLY)		
	ADDRESS <b>13570 St. Charles Rock Road</b>	PHONE NUMBER <b>217-936-8812</b>	FAX NUMBER	EMAIL ADDRESS <b>D Feezor @ Feezor Engineering Con</b>		200.7 MetU/Hg 300 IC/ALK 4500 Phosphorus/T	LOG IN # <b>3080299</b>	LOGGED BY: <b>KS</b>	LAB PROJ. #	TEMPLATE:		PROJ. MGR.: <b>KS</b>	
	CITY <b>BRIDGETON MO</b>	SAMPLER <b>DAN Feezor</b>	MATRIX TYPES: WW-WASTEWATER DW-DRINKING WATER GW-GROUND WATER WWSL-SLUDGE NAS-SOLID L'CHL-LEACHATE NAL-NONAQUEOUS SOIL-SOILS										
	STATE <b>MO</b>	SAMPLER'S SIGNATURE 											
ZIP													
CONTACT PERSON <b>Daniel Feezor</b>													
2	SAMPLE DESCRIPTION AS YOU WANT ON REPORT		DATE COLLECTED	TIME COLLECTED	SAMPLE TYPE GRAB	MATRIX COMP	Bottle Count	REMARKS					
	<b>BL-PC-08-02-13</b>		<b>8/2/13</b>	<b>15:08</b>	<b>X</b>		<b>W</b>	<b>5</b>					
5	TURNAROUND TIME (RUSH TAT IS SUBJECT TO PDC LABS APPROVAL AND SURCHARGE)				The sample temperature will be measured upon receipt at the lab. By initialing this area, you request that the lab notify you, before proceeding with analysis, if the sample temperature is outside of the range of 0.1-6.0°C. By not initialing this area, you allow the lab to proceed with analytical testing regardless of the sample temperature.								
	NORMAL (8-10 Bus. Days) RUSH (5 Bus. Days) <u>Fastrak™</u> (3 Bus. Days) 1-2 Bus. Days Same Day DATE DUE <b>SAT 8/3/13</b>												
RESULTS BY: E-MAIL FAX PHONE CALL PHONE/FAX# IF DIFFERENT FROM ABOVE													
7	RELINQUISHED BY: (SIGNATURE) 	DATE <b>8/2/13</b>	TIME <b>4:2</b>	RECEIVED BY 	DATE <b>8/2/13</b>	TIME <b>4:20</b>	8 COMMENTS:(FOR LAB USE ONLY) <b>149</b> SAMPLE TEMPERATURE UPON RECEIPT _____ °C CHILL PROCESS STARTED PRIOR TO RECEIPT SAMPLE(S) RECEIVED ON ICE PROPER BOTTLES RECEIVED IN GOOD CONDITION BOTTLES FILLED WITH ADEQUATE VOLUME SAMPLES RECEIVED WITHIN HOLD TIME(S) (EXCLUDES TYPICAL FIELD PARAMETERS) DATE AND TME TAKEN FROM SAMPLE BOTTLE						
	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY:	DATE	TIME							
	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY:	DATE	TIME							
	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY:	DATE	TIME							



**PDC Laboratories, Inc.**

3278 N Highway 67 • Florissant, MO 63033  
(314) 432-0550 • (800) 333-FAST • FAX (314) 432-4977



Bridgeton Landfill  
13570 St Charles Rock Road  
St. Louis, MO 63044  
Attn: Dan Feezor

Date Received: 08/09/13 16:20  
Report Date: 08/22/13  
Customer #: 277310

**\*Revised Laboratory Results\***

Sample No: **3081515-01**  
Sample Description: **Location 1A**

Collect Date: **08/09/13 11:30**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b><u>Anions - STL</u></b>					
Chloride	5200 mg/L		08/13/13 10:22	DWM	EPA 300.0 R2.1 04KS
Nitrate-N	29 mg/L		08/10/13 08:47	DWM	EPA 300.0 R2.1 04KS
Nitrite-N	< 25 mg/L		08/10/13 08:47	DWM	EPA 300.0 R2.1 04KS
Phosphorus - ortho as P	< 15 mg/L		08/10/13 08:47	DWM	EPA 300.0 R2.1*
Sulfate	590 mg/L		08/10/13 10:56	DWM	EPA 300.0 R2.1 04KS
<b><u>General Chemistry - PIA</u></b>					
Total Organic Carbon (TOC)	16000 mg/L		08/14/13 18:40	lgsjw	5310C KS,IL,IA,WI,AR
<b><u>General Chemistry - STL</u></b>					
Alkalinity - total as CaCO3	8200 mg/L		08/10/13 10:00	ACV	SM 2320B 18Ed*
BOD	41000 mg/L		08/10/13 08:45	DAW	SM 5210B 18Ed 04KS
BOD - soluble	38000 mg/L		08/10/13 08:45	DAW	SM 5210B 18Ed*
COD	69000 mg/L		08/10/13 08:15	DAW	SM 5220D 18Ed 04KS
Cyanide	0.0090 mg/L		08/13/13 14:10	DWM	SM 4500-CN C E 18Ed*
Cyanide - amenable	< 0.0050 mg/L	X	08/13/13 14:10	DWM	SM 4500CN CG 18Ed*
Cyanide - weak acid dissociable	0.020 mg/L	Xc	08/16/13 14:00	DWM	ASTM 1310-86*
Oil & Grease - total	< 14 mg/L		08/12/13 09:00	mep	EPA 1664A 04KS
Phenol	76 mg/L		08/12/13 12:00	DWM	EPA 420.1 04KS
Solids - total dissolved solids (TDS)	57000 mg/L		08/12/13 11:50	DAW	SM 2540C 18Ed*
Solids - total suspended solids (TSS)	1100 mg/L		08/10/13 12:30	DAW	SM 2540D 18Ed 04KS
<b><u>Nutrients - PIA</u></b>					
Total Kjeldahl Nitrogen (TKN)	1300 mg/L		08/14/13 16:28	lgtth	SM 4500-N B & NH3-H 18Ed MOD IL,IA,WI,AR
<b><u>Nutrients - STL</u></b>					
Ammonia-N	830 mg/L		08/12/13 11:30	ACV	SM(18) 4500 NH3 F 04KS
Phosphorus - total as P	< 5.0 mg/L		08/12/13 16:00	ACV	SM 4500P B E 18ed 04KS
<b><u>Semivolatile Organics - STL</u></b>					
1,2,4-Trichlorobenzene	< 500 ug/L		08/14/13 08:15	jk	EPA 625 04KS
1,2-Dichlorobenzene	< 500 ug/L		08/14/13 08:15	jk	EPA 625*
1,3-Dichlorobenzene	< 500 ug/L		08/14/13 08:15	jk	EPA 625*



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Customer #: 277310

**\*Revised Laboratory Results\***

Sample No: **3081515-01**  
Sample Description: **Location 1A**

Collect Date: **08/09/13 11:30**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b>Semivolatile Organics - STL</b>					
1,4-Dichlorobenzene	< 500 ug/L		08/14/13 08:15	jk	EPA 625*
2,4,5-Trichlorophenol	< 500 ug/L		08/14/13 08:15	jk	EPA 625*
2,4,6-Trichlorophenol	< 500 ug/L		08/14/13 08:15	jk	EPA 625 04KS
2,4-Dichlorophenol	< 500 ug/L		08/14/13 08:15	jk	EPA 625 04KS
2,4-Dimethylphenol	< 500 ug/L		08/14/13 08:15	jk	EPA 625 04KS
2,4-Dinitrophenol	< 500 ug/L		08/14/13 08:15	jk	EPA 625 04KS
2,4-Dinitrotoluene	< 500 ug/L		08/14/13 08:15	jk	EPA 625 04KS
2,6-Dimethylaniline	< 250 ug/L		08/14/13 08:15	jk	EPA 625*
2,6-Dinitrotoluene	< 500 ug/L		08/14/13 08:15	jk	EPA 625 04KS
2-Chloronaphthalene	< 500 ug/L		08/14/13 08:15	jk	EPA 625 04KS
2-Chlorophenol	< 500 ug/L		08/14/13 08:15	jk	EPA 625 04KS
2-Nitrophenol	< 500 ug/L		08/14/13 08:15	jk	EPA 625 04KS
3,3'-Dichlorobenzidine	< 500 ug/L		08/14/13 08:15	jk	EPA 625 04KS
4,6-Dinitro-2-methylphenol	< 500 ug/L		08/14/13 08:15	jk	EPA 625*
4-Bromophenyl phenyl ether	< 500 ug/L		08/14/13 08:15	jk	EPA 625 04KS
4-Chloro-3-methylphenol	< 500 ug/L		08/14/13 08:15	jk	EPA 625 04KS
4-Chlorophenylphenyl ether	< 500 ug/L		08/14/13 08:15	jk	EPA 625 04KS
4-Nitrophenol	< 500 ug/L		08/14/13 08:15	jk	EPA 625 04KS
Acenaphthene	< 500 ug/L		08/14/13 08:15	jk	EPA 625 04KS
Acenaphthylene	< 500 ug/L		08/14/13 08:15	jk	EPA 625 04KS
Anthracene	< 500 ug/L		08/14/13 08:15	jk	EPA 625 04KS
Azobenzene	< 500 ug/L		08/14/13 08:15	jk	EPA 625*
Benzidine	< 500 ug/L		08/14/13 08:15	jk	EPA 625*
Benzo(a)anthracene	< 500 ug/L		08/14/13 08:15	jk	EPA 625 04KS
Benzo(a)pyrene	< 500 ug/L		08/14/13 08:15	jk	EPA 625 04KS
Benzo(b&k)fluoranthene	< 500 ug/L		08/14/13 08:15	jk	EPA 625 04KS
Benzo(b)fluoranthene	< 500 ug/L		08/14/13 08:15	jk	EPA 625 04KS
Benzo(g,h,i)perylene	< 500 ug/L		08/14/13 08:15	jk	EPA 625 04KS
Benzo(k)fluoranthene	< 500 ug/L		08/14/13 08:15	jk	EPA 625 04KS
Bis(2-chloroethoxy) methane	< 500 ug/L		08/14/13 08:15	jk	EPA 625 04KS
Bis(2-chloroethyl) ether	< 500 ug/L		08/14/13 08:15	jk	EPA 625 04KS
Bis(2-chloroisopropyl) ether	< 500 ug/L		08/14/13 08:15	jk	EPA 625 04KS
Bis(2-ethylhexyl) phthalate	< 500 ug/L		08/14/13 08:15	jk	EPA 625 04KS



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Bridgeton Landfill  
13570 St Charles Rock Road  
St. Louis, MO 63044  
Attn: Dan Feezor

Date Received: 08/09/13 16:20  
Report Date: 08/22/13  
Customer #: 277310

**\*Revised Laboratory Results\***

Sample No: **3081515-01**  
Sample Description: **Location 1A**

Collect Date: **08/09/13 11:30**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b>Semivolatile Organics - STL</b>					
Butyl benzyl phthalate	< 500 ug/L		08/14/13 08:15	jk	EPA 625 04KS
Chrysene	< 500 ug/L		08/14/13 08:15	jk	EPA 625 04KS
Dibenzo(a,h)anthracene	< 500 ug/L		08/14/13 08:15	jk	EPA 625 04KS
Diethyl phthalate	< 500 ug/L		08/14/13 08:15	jk	EPA 625 04KS
Dimethyl phthalate	< 500 ug/L		08/14/13 08:15	jk	EPA 625 04KS
Di-n-butyl phthalate	< 500 ug/L		08/14/13 08:15	jk	EPA 625 04KS
Di-n-octyl phthalate	< 500 ug/L		08/14/13 08:15	jk	EPA 625 04KS
Diphenylamine	< 500 ug/L		08/14/13 08:15	jk	EPA 625 04KS
Fluoranthene	< 500 ug/L		08/14/13 08:15	jk	EPA 625 04KS
Fluorene	< 500 ug/L		08/14/13 08:15	jk	EPA 625 04KS
Hexachlorobenzene	< 500 ug/L		08/14/13 08:15	jk	EPA 625 04KS
Hexachlorobutadiene	< 500 ug/L		08/14/13 08:15	jk	EPA 625 04KS
Hexachlorocyclopentadiene	< 500 ug/L		08/14/13 08:15	jk	EPA 625 04KS
Hexachloroethane	< 500 ug/L		08/14/13 08:15	jk	EPA 625 04KS
Indeno(1,2,3-cd)pyrene	< 500 ug/L		08/14/13 08:15	jk	EPA 625 04KS
Isophorone	< 500 ug/L		08/14/13 08:15	jk	EPA 625 04KS
Naphthalene	< 500 ug/L		08/14/13 08:15	jk	EPA 625 04KS
Nitrobenzene	< 500 ug/L		08/14/13 08:15	jk	EPA 625 04KS
N-Nitrosodimethylamine	< 500 ug/L		08/14/13 08:15	jk	EPA 625 04KS
N-Nitrosodi-n-propylamine	< 500 ug/L		08/14/13 08:15	jk	EPA 625 04KS
Pentachlorophenol	< 500 ug/L		08/14/13 08:15	jk	EPA 625 04KS
Phenanthrene	< 500 ug/L		08/14/13 08:15	jk	EPA 625 04KS
Phenol	7360 ug/L	Xb	08/14/13 13:47	jk	EPA 625 04KS
Pyrene	< 500 ug/L		08/14/13 08:15	jk	EPA 625 04KS
Surrogate: 2-Fluorophenol	80 % 10-101	S	08/14/13 08:15	jk	EPA 625
Surrogate: Phenol- d5	105 % 10-154	S	08/14/13 08:15	jk	EPA 625
Surrogate: Nitrobenzene-d5	% 10-119	S	08/14/13 08:15	jk	EPA 625
Surrogate: 2-Fluorobiphenyl	70 % 10-98	S	08/14/13 08:15	jk	EPA 625
Surrogate: 2,4,6-Tribromophenol	8 % 10-69	S	08/14/13 08:15	jk	EPA 625
Surrogate: p-Terphenyl-d14	74 % 11-97	S	08/14/13 08:15	jk	EPA 625
<b>Soluble Metals - STL</b>					
Silicon as SiO2	110 mg/L		08/13/13 11:59	WPS	EPA 200.7 R4.4
Aluminum	2.4 mg/L		08/13/13 11:59	WPS	EPA 200.7 R4.4*



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**\*Revised Laboratory Results\***

Sample No: **3081515-01**  
Sample Description: **Location 1A**

Collect Date: **08/09/13 11:30**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b><u>Soluble Metals - STL</u></b>					
Mercury	< 0.0020 mg/L		08/13/13 15:55	KAE	EPA 245.1 R3.0 / SW 7470A 04KS
Antimony	< 0.10 mg/L		08/13/13 11:59	WPS	EPA 200.7 R4.4 04KS
Copper	< 0.020 mg/L		08/13/13 11:59	WPS	EPA 200.7 R4.4 04KS
Silver	< 0.020 mg/L		08/13/13 11:59	WPS	EPA 200.7 R4.4 04KS
Arsenic	0.32 mg/L		08/13/13 11:59	WPS	EPA 200.7 R4.4 04KS
Barium	3.5 mg/L		08/13/13 11:59	WPS	EPA 200.7 R4.4 04KS
Beryllium	< 0.010 mg/L		08/13/13 11:59	WPS	EPA 200.7 R4.4 04KS
Boron	23 mg/L		08/13/13 10:51	WPS	EPA 200.7 R4.4* 04KS
Cadmium	0.055 mg/L		08/13/13 11:59	WPS	EPA 200.7 R4.4 04KS
Calcium	5000 mg/L		08/13/13 09:15	WPS	EPA 200.7 R4.4 04KS
Chromium	0.28 mg/L		08/13/13 11:59	WPS	EPA 200.7 R4.4 04KS
Cobalt	0.076 mg/L		08/13/13 11:59	WPS	EPA 200.7 R4.4 04KS
Iron	870 mg/L		08/13/13 10:51	WPS	EPA 200.7 R4.4 04KS
Lead	< 0.10 mg/L		08/13/13 11:59	WPS	EPA 200.7 R4.4 04KS
Magnesium	520 mg/L		08/13/13 10:51	WPS	EPA 200.7 R4.4 04KS
Manganese	67 mg/L		08/13/13 11:59	WPS	EPA 200.7 R4.4 04KS
Molybdenum	< 0.12 mg/L		08/13/13 11:59	WPS	EPA 200.7 R4.4 04KS
Nickel	0.13 mg/L		08/13/13 11:59	WPS	EPA 200.7 R4.4 04KS
Potassium	810 mg/L		08/13/13 10:51	WPS	EPA 200.7 R4.4* 04KS
Selenium	< 0.10 mg/L		08/13/13 11:59	WPS	EPA 200.7 R4.4 04KS
Sodium	3000 mg/L		08/13/13 09:15	WPS	EPA 200.7 R4.4* 04KS
Thallium	< 0.20 mg/L		08/13/13 11:59	WPS	EPA 200.7 R4.4 04KS
Vanadium	0.041 mg/L		08/13/13 11:59	WPS	EPA 200.7 R4.4 04KS
Zinc	15 mg/L		08/13/13 11:59	WPS	EPA 200.7 R4.4 04KS
Silicon	52 mg/L		08/13/13 11:59	WPS	EPA 200.7 R4.4* 04KS
<b><u>Total Metals - STL</u></b>					
Silicon as SiO2	160 mg/L		08/13/13 11:55	WPS	EPA 200.7 R4.4 04KS
Aluminum	9.0 mg/L		08/13/13 11:55	WPS	EPA 200.7 R4.4* 04KS
Mercury	< 0.0020 mg/L		08/13/13 15:55	KAE	EPA 245.1 R3.0 / SW 7470A 04KS
Antimony	0.22 mg/L		08/13/13 11:55	WPS	EPA 200.7 R4.4 04KS
Silicon	77 mg/L		08/13/13 11:55	WPS	EPA 200.7 R4.4* 04KS
Arsenic	0.44 mg/L		08/13/13 11:55	WPS	EPA 200.7 R4.4 04KS



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**\*Revised Laboratory Results\***

Sample No: **3081515-01**  
Sample Description: **Location 1A**

Collect Date: **08/09/13 11:30**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b><u>Total Metals - STL</u></b>					
Barium	4.2 mg/L		08/13/13 11:55	WPS	EPA 200.7 R4.4 04KS
Beryllium	< 0.010 mg/L		08/13/13 11:55	WPS	EPA 200.7 R4.4 04KS
Hardness	17000 mg/L		08/13/13 10:47	WPS	SM 2340B
Boron	25 mg/L		08/13/13 10:47	WPS	EPA 200.7 R4.4*
Cadmium	0.076 mg/L		08/13/13 11:55	WPS	EPA 200.7 R4.4 04KS
Calcium	6000 mg/L		08/13/13 09:09	WPS	EPA 200.7 R4.4 04KS
Chromium	0.36 mg/L		08/13/13 11:55	WPS	EPA 200.7 R4.4 04KS
Cobalt	0.090 mg/L		08/13/13 11:55	WPS	EPA 200.7 R4.4 04KS
Copper	0.15 mg/L		08/13/13 11:55	WPS	EPA 200.7 R4.4 04KS
Iron	1100 mg/L		08/13/13 10:47	WPS	EPA 200.7 R4.4 04KS
Lead	0.21 mg/L		08/13/13 11:55	WPS	EPA 200.7 R4.4 04KS
Magnesium	480 mg/L		08/13/13 10:47	WPS	EPA 200.7 R4.4 04KS
Manganese	80 mg/L		08/13/13 11:55	WPS	EPA 200.7 R4.4 04KS
Molybdenum	< 0.12 mg/L		08/13/13 11:55	WPS	EPA 200.7 R4.4 04KS
Nickel	0.18 mg/L		08/13/13 11:55	WPS	EPA 200.7 R4.4 04KS
Potassium	870 mg/L		08/13/13 10:47	WPS	EPA 200.7 R4.4*
Selenium	< 0.10 mg/L		08/13/13 11:55	WPS	EPA 200.7 R4.4 04KS
Silver	< 0.020 mg/L		08/13/13 11:55	WPS	EPA 200.7 R4.4 04KS
Sodium	3600 mg/L		08/13/13 09:09	WPS	EPA 200.7 R4.4*
Thallium	< 0.20 mg/L		08/13/13 11:55	WPS	EPA 200.7 R4.4 04KS
Vanadium	0.077 mg/L		08/13/13 11:55	WPS	EPA 200.7 R4.4 04KS
Zinc	18 mg/L		08/13/13 11:55	WPS	EPA 200.7 R4.4 04KS

Sample No: **3081515-02**  
Sample Description: **Location 1D**

Collect Date: **08/09/13 12:31**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b><u>Anions - STL</u></b>					
Chloride	9900 mg/L		08/13/13 11:06	DWM	EPA 300.0 R2.1 04KS
Nitrate-N	16 mg/L		08/10/13 09:05	DWM	EPA 300.0 R2.1 04KS
Nitrite-N	< 10 mg/L		08/10/13 09:05	DWM	EPA 300.0 R2.1 04KS
Phosphorus - ortho as P	< 6.0 mg/L		08/10/13 09:05	DWM	EPA 300.0 R2.1*



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Report Date: 08/22/13  
Customer #: 277310

**\*Revised Laboratory Results\***

Sample No: **3081515-02**  
Sample Description: **Location 1D**

Collect Date: **08/09/13 12:31**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method	
<b><u>Anions - STL</u></b>						
Sulfate	490 mg/L	Q1	08/10/13 11:14	DWM	EPA 300.0 R2.1	04KS
<b><u>General Chemistry - PIA</u></b>						
Total Organic Carbon (TOC)	19000 mg/L		08/14/13 18:47	lgsjw	5310C	KS,IL,IA,WI,AR
<b><u>General Chemistry - STL</u></b>						
Alkalinity - total as CaCO3	9600 mg/L		08/10/13 10:00	ACV	SM 2320B 18Ed*	
BOD	34000 mg/L		08/10/13 08:45	DAW	SM 5210B 18Ed	04KS
BOD - soluble	33000 mg/L		08/10/13 08:45	DAW	SM 5210B 18Ed*	
COD	67000 mg/L		08/10/13 08:15	DAW	SM 5220D 18Ed	04KS
Cyanide	0.0080 mg/L		08/13/13 14:10	DWM	SM 4500-CN C E 18Ed*	
Cyanide - amenable	< 0.0050 mg/L	X	08/13/13 14:10	DWM	SM 4500CN CG 18Ed*	
Cyanide - weak acid dissociable	0.021 mg/L	Xc	08/16/13 14:00	DWM	ASTM 1310-86*	
Oil & Grease - total	< 5.1 mg/L		08/12/13 09:00	mep	EPA 1664A	04KS
Phenol	100 mg/L		08/12/13 12:00	DWM	EPA 420.1	04KS
Solids - total dissolved solids (TDS)	57000 mg/L		08/12/13 11:50	DAW	SM 2540C 18Ed*	
Solids - total suspended solids (TSS)	250 mg/L		08/10/13 12:30	DAW	SM 2540D 18Ed	04KS
<b><u>Nutrients - PIA</u></b>						
Total Kjeldahl Nitrogen (TKN)	1400 mg/L		08/14/13 16:29	lgth	SM 4500-N B & NH3-H 18Ed MOD	IL,IA,WI,AR
<b><u>Nutrients - STL</u></b>						
Ammonia-N	810 mg/L		08/12/13 11:30	ACV	SM(18) 4500 NH3 F	04KS
Phosphorus - total as P	< 5.0 mg/L		08/12/13 16:00	ACV	SM 4500P B E 18ed	04KS
<b><u>Semivolatile Organics - STL</u></b>						
1,2,4-Trichlorobenzene	< 500 ug/L		08/14/13 09:01	jk	EPA 625	04KS
1,2-Dichlorobenzene	< 500 ug/L		08/14/13 09:01	jk	EPA 625*	
1,3-Dichlorobenzene	< 500 ug/L		08/14/13 09:01	jk	EPA 625*	
1,4-Dichlorobenzene	< 500 ug/L		08/14/13 09:01	jk	EPA 625*	
2,4,5-Trichlorophenol	< 500 ug/L		08/14/13 09:01	jk	EPA 625*	
2,4,6-Trichlorophenol	< 500 ug/L		08/14/13 09:01	jk	EPA 625	04KS
2,4-Dichlorophenol	< 500 ug/L		08/14/13 09:01	jk	EPA 625	04KS



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Bridgeton Landfill  
13570 St Charles Rock Road  
St. Louis, MO 63044  
Attn: Dan Feezor

Date Received: 08/09/13 16:20  
Report Date: 08/22/13  
Customer #: 277310

**\*Revised Laboratory Results\***

Sample No: **3081515-02**  
Sample Description: **Location 1D**

Collect Date: **08/09/13 12:31**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b>Semivolatile Organics - STL</b>					
2,4-Dimethylphenol	< 500 ug/L		08/14/13 09:01	jk	EPA 625 04KS
2,4-Dinitrophenol	< 500 ug/L		08/14/13 09:01	jk	EPA 625 04KS
2,4-Dinitrotoluene	< 500 ug/L		08/14/13 09:01	jk	EPA 625 04KS
2,6-Dimethylaniline	< 250 ug/L		08/14/13 09:01	jk	EPA 625*
2,6-Dinitrotoluene	< 500 ug/L		08/14/13 09:01	jk	EPA 625 04KS
2-Chloronaphthalene	< 500 ug/L		08/14/13 09:01	jk	EPA 625 04KS
2-Chlorophenol	< 500 ug/L		08/14/13 09:01	jk	EPA 625 04KS
2-Nitrophenol	< 500 ug/L		08/14/13 09:01	jk	EPA 625 04KS
3,3'-Dichlorobenzidine	< 500 ug/L		08/14/13 09:01	jk	EPA 625 04KS
4,6-Dinitro-2-methylphenol	< 500 ug/L		08/14/13 09:01	jk	EPA 625*
4-Bromophenyl phenyl ether	< 500 ug/L		08/14/13 09:01	jk	EPA 625 04KS
4-Chloro-3-methylphenol	< 500 ug/L		08/14/13 09:01	jk	EPA 625 04KS
4-Chlorophenylphenyl ether	< 500 ug/L		08/14/13 09:01	jk	EPA 625 04KS
4-Nitrophenol	< 500 ug/L		08/14/13 09:01	jk	EPA 625 04KS
Acenaphthene	< 500 ug/L		08/14/13 09:01	jk	EPA 625 04KS
Acenaphthylene	< 500 ug/L		08/14/13 09:01	jk	EPA 625 04KS
Anthracene	< 500 ug/L		08/14/13 09:01	jk	EPA 625 04KS
Azobenzene	< 500 ug/L		08/14/13 09:01	jk	EPA 625*
Benzidine	< 500 ug/L		08/14/13 09:01	jk	EPA 625*
Benzo(a)anthracene	< 500 ug/L		08/14/13 09:01	jk	EPA 625 04KS
Benzo(a)pyrene	< 500 ug/L		08/14/13 09:01	jk	EPA 625 04KS
Benzo(b&k)fluoranthene	< 500 ug/L		08/14/13 09:01	jk	EPA 625 04KS
Benzo(b)fluoranthene	< 500 ug/L		08/14/13 09:01	jk	EPA 625 04KS
Benzo(g,h,i)perylene	< 500 ug/L		08/14/13 09:01	jk	EPA 625 04KS
Benzo(k)fluoranthene	< 500 ug/L		08/14/13 09:01	jk	EPA 625 04KS
Bis(2-chloroethoxy) methane	< 500 ug/L		08/14/13 09:01	jk	EPA 625 04KS
Bis(2-chloroethyl) ether	< 500 ug/L		08/14/13 09:01	jk	EPA 625 04KS
Bis(2-chloroisopropyl) ether	< 500 ug/L		08/14/13 09:01	jk	EPA 625 04KS
Bis(2-ethylhexyl) phthalate	< 500 ug/L		08/14/13 09:01	jk	EPA 625 04KS
Butyl benzyl phthalate	< 500 ug/L		08/14/13 09:01	jk	EPA 625 04KS
Chrysene	< 500 ug/L		08/14/13 09:01	jk	EPA 625 04KS
Dibenzo(a,h)anthracene	< 500 ug/L		08/14/13 09:01	jk	EPA 625 04KS
Diethyl phthalate	< 500 ug/L		08/14/13 09:01	jk	EPA 625 04KS





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Date Received: 08/09/13 16:20  
Report Date: 08/22/13  
Customer #: 277310

**\*Revised Laboratory Results\***

Sample No: **3081515-02**  
Sample Description: **Location 1D**

Collect Date: **08/09/13 12:31**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b>Semivolatile Organics - STL</b>					
Dimethyl phthalate	< 500 ug/L		08/14/13 09:01	jk	EPA 625 04KS
Di-n-butyl phthalate	< 500 ug/L		08/14/13 09:01	jk	EPA 625 04KS
Di-n-octyl phthalate	< 500 ug/L		08/14/13 09:01	jk	EPA 625 04KS
Diphenylamine	< 500 ug/L		08/14/13 09:01	jk	EPA 625 04KS
Fluoranthene	< 500 ug/L		08/14/13 09:01	jk	EPA 625 04KS
Fluorene	< 500 ug/L		08/14/13 09:01	jk	EPA 625 04KS
Hexachlorobenzene	< 500 ug/L		08/14/13 09:01	jk	EPA 625 04KS
Hexachlorobutadiene	< 500 ug/L		08/14/13 09:01	jk	EPA 625 04KS
Hexachlorocyclopentadiene	< 500 ug/L		08/14/13 09:01	jk	EPA 625 04KS
Hexachloroethane	< 500 ug/L		08/14/13 09:01	jk	EPA 625 04KS
Indeno(1,2,3-cd)pyrene	< 500 ug/L		08/14/13 09:01	jk	EPA 625 04KS
Isophorone	< 500 ug/L		08/14/13 09:01	jk	EPA 625 04KS
Naphthalene	< 500 ug/L		08/14/13 09:01	jk	EPA 625 04KS
Nitrobenzene	< 500 ug/L		08/14/13 09:01	jk	EPA 625 04KS
N-Nitrosodimethylamine	< 500 ug/L		08/14/13 09:01	jk	EPA 625 04KS
N-Nitrosodi-n-propylamine	< 500 ug/L		08/14/13 09:01	jk	EPA 625 04KS
Pentachlorophenol	< 500 ug/L		08/14/13 09:01	jk	EPA 625 04KS
Phenanthrene	< 500 ug/L		08/14/13 09:01	jk	EPA 625 04KS
Phenol	4680 ug/L	Xb	08/14/13 14:33	jk	EPA 625 04KS
Pyrene	< 500 ug/L		08/14/13 09:01	jk	EPA 625 04KS
Surrogate: 2-Fluorophenol	49 % 10-101	S	08/14/13 09:01	jk	EPA 625
Surrogate: Phenol- d5	68 % 10-154	S	08/14/13 09:01	jk	EPA 625
Surrogate: Nitrobenzene-d5	39 % 10-119	S	08/14/13 09:01	jk	EPA 625
Surrogate: 2-Fluorobiphenyl	82 % 10-98	S	08/14/13 09:01	jk	EPA 625
Surrogate: 2,4,6-Tribromophenol	11 % 10-69	S	08/14/13 09:01	jk	EPA 625
Surrogate: p-Terphenyl-d14	100 % 11-97	S	08/14/13 09:01	jk	EPA 625
<b>Soluble Metals - STL</b>					
Silicon as SiO2	67 mg/L		08/13/13 12:07	WPS	EPA 200.7 R4.4
Aluminum	0.22 mg/L		08/13/13 12:07	WPS	EPA 200.7 R4.4*
Mercury	< 0.0020 mg/L		08/13/13 15:55	KAE	EPA 245.1 R3.0 / SW 7470A 04KS
Antimony	< 0.10 mg/L		08/13/13 12:07	WPS	EPA 200.7 R4.4 04KS
Copper	< 0.020 mg/L		08/13/13 12:07	WPS	EPA 200.7 R4.4 04KS



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Customer #: 277310

**\*Revised Laboratory Results\***

Sample No: **3081515-02**  
Sample Description: **Location 1D**

Collect Date: **08/09/13 12:31**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b><u>Soluble Metals - STL</u></b>					
Silver	< 0.020 mg/L		08/13/13 12:07	WPS	EPA 200.7 R4.4 04KS
Arsenic	0.33 mg/L		08/13/13 12:07	WPS	EPA 200.7 R4.4 04KS
Barium	2.9 mg/L		08/13/13 12:07	WPS	EPA 200.7 R4.4 04KS
Beryllium	< 0.010 mg/L		08/13/13 12:07	WPS	EPA 200.7 R4.4 04KS
Boron	18 mg/L		08/13/13 11:00	WPS	EPA 200.7 R4.4*
Cadmium	< 0.020 mg/L		08/13/13 12:07	WPS	EPA 200.7 R4.4 04KS
Calcium	4500 mg/L		08/13/13 09:44	WPS	EPA 200.7 R4.4 04KS
Chromium	0.16 mg/L		08/13/13 12:07	WPS	EPA 200.7 R4.4 04KS
Cobalt	0.033 mg/L		08/13/13 12:07	WPS	EPA 200.7 R4.4 04KS
Iron	55 mg/L		08/13/13 12:07	WPS	EPA 200.7 R4.4 04KS
Lead	< 0.10 mg/L		08/13/13 12:07	WPS	EPA 200.7 R4.4 04KS
Magnesium	370 mg/L		08/13/13 11:00	WPS	EPA 200.7 R4.4 04KS
Manganese	18 mg/L		08/13/13 12:07	WPS	EPA 200.7 R4.4 04KS
Molybdenum	< 0.12 mg/L		08/13/13 12:07	WPS	EPA 200.7 R4.4 04KS
Nickel	0.13 mg/L		08/13/13 12:07	WPS	EPA 200.7 R4.4 04KS
Potassium	740 mg/L		08/13/13 11:00	WPS	EPA 200.7 R4.4*
Selenium	0.40 mg/L		08/13/13 12:07	WPS	EPA 200.7 R4.4 04KS
Sodium	4600 mg/L		08/13/13 09:44	WPS	EPA 200.7 R4.4*
Thallium	< 0.20 mg/L		08/13/13 12:07	WPS	EPA 200.7 R4.4 04KS
Vanadium	0.033 mg/L		08/13/13 12:07	WPS	EPA 200.7 R4.4 04KS
Zinc	2.4 mg/L		08/13/13 12:07	WPS	EPA 200.7 R4.4 04KS
Silicon	32 mg/L		08/13/13 12:07	WPS	EPA 200.7 R4.4*
<b><u>Total Metals - STL</u></b>					
Silicon as SiO2	71 mg/L		08/13/13 12:03	WPS	EPA 200.7 R4.4
Aluminum	0.46 mg/L		08/13/13 12:03	WPS	EPA 200.7 R4.4*
Mercury	< 0.0020 mg/L		08/13/13 15:55	KAE	EPA 245.1 R3.0 / 04KS SW 7470A
Antimony	< 0.10 mg/L		08/13/13 12:03	WPS	EPA 200.7 R4.4 04KS
Silicon	33 mg/L		08/13/13 12:03	WPS	EPA 200.7 R4.4*
Arsenic	0.45 mg/L		08/13/13 12:03	WPS	EPA 200.7 R4.4 04KS
Barium	2.9 mg/L		08/13/13 12:03	WPS	EPA 200.7 R4.4 04KS
Beryllium	< 0.010 mg/L		08/13/13 12:03	WPS	EPA 200.7 R4.4 04KS
Hardness	13000 mg/L		08/13/13 10:56	WPS	SM 2340B
Boron	18 mg/L		08/13/13 10:56	WPS	EPA 200.7 R4.4*



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Date Received: 08/09/13 16:20  
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Customer #: 277310

**\*Revised Laboratory Results\***

Sample No: **3081515-02**  
Sample Description: **Location 1D**

Collect Date: **08/09/13 12:31**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b><u>Total Metals - STL</u></b>					
Cadmium	< 0.020 mg/L		08/13/13 12:03	WPS	EPA 200.7 R4.4 04KS
Calcium	4700 mg/L		08/13/13 09:40	WPS	EPA 200.7 R4.4 04KS
Chromium	0.17 mg/L		08/13/13 12:03	WPS	EPA 200.7 R4.4 04KS
Cobalt	0.030 mg/L		08/13/13 12:03	WPS	EPA 200.7 R4.4 04KS
Copper	< 0.020 mg/L		08/13/13 12:03	WPS	EPA 200.7 R4.4 04KS
Iron	74 mg/L		08/13/13 12:03	WPS	EPA 200.7 R4.4 04KS
Lead	< 0.10 mg/L		08/13/13 12:03	WPS	EPA 200.7 R4.4 04KS
Magnesium	320 mg/L		08/13/13 10:56	WPS	EPA 200.7 R4.4 04KS
Manganese	19 mg/L		08/13/13 12:03	WPS	EPA 200.7 R4.4 04KS
Molybdenum	< 0.12 mg/L		08/13/13 12:03	WPS	EPA 200.7 R4.4 04KS
Nickel	0.13 mg/L		08/13/13 12:03	WPS	EPA 200.7 R4.4 04KS
Potassium	750 mg/L		08/13/13 10:56	WPS	EPA 200.7 R4.4*
Selenium	0.22 mg/L		08/13/13 12:03	WPS	EPA 200.7 R4.4 04KS
Silver	0.021 mg/L		08/13/13 12:03	WPS	EPA 200.7 R4.4 04KS
Sodium	4600 mg/L		08/13/13 09:40	WPS	EPA 200.7 R4.4*
Thallium	< 0.20 mg/L		08/13/13 12:03	WPS	EPA 200.7 R4.4 04KS
Vanadium	0.037 mg/L		08/13/13 12:03	WPS	EPA 200.7 R4.4 04KS
Zinc	2.8 mg/L		08/13/13 12:03	WPS	EPA 200.7 R4.4 04KS

Sample No: **3081515-03**  
Sample Description: **Location 1E**

Collect Date: **08/09/13 12:45**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b><u>Anions - STL</u></b>					
Chloride	13000 mg/L		08/13/13 11:25	DWM	EPA 300.0 R2.1 04KS
Nitrate-N	53 mg/L		08/10/13 09:24	DWM	EPA 300.0 R2.1 04KS
Nitrite-N	< 50 mg/L		08/10/13 09:24	DWM	EPA 300.0 R2.1 04KS
Phosphorus - ortho as P	< 30 mg/L		08/10/13 09:24	DWM	EPA 300.0 R2.1*
Sulfate	960 mg/L		08/10/13 09:24	DWM	EPA 300.0 R2.1 04KS
<b><u>General Chemistry - PIA</u></b>					
Total Organic Carbon (TOC)	20000 mg/L		08/14/13 18:54	lgsjw	5310C KS,IL,IA,WI,AR



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**\*Revised Laboratory Results\***

Sample No: **3081515-03**  
Sample Description: **Location 1E**

Collect Date: **08/09/13 12:45**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b><u>General Chemistry - STL</u></b>					
Alkalinity - total as CaCO3	9800 mg/L		08/10/13 10:00	ACV	SM 2320B 18Ed*
BOD	37000 mg/L		08/10/13 08:45	DAW	SM 5210B 18Ed 04KS
BOD - soluble	30000 mg/L		08/10/13 08:45	DAW	SM 5210B 18Ed*
COD	71000 mg/L		08/10/13 08:15	DAW	SM 5220D 18Ed 04KS
Cyanide	0.020 mg/L		08/13/13 14:10	DWM	SM 4500-CN C E 18Ed*
Cyanide - amenable	< 0.0050 mg/L	X	08/13/13 14:10	DWM	SM 4500CN CG 18Ed*
Cyanide - weak acid dissociable	0.028 mg/L	Xc	08/16/13 14:00	DWM	ASTM 1310-86*
Oil & Grease - total	< 7.6 mg/L		08/12/13 09:00	mep	EPA 1664A 04KS
Phenol	140 mg/L		08/12/13 12:00	DWM	EPA 420.1 04KS
Solids - total dissolved solids (TDS)	53000 mg/L		08/12/13 11:50	DAW	SM 2540C 18Ed*
Solids - total suspended solids (TSS)	13000 mg/L		08/10/13 12:30	DAW	SM 2540D 18Ed 04KS
<b><u>Nutrients - PIA</u></b>					
Total Kjeldahl Nitrogen (TKN)	1200 mg/L		08/14/13 16:30	lgth	SM 4500-N B & NH3-H 18Ed MOD IL,IA,WI,AR
<b><u>Nutrients - STL</u></b>					
Ammonia-N	810 mg/L		08/12/13 11:30	ACV	SM(18) 4500 NH3 F 04KS
Phosphorus - total as P	< 5.0 mg/L		08/12/13 16:00	ACV	SM 4500P B E 18ed 04KS
<b><u>Semivolatile Organics - STL</u></b>					
1,2,4-Trichlorobenzene	< 500 ug/L		08/14/13 09:47	jk	EPA 625 04KS
1,2-Dichlorobenzene	< 500 ug/L		08/14/13 09:47	jk	EPA 625*
1,3-Dichlorobenzene	< 500 ug/L		08/14/13 09:47	jk	EPA 625*
1,4-Dichlorobenzene	< 500 ug/L		08/14/13 09:47	jk	EPA 625*
2,4,5-Trichlorophenol	< 500 ug/L		08/14/13 09:47	jk	EPA 625*
2,4,6-Trichlorophenol	< 500 ug/L		08/14/13 09:47	jk	EPA 625 04KS
2,4-Dichlorophenol	< 500 ug/L		08/14/13 09:47	jk	EPA 625 04KS
2,4-Dimethylphenol	< 500 ug/L		08/14/13 09:47	jk	EPA 625 04KS
2,4-Dinitrophenol	< 500 ug/L		08/14/13 09:47	jk	EPA 625 04KS
2,4-Dinitrotoluene	< 500 ug/L		08/14/13 09:47	jk	EPA 625 04KS
2,6-Dimethylaniline	< 250 ug/L		08/14/13 09:47	jk	EPA 625*
2,6-Dinitrotoluene	< 500 ug/L		08/14/13 09:47	jk	EPA 625 04KS



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**\*Revised Laboratory Results\***

Sample No: **3081515-03**  
Sample Description: **Location 1E**

Collect Date: **08/09/13 12:45**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b>Semivolatile Organics - STL</b>					
2-Chloronaphthalene	< 500 ug/L		08/14/13 09:47	jk	EPA 625 04KS
2-Chlorophenol	< 500 ug/L		08/14/13 09:47	jk	EPA 625 04KS
2-Nitrophenol	< 500 ug/L		08/14/13 09:47	jk	EPA 625 04KS
3,3'-Dichlorobenzidine	< 500 ug/L		08/14/13 09:47	jk	EPA 625 04KS
4,6-Dinitro-2-methylphenol	< 500 ug/L		08/14/13 09:47	jk	EPA 625*
4-Bromophenyl phenyl ether	< 500 ug/L		08/14/13 09:47	jk	EPA 625 04KS
4-Chloro-3-methylphenol	< 500 ug/L		08/14/13 09:47	jk	EPA 625 04KS
4-Chlorophenylphenyl ether	< 500 ug/L		08/14/13 09:47	jk	EPA 625 04KS
4-Nitrophenol	< 500 ug/L		08/14/13 09:47	jk	EPA 625 04KS
Acenaphthene	< 500 ug/L		08/14/13 09:47	jk	EPA 625 04KS
Acenaphthylene	< 500 ug/L		08/14/13 09:47	jk	EPA 625 04KS
Anthracene	< 500 ug/L		08/14/13 09:47	jk	EPA 625 04KS
Azobenzene	< 500 ug/L		08/14/13 09:47	jk	EPA 625*
Benzidine	< 500 ug/L		08/14/13 09:47	jk	EPA 625*
Benzo(a)anthracene	< 500 ug/L		08/14/13 09:47	jk	EPA 625 04KS
Benzo(a)pyrene	< 500 ug/L		08/14/13 09:47	jk	EPA 625 04KS
Benzo(b&k)fluoranthene	< 500 ug/L		08/14/13 09:47	jk	EPA 625 04KS
Benzo(b)fluoranthene	< 500 ug/L		08/14/13 09:47	jk	EPA 625 04KS
Benzo(g,h,i)perylene	< 500 ug/L		08/14/13 09:47	jk	EPA 625 04KS
Benzo(k)fluoranthene	< 500 ug/L		08/14/13 09:47	jk	EPA 625 04KS
Bis(2-chloroethoxy) methane	< 500 ug/L		08/14/13 09:47	jk	EPA 625 04KS
Bis(2-chloroethyl) ether	< 500 ug/L		08/14/13 09:47	jk	EPA 625 04KS
Bis(2-chloroisopropyl) ether	< 500 ug/L		08/14/13 09:47	jk	EPA 625 04KS
Bis(2-ethylhexyl) phthalate	< 500 ug/L		08/14/13 09:47	jk	EPA 625 04KS
Butyl benzyl phthalate	< 500 ug/L		08/14/13 09:47	jk	EPA 625 04KS
Chrysene	< 500 ug/L		08/14/13 09:47	jk	EPA 625 04KS
Dibenzo(a,h)anthracene	< 500 ug/L		08/14/13 09:47	jk	EPA 625 04KS
Diethyl phthalate	< 500 ug/L		08/14/13 09:47	jk	EPA 625 04KS
Dimethyl phthalate	< 500 ug/L		08/14/13 09:47	jk	EPA 625 04KS
Di-n-butyl phthalate	< 500 ug/L		08/14/13 09:47	jk	EPA 625 04KS
Di-n-octyl phthalate	< 500 ug/L		08/14/13 09:47	jk	EPA 625 04KS
Diphenylamine	< 500 ug/L		08/14/13 09:47	jk	EPA 625 04KS
Fluoranthene	< 500 ug/L		08/14/13 09:47	jk	EPA 625 04KS



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(314) 432-0550 • (800) 333-FAST • FAX (314) 432-4977



Bridgeton Landfill  
13570 St Charles Rock Road  
St. Louis, MO 63044  
Attn: Dan Feezor

Date Received: 08/09/13 16:20  
Report Date: 08/22/13  
Customer #: 277310

**\*Revised Laboratory Results\***

Sample No: **3081515-03**  
Sample Description: **Location 1E**

Collect Date: **08/09/13 12:45**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b>Semivolatile Organics - STL</b>					
Fluorene	< 500 ug/L		08/14/13 09:47	jk	EPA 625 04KS
Hexachlorobenzene	< 500 ug/L		08/14/13 09:47	jk	EPA 625 04KS
Hexachlorobutadiene	< 500 ug/L		08/14/13 09:47	jk	EPA 625 04KS
Hexachlorocyclopentadiene	< 500 ug/L		08/14/13 09:47	jk	EPA 625 04KS
Hexachloroethane	< 500 ug/L		08/14/13 09:47	jk	EPA 625 04KS
Indeno(1,2,3-cd)pyrene	< 500 ug/L		08/14/13 09:47	jk	EPA 625 04KS
Isophorone	< 500 ug/L		08/14/13 09:47	jk	EPA 625 04KS
Naphthalene	< 500 ug/L		08/14/13 09:47	jk	EPA 625 04KS
Nitrobenzene	< 500 ug/L		08/14/13 09:47	jk	EPA 625 04KS
N-Nitrosodimethylamine	< 500 ug/L		08/14/13 09:47	jk	EPA 625 04KS
N-Nitrosodi-n-propylamine	< 500 ug/L		08/14/13 09:47	jk	EPA 625 04KS
Pentachlorophenol	< 500 ug/L		08/14/13 09:47	jk	EPA 625 04KS
Phenanthrene	< 500 ug/L		08/14/13 09:47	jk	EPA 625 04KS
Phenol	6590 ug/L	Xb	08/14/13 15:19	jk	EPA 625 04KS
Pyrene	< 500 ug/L		08/14/13 09:47	jk	EPA 625 04KS
Surrogate: 2-Fluorophenol	59 % 10-101	S	08/14/13 09:47	jk	EPA 625
Surrogate: Phenol- d5	93 % 10-154	S	08/14/13 09:47	jk	EPA 625
Surrogate: Nitrobenzene-d5	146 % 10-119	S	08/14/13 09:47	jk	EPA 625
Surrogate: 2-Fluorobiphenyl	63 % 10-98	S	08/14/13 09:47	jk	EPA 625
Surrogate: 2,4,6-Tribromophenol	33 % 10-69	S	08/14/13 09:47	jk	EPA 625
Surrogate: p-Terphenyl-d14	65 % 11-97	S	08/14/13 09:47	jk	EPA 625
<b>Soluble Metals - STL</b>					
Silicon as SiO2	64 mg/L		08/13/13 12:11	WPS	EPA 200.7 R4.4
Aluminum	0.22 mg/L		08/13/13 12:11	WPS	EPA 200.7 R4.4*
Mercury	0.057 mg/L		08/13/13 15:55	KAE	EPA 245.1 R3.0 / 04KS SW 7470A
Antimony	< 0.10 mg/L		08/13/13 12:11	WPS	EPA 200.7 R4.4 04KS
Copper	< 0.020 mg/L		08/13/13 12:11	WPS	EPA 200.7 R4.4 04KS
Silver	< 0.020 mg/L		08/13/13 12:11	WPS	EPA 200.7 R4.4 04KS
Arsenic	0.49 mg/L		08/13/13 12:11	WPS	EPA 200.7 R4.4 04KS
Barium	2.4 mg/L		08/13/13 12:11	WPS	EPA 200.7 R4.4 04KS
Beryllium	< 0.010 mg/L		08/13/13 12:11	WPS	EPA 200.7 R4.4 04KS
Boron	16 mg/L		08/13/13 11:04	WPS	EPA 200.7 R4.4*



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Customer #: 277310

**\*Revised Laboratory Results\***

Sample No: **3081515-03**  
Sample Description: **Location 1E**

Collect Date: **08/09/13 12:45**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b><u>Soluble Metals - STL</u></b>					
Cadmium	< 0.020 mg/L		08/13/13 12:11	WPS	EPA 200.7 R4.4 04KS
Calcium	4500 mg/L		08/13/13 09:48	WPS	EPA 200.7 R4.4 04KS
Chromium	0.15 mg/L		08/13/13 12:11	WPS	EPA 200.7 R4.4 04KS
Cobalt	0.028 mg/L		08/13/13 12:11	WPS	EPA 200.7 R4.4 04KS
Iron	34 mg/L		08/13/13 12:11	WPS	EPA 200.7 R4.4 04KS
Lead	< 0.10 mg/L		08/13/13 12:11	WPS	EPA 200.7 R4.4 04KS
Magnesium	350 mg/L		08/13/13 11:04	WPS	EPA 200.7 R4.4 04KS
Manganese	13 mg/L		08/13/13 12:11	WPS	EPA 200.7 R4.4 04KS
Molybdenum	< 0.12 mg/L		08/13/13 12:11	WPS	EPA 200.7 R4.4 04KS
Nickel	0.12 mg/L		08/13/13 12:11	WPS	EPA 200.7 R4.4 04KS
Potassium	700 mg/L		08/13/13 11:04	WPS	EPA 200.7 R4.4*
Selenium	0.19 mg/L		08/13/13 12:11	WPS	EPA 200.7 R4.4 04KS
Sodium	4700 mg/L		08/13/13 09:48	WPS	EPA 200.7 R4.4*
Thallium	< 0.20 mg/L		08/13/13 12:11	WPS	EPA 200.7 R4.4 04KS
Vanadium	0.029 mg/L		08/13/13 12:11	WPS	EPA 200.7 R4.4 04KS
Zinc	1.9 mg/L		08/13/13 12:11	WPS	EPA 200.7 R4.4 04KS
Silicon	30 mg/L		08/13/13 12:11	WPS	EPA 200.7 R4.4*
<b><u>Total Metals - STL</u></b>					
Silicon as SiO2	240 mg/L		08/13/13 12:16	WPS	EPA 200.7 R4.4
Aluminum	37 mg/L		08/13/13 12:16	WPS	EPA 200.7 R4.4*
Mercury	0.062 mg/L		08/13/13 15:55	KAE	EPA 245.1 R3.0 / SW 7470A 04KS
Antimony	< 0.10 mg/L		08/13/13 12:16	WPS	EPA 200.7 R4.4 04KS
Silicon	110 mg/L		08/13/13 12:16	WPS	EPA 200.7 R4.4*
Arsenic	0.41 mg/L		08/13/13 12:16	WPS	EPA 200.7 R4.4 04KS
Barium	5.2 mg/L		08/13/13 12:16	WPS	EPA 200.7 R4.4 04KS
Beryllium	< 0.010 mg/L		08/13/13 12:16	WPS	EPA 200.7 R4.4 04KS
Hardness	16000 mg/L		08/13/13 11:08	WPS	SM 2340B
Boron	26 mg/L		08/13/13 11:08	WPS	EPA 200.7 R4.4*
Cadmium	0.16 mg/L		08/13/13 12:16	WPS	EPA 200.7 R4.4 04KS
Calcium	5600 mg/L		08/13/13 09:52	WPS	EPA 200.7 R4.4 04KS
Chromium	0.54 mg/L		08/13/13 12:16	WPS	EPA 200.7 R4.4 04KS
Cobalt	0.14 mg/L		08/13/13 12:16	WPS	EPA 200.7 R4.4 04KS
Copper	0.057 mg/L		08/13/13 12:16	WPS	EPA 200.7 R4.4 04KS



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**\*Revised Laboratory Results\***

Sample No: **3081515-03**  
Sample Description: **Location 1E**

Collect Date: **08/09/13 12:45**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b>Total Metals - STL</b>					
Iron	2200 mg/L		08/13/13 11:08	WPS	EPA 200.7 R4.4 04KS
Lead	0.40 mg/L		08/13/13 12:16	WPS	EPA 200.7 R4.4 04KS
Magnesium	590 mg/L		08/13/13 11:08	WPS	EPA 200.7 R4.4 04KS
Manganese	130 mg/L		08/13/13 12:16	WPS	EPA 200.7 R4.4 04KS
Molybdenum	< 0.12 mg/L		08/13/13 12:16	WPS	EPA 200.7 R4.4 04KS
Nickel	0.21 mg/L		08/13/13 12:16	WPS	EPA 200.7 R4.4 04KS
Potassium	770 mg/L		08/13/13 11:08	WPS	EPA 200.7 R4.4*
Selenium	< 0.10 mg/L		08/13/13 12:16	WPS	EPA 200.7 R4.4 04KS
Silver	< 0.020 mg/L		08/13/13 12:16	WPS	EPA 200.7 R4.4 04KS
Sodium	4800 mg/L		08/13/13 09:52	WPS	EPA 200.7 R4.4*
Thallium	< 0.20 mg/L		08/13/13 12:16	WPS	EPA 200.7 R4.4 04KS
Vanadium	0.14 mg/L		08/13/13 12:16	WPS	EPA 200.7 R4.4 04KS
Zinc	32 mg/L		08/13/13 12:16	WPS	EPA 200.7 R4.4 04KS

Sample No: **3081515-04**  
Sample Description: **Location 2**

Collect Date: **08/09/13 13:07**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b>Anions - STL</b>					
Chloride	12000 mg/L		08/13/13 11:43	DWM	EPA 300.0 R2.1 04KS
Nitrate-N	60 mg/L		08/10/13 09:42	DWM	EPA 300.0 R2.1 04KS
Nitrite-N	< 50 mg/L		08/10/13 09:42	DWM	EPA 300.0 R2.1 04KS
Phosphorus - ortho as P	< 30 mg/L		08/10/13 09:42	DWM	EPA 300.0 R2.1*
Sulfate	990 mg/L		08/10/13 09:42	DWM	EPA 300.0 R2.1 04KS
<b>General Chemistry - PIA</b>					
Total Organic Carbon (TOC)	20000 mg/L		08/14/13 19:01	Igsjw	5310C KS,IL,IA,WI,AR
<b>General Chemistry - STL</b>					
Alkalinity - total as CaCO3	9400 mg/L		08/10/13 10:00	ACV	SM 2320B 18Ed*
BOD	38000 mg/L		08/10/13 08:45	DAW	SM 5210B 18Ed 04KS
BOD - soluble	36000 mg/L		08/10/13 08:45	DAW	SM 5210B 18Ed*
COD	70000 mg/L		08/10/13 08:15	DAW	SM 5220D 18Ed 04KS





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**\*Revised Laboratory Results\***

Sample No: **3081515-04**  
Sample Description: **Location 2**

Collect Date: **08/09/13 13:07**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b>General Chemistry - STL</b>					
Cyanide	0.019 mg/L		08/13/13 14:10	DWM	SM 4500-CN C E 18Ed*
Cyanide - amenable	< 0.0050 mg/L	X	08/13/13 14:10	DWM	SM 4500CN CG 18Ed*
Cyanide - weak acid dissociable	< 0.020 mg/L	Xc	08/16/13 14:00	DWM	ASTM 1310-86*
Oil & Grease - total	< 12 mg/L		08/12/13 09:00	mep	EPA 1664A 04KS
Phenol	72 mg/L		08/12/13 12:00	DWM	EPA 420.1 04KS
Solids - total dissolved solids (TDS)	58000 mg/L		08/12/13 11:50	DAW	SM 2540C 18Ed*
Solids - total suspended solids (TSS)	13000 mg/L		08/10/13 12:30	DAW	SM 2540D 18Ed 04KS
<b>Nutrients - PIA</b>					
Total Kjeldahl Nitrogen (TKN)	1200 mg/L		08/14/13 16:31	lgth	SM 4500-N B & NH3-H 18Ed MOD IL,IA,WI,AR
<b>Nutrients - STL</b>					
Ammonia-N	820 mg/L		08/12/13 11:30	ACV	SM(18) 4500 NH3 F 04KS
Phosphorus - total as P	< 5.0 mg/L		08/12/13 16:00	ACV	SM 4500P B E 18ed 04KS
<b>Semivolatile Organics - STL</b>					
1,2,4-Trichlorobenzene	< 100 ug/L		08/14/13 10:33	jk	EPA 625 04KS
1,2-Dichlorobenzene	< 100 ug/L		08/14/13 10:33	jk	EPA 625*
1,3-Dichlorobenzene	< 100 ug/L		08/14/13 10:33	jk	EPA 625*
1,4-Dichlorobenzene	< 100 ug/L		08/14/13 10:33	jk	EPA 625*
2,4,5-Trichlorophenol	< 100 ug/L		08/14/13 10:33	jk	EPA 625*
2,4,6-Trichlorophenol	< 100 ug/L		08/14/13 10:33	jk	EPA 625 04KS
2,4-Dichlorophenol	< 100 ug/L		08/14/13 10:33	jk	EPA 625 04KS
2,4-Dimethylphenol	< 100 ug/L		08/14/13 10:33	jk	EPA 625 04KS
2,4-Dinitrophenol	< 100 ug/L		08/14/13 10:33	jk	EPA 625 04KS
2,4-Dinitrotoluene	< 100 ug/L		08/14/13 10:33	jk	EPA 625 04KS
2,6-Dimethylaniline	< 50.0 ug/L		08/14/13 10:33	jk	EPA 625*
2,6-Dinitrotoluene	< 100 ug/L		08/14/13 10:33	jk	EPA 625 04KS
2-Chloronaphthalene	< 100 ug/L		08/14/13 10:33	jk	EPA 625 04KS
2-Chlorophenol	< 100 ug/L		08/14/13 10:33	jk	EPA 625 04KS
2-Nitrophenol	< 100 ug/L		08/14/13 10:33	jk	EPA 625 04KS
3,3'-Dichlorobenzidine	< 100 ug/L		08/14/13 10:33	jk	EPA 625 04KS



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Sample No: **3081515-04**  
Sample Description: **Location 2**

Collect Date: **08/09/13 13:07**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b>Semivolatile Organics - STL</b>					
4,6-Dinitro-2-methylphenol	< 100 ug/L		08/14/13 10:33	jk	EPA 625*
4-Bromophenyl phenyl ether	< 100 ug/L		08/14/13 10:33	jk	EPA 625 04KS
4-Chloro-3-methylphenol	< 100 ug/L		08/14/13 10:33	jk	EPA 625 04KS
4-Chlorophenylphenyl ether	< 100 ug/L		08/14/13 10:33	jk	EPA 625 04KS
4-Nitrophenol	< 100 ug/L		08/14/13 10:33	jk	EPA 625 04KS
Acenaphthene	< 100 ug/L		08/14/13 10:33	jk	EPA 625 04KS
Acenaphthylene	< 100 ug/L		08/14/13 10:33	jk	EPA 625 04KS
Anthracene	< 100 ug/L		08/14/13 10:33	jk	EPA 625 04KS
Azobenzene	< 100 ug/L		08/14/13 10:33	jk	EPA 625*
Benzidine	< 100 ug/L		08/14/13 10:33	jk	EPA 625*
Benzo(a)anthracene	< 100 ug/L		08/14/13 10:33	jk	EPA 625 04KS
Benzo(a)pyrene	< 100 ug/L		08/14/13 10:33	jk	EPA 625 04KS
Benzo(b&k)fluoranthene	< 100 ug/L		08/14/13 10:33	jk	EPA 625 04KS
Benzo(b)fluoranthene	< 100 ug/L		08/14/13 10:33	jk	EPA 625 04KS
Benzo(g,h,i)perylene	< 100 ug/L		08/14/13 10:33	jk	EPA 625 04KS
Benzo(k)fluoranthene	< 100 ug/L		08/14/13 10:33	jk	EPA 625 04KS
Bis(2-chloroethoxy) methane	< 100 ug/L		08/14/13 10:33	jk	EPA 625 04KS
Bis(2-chloroethyl) ether	< 100 ug/L		08/14/13 10:33	jk	EPA 625 04KS
Bis(2-chloroisopropyl) ether	< 100 ug/L		08/14/13 10:33	jk	EPA 625 04KS
Bis(2-ethylhexyl) phthalate	< 100 ug/L		08/14/13 10:33	jk	EPA 625 04KS
Butyl benzyl phthalate	< 100 ug/L		08/14/13 10:33	jk	EPA 625 04KS
Chrysene	< 100 ug/L		08/14/13 10:33	jk	EPA 625 04KS
Dibenzo(a,h)anthracene	< 100 ug/L		08/14/13 10:33	jk	EPA 625 04KS
Diethyl phthalate	< 100 ug/L		08/14/13 10:33	jk	EPA 625 04KS
Dimethyl phthalate	< 100 ug/L		08/14/13 10:33	jk	EPA 625 04KS
Di-n-butyl phthalate	< 100 ug/L		08/14/13 10:33	jk	EPA 625 04KS
Di-n-octyl phthalate	< 100 ug/L		08/14/13 10:33	jk	EPA 625 04KS
Diphenylamine	< 100 ug/L		08/14/13 10:33	jk	EPA 625 04KS
Fluoranthene	< 100 ug/L		08/14/13 10:33	jk	EPA 625 04KS
Fluorene	< 100 ug/L		08/14/13 10:33	jk	EPA 625 04KS
Hexachlorobenzene	< 100 ug/L		08/14/13 10:33	jk	EPA 625 04KS
Hexachlorobutadiene	< 100 ug/L		08/14/13 10:33	jk	EPA 625 04KS
Hexachlorocyclopentadiene	< 100 ug/L		08/14/13 10:33	jk	EPA 625 04KS



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Sample No: **3081515-04**  
Sample Description: **Location 2**

Collect Date: **08/09/13 13:07**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b><u>Semivolatile Organics - STL</u></b>					
Hexachloroethane	< 100 ug/L		08/14/13 10:33	jk	EPA 625 04KS
Indeno(1,2,3-cd)pyrene	< 100 ug/L		08/14/13 10:33	jk	EPA 625 04KS
Isophorone	< 100 ug/L		08/14/13 10:33	jk	EPA 625 04KS
Naphthalene	< 100 ug/L		08/14/13 10:33	jk	EPA 625 04KS
Nitrobenzene	< 100 ug/L		08/14/13 10:33	jk	EPA 625 04KS
N-Nitrosodimethylamine	< 100 ug/L		08/14/13 10:33	jk	EPA 625 04KS
N-Nitrosodi-n-propylamine	< 100 ug/L		08/14/13 10:33	jk	EPA 625 04KS
Pentachlorophenol	< 100 ug/L		08/14/13 10:33	jk	EPA 625 04KS
Phenanthrene	< 100 ug/L		08/14/13 10:33	jk	EPA 625 04KS
Phenol	4070 ug/L	Xb	08/14/13 16:13	jk	EPA 625 04KS
Pyrene	< 100 ug/L		08/14/13 10:33	jk	EPA 625 04KS
Surrogate: 2-Fluorophenol	17 % 10-101	S	08/14/13 10:33	jk	EPA 625
Surrogate: Phenol- d5	20 % 10-154	S	08/14/13 10:33	jk	EPA 625
Surrogate: Nitrobenzene-d5	4 % 10-119	S	08/14/13 10:33	jk	EPA 625
Surrogate: 2-Fluorobiphenyl	45 % 10-98	S	08/14/13 10:33	jk	EPA 625
Surrogate: 2,4,6-Tribromophenol	3 % 10-69	S	08/14/13 10:33	jk	EPA 625
Surrogate: p-Terphenyl-d14	51 % 11-97	S	08/14/13 10:33	jk	EPA 625
<b><u>Soluble Metals - STL</u></b>					
Silicon as SiO2	61 mg/L		08/13/13 12:20	WPS	EPA 200.7 R4.4
Aluminum	0.26 mg/L		08/13/13 12:20	WPS	EPA 200.7 R4.4*
Mercury	< 0.0020 mg/L		08/13/13 15:55	KAE	EPA 245.1 R3.0 / 04KS SW 7470A
Antimony	< 0.10 mg/L		08/13/13 12:20	WPS	EPA 200.7 R4.4 04KS
Copper	< 0.020 mg/L		08/13/13 12:20	WPS	EPA 200.7 R4.4 04KS
Silver	< 0.020 mg/L		08/13/13 12:20	WPS	EPA 200.7 R4.4 04KS
Arsenic	0.23 mg/L		08/13/13 12:20	WPS	EPA 200.7 R4.4 04KS
Barium	2.4 mg/L		08/13/13 12:20	WPS	EPA 200.7 R4.4 04KS
Beryllium	< 0.010 mg/L		08/13/13 12:20	WPS	EPA 200.7 R4.4 04KS
Boron	16 mg/L		08/13/13 11:12	WPS	EPA 200.7 R4.4*
Cadmium	< 0.020 mg/L		08/13/13 12:20	WPS	EPA 200.7 R4.4 04KS
Calcium	4100 mg/L		08/13/13 09:56	WPS	EPA 200.7 R4.4 04KS
Chromium	0.14 mg/L		08/13/13 12:20	WPS	EPA 200.7 R4.4 04KS
Cobalt	0.027 mg/L		08/13/13 12:20	WPS	EPA 200.7 R4.4 04KS



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**\*Revised Laboratory Results\***

Sample No: **3081515-04**  
Sample Description: **Location 2**

Collect Date: **08/09/13 13:07**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b><u>Soluble Metals - STL</u></b>					
Iron	41 mg/L		08/13/13 12:20	WPS	EPA 200.7 R4.4 04KS
Lead	< 0.10 mg/L		08/13/13 12:20	WPS	EPA 200.7 R4.4 04KS
Magnesium	350 mg/L		08/13/13 11:12	WPS	EPA 200.7 R4.4 04KS
Manganese	16 mg/L		08/13/13 12:20	WPS	EPA 200.7 R4.4 04KS
Molybdenum	< 0.12 mg/L		08/13/13 12:20	WPS	EPA 200.7 R4.4 04KS
Nickel	0.13 mg/L		08/13/13 12:20	WPS	EPA 200.7 R4.4 04KS
Potassium	690 mg/L		08/13/13 11:12	WPS	EPA 200.7 R4.4*
Selenium	0.36 mg/L		08/13/13 12:20	WPS	EPA 200.7 R4.4 04KS
Sodium	4300 mg/L		08/13/13 09:56	WPS	EPA 200.7 R4.4*
Thallium	< 0.20 mg/L		08/13/13 12:20	WPS	EPA 200.7 R4.4 04KS
Vanadium	0.030 mg/L		08/13/13 12:20	WPS	EPA 200.7 R4.4 04KS
Zinc	2.2 mg/L		08/13/13 12:20	WPS	EPA 200.7 R4.4 04KS
Silicon	29 mg/L		08/13/13 12:20	WPS	EPA 200.7 R4.4*
<b><u>Total Metals - STL</u></b>					
Silicon as SiO2	290 mg/L		08/13/13 12:24	WPS	EPA 200.7 R4.4
Aluminum	52 mg/L		08/13/13 12:24	WPS	EPA 200.7 R4.4*
Mercury	0.041 mg/L		08/13/13 15:55	KAE	EPA 245.1 R3.0 / 04KS SW 7470A
Antimony	0.14 mg/L		08/13/13 12:24	WPS	EPA 200.7 R4.4 04KS
Silicon	140 mg/L		08/13/13 12:24	WPS	EPA 200.7 R4.4*
Arsenic	0.49 mg/L		08/13/13 12:24	WPS	EPA 200.7 R4.4 04KS
Barium	6.7 mg/L		08/13/13 12:24	WPS	EPA 200.7 R4.4 04KS
Beryllium	< 0.010 mg/L		08/13/13 12:24	WPS	EPA 200.7 R4.4 04KS
Hardness	18000 mg/L		08/13/13 11:16	WPS	SM 2340B
Boron	31 mg/L		08/13/13 11:16	WPS	EPA 200.7 R4.4*
Cadmium	0.24 mg/L		08/13/13 12:24	WPS	EPA 200.7 R4.4 04KS
Calcium	6000 mg/L		08/13/13 10:00	WPS	EPA 200.7 R4.4 04KS
Chromium	0.69 mg/L		08/13/13 12:24	WPS	EPA 200.7 R4.4 04KS
Cobalt	0.20 mg/L		08/13/13 12:24	WPS	EPA 200.7 R4.4 04KS
Copper	3.6 mg/L		08/13/13 12:24	WPS	EPA 200.7 R4.4 04KS
Iron	3400 mg/L		08/13/13 11:16	WPS	EPA 200.7 R4.4 04KS
Lead	0.66 mg/L		08/13/13 12:24	WPS	EPA 200.7 R4.4 04KS
Magnesium	640 mg/L		08/13/13 11:16	WPS	EPA 200.7 R4.4 04KS
Manganese	190 mg/L		08/13/13 12:24	WPS	EPA 200.7 R4.4 04KS



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Bridgeton Landfill  
13570 St Charles Rock Road  
St. Louis, MO 63044  
Attn: Dan Feezor

Date Received: 08/09/13 16:20  
Report Date: 08/22/13  
Customer #: 277310

**\*Revised Laboratory Results\***

Sample No: **3081515-04**  
Sample Description: **Location 2**

Collect Date: **08/09/13 13:07**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b><u>Total Metals - STL</u></b>					
Molybdenum	< 0.12 mg/L		08/13/13 12:24	WPS	EPA 200.7 R4.4 04KS
Nickel	0.25 mg/L		08/13/13 12:24	WPS	EPA 200.7 R4.4 04KS
Potassium	770 mg/L		08/13/13 11:16	WPS	EPA 200.7 R4.4*
Selenium	< 0.10 mg/L		08/13/13 12:24	WPS	EPA 200.7 R4.4 04KS
Silver	0.022 mg/L		08/13/13 12:24	WPS	EPA 200.7 R4.4 04KS
Sodium	4500 mg/L		08/13/13 10:00	WPS	EPA 200.7 R4.4*
Thallium	< 0.20 mg/L		08/13/13 12:24	WPS	EPA 200.7 R4.4 04KS
Vanadium	0.24 mg/L		08/13/13 12:24	WPS	EPA 200.7 R4.4 04KS
Zinc	51 mg/L		08/13/13 12:24	WPS	EPA 200.7 R4.4 04KS

Sample No: **3081515-05**  
Sample Description: **Location 3**

Collect Date: **08/09/13 13:15**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b><u>General Chemistry - STL</u></b>					
Solids - total suspended solids (TSS)	11000 mg/L		08/10/13 12:30	DAW	SM 2540D 18Ed 04KS
Solids - total volatile suspended solids	4200 mg/L		08/10/13 12:30	DAW	SM 2540E 18Ed*

Sample No: **3081515-06**  
Sample Description: **Location 4**

Collect Date: **08/09/13 13:30**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b><u>Anions - STL</u></b>					
Chloride	2100 mg/L		08/13/13 12:20	DWM	EPA 300.0 R2.1 04KS
Nitrate-N	< 25 mg/L		08/10/13 10:00	DWM	EPA 300.0 R2.1 04KS
Nitrite-N	< 25 mg/L		08/10/13 10:00	DWM	EPA 300.0 R2.1 04KS
Phosphorus - ortho as P	790 mg/L	E	08/10/13 10:00	DWM	EPA 300.0 R2.1*
Sulfate	230 mg/L		08/10/13 10:00	DWM	EPA 300.0 R2.1 04KS
<b><u>General Chemistry - PIA</u></b>					
Total Organic Carbon (TOC)	810 mg/L		08/13/13 23:53	lgsjw	5310C KS,IL,IA,WI,AR

3081515



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St. Louis, MO 63044  
Attn: Dan Feezor

Date Received: 08/09/13 16:20  
Report Date: 08/22/13  
Customer #: 277310

**\*Revised Laboratory Results\***

Sample No: **3081515-06**  
Sample Description: **Location 4**

Collect Date: **08/09/13 13:30**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b>General Chemistry - STL</b>					
Alkalinity - total as CaCO3	1100 mg/L		08/10/13 10:00	ACV	SM 2320B 18Ed*
BOD	760 mg/L		08/10/13 08:45	DAW	SM 5210B 18Ed 04KS
BOD - soluble	210 mg/L		08/10/13 08:45	DAW	SM 5210B 18Ed*
COD	3200 mg/L		08/10/13 08:15	DAW	SM 5220D 18Ed 04KS
Cyanide	0.0090 mg/L		08/13/13 14:10	DWM	SM 4500-CN C E 18Ed*
Cyanide - amenable	< 0.0050 mg/L	X	08/13/13 14:10	DWM	SM 4500CN CG 18Ed*
Cyanide - weak acid dissociable	0.010 mg/L	Xc	08/16/13 14:00	DWM	ASTM 1310-86*
Oil & Grease - total	< 5.5 mg/L		08/12/13 09:00	mep	EPA 1664A 04KS
Phenol	< 2.5 mg/L		08/12/13 12:00	DWM	EPA 420.1 04KS
Solids - total dissolved solids (TDS)	8400 mg/L		08/12/13 11:50	DAW	SM 2540C 18Ed*
Solids - total suspended solids (TSS)	8.8 mg/L		08/10/13 12:30	DAW	SM 2540D 18Ed 04KS
<b>Nutrients - PIA</b>					
Total Kjeldahl Nitrogen (TKN)	290 mg/L		08/14/13 16:31	lgth	SM 4500-N B & NH3-H 18Ed MOD IL,IA,WI,AR
<b>Nutrients - STL</b>					
Ammonia-N	120 mg/L		08/12/13 11:30	ACV	SM(18) 4500 NH3 F 04KS
Phosphorus - total as P	660 mg/L		08/12/13 16:00	ACV	SM 4500P B E 18ed 04KS
<b>Semivolatile Organics - STL</b>					
1,2,4-Trichlorobenzene	< 20.0 ug/L		08/14/13 07:29	jk	EPA 625 04KS
1,2-Dichlorobenzene	< 20.0 ug/L		08/14/13 07:29	jk	EPA 625*
1,3-Dichlorobenzene	< 20.0 ug/L		08/14/13 07:29	jk	EPA 625*
1,4-Dichlorobenzene	< 20.0 ug/L		08/14/13 07:29	jk	EPA 625*
2,4,5-Trichlorophenol	< 20.0 ug/L		08/14/13 07:29	jk	EPA 625*
2,4,6-Trichlorophenol	< 20.0 ug/L		08/14/13 07:29	jk	EPA 625 04KS
2,4-Dichlorophenol	< 20.0 ug/L	Q1	08/14/13 07:29	jk	EPA 625 04KS
2,4-Dimethylphenol	< 20.0 ug/L		08/14/13 07:29	jk	EPA 625 04KS
2,4-Dinitrophenol	< 20.0 ug/L		08/14/13 07:29	jk	EPA 625 04KS
2,4-Dinitrotoluene	< 20.0 ug/L		08/14/13 07:29	jk	EPA 625 04KS
2,6-Dimethylaniline	< 10.0 ug/L		08/14/13 07:29	jk	EPA 625*
2,6-Dinitrotoluene	< 20.0 ug/L		08/14/13 07:29	jk	EPA 625 04KS



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Date Received: 08/09/13 16:20  
Report Date: 08/22/13  
Customer #: 277310

**\*Revised Laboratory Results\***

Sample No: **3081515-06**  
Sample Description: **Location 4**

Collect Date: **08/09/13 13:30**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b>Semivolatile Organics - STL</b>					
2-Chloronaphthalene	< 20.0 ug/L		08/14/13 07:29	jk	EPA 625 04KS
2-Chlorophenol	< 20.0 ug/L		08/14/13 07:29	jk	EPA 625 04KS
2-Nitrophenol	< 20.0 ug/L		08/14/13 07:29	jk	EPA 625 04KS
3,3'-Dichlorobenzidine	< 20.0 ug/L	Q1	08/14/13 07:29	jk	EPA 625 04KS
4,6-Dinitro-2-methylphenol	< 20.0 ug/L		08/14/13 07:29	jk	EPA 625*
4-Bromophenyl phenyl ether	< 20.0 ug/L		08/14/13 07:29	jk	EPA 625 04KS
4-Chloro-3-methylphenol	< 20.0 ug/L		08/14/13 07:29	jk	EPA 625 04KS
4-Chlorophenylphenyl ether	< 20.0 ug/L		08/14/13 07:29	jk	EPA 625 04KS
4-Nitrophenol	< 20.0 ug/L		08/14/13 07:29	jk	EPA 625 04KS
Acenaphthene	< 20.0 ug/L		08/14/13 07:29	jk	EPA 625 04KS
Acenaphthylene	< 20.0 ug/L		08/14/13 07:29	jk	EPA 625 04KS
Anthracene	< 20.0 ug/L		08/14/13 07:29	jk	EPA 625 04KS
Azobenzene	< 20.0 ug/L		08/14/13 07:29	jk	EPA 625*
Benzidine	< 20.0 ug/L	Q1	08/14/13 07:29	jk	EPA 625*
Benzo(a)anthracene	< 20.0 ug/L		08/14/13 07:29	jk	EPA 625 04KS
Benzo(a)pyrene	< 20.0 ug/L		08/14/13 07:29	jk	EPA 625 04KS
Benzo(b&k)fluoranthene	< 20.0 ug/L		08/14/13 07:29	jk	EPA 625 04KS
Benzo(b)fluoranthene	< 20.0 ug/L		08/14/13 07:29	jk	EPA 625 04KS
Benzo(g,h,i)perylene	< 20.0 ug/L		08/14/13 07:29	jk	EPA 625 04KS
Benzo(k)fluoranthene	< 20.0 ug/L		08/14/13 07:29	jk	EPA 625 04KS
Bis(2-chloroethoxy) methane	< 20.0 ug/L		08/14/13 07:29	jk	EPA 625 04KS
Bis(2-chloroethyl) ether	< 20.0 ug/L		08/14/13 07:29	jk	EPA 625 04KS
Bis(2-chloroisopropyl) ether	< 20.0 ug/L		08/14/13 07:29	jk	EPA 625 04KS
Bis(2-ethylhexyl) phthalate	< 20.0 ug/L		08/14/13 07:29	jk	EPA 625 04KS
Butyl benzyl phthalate	< 20.0 ug/L		08/14/13 07:29	jk	EPA 625 04KS
Chrysene	< 20.0 ug/L		08/14/13 07:29	jk	EPA 625 04KS
Dibenzo(a,h)anthracene	< 20.0 ug/L		08/14/13 07:29	jk	EPA 625 04KS
Diethyl phthalate	< 20.0 ug/L		08/14/13 07:29	jk	EPA 625 04KS
Dimethyl phthalate	< 20.0 ug/L		08/14/13 07:29	jk	EPA 625 04KS
Di-n-butyl phthalate	< 20.0 ug/L		08/14/13 07:29	jk	EPA 625 04KS
Di-n-octyl phthalate	< 20.0 ug/L		08/14/13 07:29	jk	EPA 625 04KS
Diphenylamine	< 20.0 ug/L		08/14/13 07:29	jk	EPA 625 04KS
Fluoranthene	< 20.0 ug/L		08/14/13 07:29	jk	EPA 625 04KS



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Bridgeton Landfill  
13570 St Charles Rock Road  
St. Louis, MO 63044  
Attn: Dan Feezor

Date Received: 08/09/13 16:20  
Report Date: 08/22/13  
Customer #: 277310

**\*Revised Laboratory Results\***

Sample No: **3081515-06**  
Sample Description: **Location 4**

Collect Date: **08/09/13 13:30**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b>Semivolatile Organics - STL</b>					
Fluorene	< 20.0 ug/L		08/14/13 07:29	jk	EPA 625 04KS
Hexachlorobenzene	< 20.0 ug/L		08/14/13 07:29	jk	EPA 625 04KS
Hexachlorobutadiene	< 20.0 ug/L		08/14/13 07:29	jk	EPA 625 04KS
Hexachlorocyclopentadiene	< 20.0 ug/L		08/14/13 07:29	jk	EPA 625 04KS
Hexachloroethane	< 20.0 ug/L		08/14/13 07:29	jk	EPA 625 04KS
Indeno(1,2,3-cd)pyrene	< 20.0 ug/L		08/14/13 07:29	jk	EPA 625 04KS
Isophorone	< 20.0 ug/L		08/14/13 07:29	jk	EPA 625 04KS
Naphthalene	< 20.0 ug/L		08/14/13 07:29	jk	EPA 625 04KS
Nitrobenzene	< 20.0 ug/L	Q1	08/14/13 07:29	jk	EPA 625 04KS
N-Nitrosodimethylamine	< 20.0 ug/L		08/14/13 07:29	jk	EPA 625 04KS
N-Nitrosodi-n-propylamine	< 20.0 ug/L		08/14/13 07:29	jk	EPA 625 04KS
Pentachlorophenol	< 20.0 ug/L		08/14/13 07:29	jk	EPA 625 04KS
Phenanthrene	< 20.0 ug/L		08/14/13 07:29	jk	EPA 625 04KS
Phenol	< 20.0 ug/L	Q1	08/14/13 07:29	jk	EPA 625 04KS
Pyrene	< 20.0 ug/L		08/14/13 07:29	jk	EPA 625 04KS
Surrogate: 2-Fluorophenol	6 % 10-101	Xa	08/14/13 07:29	jk	EPA 625
Surrogate: Phenol- d5	9 % 10-154	Xa	08/14/13 07:29	jk	EPA 625
Surrogate: Nitrobenzene-d5	79 % 10-119		08/14/13 07:29	jk	EPA 625
Surrogate: 2-Fluorobiphenyl	57 % 10-98		08/14/13 07:29	jk	EPA 625
Surrogate: 2,4,6-Tribromophenol	12 % 10-69		08/14/13 07:29	jk	EPA 625
Surrogate: p-Terphenyl-d14	73 % 11-97		08/14/13 07:29	jk	EPA 625
<b>Soluble Metals - STL</b>					
Silicon as SiO2	48 mg/L		08/13/13 12:40	WPS	EPA 200.7 R4.4
Aluminum	< 0.15 mg/L		08/13/13 12:40	WPS	EPA 200.7 R4.4*
Mercury	< 0.0020 mg/L		08/13/13 15:55	KAE	EPA 245.1 R3.0 / 04KS SW 7470A
Antimony	< 0.10 mg/L		08/13/13 12:40	WPS	EPA 200.7 R4.4 04KS
Copper	0.034 mg/L		08/13/13 12:40	WPS	EPA 200.7 R4.4 04KS
Silver	< 0.020 mg/L		08/13/13 12:40	WPS	EPA 200.7 R4.4 04KS
Arsenic	0.16 mg/L		08/13/13 12:40	WPS	EPA 200.7 R4.4 04KS
Barium	< 0.10 mg/L		08/13/13 12:40	WPS	EPA 200.7 R4.4 04KS
Beryllium	< 0.010 mg/L		08/13/13 12:40	WPS	EPA 200.7 R4.4 04KS
Boron	8.4 mg/L		08/13/13 12:40	WPS	EPA 200.7 R4.4*





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13570 St Charles Rock Road  
St. Louis, MO 63044  
Attn: Dan Feezor

Date Received: 08/09/13 16:20  
Report Date: 08/22/13  
Customer #: 277310

**\*Revised Laboratory Results\***

Sample No: **3081515-06**  
Sample Description: **Location 4**

Collect Date: **08/09/13 13:30**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b><u>Soluble Metals - STL</u></b>					
Cadmium	< 0.020 mg/L		08/13/13 12:40	WPS	EPA 200.7 R4.4 04KS
Calcium	22 mg/L		08/13/13 12:40	WPS	EPA 200.7 R4.4 04KS
Chromium	0.063 mg/L		08/13/13 12:40	WPS	EPA 200.7 R4.4 04KS
Cobalt	< 0.020 mg/L		08/13/13 12:40	WPS	EPA 200.7 R4.4 04KS
Iron	1.4 mg/L		08/13/13 12:40	WPS	EPA 200.7 R4.4 04KS
Lead	< 0.10 mg/L		08/13/13 12:40	WPS	EPA 200.7 R4.4 04KS
Magnesium	41 mg/L		08/13/13 12:40	WPS	EPA 200.7 R4.4 04KS
Manganese	0.35 mg/L		08/13/13 12:40	WPS	EPA 200.7 R4.4 04KS
Molybdenum	< 0.12 mg/L		08/13/13 12:40	WPS	EPA 200.7 R4.4 04KS
Nickel	0.075 mg/L		08/13/13 12:40	WPS	EPA 200.7 R4.4 04KS
Potassium	200 mg/L		08/13/13 12:40	WPS	EPA 200.7 R4.4*
Selenium	< 0.10 mg/L		08/13/13 12:40	WPS	EPA 200.7 R4.4 04KS
Sodium	1400 mg/L		08/13/13 11:20	WPS	EPA 200.7 R4.4*
Thallium	< 0.20 mg/L		08/13/13 12:40	WPS	EPA 200.7 R4.4 04KS
Vanadium	< 0.020 mg/L		08/13/13 12:40	WPS	EPA 200.7 R4.4 04KS
Zinc	0.19 mg/L		08/13/13 12:40	WPS	EPA 200.7 R4.4 04KS
Silicon	22 mg/L		08/13/13 12:40	WPS	EPA 200.7 R4.4*
<b><u>Total Metals - STL</u></b>					
Silicon as SiO2	50 mg/L		08/13/13 12:44	WPS	EPA 200.7 R4.4
Aluminum	< 0.15 mg/L		08/13/13 12:44	WPS	EPA 200.7 R4.4*
Mercury	< 0.0020 mg/L		08/13/13 15:55	KAE	EPA 245.1 R3.0 / SW 7470A 04KS
Antimony	< 0.10 mg/L		08/13/13 12:44	WPS	EPA 200.7 R4.4 04KS
Silicon	23 mg/L		08/13/13 12:44	WPS	EPA 200.7 R4.4*
Arsenic	< 0.15 mg/L		08/13/13 12:44	WPS	EPA 200.7 R4.4 04KS
Barium	< 0.10 mg/L		08/13/13 12:44	WPS	EPA 200.7 R4.4 04KS
Beryllium	< 0.010 mg/L		08/13/13 12:44	WPS	EPA 200.7 R4.4 04KS
Hardness	190 mg/L		08/13/13 12:44	WPS	SM 2340B
Boron	8.9 mg/L		08/13/13 12:44	WPS	EPA 200.7 R4.4*
Cadmium	< 0.020 mg/L		08/13/13 12:44	WPS	EPA 200.7 R4.4 04KS
Calcium	22 mg/L		08/13/13 12:44	WPS	EPA 200.7 R4.4 04KS
Chromium	0.069 mg/L		08/13/13 12:44	WPS	EPA 200.7 R4.4 04KS
Cobalt	0.021 mg/L		08/13/13 12:44	WPS	EPA 200.7 R4.4 04KS
Copper	0.029 mg/L		08/13/13 12:44	WPS	EPA 200.7 R4.4 04KS



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St. Louis, MO 63044  
Attn: Dan Feezor

Date Received: 08/09/13 16:20  
Report Date: 08/22/13  
Customer #: 277310

**\*Revised Laboratory Results\***

Sample No: **3081515-06**  
Sample Description: **Location 4**

Collect Date: **08/09/13 13:30**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b>Total Metals - STL</b>					
Iron	1.4 mg/L		08/13/13 12:44	WPS	EPA 200.7 R4.4 04KS
Lead	< 0.10 mg/L		08/13/13 12:44	WPS	EPA 200.7 R4.4 04KS
Magnesium	32 mg/L		08/13/13 12:44	WPS	EPA 200.7 R4.4 04KS
Manganese	0.34 mg/L		08/13/13 12:44	WPS	EPA 200.7 R4.4 04KS
Molybdenum	< 0.12 mg/L		08/13/13 12:44	WPS	EPA 200.7 R4.4 04KS
Nickel	0.071 mg/L		08/13/13 12:44	WPS	EPA 200.7 R4.4 04KS
Potassium	210 mg/L		08/13/13 12:44	WPS	EPA 200.7 R4.4*
Selenium	0.11 mg/L		08/13/13 12:44	WPS	EPA 200.7 R4.4 04KS
Silver	< 0.020 mg/L		08/13/13 12:44	WPS	EPA 200.7 R4.4 04KS
Sodium	2100 mg/L		08/13/13 10:08	WPS	EPA 200.7 R4.4*
Thallium	< 0.20 mg/L		08/13/13 12:44	WPS	EPA 200.7 R4.4 04KS
Vanadium	< 0.020 mg/L		08/13/13 12:44	WPS	EPA 200.7 R4.4 04KS
Zinc	0.22 mg/L		08/13/13 12:44	WPS	EPA 200.7 R4.4 04KS

Sample No: **3081515-07**  
Sample Description: **Field Blank**

Collect Date: **08/09/13 14:15**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b>Anions - STL</b>					
Chloride	< 100 mg/L		08/10/13 10:19	DWM	EPA 300.0 R2.1 04KS
Nitrate-N	< 0.50 mg/L		08/10/13 10:19	DWM	EPA 300.0 R2.1 04KS
Nitrite-N	< 0.50 mg/L		08/10/13 10:19	DWM	EPA 300.0 R2.1 04KS
Phosphorus - ortho as P	< 0.30 mg/L		08/10/13 10:19	DWM	EPA 300.0 R2.1*
Sulfate	< 0.50 mg/L		08/10/13 10:19	DWM	EPA 300.0 R2.1 04KS
<b>General Chemistry - PIA</b>					
Total Organic Carbon (TOC)	< 0.50 mg/L		08/14/13 00:00	lgsjw	5310C KS,IL,IA,WI,AR
<b>General Chemistry - STL</b>					
Alkalinity - total as CaCO3	4.0 mg/L		08/10/13 10:00	ACV	SM 2320B 18Ed*
BOD	< 6.0 mg/L		08/10/13 08:45	DAW	SM 5210B 18Ed 04KS
BOD - soluble	< 6.0 mg/L		08/10/13 08:45	DAW	SM 5210B 18Ed*
COD	< 5.0 mg/L		08/10/13 08:15	DAW	SM 5220D 18Ed 04KS



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Bridgeton Landfill  
13570 St Charles Rock Road  
St. Louis, MO 63044  
Attn: Dan Feezor

Date Received: 08/09/13 16:20  
Report Date: 08/22/13  
Customer #: 277310

**\*Revised Laboratory Results\***

Sample No: **3081515-07**  
Sample Description: **Field Blank**

Collect Date: **08/09/13 14:15**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b><u>General Chemistry - STL</u></b>					
Cyanide	< 0.0050 mg/L		08/13/13 14:10	DWM	SM 4500-CN C E 18Ed*
Cyanide - amenable	< 0.0050 mg/L		08/13/13 14:10	DWM	SM 4500CN CG 18Ed*
Cyanide - weak acid dissociable	< 0.0050 mg/L	Xc	08/16/13 14:00	DWM	ASTM 1310-86*
Oil & Grease - total	< 5.1 mg/L		08/12/13 09:00	mep	EPA 1664A 04KS
Phenol	< 0.050 mg/L		08/12/13 12:00	DWM	EPA 420.1 04KS
Solids - total dissolved solids (TDS)	< 17 mg/L		08/12/13 11:50	DAW	SM 2540C 18Ed*
Solids - total suspended solids (TSS)	< 2.0 mg/L		08/10/13 12:30	DAW	SM 2540D 18Ed 04KS
<b><u>Nutrients - PIA</u></b>					
Total Kjeldahl Nitrogen (TKN)	< 1.0 mg/L		08/14/13 16:34	Igth	SM 4500-N B & NH3-H 18Ed MOD IL,IA,WI,AR
<b><u>Nutrients - STL</u></b>					
Ammonia-N	0.033 mg/L		08/12/13 11:30	ACV	SM(18) 4500 NH3 F 04KS
Phosphorus - total as P	< 0.050 mg/L		08/12/13 16:00	ACV	SM 4500P B E 18ed 04KS
<b><u>Semivolatile Organics - STL</u></b>					
1,2,4-Trichlorobenzene	< 10.0 ug/L		08/14/13 06:43	jk	EPA 625 04KS
1,2-Dichlorobenzene	< 10.0 ug/L		08/14/13 06:43	jk	EPA 625*
1,3-Dichlorobenzene	< 10.0 ug/L		08/14/13 06:43	jk	EPA 625*
1,4-Dichlorobenzene	< 10.0 ug/L		08/14/13 06:43	jk	EPA 625*
2,4,5-Trichlorophenol	< 10.0 ug/L		08/14/13 06:43	jk	EPA 625*
2,4,6-Trichlorophenol	< 10.0 ug/L		08/14/13 06:43	jk	EPA 625 04KS
2,4-Dichlorophenol	< 10.0 ug/L		08/14/13 06:43	jk	EPA 625 04KS
2,4-Dimethylphenol	< 10.0 ug/L		08/14/13 06:43	jk	EPA 625 04KS
2,4-Dinitrophenol	< 10.0 ug/L		08/14/13 06:43	jk	EPA 625 04KS
2,4-Dinitrotoluene	< 10.0 ug/L		08/14/13 06:43	jk	EPA 625 04KS
2,6-Dimethylaniline	< 5.00 ug/L		08/14/13 06:43	jk	EPA 625*
2,6-Dinitrotoluene	< 10.0 ug/L		08/14/13 06:43	jk	EPA 625 04KS
2-Chloronaphthalene	< 10.0 ug/L		08/14/13 06:43	jk	EPA 625 04KS
2-Chlorophenol	< 10.0 ug/L		08/14/13 06:43	jk	EPA 625 04KS
2-Nitrophenol	< 10.0 ug/L		08/14/13 06:43	jk	EPA 625 04KS
3,3'-Dichlorobenzidine	< 10.0 ug/L		08/14/13 06:43	jk	EPA 625 04KS



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Attn: Dan Feezor

Date Received: 08/09/13 16:20  
Report Date: 08/22/13  
Customer #: 277310

**\*Revised Laboratory Results\***

Sample No: **3081515-07**  
Sample Description: **Field Blank**

Collect Date: **08/09/13 14:15**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b>Semivolatile Organics - STL</b>					
4,6-Dinitro-2-methylphenol	< 10.0 ug/L		08/14/13 06:43	jk	EPA 625*
4-Bromophenyl phenyl ether	< 10.0 ug/L		08/14/13 06:43	jk	EPA 625 04KS
4-Chloro-3-methylphenol	< 10.0 ug/L		08/14/13 06:43	jk	EPA 625 04KS
4-Chlorophenylphenyl ether	< 10.0 ug/L		08/14/13 06:43	jk	EPA 625 04KS
4-Nitrophenol	< 10.0 ug/L		08/14/13 06:43	jk	EPA 625 04KS
Acenaphthene	< 10.0 ug/L		08/14/13 06:43	jk	EPA 625 04KS
Acenaphthylene	< 10.0 ug/L		08/14/13 06:43	jk	EPA 625 04KS
Anthracene	< 10.0 ug/L		08/14/13 06:43	jk	EPA 625 04KS
Azobenzene	< 10.0 ug/L		08/14/13 06:43	jk	EPA 625*
Benzidine	< 10.0 ug/L		08/14/13 06:43	jk	EPA 625*
Benzo(a)anthracene	< 10.0 ug/L		08/14/13 06:43	jk	EPA 625 04KS
Benzo(a)pyrene	< 10.0 ug/L		08/14/13 06:43	jk	EPA 625 04KS
Benzo(b&k)fluoranthene	< 10.0 ug/L		08/14/13 06:43	jk	EPA 625 04KS
Benzo(b)fluoranthene	< 10.0 ug/L		08/14/13 06:43	jk	EPA 625 04KS
Benzo(g,h,i)perylene	< 10.0 ug/L		08/14/13 06:43	jk	EPA 625 04KS
Benzo(k)fluoranthene	< 10.0 ug/L		08/14/13 06:43	jk	EPA 625 04KS
Bis(2-chloroethoxy) methane	< 10.0 ug/L		08/14/13 06:43	jk	EPA 625 04KS
Bis(2-chloroethyl) ether	< 10.0 ug/L		08/14/13 06:43	jk	EPA 625 04KS
Bis(2-chloroisopropyl) ether	< 10.0 ug/L		08/14/13 06:43	jk	EPA 625 04KS
Bis(2-ethylhexyl) phthalate	< 10.0 ug/L		08/14/13 06:43	jk	EPA 625 04KS
Butyl benzyl phthalate	< 10.0 ug/L		08/14/13 06:43	jk	EPA 625 04KS
Chrysene	< 10.0 ug/L		08/14/13 06:43	jk	EPA 625 04KS
Dibenzo(a,h)anthracene	< 10.0 ug/L		08/14/13 06:43	jk	EPA 625 04KS
Diethyl phthalate	< 10.0 ug/L		08/14/13 06:43	jk	EPA 625 04KS
Dimethyl phthalate	< 10.0 ug/L		08/14/13 06:43	jk	EPA 625 04KS
Di-n-butyl phthalate	< 10.0 ug/L		08/14/13 06:43	jk	EPA 625 04KS
Di-n-octyl phthalate	< 10.0 ug/L		08/14/13 06:43	jk	EPA 625 04KS
Diphenylamine	< 10.0 ug/L		08/14/13 06:43	jk	EPA 625 04KS
Fluoranthene	< 10.0 ug/L		08/14/13 06:43	jk	EPA 625 04KS
Fluorene	< 10.0 ug/L		08/14/13 06:43	jk	EPA 625 04KS
Hexachlorobenzene	< 10.0 ug/L		08/14/13 06:43	jk	EPA 625 04KS
Hexachlorobutadiene	< 10.0 ug/L		08/14/13 06:43	jk	EPA 625 04KS
Hexachlorocyclopentadiene	< 10.0 ug/L		08/14/13 06:43	jk	EPA 625 04KS



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Attn: Dan Feezor

Date Received: 08/09/13 16:20  
Report Date: 08/22/13  
Customer #: 277310

**\*Revised Laboratory Results\***

Sample No: **3081515-07**  
Sample Description: **Field Blank**

Collect Date: **08/09/13 14:15**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b><u>Semivolatile Organics - STL</u></b>					
Hexachloroethane	< 10.0 ug/L		08/14/13 06:43	jk	EPA 625 04KS
Indeno(1,2,3-cd)pyrene	< 10.0 ug/L		08/14/13 06:43	jk	EPA 625 04KS
Isophorone	< 10.0 ug/L		08/14/13 06:43	jk	EPA 625 04KS
Naphthalene	< 10.0 ug/L		08/14/13 06:43	jk	EPA 625 04KS
Nitrobenzene	< 10.0 ug/L		08/14/13 06:43	jk	EPA 625 04KS
N-Nitrosodimethylamine	< 10.0 ug/L		08/14/13 06:43	jk	EPA 625 04KS
N-Nitrosodi-n-propylamine	< 10.0 ug/L		08/14/13 06:43	jk	EPA 625 04KS
Pentachlorophenol	< 10.0 ug/L		08/14/13 06:43	jk	EPA 625 04KS
Phenanthrene	< 10.0 ug/L		08/14/13 06:43	jk	EPA 625 04KS
Phenol	< 10.0 ug/L		08/14/13 06:43	jk	EPA 625 04KS
Pyrene	< 10.0 ug/L		08/14/13 06:43	jk	EPA 625 04KS
Surrogate: 2-Fluorophenol	18 % 10-101		08/14/13 06:43	jk	EPA 625
Surrogate: Phenol- d5	12 % 10-154		08/14/13 06:43	jk	EPA 625
Surrogate: Nitrobenzene-d5	61 % 10-119		08/14/13 06:43	jk	EPA 625
Surrogate: 2-Fluorobiphenyl	52 % 10-98		08/14/13 06:43	jk	EPA 625
Surrogate: 2,4,6-Tribromophenol	32 % 10-69		08/14/13 06:43	jk	EPA 625
Surrogate: p-Terphenyl-d14	66 % 11-97		08/14/13 06:43	jk	EPA 625
<b><u>Soluble Metals - STL</u></b>					
Silicon as SiO2	< 0.11 mg/L		08/13/13 12:48	WPS	EPA 200.7 R4.4
Aluminum	< 0.015 mg/L		08/13/13 12:48	WPS	EPA 200.7 R4.4*
Mercury	< 0.0002 mg/L		08/13/13 15:55	KAE	EPA 245.1 R3.0 / 04KS SW 7470A
Antimony	< 0.010 mg/L		08/13/13 12:48	WPS	EPA 200.7 R4.4 04KS
Copper	< 0.0020 mg/L		08/13/13 12:48	WPS	EPA 200.7 R4.4 04KS
Silver	< 0.0020 mg/L		08/13/13 12:48	WPS	EPA 200.7 R4.4 04KS
Arsenic	< 0.015 mg/L		08/13/13 12:48	WPS	EPA 200.7 R4.4 04KS
Barium	< 0.010 mg/L		08/13/13 12:48	WPS	EPA 200.7 R4.4 04KS
Beryllium	< 0.0010 mg/L		08/13/13 12:48	WPS	EPA 200.7 R4.4 04KS
Boron	< 0.050 mg/L		08/13/13 12:48	WPS	EPA 200.7 R4.4*
Cadmium	< 0.0020 mg/L		08/13/13 12:48	WPS	EPA 200.7 R4.4 04KS
Calcium	< 0.095 mg/L		08/13/13 12:48	WPS	EPA 200.7 R4.4 04KS
Chromium	< 0.0020 mg/L		08/13/13 12:48	WPS	EPA 200.7 R4.4 04KS
Cobalt	< 0.0020 mg/L		08/13/13 12:48	WPS	EPA 200.7 R4.4 04KS



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St. Louis, MO 63044  
Attn: Dan Feezor

Date Received: 08/09/13 16:20  
Report Date: 08/22/13  
Customer #: 277310

**\*Revised Laboratory Results\***

Sample No: **3081515-07**  
Sample Description: **Field Blank**

Collect Date: **08/09/13 14:15**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b><u>Soluble Metals - STL</u></b>					
Iron	< 0.010 mg/L		08/13/13 12:48	WPS	EPA 200.7 R4.4 04KS
Lead	< 0.010 mg/L		08/13/13 12:48	WPS	EPA 200.7 R4.4 04KS
Magnesium	< 0.050 mg/L		08/13/13 12:48	WPS	EPA 200.7 R4.4 04KS
Manganese	< 0.0030 mg/L		08/13/13 12:48	WPS	EPA 200.7 R4.4 04KS
Molybdenum	< 0.012 mg/L		08/13/13 12:48	WPS	EPA 200.7 R4.4 04KS
Nickel	< 0.0020 mg/L		08/13/13 12:48	WPS	EPA 200.7 R4.4 04KS
Potassium	< 0.050 mg/L		08/13/13 12:48	WPS	EPA 200.7 R4.4*
Selenium	< 0.010 mg/L		08/13/13 12:48	WPS	EPA 200.7 R4.4 04KS
Sodium	< 0.10 mg/L		08/13/13 12:48	WPS	EPA 200.7 R4.4*
Thallium	< 0.020 mg/L		08/13/13 12:48	WPS	EPA 200.7 R4.4 04KS
Vanadium	< 0.0020 mg/L		08/13/13 12:48	WPS	EPA 200.7 R4.4 04KS
Zinc	< 0.010 mg/L		08/13/13 12:48	WPS	EPA 200.7 R4.4 04KS
Silicon	< 0.050 mg/L		08/13/13 12:48	WPS	EPA 200.7 R4.4*
<b><u>Total Metals - STL</u></b>					
Silicon as SiO2	< 0.11 mg/L		08/13/13 12:53	WPS	EPA 200.7 R4.4
Aluminum	< 0.015 mg/L		08/13/13 12:53	WPS	EPA 200.7 R4.4*
Mercury	< 0.0002 mg/L		08/13/13 15:55	KAE	EPA 245.1 R3.0 / 04KS SW 7470A
Antimony	< 0.010 mg/L		08/13/13 12:53	WPS	EPA 200.7 R4.4 04KS
Silicon	< 0.050 mg/L		08/13/13 12:53	WPS	EPA 200.7 R4.4*
Arsenic	< 0.015 mg/L		08/13/13 12:53	WPS	EPA 200.7 R4.4 04KS
Barium	< 0.010 mg/L		08/13/13 12:53	WPS	EPA 200.7 R4.4 04KS
Beryllium	< 0.0010 mg/L		08/13/13 12:53	WPS	EPA 200.7 R4.4 04KS
Hardness	0.34 mg/L		08/13/13 12:53	WPS	SM 2340B
Boron	< 0.050 mg/L		08/13/13 12:53	WPS	EPA 200.7 R4.4*
Cadmium	< 0.0020 mg/L		08/13/13 12:53	WPS	EPA 200.7 R4.4 04KS
Calcium	0.12 mg/L		08/13/13 12:53	WPS	EPA 200.7 R4.4 04KS
Chromium	< 0.0020 mg/L		08/13/13 12:53	WPS	EPA 200.7 R4.4 04KS
Cobalt	< 0.0020 mg/L		08/13/13 12:53	WPS	EPA 200.7 R4.4 04KS
Copper	< 0.0020 mg/L		08/13/13 12:53	WPS	EPA 200.7 R4.4 04KS
Iron	< 0.010 mg/L		08/13/13 12:53	WPS	EPA 200.7 R4.4 04KS
Lead	< 0.010 mg/L		08/13/13 12:53	WPS	EPA 200.7 R4.4 04KS
Magnesium	< 0.050 mg/L		08/13/13 12:53	WPS	EPA 200.7 R4.4 04KS
Manganese	< 0.0030 mg/L		08/13/13 12:53	WPS	EPA 200.7 R4.4 04KS



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St. Louis, MO 63044  
Attn: Dan Feezor

Date Received: 08/09/13 16:20  
Report Date: 08/22/13  
Customer #: 277310

**\*Revised Laboratory Results\***

Sample No: **3081515-07**  
Sample Description: **Field Blank**

Collect Date: **08/09/13 14:15**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b><u>Total Metals - STL</u></b>					
Molybdenum	< 0.012 mg/L		08/13/13 12:53	WPS	EPA 200.7 R4.4 04KS
Nickel	< 0.0020 mg/L		08/13/13 12:53	WPS	EPA 200.7 R4.4 04KS
Potassium	< 0.050 mg/L		08/13/13 12:53	WPS	EPA 200.7 R4.4*
Selenium	< 0.010 mg/L		08/13/13 12:53	WPS	EPA 200.7 R4.4 04KS
Silver	< 0.0020 mg/L		08/13/13 12:53	WPS	EPA 200.7 R4.4 04KS
Sodium	< 0.20 mg/L		08/13/13 12:53	WPS	EPA 200.7 R4.4*
Thallium	< 0.020 mg/L		08/13/13 12:53	WPS	EPA 200.7 R4.4 04KS
Vanadium	< 0.0020 mg/L		08/13/13 12:53	WPS	EPA 200.7 R4.4 04KS
Zinc	< 0.010 mg/L		08/13/13 12:53	WPS	EPA 200.7 R4.4 04KS

Sample No: **3081515-08**  
Sample Description: **Location 6**

Collect Date: **08/09/13 14:15**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b><u>Anions - STL</u></b>					
Chloride	5900 mg/L		08/13/13 12:39	DWM	EPA 300.0 R2.1 04KS
Nitrate-N	< 25 mg/L		08/10/13 10:37	DWM	EPA 300.0 R2.1 04KS
Nitrite-N	< 25 mg/L		08/10/13 10:37	DWM	EPA 300.0 R2.1 04KS
Phosphorus - ortho as P	< 15 mg/L		08/10/13 10:37	DWM	EPA 300.0 R2.1*
Sulfate	62 mg/L		08/10/13 10:37	DWM	EPA 300.0 R2.1 04KS
<b><u>General Chemistry - PIA</u></b>					
Total Organic Carbon (TOC)	15000 mg/L		08/14/13 19:08	lgsjw	5310C KS,IL,IA,WI,AR
<b><u>General Chemistry - STL</u></b>					
Alkalinity - total as CaCO3	14000 mg/L		08/10/13 10:00	ACV	SM 2320B 18Ed*
BOD	33000 mg/L		08/10/13 08:45	DAW	SM 5210B 18Ed 04KS
BOD - soluble	30000 mg/L		08/10/13 08:45	DAW	SM 5210B 18Ed*
COD	64000 mg/L		08/10/13 08:15	DAW	SM 5220D 18Ed 04KS
Cyanide	0.016 mg/L		08/13/13 14:10	DWM	SM 4500-CN C E 18Ed*
Cyanide - amenable	< 0.0050 mg/L	X	08/13/13 14:10	DWM	SM 4500CN CG 18Ed*
Cyanide - weak acid dissociable	0.012 mg/L	Xc	08/16/13 14:00	DWM	ASTM 1310-86*



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Date Received: 08/09/13 16:20  
Report Date: 08/22/13  
Customer #: 277310

**\*Revised Laboratory Results\***

Sample No: **3081515-08**  
Sample Description: **Location 6**

Collect Date: **08/09/13 14:15**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b><u>General Chemistry - STL</u></b>					
Oil & Grease - total	< 5.3 mg/L		08/12/13 09:00	mep	EPA 1664A 04KS
Phenol	76 mg/L		08/12/13 12:00	DWM	EPA 420.1 04KS
Solids - total dissolved solids (TDS)	60000 mg/L		08/12/13 11:50	DAW	SM 2540C 18Ed*
Solids - total suspended solids (TSS)	24 mg/L		08/10/13 12:30	DAW	SM 2540D 18Ed 04KS
<b><u>Nutrients - PIA</u></b>					
Total Kjeldahl Nitrogen (TKN)	1200 mg/L		08/14/13 16:39	lgth	SM 4500-N B & NH3-H 18Ed MOD IL,IA,WI,AR
<b><u>Nutrients - STL</u></b>					
Ammonia-N	790 mg/L		08/12/13 11:30	ACV	SM(18) 4500 NH3 F 04KS
Phosphorus - total as P	< 5.0 mg/L		08/12/13 16:00	ACV	SM 4500P B E 18ed 04KS
<b><u>Semivolatile Organics - STL</u></b>					
1,2,4-Trichlorobenzene	< 500 ug/L		08/14/13 11:19	jk	EPA 625 04KS
1,2-Dichlorobenzene	< 500 ug/L		08/14/13 11:19	jk	EPA 625*
1,3-Dichlorobenzene	< 500 ug/L		08/14/13 11:19	jk	EPA 625*
1,4-Dichlorobenzene	< 500 ug/L		08/14/13 11:19	jk	EPA 625*
2,4,5-Trichlorophenol	< 500 ug/L		08/14/13 11:19	jk	EPA 625*
2,4,6-Trichlorophenol	< 500 ug/L		08/14/13 11:19	jk	EPA 625 04KS
2,4-Dichlorophenol	< 500 ug/L		08/14/13 11:19	jk	EPA 625 04KS
2,4-Dimethylphenol	< 500 ug/L		08/14/13 11:19	jk	EPA 625 04KS
2,4-Dinitrophenol	< 500 ug/L		08/14/13 11:19	jk	EPA 625 04KS
2,4-Dinitrotoluene	< 500 ug/L		08/14/13 11:19	jk	EPA 625 04KS
2,6-Dimethylaniline	< 250 ug/L		08/14/13 11:19	jk	EPA 625*
2,6-Dinitrotoluene	< 500 ug/L		08/14/13 11:19	jk	EPA 625 04KS
2-Chloronaphthalene	< 500 ug/L		08/14/13 11:19	jk	EPA 625 04KS
2-Chlorophenol	< 500 ug/L		08/14/13 11:19	jk	EPA 625 04KS
2-Nitrophenol	< 500 ug/L		08/14/13 11:19	jk	EPA 625 04KS
3,3'-Dichlorobenzidine	< 500 ug/L		08/14/13 11:19	jk	EPA 625 04KS
4,6-Dinitro-2-methylphenol	< 500 ug/L		08/14/13 11:19	jk	EPA 625*
4-Bromophenyl phenyl ether	< 500 ug/L		08/14/13 11:19	jk	EPA 625 04KS
4-Chloro-3-methylphenol	< 500 ug/L		08/14/13 11:19	jk	EPA 625 04KS
4-Chlorophenylphenyl ether	< 500 ug/L		08/14/13 11:19	jk	EPA 625 04KS





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Bridgeton Landfill  
13570 St Charles Rock Road  
St. Louis, MO 63044  
Attn: Dan Feezor

Date Received: 08/09/13 16:20  
Report Date: 08/22/13  
Customer #: 277310

**\*Revised Laboratory Results\***

Sample No: **3081515-08**  
Sample Description: **Location 6**

Collect Date: **08/09/13 14:15**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b>Semivolatile Organics - STL</b>					
4-Nitrophenol	< 500 ug/L		08/14/13 11:19	jk	EPA 625 04KS
Acenaphthene	< 500 ug/L		08/14/13 11:19	jk	EPA 625 04KS
Acenaphthylene	< 500 ug/L		08/14/13 11:19	jk	EPA 625 04KS
Anthracene	< 500 ug/L		08/14/13 11:19	jk	EPA 625 04KS
Azobenzene	< 500 ug/L		08/14/13 11:19	jk	EPA 625*
Benzidine	< 500 ug/L		08/14/13 11:19	jk	EPA 625*
Benzo(a)anthracene	< 500 ug/L		08/14/13 11:19	jk	EPA 625 04KS
Benzo(a)pyrene	< 500 ug/L		08/14/13 11:19	jk	EPA 625 04KS
Benzo(b&k)fluoranthene	< 500 ug/L		08/14/13 11:19	jk	EPA 625 04KS
Benzo(b)fluoranthene	< 500 ug/L		08/14/13 11:19	jk	EPA 625 04KS
Benzo(g,h,i)perylene	< 500 ug/L		08/14/13 11:19	jk	EPA 625 04KS
Benzo(k)fluoranthene	< 500 ug/L		08/14/13 11:19	jk	EPA 625 04KS
Bis(2-chloroethoxy) methane	< 500 ug/L		08/14/13 11:19	jk	EPA 625 04KS
Bis(2-chloroethyl) ether	< 500 ug/L		08/14/13 11:19	jk	EPA 625 04KS
Bis(2-chloroisopropyl) ether	< 500 ug/L		08/14/13 11:19	jk	EPA 625 04KS
Bis(2-ethylhexyl) phthalate	< 500 ug/L		08/14/13 11:19	jk	EPA 625 04KS
Butyl benzyl phthalate	< 500 ug/L		08/14/13 11:19	jk	EPA 625 04KS
Chrysene	< 500 ug/L		08/14/13 11:19	jk	EPA 625 04KS
Dibenzo(a,h)anthracene	< 500 ug/L		08/14/13 11:19	jk	EPA 625 04KS
Diethyl phthalate	< 500 ug/L		08/14/13 11:19	jk	EPA 625 04KS
Dimethyl phthalate	< 500 ug/L		08/14/13 11:19	jk	EPA 625 04KS
Di-n-butyl phthalate	< 500 ug/L		08/14/13 11:19	jk	EPA 625 04KS
Di-n-octyl phthalate	< 500 ug/L		08/14/13 11:19	jk	EPA 625 04KS
Diphenylamine	< 500 ug/L		08/14/13 11:19	jk	EPA 625 04KS
Fluoranthene	< 500 ug/L		08/14/13 11:19	jk	EPA 625 04KS
Fluorene	< 500 ug/L		08/14/13 11:19	jk	EPA 625 04KS
Hexachlorobenzene	< 500 ug/L		08/14/13 11:19	jk	EPA 625 04KS
Hexachlorobutadiene	< 500 ug/L		08/14/13 11:19	jk	EPA 625 04KS
Hexachlorocyclopentadiene	< 500 ug/L		08/14/13 11:19	jk	EPA 625 04KS
Hexachloroethane	< 500 ug/L		08/14/13 11:19	jk	EPA 625 04KS
Indeno(1,2,3-cd)pyrene	< 500 ug/L		08/14/13 11:19	jk	EPA 625 04KS
Isophorone	< 500 ug/L		08/14/13 11:19	jk	EPA 625 04KS
Naphthalene	< 500 ug/L		08/14/13 11:19	jk	EPA 625 04KS



**PDC Laboratories, Inc.**

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Sample Description: **Location 6**

Collect Date: **08/09/13 14:15**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b><u>Semivolatile Organics - STL</u></b>					
Nitrobenzene	< 500 ug/L		08/14/13 11:19	jk	EPA 625 04KS
N-Nitrosodimethylamine	< 500 ug/L		08/14/13 11:19	jk	EPA 625 04KS
N-Nitrosodi-n-propylamine	< 500 ug/L		08/14/13 11:19	jk	EPA 625 04KS
Pentachlorophenol	< 500 ug/L		08/14/13 11:19	jk	EPA 625 04KS
Phenanthrene	< 500 ug/L		08/14/13 11:19	jk	EPA 625 04KS
Phenol	5670 ug/L	Xb	08/14/13 16:58	jk	EPA 625 04KS
Pyrene	< 500 ug/L		08/14/13 11:19	jk	EPA 625 04KS
Surrogate: 2-Fluorophenol	77 % 10-101	S	08/14/13 11:19	jk	EPA 625
Surrogate: Phenol- d5	31 % 10-154	S	08/14/13 11:19	jk	EPA 625
Surrogate: Nitrobenzene-d5	2 % 10-119	S	08/14/13 11:19	jk	EPA 625
Surrogate: 2-Fluorobiphenyl	84 % 10-98	S	08/14/13 11:19	jk	EPA 625
Surrogate: 2,4,6-Tribromophenol	50 % 10-69	S	08/14/13 11:19	jk	EPA 625
Surrogate: p-Terphenyl-d14	95 % 11-97	S	08/14/13 11:19	jk	EPA 625
<b><u>Soluble Metals - STL</u></b>					
Silicon as SiO2	62 mg/L		08/13/13 12:57	WPS	EPA 200.7 R4.4
Aluminum	1.3 mg/L		08/13/13 12:57	WPS	EPA 200.7 R4.4*
Mercury	< 0.0020 mg/L		08/13/13 15:55	KAE	EPA 245.1 R3.0 / 04KS SW 7470A
Antimony	< 0.10 mg/L		08/13/13 12:57	WPS	EPA 200.7 R4.4 04KS
Copper	0.025 mg/L		08/13/13 12:57	WPS	EPA 200.7 R4.4 04KS
Silver	< 0.020 mg/L		08/13/13 12:57	WPS	EPA 200.7 R4.4 04KS
Arsenic	0.49 mg/L		08/13/13 12:57	WPS	EPA 200.7 R4.4 04KS
Barium	2.6 mg/L		08/13/13 12:57	WPS	EPA 200.7 R4.4 04KS
Beryllium	< 0.010 mg/L		08/13/13 12:57	WPS	EPA 200.7 R4.4 04KS
Boron	18 mg/L		08/13/13 12:57	WPS	EPA 200.7 R4.4*
Cadmium	< 0.020 mg/L		08/13/13 12:57	WPS	EPA 200.7 R4.4 04KS
Calcium	7200 mg/L		08/13/13 10:12	WPS	EPA 200.7 R4.4 04KS
Chromium	0.12 mg/L		08/13/13 12:57	WPS	EPA 200.7 R4.4 04KS
Cobalt	0.028 mg/L		08/13/13 12:57	WPS	EPA 200.7 R4.4 04KS
Iron	30 mg/L		08/13/13 12:57	WPS	EPA 200.7 R4.4 04KS
Lead	< 0.10 mg/L		08/13/13 12:57	WPS	EPA 200.7 R4.4 04KS
Magnesium	< 0.50 mg/L		08/13/13 12:57	WPS	EPA 200.7 R4.4 04KS
Manganese	0.097 mg/L		08/13/13 12:57	WPS	EPA 200.7 R4.4 04KS



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**\*Revised Laboratory Results\***

Sample No: **3081515-08**  
Sample Description: **Location 6**

Collect Date: **08/09/13 14:15**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b><u>Soluble Metals - STL</u></b>					
Molybdenum	< 0.12 mg/L		08/13/13 12:57	WPS	EPA 200.7 R4.4 04KS
Nickel	0.19 mg/L		08/13/13 12:57	WPS	EPA 200.7 R4.4 04KS
Potassium	740 mg/L		08/13/13 11:47	WPS	EPA 200.7 R4.4*
Selenium	0.23 mg/L		08/13/13 12:57	WPS	EPA 200.7 R4.4 04KS
Sodium	4100 mg/L		08/13/13 10:12	WPS	EPA 200.7 R4.4*
Thallium	< 0.20 mg/L		08/13/13 12:57	WPS	EPA 200.7 R4.4 04KS
Vanadium	< 0.020 mg/L		08/13/13 12:57	WPS	EPA 200.7 R4.4 04KS
Zinc	0.28 mg/L		08/13/13 12:57	WPS	EPA 200.7 R4.4 04KS
Silicon	29 mg/L		08/13/13 12:57	WPS	EPA 200.7 R4.4*
<b><u>Total Metals - STL</u></b>					
Silicon as SiO2	63 mg/L		08/13/13 13:01	WPS	EPA 200.7 R4.4
Aluminum	1.4 mg/L		08/13/13 13:01	WPS	EPA 200.7 R4.4*
Mercury	< 0.0020 mg/L		08/13/13 15:55	KAE	EPA 245.1 R3.0 / 04KS SW 7470A
Antimony	< 0.10 mg/L		08/13/13 13:01	WPS	EPA 200.7 R4.4 04KS
Silicon	30 mg/L		08/13/13 13:01	WPS	EPA 200.7 R4.4*
Arsenic	0.32 mg/L		08/13/13 13:01	WPS	EPA 200.7 R4.4 04KS
Barium	2.6 mg/L		08/13/13 13:01	WPS	EPA 200.7 R4.4 04KS
Beryllium	< 0.010 mg/L		08/13/13 13:01	WPS	EPA 200.7 R4.4 04KS
Hardness	19000 mg/L		08/13/13 13:01	WPS	SM 2340B
Boron	19 mg/L		08/13/13 13:01	WPS	EPA 200.7 R4.4*
Cadmium	< 0.020 mg/L		08/13/13 13:01	WPS	EPA 200.7 R4.4 04KS
Calcium	7500 mg/L		08/13/13 10:16	WPS	EPA 200.7 R4.4 04KS
Chromium	0.12 mg/L		08/13/13 13:01	WPS	EPA 200.7 R4.4 04KS
Cobalt	0.033 mg/L		08/13/13 13:01	WPS	EPA 200.7 R4.4 04KS
Copper	0.050 mg/L		08/13/13 13:01	WPS	EPA 200.7 R4.4 04KS
Iron	31 mg/L		08/13/13 13:01	WPS	EPA 200.7 R4.4 04KS
Lead	< 0.10 mg/L		08/13/13 13:01	WPS	EPA 200.7 R4.4 04KS
Magnesium	< 0.50 mg/L		08/13/13 13:01	WPS	EPA 200.7 R4.4 04KS
Manganese	0.11 mg/L		08/13/13 13:01	WPS	EPA 200.7 R4.4 04KS
Molybdenum	< 0.12 mg/L		08/13/13 13:01	WPS	EPA 200.7 R4.4 04KS
Nickel	0.19 mg/L		08/13/13 13:01	WPS	EPA 200.7 R4.4 04KS
Potassium	740 mg/L		08/13/13 11:51	WPS	EPA 200.7 R4.4*
Selenium	0.29 mg/L		08/13/13 13:01	WPS	EPA 200.7 R4.4 04KS



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Sample Description: **Location 6**

Collect Date: **08/09/13 14:15**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b><u>Total Metals - STL</u></b>					
Silver	< 0.020 mg/L		08/13/13 13:01	WPS	EPA 200.7 R4.4 04KS
Sodium	4200 mg/L		08/13/13 10:16	WPS	EPA 200.7 R4.4*
Thallium	< 0.20 mg/L		08/13/13 13:01	WPS	EPA 200.7 R4.4 04KS
Vanadium	0.021 mg/L		08/13/13 13:01	WPS	EPA 200.7 R4.4 04KS
Zinc	0.28 mg/L		08/13/13 13:01	WPS	EPA 200.7 R4.4 04KS



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**\*Revised Laboratory Results\***

**Notes**

This report shall not be reproduced, except in full, without the written approval of the laboratory.

PDC Laboratories participates in the following accreditation/certification and proficiency programs at the following locations. Endorsement by Federal or State Governments or their agencies is not implied.

- PIA PDC Laboratories - Peoria, IL
  - TNI Accreditation for Drinking Water, Wastewater, Hazardous and Solid Wastes Fields of Testing through IL EPA Lab No. 100230
  - Illinois Department of Public Health Bacteriological Analysis in Drinking Water Approved Laboratory Registry No. 17553
  - Drinking Water Certifications: Kansas (E-10338); Missouri (870); Wisconsin (998284430); Indiana (C-IL-040); Iowa (240)
  - Wastewater Certifications: Arkansas (88-0677); Wisconsin (998284430); Iowa (240); Kansas (E-10335)
  - Hazardous/Solid Waste Certifications: Arkansas (88-0677); Wisconsin (998284430); Iowa (240); Kansas (E-10335)
  - UST Certification; Iowa (240)
- SPM PDC Laboratories - Springfield, MO
  - EPA DMR-QA Program
- STL PDC Laboratories - St. Louis, MO
  - TNI Accreditation for Wastewater, Hazardous and Solid Wastes Fields of Testing through KS Lab No. E-10389

\* Not a TNI accredited analyte

- Xc WAD LCS failed 60%. Total CN LCS passed 97%.
- Xb The intensity of a secondary ion exceeds the relative intensity in the reference spectra.
- Xa Low surrogate, due to matrix.
- X Interference
- S Surrogate compound diluted below a reliable quantitation level.
- Q1 MS Failed %R
- E Estimated - concentration exceeds the instrument calibration range.

Certified by: Roxann Shull, Client Services Supervisor



**PDC Laboratories, Inc. – St. Louis**  
**3278 N. Highway 67 (Lindbergh)**  
**Florissant, MO 63033**  
 www.pdclab.com

**CHAIN OF CUSTODY RECORD**  
 Phone (314) 432-0550 or (314) 921-4488  
 Fax (314) 432-4977

State where samples collected MO  
 (Instructions/Sample Acceptance Policy on Reverse)

ALL SHADED AREAS MUST BE COMPLETED BY CLIENT (PLEASE PRINT)

<b>1 CLIENT</b> <b>BARR ENGINEERING</b>		PROJECT NUMBER	P.O. NUMBER	MEANS SHIPPED	<b>3 ANALYSIS REQUESTED</b>								<b>4 (FOR LAB USE ONLY)</b> LOGIN # <u>3081515</u> LOGGED BY: <u>HE</u> LAB PROJ. # TEMPLATE: PROJ. MGR.:		
ADDRESS <u>1001 DIAMOND RIDGE STE 1100</u>		PHONE NUMBER	FAX NUMBER	EMAIL ADDRESS <u>e.galbraith@barr.com</u>	LF DISS. METALS 2007 BOD/DISS. BOD 5210B TDS 2540C/TSS 2540D TOTAL METALS 2007 A/REL CN 4500CN-C4G TOTAL P / COD 4500P-E / 5280D TKN / NH3 4500NH3-D / 4500NH3-F									REMARKS	
CITY STATE ZIP <u>JEFF CITY, MO 65109</u>		SAMPLER: <u>WILLIAM ABERNATHY</u>		MATRIX TYPES: WW-WASTEWATER DW-DRINKING WATER GW-GROUND WATER WWSL-SLUDGE NAS-SOLID L'CHT-LEACHATE NAL-NON-AQUEOUS SOIL-SOILS											
CONTACT PERSON <u>ED GALBRAITH 573-418-5562</u>		SAMPLER'S SIGNATURE 													
<b>2 SAMPLE DESCRIPTION</b> AS YOU WANT ON REPORT		DATE COLLECTED	TIME COLLECTED	SAMPLE TYPE	MATRIX	Bottle Count									
LOCATION 1A		8/9/13	1130	✓	L'CHT	16	1	2	2	1	1	1	2		
LOCATION 1D		8/9/13	1231	✓	L'CHT	16	1	2	2	1	1	1	2	Client did not	
LOCATION 1E		8/9/13	1245	✓	L'CHT	16	1	2	2	1	1	1	2	Fill O&G jar.	
LOCATION 2		8/9/13	1307	✓	L'CHT	16	1	2	2	1	1	1	2	← Used Amber 61	
LOCATION 3		8/9/13	1315	✓	L'CHT	1	*							From 625 For O&G	
LOCATION 4		8/9/13	1330	✓	L'CHT	16	1	2	2	1	1	1	2		
FIELD BLANK		8/9/13	1415	✓	—	16	1	2	2	1	1	1	2		
LOCATION 6		8/9/13	1415	✓	L'CHT	16	1	2	2	1	1	1	2		
<b>5 TURNAROUND TIME</b> (RUSH TAT IS SUBJECT TO PDC LABS APPROVAL AND SURCHARGE) NORMAL (8-10 Bus. Days) <u>RUSH (5 Bus. Days)</u> <i>Fastrak™</i> (3 Bus. Days) 1-2 Bus. Days Same Day DATE DUE _____		The sample temperature will be measured upon receipt at the lab. By initialing this area, you request that the lab notify you, before proceeding with analysis, if the sample temperature is outside of the range of 0.1-6.0°C. By not initialing this area, you allow the lab to proceed with analytical testing regardless of the sample temperature.										<b>6</b>			
RESULTS BY: <u>E-MAIL</u> FAX PHONE CALL PHONE/FAX# IF DIFFERENT FROM ABOVE												<b>8 COMMENTS: (FOR LAB USE ONLY)</b> SAMPLE TEMPERATURE UPON RECEIPT CHILL PROCESS STARTED PRIOR TO RECEIPT SAMPLE(S) RECEIVED ON ICE PROPER BOTTLES RECEIVED IN GOOD CONDITION BOTTLES FILLED WITH ADEQUATE VOLUME SAMPLES RECEIVED WITHIN HOLD TIME(S) (EXCLUDES TYPICAL FIELD PARAMETERS) DATE AND TIME TAKEN FROM SAMPLE BOTTLE			
<b>7 RELINQUISHED BY: (SIGNATURE)</b> 		DATE	TIME	RECEIVED BY:	DATE	TIME	<b>8</b>					43 YOR N YOR N YOR N YOR N			
RELINQUISHED BY: (SIGNATURE)		DATE	TIME	RECEIVED BY:	DATE	TIME									
RELINQUISHED BY: (SIGNATURE)		DATE	TIME	RECEIVED BY:	DATE	TIME									

Thank you for using PDC Laboratories, Inc. Locations in Peoria, IL; St. Louis, MO; and Springfield, MO



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State where samples collected MO

(Instructions/Sample Acceptance Policy on Reverse)

ALL SHADED AREAS MUST BE COMPLETED BY CLIENT (PLEASE PRINT)

<b>1 CLIENT</b> BARR ENGINEERING ADDRESS: 1001 DIAMOND RIDGE STE 1100 CITY STATE ZIP: JEFF CITY, MO 65109 CONTACT PERSON: ED GALBRAITH 573-418-9562		PROJECT NUMBER P. O. NUMBER MEANS SHIPPED		<b>3 ANALYSIS REQUESTED</b> M/N CL, 504 / P04 500.0 / 4500P-E TOC 53108 SVOCs 625 OXG 1644 Phenolics 480.1 MLSS/MLV55 ALKALINITY		<b>4 (FOR LAB USE ONLY)</b> LOGIN # _____ LOGGED BY: _____ LAB PROJ. # _____ TEMPLATE: _____ PROJ. MGR.: _____							
<b>2 SAMPLE DESCRIPTION AS YOU WANT ON REPORT</b>		DATE COLLECTED TIME COLLECTED SAMPLE TYPE GRAB COMP MATRIX TYPE Bottle Count		REMARKS									
LOCATION 1A		8/9/13 1130		✓		LCHT 16		1 1 2 1 1 ✓					
LOCATION 1D		8/9/13 1231		✓		LCHT 16		1 1 2 1 1 ✓					
LOCATION 1E		8/9/13 1245		✓		LCHT 16		1 1 2 1 1 ✓					
LOCATION 2		8/9/13 1307		✓		LCHT 16		1 1 2 1 1 ✓					
LOCATION 3		8/9/13 1315		✓		LCHT 1				1 ✓			
LOCATION 4		8/9/13 1330		✓		LCHT 16		1 1 2 1 1 ✓					
FIELD BLANK		8/9/13 1415		✓		— 16		1 1 2 1 1 ✓					
LOCATION 6		8/9/13 1415		✓		LCHT 16		1 1 2 1 1 ✓					
<b>5 TURNAROUND TIME (RUSH TAT IS SUBJECT TO PDC LABS APPROVAL AND SURCHARGE)</b> NORMAL (8-10 Bus. Days) <u>RUSH (5 Bus. Days)</u> <i>Fastrak™</i> (3 Bus. Days) 1-2 Bus. Days Same Day DATE DUE _____						The sample temperature will be measured upon receipt at the lab. By initialing this area, you request that the lab notify you, before proceeding with analysis, if the sample temperature is outside of the range of 0.1-6.0°C. By not initialing this area, you allow the lab to proceed with analytical testing regardless of the sample temperature.							
RESULTS BY: <u>E-MAIL</u> FAX PHONE CALL PHONE/FAX# IF DIFFERENT FROM ABOVE						<b>6</b>							
<b>7 RELINQUISHED BY: (SIGNATURE)</b> <i>Ed Galbraith</i>		DATE: 8/9/13 TIME: 1455		RECEIVED BY: <i>Heather Galbraith</i>		DATE: 8/9/13 TIME: 14:55		<b>8 COMMENTS: (FOR LAB USE ONLY)</b>					
RELINQUISHED BY: (SIGNATURE)		DATE		TIME		RECEIVED BY:		DATE		TIME		SAMPLE TEMPERATURE UPON RECEIPT CHILL PROCESS STARTED PRIOR TO RECEIPT SAMPLE(S) RECEIVED ON ICE PROPER BOTTLES RECEIVED IN GOOD CONDITION BOTTLES FILLED WITH ADEQUATE VOLUME SAMPLES RECEIVED WITHIN HOLD TIME(S) (EXCLUDES TYPICAL FIELD PARAMETERS) DATE AND TIME TAKEN FROM SAMPLE BOTTLE 4.3°C Y OR N Y OR N Y OR N Y OR N	
RELINQUISHED BY: (SIGNATURE)		DATE		TIME		RECEIVED BY:		DATE		TIME			
RELINQUISHED BY: (SIGNATURE)		DATE		TIME		RECEIVED BY:		DATE		TIME			

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PAGE 2 OF 2

**SUBCONTRACT ORDER**

**PDC Laboratories, Inc.**

**3081515**

*MS*

**SENDING LABORATORY:**

- PDC Laboratories, Inc, 2231 W Altorfer Peoria, IL 61615
- PDC Laboratories, Inc, 1805 W Sunset, Springfield, MO 65807
- PDC Laboratories, Inc, 3278 N Highway 67, Florissant, MO 63033

Project Manager: Roxann Shull

rshull@pdclab.com Phone: 314-595-7337

**RECEIVING LABORATORY:**

PDC Laboratories, Inc.  
 PO Box 9071  
 Peoria, IL 61612-9071  
 Phone :(309) 692-9688

Date Shipped 8/12/13  
 Sample Origin (State) MO  
 PO# \_\_\_\_\_  
 Total # of Containers 14

Analysis	Due	Expires	Comments
<b>Sample ID: 3081515-01    Water    Sampled:08/09/13 11:30</b>			
TOC	08/14/13 16:00	09/06/13 11:30	
TKN	08/14/13 16:00	09/06/13 11:30	
<b>Sample ID: 3081515-02    Water    Sampled:08/09/13 12:31</b>			
TOC	08/14/13 16:00	09/06/13 12:31	
TKN	08/14/13 16:00	09/06/13 12:31	
<b>Sample ID: 3081515-03    Water    Sampled:08/09/13 12:45</b>			
TOC	08/14/13 16:00	09/06/13 12:45	
TKN	08/14/13 16:00	09/06/13 12:45	
<b>Sample ID: 3081515-04    Water    Sampled:08/09/13 13:07</b>			
TOC	08/14/13 16:00	09/06/13 13:07	
TKN	08/14/13 16:00	09/06/13 13:07	

Turn-Around Time Requested (circle one):  NORMAL  RUSH Date Results Needed: 8/14/13

Relinquished By	Date/Time	Received By	Date/Time	Sample Temperature Upon Receipt	<u>9</u> °C
<i>Heather Carhart</i>	<u>8/9/13</u>	<i>Walter Sealey</i>	<u>8/13/13</u>	Sample(s) Received on Ice	<input checked="" type="checkbox"/> Y or N
Relinquished By	Date/Time	Received By	Date/Time	Proper Bottles Received in Good Condition	<input checked="" type="checkbox"/> Y or N
				Bottles Filled with Adequate Volume	<input checked="" type="checkbox"/> Y or N
				Samples Received Within Hold Time	<input checked="" type="checkbox"/> Y or N
				Date/Time Taken From Sample Bottle	<input checked="" type="checkbox"/> Y or N



**SUBCONTRACT ORDER**  
**PDC Laboratories, Inc.**  
**3081515**

*MS*

Analysis	Due	Expires	Comments
<b>Sample ID: 3081515-06    Water    Sampled:08/09/13 13:30</b>			
TOC	08/14/13 16:00	09/06/13 13:30	
TKN	08/14/13 16:00	09/06/13 13:30	
<b>Sample ID: 3081515-07    Water    Sampled:08/09/13 14:15</b>			
TOC	08/14/13 16:00	09/06/13 14:15	
TKN	08/14/13 16:00	09/06/13 14:15	
<b>Sample ID: 3081515-08    Water    Sampled:08/09/13 14:15</b>			
TOC	08/14/13 16:00	09/06/13 14:15	
TKN	08/14/13 16:00	09/06/13 14:15	

Turn-Around Time Requested (circle one):    **NORMAL**    RUSH    Date Results Needed: \_\_\_\_\_

Relinquished By		Received By		Sample Temperature Upon Receipt	<input checked="" type="radio"/> C
Date/Time		Date/Time		Sample(s) Received on Ice	<input type="radio"/> or N
<i>Heather Carhart 8/9/13</i>		<i>Melissa Sibbey 8/13/13</i>		Proper Bottles Received in Good Condition	<input checked="" type="radio"/> or N
				Bottles Filled with Adequate Volume	<input checked="" type="radio"/> or N
				Samples Received Within Hold Time	<input checked="" type="radio"/> or N
				Date/Time Taken From Sample Bottle	<input checked="" type="radio"/> Y or N



**PDC Laboratories, Inc.**

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Bridgeton Landfill  
13570 St Charles Rock Road  
St. Louis, MO 63044  
Attn: Dan Feezor

Date Received: 08/13/13 12:48  
Report Date: 08/22/13  
Customer #: 277310

**\*Laboratory Results\***

Sample No: **3081773-01**  
Sample Description: **Location 1A**

Collect Date: **08/12/13 15:09**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b><u>Anions - STL</u></b>					
Chloride	5100 mg/L		08/16/13 12:20	DWM	EPA 300.0 R2.1 04KS
Nitrate-N	27 mg/L		08/14/13 11:00	DWM	EPA 300.0 R2.1 04KS
Nitrite-N	< 25 mg/L		08/14/13 11:00	DWM	EPA 300.0 R2.1 04KS
Sulfate	610 mg/L		08/16/13 12:20	DWM	EPA 300.0 R2.1 04KS
<b><u>General Chemistry - PIA</u></b>					
Total Organic Carbon (TOC)	19000 mg/L		08/16/13 20:16	lgsjw	5310C KS,IL,IA,WI,AR
<b><u>General Chemistry - STL</u></b>					
Alkalinity - total as CaCO3	8600 mg/L		08/13/13 15:30	ACV	SM 2320B 18Ed*
BOD	39000 mg/L		08/14/13 06:50	DWM	SM 5210B 18Ed 04KS
BOD - soluble	34000 mg/L		08/14/13 06:50	DWM	SM 5210B 18Ed*
COD	66000 mg/L		08/13/13 16:30	DAW	SM 5220D 18Ed 04KS
Cyanide	0.011 mg/L		08/15/13 11:00	DWM	SM 4500-CN C E 18Ed*
Cyanide - amenable	< 0.0050 mg/L	X	08/15/13 11:00	DWM	SM 4500CN CG 18Ed*
Cyanide - weak acid dissociable	< 0.020 mg/L	Xc	08/16/13 14:00	DWM	ASTM 1310-86*
Oil & Grease - total	< 47 mg/L		08/14/13 10:00	mep	EPA 1664A 04KS
Phenol	76 mg/L	Q4	08/19/13 13:00	DWM	EPA 420.1 04KS
Solids - total dissolved solids (TDS)	54000 mg/L		08/13/13 15:00	DAW	SM 2540C 18Ed*
Solids - total suspended solids (TSS)	550 mg/L		08/13/13 14:05	DAW	SM 2540D 18Ed 04KS
<b><u>Nutrients - PIA</u></b>					
Total Kjeldahl Nitrogen (TKN)	1400 mg/L		08/16/13 14:15	lgth	SM 4500-N B & NH3-H 18Ed MOD IL,IA,WI,AR
<b><u>Nutrients - STL</u></b>					
Ammonia-N	950 mg/L		08/15/13 11:00	ACV	SM(18) 4500 NH3 F 04KS
Phosphorus - ortho as P	< 5.0 mg/L		08/14/13 13:45	ACV	SM 4500P B E 18ed* 04KS
Phosphorus - total as P	< 5.0 mg/L		08/14/13 13:45	ACV	SM 4500P B E 18ed 04KS
<b><u>Semivolatile Organics - STL</u></b>					
1,2,4-Trichlorobenzene	< 2000 ug/L		08/17/13 17:45	jk	EPA 625 04KS
1,2-Dichlorobenzene	< 2000 ug/L		08/17/13 17:45	jk	EPA 625*
1,3-Dichlorobenzene	< 2000 ug/L		08/17/13 17:45	jk	EPA 625*



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Date Received: 08/13/13 12:48  
Report Date: 08/22/13  
Customer #: 277310

**\*Laboratory Results\***

Sample No: **3081773-01**  
Sample Description: **Location 1A**

Collect Date: **08/12/13 15:09**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b>Semivolatile Organics - STL</b>					
1,4-Dichlorobenzene	< 2000 ug/L		08/17/13 17:45	jk	EPA 625*
2,4,5-Trichlorophenol	< 2000 ug/L		08/17/13 17:45	jk	EPA 625*
2,4,6-Trichlorophenol	< 2000 ug/L		08/17/13 17:45	jk	EPA 625 04KS
2,4-Dichlorophenol	< 2000 ug/L		08/17/13 17:45	jk	EPA 625 04KS
2,4-Dimethylphenol	< 2000 ug/L		08/17/13 17:45	jk	EPA 625 04KS
2,4-Dinitrophenol	< 2000 ug/L		08/17/13 17:45	jk	EPA 625 04KS
2,4-Dinitrotoluene	< 2000 ug/L		08/17/13 17:45	jk	EPA 625 04KS
2,6-Dimethylaniline	< 1000 ug/L		08/17/13 17:45	jk	EPA 625*
2,6-Dinitrotoluene	< 2000 ug/L		08/17/13 17:45	jk	EPA 625 04KS
2-Chloronaphthalene	< 2000 ug/L		08/17/13 17:45	jk	EPA 625 04KS
2-Chlorophenol	< 2000 ug/L		08/17/13 17:45	jk	EPA 625 04KS
2-Nitrophenol	< 2000 ug/L		08/17/13 17:45	jk	EPA 625 04KS
3,3'-Dichlorobenzidine	< 2000 ug/L		08/17/13 17:45	jk	EPA 625 04KS
4,6-Dinitro-2-methylphenol	< 2000 ug/L		08/17/13 17:45	jk	EPA 625*
4-Bromophenyl phenyl ether	< 2000 ug/L		08/17/13 17:45	jk	EPA 625 04KS
4-Chloro-3-methylphenol	< 2000 ug/L		08/17/13 17:45	jk	EPA 625 04KS
4-Chlorophenylphenyl ether	< 2000 ug/L		08/17/13 17:45	jk	EPA 625 04KS
4-Nitrophenol	< 2000 ug/L		08/17/13 17:45	jk	EPA 625 04KS
Acenaphthene	< 2000 ug/L		08/17/13 17:45	jk	EPA 625 04KS
Acenaphthylene	< 2000 ug/L		08/17/13 17:45	jk	EPA 625 04KS
Anthracene	< 2000 ug/L		08/17/13 17:45	jk	EPA 625 04KS
Azobenzene	< 2000 ug/L		08/17/13 17:45	jk	EPA 625*
Benzidine	< 2000 ug/L		08/17/13 17:45	jk	EPA 625*
Benzo(a)anthracene	< 2000 ug/L		08/17/13 17:45	jk	EPA 625 04KS
Benzo(a)pyrene	< 2000 ug/L		08/17/13 17:45	jk	EPA 625 04KS
Benzo(b&k)fluoranthene	< 2000 ug/L		08/17/13 17:45	jk	EPA 625 04KS
Benzo(b)fluoranthene	< 2000 ug/L		08/17/13 17:45	jk	EPA 625 04KS
Benzo(g,h,i)perylene	< 2000 ug/L		08/17/13 17:45	jk	EPA 625 04KS
Benzo(k)fluoranthene	< 2000 ug/L		08/17/13 17:45	jk	EPA 625 04KS
Bis(2-chloroethoxy) methane	< 2000 ug/L		08/17/13 17:45	jk	EPA 625 04KS
Bis(2-chloroethyl) ether	< 2000 ug/L		08/17/13 17:45	jk	EPA 625 04KS
Bis(2-chloroisopropyl) ether	< 2000 ug/L		08/17/13 17:45	jk	EPA 625 04KS
Bis(2-ethylhexyl) phthalate	< 2000 ug/L		08/17/13 17:45	jk	EPA 625 04KS



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St. Louis, MO 63044  
Attn: Dan Feezor

Date Received: 08/13/13 12:48  
Report Date: 08/22/13  
Customer #: 277310

**\*Laboratory Results\***

Sample No: **3081773-01**  
Sample Description: **Location 1A**

Collect Date: **08/12/13 15:09**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b>Semivolatile Organics - STL</b>					
Butyl benzyl phthalate	< 2000 ug/L		08/17/13 17:45	jk	EPA 625 04KS
Chrysene	< 2000 ug/L		08/17/13 17:45	jk	EPA 625 04KS
Dibenzo(a,h)anthracene	< 2000 ug/L		08/17/13 17:45	jk	EPA 625 04KS
Diethyl phthalate	< 2000 ug/L		08/17/13 17:45	jk	EPA 625 04KS
Dimethyl phthalate	< 2000 ug/L		08/17/13 17:45	jk	EPA 625 04KS
Di-n-butyl phthalate	< 2000 ug/L		08/17/13 17:45	jk	EPA 625 04KS
Di-n-octyl phthalate	< 2000 ug/L		08/17/13 17:45	jk	EPA 625 04KS
Diphenylamine	< 2000 ug/L		08/17/13 17:45	jk	EPA 625 04KS
Fluoranthene	< 2000 ug/L		08/17/13 17:45	jk	EPA 625 04KS
Fluorene	< 2000 ug/L		08/17/13 17:45	jk	EPA 625 04KS
Hexachlorobenzene	< 2000 ug/L		08/17/13 17:45	jk	EPA 625 04KS
Hexachlorobutadiene	< 2000 ug/L		08/17/13 17:45	jk	EPA 625 04KS
Hexachlorocyclopentadiene	< 2000 ug/L		08/17/13 17:45	jk	EPA 625 04KS
Hexachloroethane	< 2000 ug/L		08/17/13 17:45	jk	EPA 625 04KS
Indeno(1,2,3-cd)pyrene	< 2000 ug/L		08/17/13 17:45	jk	EPA 625 04KS
Isophorone	< 2000 ug/L		08/17/13 17:45	jk	EPA 625 04KS
Naphthalene	< 2000 ug/L		08/17/13 17:45	jk	EPA 625 04KS
Nitrobenzene	< 2000 ug/L		08/17/13 17:45	jk	EPA 625 04KS
N-Nitrosodimethylamine	< 2000 ug/L		08/17/13 17:45	jk	EPA 625 04KS
N-Nitrosodi-n-propylamine	< 2000 ug/L		08/17/13 17:45	jk	EPA 625 04KS
Pentachlorophenol	< 2000 ug/L		08/17/13 17:45	jk	EPA 625 04KS
Phenanthrene	< 2000 ug/L		08/17/13 17:45	jk	EPA 625 04KS
Phenol	4330 ug/L	Xb	08/17/13 17:45	jk	EPA 625 04KS
Pyrene	< 2000 ug/L		08/17/13 17:45	jk	EPA 625 04KS
Surrogate: 2-Fluorophenol	2 % 10-101	S	08/17/13 17:45	jk	EPA 625
Surrogate: Phenol- d5	6 % 10-154	S	08/17/13 17:45	jk	EPA 625
Surrogate: Nitrobenzene-d5	25 % 10-119	S	08/17/13 17:45	jk	EPA 625
Surrogate: 2-Fluorobiphenyl	14 % 10-98	S	08/17/13 17:45	jk	EPA 625
Surrogate: 2,4,6-Tribromophenol	% 10-69	S	08/17/13 17:45	jk	EPA 625
Surrogate: p-Terphenyl-d14	26 % 11-97	S	08/17/13 17:45	jk	EPA 625
<b>Soluble Metals - STL</b>					
Silicon as SiO2	140 mg/L		08/15/13 15:43	WPS	EPA 200.7 R4.4
Aluminum	3.1 mg/L		08/15/13 15:43	WPS	EPA 200.7 R4.4*



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Attn: Dan Feezor

Date Received: 08/13/13 12:48  
Report Date: 08/22/13  
Customer #: 277310

**\*Laboratory Results\***

Sample No: **3081773-01**  
Sample Description: **Location 1A**

Collect Date: **08/12/13 15:09**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b><u>Soluble Metals - STL</u></b>					
Mercury	< 0.0020 mg/L		08/15/13 11:25	WPS	EPA 245.1 R3.0 / SW 7470A 04KS
Antimony	< 0.10 mg/L		08/15/13 15:43	WPS	EPA 200.7 R4.4 04KS
Copper	< 0.020 mg/L		08/15/13 15:43	WPS	EPA 200.7 R4.4 04KS
Silver	< 0.020 mg/L		08/15/13 15:43	WPS	EPA 200.7 R4.4 04KS
Arsenic	0.62 mg/L		08/15/13 15:43	WPS	EPA 200.7 R4.4 04KS
Barium	3.7 mg/L		08/15/13 15:43	WPS	EPA 200.7 R4.4 04KS
Beryllium	< 0.010 mg/L		08/15/13 15:43	WPS	EPA 200.7 R4.4 04KS
Boron	23 mg/L		08/15/13 15:43	WPS	EPA 200.7 R4.4* 04KS
Cadmium	0.074 mg/L		08/15/13 15:43	WPS	EPA 200.7 R4.4 04KS
Calcium	5100 mg/L		08/15/13 13:57	WPS	EPA 200.7 R4.4 04KS
Chromium	0.30 mg/L		08/15/13 15:43	WPS	EPA 200.7 R4.4 04KS
Cobalt	0.088 mg/L		08/15/13 15:43	WPS	EPA 200.7 R4.4 04KS
Iron	1100 mg/L		08/15/13 14:50	WPS	EPA 200.7 R4.4 04KS
Lead	< 0.10 mg/L		08/15/13 15:43	WPS	EPA 200.7 R4.4 04KS
Magnesium	520 mg/L		08/15/13 14:50	WPS	EPA 200.7 R4.4 04KS
Manganese	74 mg/L		08/15/13 15:43	WPS	EPA 200.7 R4.4 04KS
Molybdenum	< 0.12 mg/L		08/15/13 15:43	WPS	EPA 200.7 R4.4 04KS
Nickel	0.13 mg/L		08/15/13 15:43	WPS	EPA 200.7 R4.4 04KS
Potassium	780 mg/L		08/15/13 14:50	WPS	EPA 200.7 R4.4* 04KS
Selenium	< 0.10 mg/L		08/15/13 15:43	WPS	EPA 200.7 R4.4 04KS
Sodium	3300 mg/L		08/15/13 13:57	WPS	EPA 200.7 R4.4* 04KS
Thallium	< 0.20 mg/L		08/15/13 15:43	WPS	EPA 200.7 R4.4 04KS
Vanadium	0.059 mg/L		08/15/13 15:43	WPS	EPA 200.7 R4.4 04KS
Zinc	17 mg/L		08/15/13 15:43	WPS	EPA 200.7 R4.4 04KS
Silicon	66 mg/L		08/15/13 15:43	WPS	EPA 200.7 R4.4* 04KS
<b><u>Total Metals - STL</u></b>					
Silicon as SiO2	140 mg/L		08/15/13 15:47	WPS	EPA 200.7 R4.4 04KS
Aluminum	4.0 mg/L		08/15/13 15:47	WPS	EPA 200.7 R4.4* 04KS
Mercury	0.0035 mg/L		08/15/13 11:25	WPS	EPA 245.1 R3.0 / SW 7470A 04KS
Antimony	0.10 mg/L		08/15/13 15:47	WPS	EPA 200.7 R4.4 04KS
Silicon	67 mg/L		08/15/13 15:47	WPS	EPA 200.7 R4.4* 04KS
Arsenic	0.38 mg/L		08/15/13 15:47	WPS	EPA 200.7 R4.4 04KS



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Attn: Dan Feezor

Date Received: 08/13/13 12:48  
Report Date: 08/22/13  
Customer #: 277310

**\*Laboratory Results\***

Sample No: **3081773-01**  
Sample Description: **Location 1A**

Collect Date: **08/12/13 15:09**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b>Total Metals - STL</b>					
Barium	3.6 mg/L		08/15/13 15:47	WPS	EPA 200.7 R4.4 04KS
Beryllium	< 0.010 mg/L		08/15/13 15:47	WPS	EPA 200.7 R4.4 04KS
Hardness	14000 mg/L		08/15/13 14:55	WPS	SM 2340B
Boron	23 mg/L		08/15/13 15:47	WPS	EPA 200.7 R4.4*
Cadmium	0.075 mg/L		08/15/13 15:47	WPS	EPA 200.7 R4.4 04KS
Calcium	4800 mg/L		08/15/13 14:01	WPS	EPA 200.7 R4.4 04KS
Chromium	0.30 mg/L		08/15/13 15:47	WPS	EPA 200.7 R4.4 04KS
Cobalt	0.076 mg/L		08/15/13 15:47	WPS	EPA 200.7 R4.4 04KS
Copper	< 0.020 mg/L		08/15/13 15:47	WPS	EPA 200.7 R4.4 04KS
Iron	1100 mg/L		08/15/13 14:55	WPS	EPA 200.7 R4.4 04KS
Lead	0.13 mg/L		08/15/13 15:47	WPS	EPA 200.7 R4.4 04KS
Magnesium	480 mg/L		08/15/13 14:55	WPS	EPA 200.7 R4.4 04KS
Manganese	70 mg/L		08/15/13 15:47	WPS	EPA 200.7 R4.4 04KS
Molybdenum	< 0.12 mg/L		08/15/13 15:47	WPS	EPA 200.7 R4.4 04KS
Nickel	0.12 mg/L		08/15/13 15:47	WPS	EPA 200.7 R4.4 04KS
Potassium	760 mg/L		08/15/13 14:55	WPS	EPA 200.7 R4.4*
Selenium	0.12 mg/L		08/15/13 15:47	WPS	EPA 200.7 R4.4 04KS
Silver	< 0.020 mg/L		08/15/13 15:47	WPS	EPA 200.7 R4.4 04KS
Sodium	3200 mg/L		08/15/13 14:01	WPS	EPA 200.7 R4.4*
Thallium	< 0.20 mg/L		08/15/13 15:47	WPS	EPA 200.7 R4.4 04KS
Vanadium	0.072 mg/L		08/15/13 15:47	WPS	EPA 200.7 R4.4 04KS
Zinc	16 mg/L		08/15/13 15:47	WPS	EPA 200.7 R4.4 04KS

Sample No: **3081773-02**  
Sample Description: **Location 1D**

Collect Date: **08/12/13 16:12**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b>Anions - STL</b>					
Chloride	20000 mg/L		08/16/13 13:12	DWM	EPA 300.0 R2.1 04KS
Nitrate-N	48 mg/L		08/14/13 11:19	DWM	EPA 300.0 R2.1 04KS
Nitrite-N	< 25 mg/L		08/14/13 11:19	DWM	EPA 300.0 R2.1 04KS
Sulfate	2700 mg/L		08/16/13 13:12	DWM	EPA 300.0 R2.1 04KS



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Report Date: 08/22/13  
Customer #: 277310

**\*Laboratory Results\***

Sample No: **3081773-02**  
Sample Description: **Location 1D**

Collect Date: **08/12/13 16:12**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method	
<b><u>General Chemistry - PIA</u></b>						
Total Organic Carbon (TOC)	17000 mg/L		08/16/13 20:23	lgsjw	5310C	KS,IL,IA,WI,AR
<b><u>General Chemistry - STL</u></b>						
Alkalinity - total as CaCO3	8400 mg/L		08/13/13 15:30	ACV	SM 2320B 18Ed*	
BOD	36000 mg/L		08/14/13 06:50	DWM	SM 5210B 18Ed	04KS
BOD - soluble	34000 mg/L		08/14/13 06:50	DWM	SM 5210B 18Ed*	
COD	54000 mg/L		08/13/13 16:30	DAW	SM 5220D 18Ed	04KS
Cyanide	0.010 mg/L		08/15/13 11:00	DWM	SM 4500-CN C E 18Ed*	
Cyanide - amenable	< 0.0050 mg/L	X	08/15/13 11:00	DWM	SM 4500CN CG 18Ed*	
Cyanide - weak acid dissociable	0.023 mg/L	Xc	08/16/13 14:00	DWM	ASTM 1310-86*	
Oil & Grease - total	< 5.7 mg/L		08/14/13 10:00	mep	EPA 1664A	04KS
Phenol	72 mg/L		08/19/13 13:00	DWM	EPA 420.1	04KS
Solids - total dissolved solids (TDS)	50000 mg/L		08/13/13 15:00	DAW	SM 2540C 18Ed*	
Solids - total suspended solids (TSS)	52 mg/L		08/13/13 14:05	DAW	SM 2540D 18Ed	04KS
<b><u>Nutrients - PIA</u></b>						
Total Kjeldahl Nitrogen (TKN)	1100 mg/L		08/16/13 14:19	lgthh	SM 4500-N B & NH3-H 18Ed MOD	IL,IA,WI,AR
<b><u>Nutrients - STL</u></b>						
Ammonia-N	850 mg/L		08/15/13 11:00	ACV	SM(18) 4500 NH3 F	04KS
Phosphorus - ortho as P	< 5.0 mg/L		08/14/13 13:45	ACV	SM 4500P B E 18ed*	
Phosphorus - total as P	< 5.0 mg/L		08/14/13 13:45	ACV	SM 4500P B E 18ed	04KS
<b><u>Semivolatile Organics - STL</u></b>						
1,2,4-Trichlorobenzene	< 2000 ug/L		08/17/13 14:33	jk	EPA 625	04KS
1,2-Dichlorobenzene	< 2000 ug/L		08/17/13 14:33	jk	EPA 625*	
1,3-Dichlorobenzene	< 2000 ug/L		08/17/13 14:33	jk	EPA 625*	
1,4-Dichlorobenzene	< 2000 ug/L		08/17/13 14:33	jk	EPA 625*	
2,4,5-Trichlorophenol	< 2000 ug/L		08/17/13 14:33	jk	EPA 625*	
2,4,6-Trichlorophenol	< 2000 ug/L		08/17/13 14:33	jk	EPA 625	04KS
2,4-Dichlorophenol	< 2000 ug/L		08/17/13 14:33	jk	EPA 625	04KS
2,4-Dimethylphenol	< 2000 ug/L		08/17/13 14:33	jk	EPA 625	04KS



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Bridgeton Landfill  
13570 St Charles Rock Road  
St. Louis, MO 63044  
Attn: Dan Feezor

Date Received: 08/13/13 12:48  
Report Date: 08/22/13  
Customer #: 277310

**\*Laboratory Results\***

Sample No: **3081773-02**  
Sample Description: **Location 1D**

Collect Date: **08/12/13 16:12**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b>Semivolatile Organics - STL</b>					
2,4-Dinitrophenol	< 2000 ug/L		08/17/13 14:33	jk	EPA 625 04KS
2,4-Dinitrotoluene	< 2000 ug/L		08/17/13 14:33	jk	EPA 625 04KS
2,6-Dimethylaniline	< 1000 ug/L		08/17/13 14:33	jk	EPA 625*
2,6-Dinitrotoluene	< 2000 ug/L		08/17/13 14:33	jk	EPA 625 04KS
2-Chloronaphthalene	< 2000 ug/L		08/17/13 14:33	jk	EPA 625 04KS
2-Chlorophenol	< 2000 ug/L		08/17/13 14:33	jk	EPA 625 04KS
2-Nitrophenol	< 2000 ug/L		08/17/13 14:33	jk	EPA 625 04KS
3,3'-Dichlorobenzidine	< 2000 ug/L		08/17/13 14:33	jk	EPA 625 04KS
4,6-Dinitro-2-methylphenol	< 2000 ug/L		08/17/13 14:33	jk	EPA 625*
4-Bromophenyl phenyl ether	< 2000 ug/L		08/17/13 14:33	jk	EPA 625 04KS
4-Chloro-3-methylphenol	< 2000 ug/L		08/17/13 14:33	jk	EPA 625 04KS
4-Chlorophenylphenyl ether	< 2000 ug/L		08/17/13 14:33	jk	EPA 625 04KS
4-Nitrophenol	< 2000 ug/L		08/17/13 14:33	jk	EPA 625 04KS
Acenaphthene	< 2000 ug/L		08/17/13 14:33	jk	EPA 625 04KS
Acenaphthylene	< 2000 ug/L		08/17/13 14:33	jk	EPA 625 04KS
Anthracene	< 2000 ug/L		08/17/13 14:33	jk	EPA 625 04KS
Azobenzene	< 2000 ug/L		08/17/13 14:33	jk	EPA 625*
Benzidine	< 2000 ug/L		08/17/13 14:33	jk	EPA 625*
Benzo(a)anthracene	< 2000 ug/L		08/17/13 14:33	jk	EPA 625 04KS
Benzo(a)pyrene	< 2000 ug/L		08/17/13 14:33	jk	EPA 625 04KS
Benzo(b&k)fluoranthene	< 2000 ug/L		08/17/13 14:33	jk	EPA 625 04KS
Benzo(b)fluoranthene	< 2000 ug/L		08/17/13 14:33	jk	EPA 625 04KS
Benzo(g,h,i)perylene	< 2000 ug/L		08/17/13 14:33	jk	EPA 625 04KS
Benzo(k)fluoranthene	< 2000 ug/L		08/17/13 14:33	jk	EPA 625 04KS
Bis(2-chloroethoxy) methane	< 2000 ug/L		08/17/13 14:33	jk	EPA 625 04KS
Bis(2-chloroethyl) ether	< 2000 ug/L		08/17/13 14:33	jk	EPA 625 04KS
Bis(2-chloroisopropyl) ether	< 2000 ug/L		08/17/13 14:33	jk	EPA 625 04KS
Bis(2-ethylhexyl) phthalate	< 2000 ug/L		08/17/13 14:33	jk	EPA 625 04KS
Butyl benzyl phthalate	< 2000 ug/L		08/17/13 14:33	jk	EPA 625 04KS
Chrysene	< 2000 ug/L		08/17/13 14:33	jk	EPA 625 04KS
Dibenzo(a,h)anthracene	< 2000 ug/L		08/17/13 14:33	jk	EPA 625 04KS
Diethyl phthalate	< 2000 ug/L		08/17/13 14:33	jk	EPA 625 04KS
Dimethyl phthalate	< 2000 ug/L		08/17/13 14:33	jk	EPA 625 04KS





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Date Received: 08/13/13 12:48  
Report Date: 08/22/13  
Customer #: 277310

**\*Laboratory Results\***

Sample No: **3081773-02**  
Sample Description: **Location 1D**

Collect Date: **08/12/13 16:12**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b>Semivolatile Organics - STL</b>					
Di-n-butyl phthalate	< 2000 ug/L		08/17/13 14:33	jk	EPA 625 04KS
Di-n-octyl phthalate	< 2000 ug/L		08/17/13 14:33	jk	EPA 625 04KS
Diphenylamine	< 2000 ug/L		08/17/13 14:33	jk	EPA 625 04KS
Fluoranthene	< 2000 ug/L		08/17/13 14:33	jk	EPA 625 04KS
Fluorene	< 2000 ug/L		08/17/13 14:33	jk	EPA 625 04KS
Hexachlorobenzene	< 2000 ug/L		08/17/13 14:33	jk	EPA 625 04KS
Hexachlorobutadiene	< 2000 ug/L		08/17/13 14:33	jk	EPA 625 04KS
Hexachlorocyclopentadiene	< 2000 ug/L		08/17/13 14:33	jk	EPA 625 04KS
Hexachloroethane	< 2000 ug/L		08/17/13 14:33	jk	EPA 625 04KS
Indeno(1,2,3-cd)pyrene	< 2000 ug/L		08/17/13 14:33	jk	EPA 625 04KS
Isophorone	< 2000 ug/L		08/17/13 14:33	jk	EPA 625 04KS
Naphthalene	< 2000 ug/L		08/17/13 14:33	jk	EPA 625 04KS
Nitrobenzene	< 2000 ug/L		08/17/13 14:33	jk	EPA 625 04KS
N-Nitrosodimethylamine	< 2000 ug/L		08/17/13 14:33	jk	EPA 625 04KS
N-Nitrosodi-n-propylamine	< 2000 ug/L		08/17/13 14:33	jk	EPA 625 04KS
Pentachlorophenol	< 2000 ug/L		08/17/13 14:33	jk	EPA 625 04KS
Phenanthrene	< 2000 ug/L		08/17/13 14:33	jk	EPA 625 04KS
Phenol	2490 ug/L	Xb	08/17/13 14:33	jk	EPA 625 04KS
Pyrene	< 2000 ug/L		08/17/13 14:33	jk	EPA 625 04KS
Surrogate: 2-Fluorophenol	1 % 10-101	S	08/17/13 14:33	jk	EPA 625
Surrogate: Phenol- d5	3 % 10-154	S	08/17/13 14:33	jk	EPA 625
Surrogate: Nitrobenzene-d5	% 10-119	S	08/17/13 14:33	jk	EPA 625
Surrogate: 2-Fluorobiphenyl	26 % 10-98	S	08/17/13 14:33	jk	EPA 625
Surrogate: 2,4,6-Tribromophenol	% 10-69	S	08/17/13 14:33	jk	EPA 625
Surrogate: p-Terphenyl-d14	14 % 11-97	S	08/17/13 14:33	jk	EPA 625
<b>Soluble Metals - STL</b>					
Silicon as SiO2	84 mg/L		08/15/13 15:51	WPS	EPA 200.7 R4.4
Aluminum	0.27 mg/L		08/15/13 15:51	WPS	EPA 200.7 R4.4*
Mercury	< 0.0020 mg/L		08/15/13 11:25	WPS	EPA 245.1 R3.0 / 04KS SW 7470A
Antimony	< 0.10 mg/L		08/15/13 15:51	WPS	EPA 200.7 R4.4 04KS
Copper	< 0.020 mg/L		08/15/13 15:51	WPS	EPA 200.7 R4.4 04KS
Silver	< 0.020 mg/L		08/15/13 15:51	WPS	EPA 200.7 R4.4 04KS



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Customer #: 277310

**\*Laboratory Results\***

Sample No: **3081773-02**  
Sample Description: **Location 1D**

Collect Date: **08/12/13 16:12**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b><u>Soluble Metals - STL</u></b>					
Arsenic	0.59 mg/L		08/15/13 15:51	WPS	EPA 200.7 R4.4 04KS
Barium	2.4 mg/L		08/15/13 15:51	WPS	EPA 200.7 R4.4 04KS
Beryllium	< 0.010 mg/L		08/15/13 15:51	WPS	EPA 200.7 R4.4 04KS
Boron	18 mg/L		08/15/13 15:51	WPS	EPA 200.7 R4.4*
Cadmium	< 0.020 mg/L		08/15/13 15:51	WPS	EPA 200.7 R4.4 04KS
Calcium	4000 mg/L		08/15/13 14:06	WPS	EPA 200.7 R4.4 04KS
Chromium	0.15 mg/L		08/15/13 15:51	WPS	EPA 200.7 R4.4 04KS
Cobalt	0.032 mg/L		08/15/13 15:51	WPS	EPA 200.7 R4.4 04KS
Iron	93 mg/L		08/15/13 14:59	WPS	EPA 200.7 R4.4 04KS
Lead	< 0.10 mg/L		08/15/13 15:51	WPS	EPA 200.7 R4.4 04KS
Magnesium	320 mg/L		08/15/13 14:59	WPS	EPA 200.7 R4.4 04KS
Manganese	22 mg/L		08/15/13 15:51	WPS	EPA 200.7 R4.4 04KS
Molybdenum	< 0.12 mg/L		08/15/13 15:51	WPS	EPA 200.7 R4.4 04KS
Nickel	0.10 mg/L		08/15/13 15:51	WPS	EPA 200.7 R4.4 04KS
Potassium	700 mg/L		08/15/13 14:59	WPS	EPA 200.7 R4.4*
Selenium	0.11 mg/L		08/15/13 15:51	WPS	EPA 200.7 R4.4 04KS
Sodium	4500 mg/L		08/15/13 14:06	WPS	EPA 200.7 R4.4*
Thallium	< 0.20 mg/L		08/15/13 15:51	WPS	EPA 200.7 R4.4 04KS
Vanadium	0.026 mg/L		08/15/13 15:51	WPS	EPA 200.7 R4.4 04KS
Zinc	2.2 mg/L		08/15/13 15:51	WPS	EPA 200.7 R4.4 04KS
Silicon	39 mg/L		08/15/13 15:51	WPS	EPA 200.7 R4.4*
<b><u>Total Metals - STL</u></b>					
Silicon as SiO2	84 mg/L		08/15/13 16:08	WPS	EPA 200.7 R4.4
Aluminum	0.31 mg/L		08/15/13 16:08	WPS	EPA 200.7 R4.4*
Mercury	< 0.0020 mg/L		08/15/13 11:25	WPS	EPA 245.1 R3.0 / SW 7470A 04KS
Antimony	0.25 mg/L		08/15/13 16:08	WPS	EPA 200.7 R4.4 04KS
Silicon	39 mg/L		08/15/13 16:08	WPS	EPA 200.7 R4.4*
Arsenic	0.58 mg/L		08/15/13 16:08	WPS	EPA 200.7 R4.4 04KS
Barium	2.4 mg/L		08/15/13 16:08	WPS	EPA 200.7 R4.4 04KS
Beryllium	< 0.010 mg/L		08/15/13 16:08	WPS	EPA 200.7 R4.4 04KS
Hardness	12000 mg/L		08/15/13 15:15	WPS	SM 2340B
Boron	19 mg/L		08/15/13 16:08	WPS	EPA 200.7 R4.4*
Cadmium	< 0.020 mg/L		08/15/13 16:08	WPS	EPA 200.7 R4.4 04KS



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Bridgeton Landfill  
13570 St Charles Rock Road  
St. Louis, MO 63044  
Attn: Dan Feezor

Date Received: 08/13/13 12:48  
Report Date: 08/22/13  
Customer #: 277310

**\*Laboratory Results\***

Sample No: **3081773-02**  
Sample Description: **Location 1D**

Collect Date: **08/12/13 16:12**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b><u>Total Metals - STL</u></b>					
Calcium	4300 mg/L		08/15/13 14:22	WPS	EPA 200.7 R4.4 04KS
Chromium	0.15 mg/L		08/15/13 16:08	WPS	EPA 200.7 R4.4 04KS
Cobalt	0.032 mg/L		08/15/13 16:08	WPS	EPA 200.7 R4.4 04KS
Copper	< 0.020 mg/L		08/15/13 16:08	WPS	EPA 200.7 R4.4 04KS
Iron	97 mg/L		08/15/13 16:08	WPS	EPA 200.7 R4.4 04KS
Lead	< 0.10 mg/L		08/15/13 16:08	WPS	EPA 200.7 R4.4 04KS
Magnesium	330 mg/L		08/15/13 15:15	WPS	EPA 200.7 R4.4 04KS
Manganese	23 mg/L		08/15/13 16:08	WPS	EPA 200.7 R4.4 04KS
Molybdenum	< 0.12 mg/L		08/15/13 16:08	WPS	EPA 200.7 R4.4 04KS
Nickel	0.11 mg/L		08/15/13 16:08	WPS	EPA 200.7 R4.4 04KS
Potassium	750 mg/L		08/15/13 15:15	WPS	EPA 200.7 R4.4*
Selenium	0.21 mg/L		08/15/13 16:08	WPS	EPA 200.7 R4.4 04KS
Silver	< 0.020 mg/L		08/15/13 16:08	WPS	EPA 200.7 R4.4 04KS
Sodium	4800 mg/L		08/15/13 14:22	WPS	EPA 200.7 R4.4*
Thallium	< 0.20 mg/L		08/15/13 16:08	WPS	EPA 200.7 R4.4 04KS
Vanadium	0.028 mg/L		08/15/13 16:08	WPS	EPA 200.7 R4.4 04KS
Zinc	2.2 mg/L		08/15/13 16:08	WPS	EPA 200.7 R4.4 04KS

Sample No: **3081773-03**  
Sample Description: **Location 1E**

Collect Date: **08/12/13 15:49**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b><u>Anions - STL</u></b>					
Chloride	19000 mg/L		08/16/13 13:29	DWM	EPA 300.0 R2.1 04KS
Nitrate-N	< 50 mg/L		08/14/13 11:37	DWM	EPA 300.0 R2.1 04KS
Nitrite-N	< 50 mg/L		08/14/13 11:37	DWM	EPA 300.0 R2.1 04KS
Sulfate	590 mg/L		08/14/13 11:37	DWM	EPA 300.0 R2.1 04KS
<b><u>General Chemistry - PIA</u></b>					
Total Organic Carbon (TOC)	14000 mg/L		08/16/13 20:30	lgsjw	5310C KS,IL,IA,WI,AR
<b><u>General Chemistry - STL</u></b>					
Alkalinity - total as CaCO3	8600 mg/L		08/13/13 15:30	ACV	SM 2320B 18Ed*



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**\*Laboratory Results\***

Sample No: **3081773-03**  
Sample Description: **Location 1E**

Collect Date: **08/12/13 15:49**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b><u>General Chemistry - STL</u></b>					
BOD	34000 mg/L		08/14/13 06:50	DWM	SM 5210B 18Ed 04KS
BOD - soluble	35000 mg/L		08/14/13 06:50	DWM	SM 5210B 18Ed*
COD	56000 mg/L		08/13/13 16:30	DAW	SM 5220D 18Ed 04KS
Cyanide	0.0090 mg/L		08/15/13 11:00	DWM	SM 4500-CN C E 18Ed*
Cyanide - amenable	< 0.0050 mg/L	X	08/15/13 11:00	DWM	SM 4500CN CG 18Ed*
Cyanide - weak acid dissociable	0.019 mg/L	Xc	08/16/13 14:00	DWM	ASTM 1310-86*
Oil & Grease - total	< 24 mg/L		08/14/13 10:00	mep	EPA 1664A 04KS
Phenol	68 mg/L		08/19/13 13:00	DWM	EPA 420.1 04KS
Solids - total dissolved solids (TDS)	52000 mg/L		08/13/13 15:00	DAW	SM 2540C 18Ed*
Solids - total suspended solids (TSS)	590 mg/L		08/13/13 14:05	DAW	SM 2540D 18Ed 04KS
<b><u>Nutrients - PIA</u></b>					
Total Kjeldahl Nitrogen (TKN)	820 mg/L		08/16/13 14:20	lgthh	SM 4500-N B & NH3-H 18Ed MOD IL,IA,WI,AR
<b><u>Nutrients - STL</u></b>					
Ammonia-N	840 mg/L		08/15/13 11:00	ACV	SM(18) 4500 NH3 F 04KS
Phosphorus - ortho as P	< 5.0 mg/L		08/14/13 13:45	ACV	SM 4500P B E 18ed* 04KS
Phosphorus - total as P	< 5.0 mg/L		08/14/13 13:45	ACV	SM 4500P B E 18ed 04KS
<b><u>Semivolatile Organics - STL</u></b>					
1,2,4-Trichlorobenzene	< 1000 ug/L		08/17/13 15:21	jk	EPA 625 04KS
1,2-Dichlorobenzene	< 1000 ug/L		08/17/13 15:21	jk	EPA 625*
1,3-Dichlorobenzene	< 1000 ug/L		08/17/13 15:21	jk	EPA 625*
1,4-Dichlorobenzene	< 1000 ug/L		08/17/13 15:21	jk	EPA 625*
2,4,5-Trichlorophenol	< 1000 ug/L		08/17/13 15:21	jk	EPA 625*
2,4,6-Trichlorophenol	< 1000 ug/L		08/17/13 15:21	jk	EPA 625 04KS
2,4-Dichlorophenol	< 1000 ug/L		08/17/13 15:21	jk	EPA 625 04KS
2,4-Dimethylphenol	< 1000 ug/L		08/17/13 15:21	jk	EPA 625 04KS
2,4-Dinitrophenol	< 1000 ug/L		08/17/13 15:21	jk	EPA 625 04KS
2,4-Dinitrotoluene	< 1000 ug/L		08/17/13 15:21	jk	EPA 625 04KS
2,6-Dimethylaniline	< 500 ug/L		08/17/13 15:21	jk	EPA 625*
2,6-Dinitrotoluene	< 1000 ug/L		08/17/13 15:21	jk	EPA 625 04KS

3081773



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Sample No: **3081773-03**  
Sample Description: **Location 1E**

Collect Date: **08/12/13 15:49**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b>Semivolatile Organics - STL</b>					
2-Chloronaphthalene	< 1000 ug/L		08/17/13 15:21	jk	EPA 625 04KS
2-Chlorophenol	< 1000 ug/L		08/17/13 15:21	jk	EPA 625 04KS
2-Nitrophenol	< 1000 ug/L		08/17/13 15:21	jk	EPA 625 04KS
3,3'-Dichlorobenzidine	< 1000 ug/L		08/17/13 15:21	jk	EPA 625 04KS
4,6-Dinitro-2-methylphenol	< 1000 ug/L		08/17/13 15:21	jk	EPA 625*
4-Bromophenyl phenyl ether	< 1000 ug/L		08/17/13 15:21	jk	EPA 625 04KS
4-Chloro-3-methylphenol	< 1000 ug/L		08/17/13 15:21	jk	EPA 625 04KS
4-Chlorophenylphenyl ether	< 1000 ug/L		08/17/13 15:21	jk	EPA 625 04KS
4-Nitrophenol	< 1000 ug/L		08/17/13 15:21	jk	EPA 625 04KS
Acenaphthene	< 1000 ug/L		08/17/13 15:21	jk	EPA 625 04KS
Acenaphthylene	< 1000 ug/L		08/17/13 15:21	jk	EPA 625 04KS
Anthracene	< 1000 ug/L		08/17/13 15:21	jk	EPA 625 04KS
Azobenzene	< 1000 ug/L		08/17/13 15:21	jk	EPA 625*
Benzidine	< 1000 ug/L		08/17/13 15:21	jk	EPA 625*
Benzo(a)anthracene	< 1000 ug/L		08/17/13 15:21	jk	EPA 625 04KS
Benzo(a)pyrene	< 1000 ug/L		08/17/13 15:21	jk	EPA 625 04KS
Benzo(b&k)fluoranthene	< 1000 ug/L		08/17/13 15:21	jk	EPA 625 04KS
Benzo(b)fluoranthene	< 1000 ug/L		08/17/13 15:21	jk	EPA 625 04KS
Benzo(g,h,i)perylene	< 1000 ug/L		08/17/13 15:21	jk	EPA 625 04KS
Benzo(k)fluoranthene	< 1000 ug/L		08/17/13 15:21	jk	EPA 625 04KS
Bis(2-chloroethoxy) methane	< 1000 ug/L		08/17/13 15:21	jk	EPA 625 04KS
Bis(2-chloroethyl) ether	< 1000 ug/L		08/17/13 15:21	jk	EPA 625 04KS
Bis(2-chloroisopropyl) ether	< 1000 ug/L		08/17/13 15:21	jk	EPA 625 04KS
Bis(2-ethylhexyl) phthalate	< 1000 ug/L		08/17/13 15:21	jk	EPA 625 04KS
Butyl benzyl phthalate	< 1000 ug/L		08/17/13 15:21	jk	EPA 625 04KS
Chrysene	< 1000 ug/L		08/17/13 15:21	jk	EPA 625 04KS
Dibenzo(a,h)anthracene	< 1000 ug/L		08/17/13 15:21	jk	EPA 625 04KS
Diethyl phthalate	< 1000 ug/L		08/17/13 15:21	jk	EPA 625 04KS
Dimethyl phthalate	< 1000 ug/L		08/17/13 15:21	jk	EPA 625 04KS
Di-n-butyl phthalate	< 1000 ug/L		08/17/13 15:21	jk	EPA 625 04KS
Di-n-octyl phthalate	< 1000 ug/L		08/17/13 15:21	jk	EPA 625 04KS
Diphenylamine	< 1000 ug/L		08/17/13 15:21	jk	EPA 625 04KS
Fluoranthene	< 1000 ug/L		08/17/13 15:21	jk	EPA 625 04KS



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**\*Laboratory Results\***

Sample No: **3081773-03**  
Sample Description: **Location 1E**

Collect Date: **08/12/13 15:49**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b>Semivolatile Organics - STL</b>					
Fluorene	< 1000 ug/L		08/17/13 15:21	jk	EPA 625 04KS
Hexachlorobenzene	< 1000 ug/L		08/17/13 15:21	jk	EPA 625 04KS
Hexachlorobutadiene	< 1000 ug/L		08/17/13 15:21	jk	EPA 625 04KS
Hexachlorocyclopentadiene	< 1000 ug/L		08/17/13 15:21	jk	EPA 625 04KS
Hexachloroethane	< 1000 ug/L		08/17/13 15:21	jk	EPA 625 04KS
Indeno(1,2,3-cd)pyrene	< 1000 ug/L		08/17/13 15:21	jk	EPA 625 04KS
Isophorone	< 1000 ug/L		08/17/13 15:21	jk	EPA 625 04KS
Naphthalene	< 1000 ug/L		08/17/13 15:21	jk	EPA 625 04KS
Nitrobenzene	< 1000 ug/L		08/17/13 15:21	jk	EPA 625 04KS
N-Nitrosodimethylamine	< 1000 ug/L		08/17/13 15:21	jk	EPA 625 04KS
N-Nitrosodi-n-propylamine	< 1000 ug/L		08/17/13 15:21	jk	EPA 625 04KS
Pentachlorophenol	< 1000 ug/L		08/17/13 15:21	jk	EPA 625 04KS
Phenanthrene	< 1000 ug/L		08/17/13 15:21	jk	EPA 625 04KS
Phenol	2490 ug/L	Xb	08/17/13 15:21	jk	EPA 625 04KS
Pyrene	< 1000 ug/L		08/17/13 15:21	jk	EPA 625 04KS
Surrogate: 2-Fluorophenol	3 % 10-101	S	08/17/13 15:21	jk	EPA 625
Surrogate: Phenol- d5	4 % 10-154	S	08/17/13 15:21	jk	EPA 625
Surrogate: Nitrobenzene-d5	111 % 10-119	S	08/17/13 15:21	jk	EPA 625
Surrogate: 2-Fluorobiphenyl	23 % 10-98	S	08/17/13 15:21	jk	EPA 625
Surrogate: 2,4,6-Tribromophenol	% 10-69	S	08/17/13 15:21	jk	EPA 625
Surrogate: p-Terphenyl-d14	34 % 11-97	S	08/17/13 15:21	jk	EPA 625
<b>Soluble Metals - STL</b>					
Silicon as SiO2	85 mg/L		08/15/13 16:12	WPS	EPA 200.7 R4.4
Aluminum	0.34 mg/L		08/15/13 16:12	WPS	EPA 200.7 R4.4*
Mercury	< 0.0020 mg/L		08/15/13 11:25	WPS	EPA 245.1 R3.0 / 04KS SW 7470A
Antimony	0.13 mg/L		08/15/13 16:12	WPS	EPA 200.7 R4.4 04KS
Copper	0.021 mg/L		08/15/13 16:12	WPS	EPA 200.7 R4.4 04KS
Silver	< 0.020 mg/L		08/15/13 16:12	WPS	EPA 200.7 R4.4 04KS
Arsenic	0.52 mg/L		08/15/13 16:12	WPS	EPA 200.7 R4.4 04KS
Barium	2.2 mg/L		08/15/13 16:12	WPS	EPA 200.7 R4.4 04KS
Beryllium	< 0.010 mg/L		08/15/13 16:12	WPS	EPA 200.7 R4.4 04KS
Boron	19 mg/L		08/15/13 16:12	WPS	EPA 200.7 R4.4*



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Bridgeton Landfill  
13570 St Charles Rock Road  
St. Louis, MO 63044  
Attn: Dan Feezor

Date Received: 08/13/13 12:48  
Report Date: 08/22/13  
Customer #: 277310

**\*Laboratory Results\***

Sample No: **3081773-03**  
Sample Description: **Location 1E**

Collect Date: **08/12/13 15:49**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b><u>Soluble Metals - STL</u></b>					
Cadmium	< 0.020 mg/L		08/15/13 16:12	WPS	EPA 200.7 R4.4 04KS
Calcium	4200 mg/L		08/15/13 14:26	WPS	EPA 200.7 R4.4 04KS
Chromium	0.16 mg/L		08/15/13 16:12	WPS	EPA 200.7 R4.4 04KS
Cobalt	0.039 mg/L		08/15/13 16:12	WPS	EPA 200.7 R4.4 04KS
Iron	76 mg/L		08/15/13 15:19	WPS	EPA 200.7 R4.4 04KS
Lead	< 0.10 mg/L		08/15/13 16:12	WPS	EPA 200.7 R4.4 04KS
Magnesium	350 mg/L		08/15/13 15:19	WPS	EPA 200.7 R4.4 04KS
Manganese	24 mg/L		08/15/13 16:12	WPS	EPA 200.7 R4.4 04KS
Molybdenum	< 0.12 mg/L		08/15/13 16:12	WPS	EPA 200.7 R4.4 04KS
Nickel	0.12 mg/L		08/15/13 16:12	WPS	EPA 200.7 R4.4 04KS
Potassium	740 mg/L		08/15/13 15:19	WPS	EPA 200.7 R4.4*
Selenium	< 0.10 mg/L		08/15/13 16:12	WPS	EPA 200.7 R4.4 04KS
Sodium	4700 mg/L		08/15/13 14:26	WPS	EPA 200.7 R4.4*
Thallium	< 0.20 mg/L		08/15/13 16:12	WPS	EPA 200.7 R4.4 04KS
Vanadium	0.033 mg/L		08/15/13 16:12	WPS	EPA 200.7 R4.4 04KS
Zinc	2.4 mg/L		08/15/13 16:12	WPS	EPA 200.7 R4.4 04KS
Silicon	40 mg/L		08/15/13 16:12	WPS	EPA 200.7 R4.4*
<b><u>Total Metals - STL</u></b>					
Silicon as SiO2	89 mg/L		08/15/13 16:16	WPS	EPA 200.7 R4.4
Aluminum	2.3 mg/L		08/15/13 16:16	WPS	EPA 200.7 R4.4*
Mercury	< 0.0020 mg/L		08/15/13 11:25	WPS	EPA 245.1 R3.0 / SW 7470A 04KS
Antimony	< 0.10 mg/L		08/15/13 16:16	WPS	EPA 200.7 R4.4 04KS
Silicon	42 mg/L		08/15/13 16:16	WPS	EPA 200.7 R4.4*
Arsenic	0.52 mg/L		08/15/13 16:16	WPS	EPA 200.7 R4.4 04KS
Barium	2.3 mg/L		08/15/13 16:16	WPS	EPA 200.7 R4.4 04KS
Beryllium	< 0.010 mg/L		08/15/13 16:16	WPS	EPA 200.7 R4.4 04KS
Hardness	12000 mg/L		08/15/13 15:23	WPS	SM 2340B
Boron	19 mg/L		08/15/13 16:16	WPS	EPA 200.7 R4.4*
Cadmium	< 0.020 mg/L		08/15/13 16:16	WPS	EPA 200.7 R4.4 04KS
Calcium	4400 mg/L		08/15/13 14:30	WPS	EPA 200.7 R4.4 04KS
Chromium	0.16 mg/L		08/15/13 16:16	WPS	EPA 200.7 R4.4 04KS
Cobalt	0.045 mg/L		08/15/13 16:16	WPS	EPA 200.7 R4.4 04KS
Copper	< 0.020 mg/L		08/15/13 16:16	WPS	EPA 200.7 R4.4 04KS



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Bridgeton Landfill  
13570 St Charles Rock Road  
St. Louis, MO 63044  
Attn: Dan Feezor

Date Received: 08/13/13 12:48  
Report Date: 08/22/13  
Customer #: 277310

**\*Laboratory Results\***

Sample No: **3081773-03**  
Sample Description: **Location 1E**

Collect Date: **08/12/13 15:49**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b><u>Total Metals - STL</u></b>					
Iron	180 mg/L		08/15/13 15:23	WPS	EPA 200.7 R4.4 04KS
Lead	< 0.10 mg/L		08/15/13 16:16	WPS	EPA 200.7 R4.4 04KS
Magnesium	350 mg/L		08/15/13 15:23	WPS	EPA 200.7 R4.4 04KS
Manganese	27 mg/L		08/15/13 16:16	WPS	EPA 200.7 R4.4 04KS
Molybdenum	< 0.12 mg/L		08/15/13 16:16	WPS	EPA 200.7 R4.4 04KS
Nickel	0.11 mg/L		08/15/13 16:16	WPS	EPA 200.7 R4.4 04KS
Potassium	780 mg/L		08/15/13 15:23	WPS	EPA 200.7 R4.4*
Selenium	0.16 mg/L		08/15/13 16:16	WPS	EPA 200.7 R4.4 04KS
Silver	< 0.020 mg/L		08/15/13 16:16	WPS	EPA 200.7 R4.4 04KS
Sodium	4800 mg/L		08/15/13 14:30	WPS	EPA 200.7 R4.4*
Thallium	< 0.20 mg/L		08/15/13 16:16	WPS	EPA 200.7 R4.4 04KS
Vanadium	0.026 mg/L		08/15/13 16:16	WPS	EPA 200.7 R4.4 04KS
Zinc	3.7 mg/L		08/15/13 16:16	WPS	EPA 200.7 R4.4 04KS

Sample No: **3081773-04**  
Sample Description: **Location 2**

Collect Date: **08/12/13 15:31**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b><u>Anions - STL</u></b>					
Chloride	4900 mg/L		08/21/13 12:58	DWM	EPA 300.0 R2.1 04KS
Nitrate-N	< 50 mg/L		08/14/13 11:55	DWM	EPA 300.0 R2.1 04KS
Nitrite-N	< 50 mg/L		08/14/13 11:55	DWM	EPA 300.0 R2.1 04KS
Sulfate	860 mg/L		08/14/13 11:55	DWM	EPA 300.0 R2.1 04KS
<b><u>General Chemistry - PIA</u></b>					
Total Organic Carbon (TOC)	14000 mg/L		08/16/13 20:37	lgsjw	5310C KS,IL,IA,WI,AR
<b><u>General Chemistry - STL</u></b>					
Alkalinity - total as CaCO3	8500 mg/L		08/13/13 15:30	ACV	SM 2320B 18Ed*
BOD	36000 mg/L		08/14/13 06:50	DWM	SM 5210B 18Ed 04KS
BOD - soluble	31000 mg/L		08/14/13 06:50	DWM	SM 5210B 18Ed*
COD	56000 mg/L		08/13/13 16:30	DAW	SM 5220D 18Ed 04KS





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Report Date: 08/22/13  
Customer #: 277310

**\*Laboratory Results\***

Sample No: **3081773-04**  
Sample Description: **Location 2**

Collect Date: **08/12/13 15:31**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b><u>General Chemistry - STL</u></b>					
Cyanide	0.010 mg/L		08/15/13 11:00	DWM	SM 4500-CN C E 18Ed*
Cyanide - amenable	< 0.0050 mg/L	X	08/15/13 11:00	DWM	SM 4500CN CG 18Ed*
Cyanide - weak acid dissociable	0.016 mg/L	Xc	08/16/13 14:00	DWM	ASTM 1310-86*
Oil & Grease - total	< 5.0 mg/L		08/14/13 10:00	mep	EPA 1664A 04KS
Phenol	72 mg/L		08/19/13 13:00	DWM	EPA 420.1 04KS
Solids - total dissolved solids (TDS)	52000 mg/L		08/13/13 15:00	DAW	SM 2540C 18Ed*
Solids - total suspended solids (TSS)	92 mg/L		08/13/13 14:05	DAW	SM 2540D 18Ed 04KS
<b><u>Nutrients - PIA</u></b>					
Total Kjeldahl Nitrogen (TKN)	1200 mg/L		08/16/13 14:20	lgth	SM 4500-N B & NH3-H 18Ed MOD IL,IA,WI,AR
<b><u>Nutrients - STL</u></b>					
Ammonia-N	890 mg/L		08/15/13 11:00	ACV	SM(18) 4500 NH3 F 04KS
Phosphorus - ortho as P	< 5.0 mg/L		08/14/13 13:45	ACV	SM 4500P B E 18ed* 04KS
Phosphorus - total as P	< 5.0 mg/L		08/14/13 13:45	ACV	SM 4500P B E 18ed 04KS
<b><u>Semivolatile Organics - STL</u></b>					
1,2,4-Trichlorobenzene	< 2000 ug/L	Xa	08/17/13 16:09	jk	EPA 625 04KS
1,2-Dichlorobenzene	< 2000 ug/L	Xa	08/17/13 16:09	jk	EPA 625*
1,3-Dichlorobenzene	< 2000 ug/L	Xa	08/17/13 16:09	jk	EPA 625*
1,4-Dichlorobenzene	< 2000 ug/L	Xa	08/17/13 16:09	jk	EPA 625*
2,4,5-Trichlorophenol	< 2000 ug/L	Xa	08/17/13 16:09	jk	EPA 625*
2,4,6-Trichlorophenol	< 2000 ug/L	Xa	08/17/13 16:09	jk	EPA 625 04KS
2,4-Dichlorophenol	< 2000 ug/L	Xa	08/17/13 16:09	jk	EPA 625 04KS
2,4-Dimethylphenol	< 2000 ug/L	Xa	08/17/13 16:09	jk	EPA 625 04KS
2,4-Dinitrophenol	< 2000 ug/L	Xa	08/17/13 16:09	jk	EPA 625 04KS
2,4-Dinitrotoluene	< 2000 ug/L	Xa	08/17/13 16:09	jk	EPA 625 04KS
2,6-Dimethylaniline	< 1000 ug/L	Xa	08/17/13 16:09	jk	EPA 625*
2,6-Dinitrotoluene	< 2000 ug/L	Xa	08/17/13 16:09	jk	EPA 625 04KS
2-Chloronaphthalene	< 2000 ug/L	Xa	08/17/13 16:09	jk	EPA 625 04KS
2-Chlorophenol	< 2000 ug/L	Xa	08/17/13 16:09	jk	EPA 625 04KS
2-Nitrophenol	< 2000 ug/L	Xa	08/17/13 16:09	jk	EPA 625 04KS



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Attn: Dan Feezor

Date Received: 08/13/13 12:48  
Report Date: 08/22/13  
Customer #: 277310

**\*Laboratory Results\***

Sample No: **3081773-04**  
Sample Description: **Location 2**

Collect Date: **08/12/13 15:31**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method	
<b>Semivolatile Organics - STL</b>						
3,3'-Dichlorobenzidine	< 2000 ug/L	Xa	08/17/13 16:09	jk	EPA 625	04KS
4,6-Dinitro-2-methylphenol	< 2000 ug/L	Xa	08/17/13 16:09	jk	EPA 625*	
4-Bromophenyl phenyl ether	< 2000 ug/L	Xa	08/17/13 16:09	jk	EPA 625	04KS
4-Chloro-3-methylphenol	< 2000 ug/L	Xa	08/17/13 16:09	jk	EPA 625	04KS
4-Chlorophenylphenyl ether	< 2000 ug/L	Xa	08/17/13 16:09	jk	EPA 625	04KS
4-Nitrophenol	< 2000 ug/L	Xa	08/17/13 16:09	jk	EPA 625	04KS
Acenaphthene	< 2000 ug/L	Xa	08/17/13 16:09	jk	EPA 625	04KS
Acenaphthylene	< 2000 ug/L	Xa	08/17/13 16:09	jk	EPA 625	04KS
Anthracene	< 2000 ug/L	Xa	08/17/13 16:09	jk	EPA 625	04KS
Azobenzene	< 2000 ug/L	Xa	08/17/13 16:09	jk	EPA 625*	
Benzidine	< 2000 ug/L	Xa	08/17/13 16:09	jk	EPA 625*	
Benzo(a)anthracene	< 2000 ug/L	Xa	08/17/13 16:09	jk	EPA 625	04KS
Benzo(a)pyrene	< 2000 ug/L	Xa	08/17/13 16:09	jk	EPA 625	04KS
Benzo(b&k)fluoranthene	< 2000 ug/L	Xa	08/17/13 16:09	jk	EPA 625	04KS
Benzo(b)fluoranthene	< 2000 ug/L	Xa	08/17/13 16:09	jk	EPA 625	04KS
Benzo(g,h,i)perylene	< 2000 ug/L	Xa	08/17/13 16:09	jk	EPA 625	04KS
Benzo(k)fluoranthene	< 2000 ug/L	Xa	08/17/13 16:09	jk	EPA 625	04KS
Bis(2-chloroethoxy) methane	< 2000 ug/L	Xa	08/17/13 16:09	jk	EPA 625	04KS
Bis(2-chloroethyl) ether	< 2000 ug/L	Xa	08/17/13 16:09	jk	EPA 625	04KS
Bis(2-chloroisopropyl) ether	< 2000 ug/L	Xa	08/17/13 16:09	jk	EPA 625	04KS
Bis(2-ethylhexyl) phthalate	< 2000 ug/L	Xa	08/17/13 16:09	jk	EPA 625	04KS
Butyl benzyl phthalate	< 2000 ug/L	Xa	08/17/13 16:09	jk	EPA 625	04KS
Chrysene	< 2000 ug/L	Xa	08/17/13 16:09	jk	EPA 625	04KS
Dibenzo(a,h)anthracene	< 2000 ug/L	Xa	08/17/13 16:09	jk	EPA 625	04KS
Diethyl phthalate	< 2000 ug/L	Xa	08/17/13 16:09	jk	EPA 625	04KS
Dimethyl phthalate	< 2000 ug/L	Xa	08/17/13 16:09	jk	EPA 625	04KS
Di-n-butyl phthalate	< 2000 ug/L	Xa	08/17/13 16:09	jk	EPA 625	04KS
Di-n-octyl phthalate	< 2000 ug/L	Xa	08/17/13 16:09	jk	EPA 625	04KS
Diphenylamine	< 2000 ug/L	Xa	08/17/13 16:09	jk	EPA 625	04KS
Fluoranthene	< 2000 ug/L	Xa	08/17/13 16:09	jk	EPA 625	04KS
Fluorene	< 2000 ug/L	Xa	08/17/13 16:09	jk	EPA 625	04KS
Hexachlorobenzene	< 2000 ug/L	Xa	08/17/13 16:09	jk	EPA 625	04KS
Hexachlorobutadiene	< 2000 ug/L	Xa	08/17/13 16:09	jk	EPA 625	04KS



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Bridgeton Landfill  
13570 St Charles Rock Road  
St. Louis, MO 63044  
Attn: Dan Feezor

Date Received: 08/13/13 12:48  
Report Date: 08/22/13  
Customer #: 277310

**\*Laboratory Results\***

Sample No: **3081773-04**  
Sample Description: **Location 2**

Collect Date: **08/12/13 15:31**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b>Semivolatile Organics - STL</b>					
Hexachlorocyclopentadiene	< 2000 ug/L	Xa	08/17/13 16:09	jk	EPA 625 04KS
Hexachloroethane	< 2000 ug/L	Xa	08/17/13 16:09	jk	EPA 625 04KS
Indeno(1,2,3-cd)pyrene	< 2000 ug/L	Xa	08/17/13 16:09	jk	EPA 625 04KS
Isophorone	< 2000 ug/L	Xa	08/17/13 16:09	jk	EPA 625 04KS
Naphthalene	< 2000 ug/L	Xa	08/17/13 16:09	jk	EPA 625 04KS
Nitrobenzene	< 2000 ug/L	Xa	08/17/13 16:09	jk	EPA 625 04KS
N-Nitrosodimethylamine	< 2000 ug/L	Xa	08/17/13 16:09	jk	EPA 625 04KS
N-Nitrosodi-n-propylamine	< 2000 ug/L	Xa	08/17/13 16:09	jk	EPA 625 04KS
Pentachlorophenol	< 2000 ug/L	Xa	08/17/13 16:09	jk	EPA 625 04KS
Phenanthrene	< 2000 ug/L	Xa	08/17/13 16:09	jk	EPA 625 04KS
Phenol	2410 ug/L	Xa	08/17/13 16:09	jk	EPA 625 04KS
Pyrene	< 2000 ug/L	Xa	08/17/13 16:09	jk	EPA 625 04KS
Surrogate: 2-Fluorophenol	2 % 10-101	S, Xa	08/17/13 16:09	jk	EPA 625
Surrogate: Phenol- d5	3 % 10-154	S, Xa	08/17/13 16:09	jk	EPA 625
Surrogate: Nitrobenzene-d5	164 % 10-119	S, Xa	08/17/13 16:09	jk	EPA 625
Surrogate: 2-Fluorobiphenyl	34 % 10-98	S, Xa	08/17/13 16:09	jk	EPA 625
Surrogate: 2,4,6-Tribromophenol	% 10-69	S, Xa	08/17/13 16:09	jk	EPA 625
Surrogate: p-Terphenyl-d14	52 % 11-97	S, Xa	08/17/13 16:09	jk	EPA 625
<b>Soluble Metals - STL</b>					
Silicon as SiO2	90 mg/L		08/15/13 16:20	WPS	EPA 200.7 R4.4
Aluminum	0.36 mg/L		08/15/13 16:20	WPS	EPA 200.7 R4.4*
Mercury	< 0.0020 mg/L		08/15/13 11:25	WPS	EPA 245.1 R3.0 / SW 7470A 04KS
Antimony	0.17 mg/L		08/15/13 16:20	WPS	EPA 200.7 R4.4 04KS
Copper	< 0.020 mg/L		08/15/13 16:20	WPS	EPA 200.7 R4.4 04KS
Silver	< 0.020 mg/L		08/15/13 16:20	WPS	EPA 200.7 R4.4 04KS
Arsenic	0.61 mg/L		08/15/13 16:20	WPS	EPA 200.7 R4.4 04KS
Barium	2.5 mg/L		08/15/13 16:20	WPS	EPA 200.7 R4.4 04KS
Beryllium	< 0.010 mg/L		08/15/13 16:20	WPS	EPA 200.7 R4.4 04KS
Boron	19 mg/L		08/15/13 16:20	WPS	EPA 200.7 R4.4* 04KS
Cadmium	< 0.020 mg/L		08/15/13 16:20	WPS	EPA 200.7 R4.4 04KS
Calcium	4300 mg/L		08/15/13 14:34	WPS	EPA 200.7 R4.4 04KS
Chromium	0.16 mg/L		08/15/13 16:20	WPS	EPA 200.7 R4.4 04KS



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Date Received: 08/13/13 12:48  
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**\*Laboratory Results\***

Sample No: **3081773-04**  
Sample Description: **Location 2**

Collect Date: **08/12/13 15:31**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b><u>Soluble Metals - STL</u></b>					
Cobalt	0.037 mg/L		08/15/13 16:20	WPS	EPA 200.7 R4.4 04KS
Iron	140 mg/L		08/15/13 15:27	WPS	EPA 200.7 R4.4 04KS
Lead	< 0.10 mg/L		08/15/13 16:20	WPS	EPA 200.7 R4.4 04KS
Magnesium	370 mg/L		08/15/13 15:27	WPS	EPA 200.7 R4.4 04KS
Manganese	28 mg/L		08/15/13 16:20	WPS	EPA 200.7 R4.4 04KS
Molybdenum	< 0.12 mg/L		08/15/13 16:20	WPS	EPA 200.7 R4.4 04KS
Nickel	0.12 mg/L		08/15/13 16:20	WPS	EPA 200.7 R4.4 04KS
Potassium	750 mg/L		08/15/13 15:27	WPS	EPA 200.7 R4.4*
Selenium	0.34 mg/L		08/15/13 16:20	WPS	EPA 200.7 R4.4 04KS
Sodium	4600 mg/L		08/15/13 14:34	WPS	EPA 200.7 R4.4*
Thallium	< 0.20 mg/L		08/15/13 16:20	WPS	EPA 200.7 R4.4 04KS
Vanadium	0.025 mg/L		08/15/13 16:20	WPS	EPA 200.7 R4.4 04KS
Zinc	2.9 mg/L		08/15/13 16:20	WPS	EPA 200.7 R4.4 04KS
Silicon	42 mg/L		08/15/13 16:20	WPS	EPA 200.7 R4.4*
<b><u>Total Metals - STL</u></b>					
Silicon as SiO2	91 mg/L		08/15/13 16:24	WPS	EPA 200.7 R4.4
Aluminum	0.52 mg/L		08/15/13 16:24	WPS	EPA 200.7 R4.4*
Mercury	< 0.0020 mg/L		08/15/13 11:25	WPS	EPA 245.1 R3.0 / SW 7470A 04KS
Antimony	< 0.10 mg/L		08/15/13 16:24	WPS	EPA 200.7 R4.4 04KS
Silicon	43 mg/L		08/15/13 16:24	WPS	EPA 200.7 R4.4*
Arsenic	0.67 mg/L		08/15/13 16:24	WPS	EPA 200.7 R4.4 04KS
Barium	2.5 mg/L		08/15/13 16:24	WPS	EPA 200.7 R4.4 04KS
Beryllium	< 0.010 mg/L		08/15/13 16:24	WPS	EPA 200.7 R4.4 04KS
Hardness	12000 mg/L		08/15/13 15:31	WPS	SM 2340B
Boron	19 mg/L		08/15/13 16:24	WPS	EPA 200.7 R4.4*
Cadmium	< 0.020 mg/L		08/15/13 16:24	WPS	EPA 200.7 R4.4 04KS
Calcium	4400 mg/L		08/15/13 14:38	WPS	EPA 200.7 R4.4 04KS
Chromium	0.17 mg/L		08/15/13 16:24	WPS	EPA 200.7 R4.4 04KS
Cobalt	0.039 mg/L		08/15/13 16:24	WPS	EPA 200.7 R4.4 04KS
Copper	0.031 mg/L		08/15/13 16:24	WPS	EPA 200.7 R4.4 04KS
Iron	150 mg/L		08/15/13 15:31	WPS	EPA 200.7 R4.4 04KS
Lead	< 0.10 mg/L		08/15/13 16:24	WPS	EPA 200.7 R4.4 04KS
Magnesium	360 mg/L		08/15/13 15:31	WPS	EPA 200.7 R4.4 04KS



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Bridgeton Landfill  
13570 St Charles Rock Road  
St. Louis, MO 63044  
Attn: Dan Feezor

Date Received: 08/13/13 12:48  
Report Date: 08/22/13  
Customer #: 277310

**\*Laboratory Results\***

Sample No: **3081773-04**  
Sample Description: **Location 2**

Collect Date: **08/12/13 15:31**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b><u>Total Metals - STL</u></b>					
Manganese	28 mg/L		08/15/13 16:24	WPS	EPA 200.7 R4.4 04KS
Molybdenum	< 0.12 mg/L		08/15/13 16:24	WPS	EPA 200.7 R4.4 04KS
Nickel	0.11 mg/L		08/15/13 16:24	WPS	EPA 200.7 R4.4 04KS
Potassium	760 mg/L		08/15/13 15:31	WPS	EPA 200.7 R4.4*
Selenium	0.20 mg/L		08/15/13 16:24	WPS	EPA 200.7 R4.4 04KS
Silver	< 0.020 mg/L		08/15/13 16:24	WPS	EPA 200.7 R4.4 04KS
Sodium	4700 mg/L		08/15/13 14:38	WPS	EPA 200.7 R4.4*
Thallium	< 0.20 mg/L		08/15/13 16:24	WPS	EPA 200.7 R4.4 04KS
Vanadium	0.034 mg/L		08/15/13 16:24	WPS	EPA 200.7 R4.4 04KS
Zinc	3.0 mg/L		08/15/13 16:24	WPS	EPA 200.7 R4.4 04KS

Sample No: **3081773-05**  
Sample Description: **Location 3**

Collect Date: **08/12/13 15:15**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b><u>General Chemistry - STL</u></b>					
Solids - total suspended solids (TSS)	16000 mg/L		08/13/13 14:05	DAW	SM 2540D 18Ed 04KS
Solids - total volatile suspended solids	5800 mg/L		08/13/13 14:05	DAW	SM 2540E 18Ed*

Sample No: **3081773-06**  
Sample Description: **Location 4**

Collect Date: **08/12/13 15:18**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b><u>Anions - STL</u></b>					
Chloride	2900 mg/L		08/16/13 14:04	DWM	EPA 300.0 R2.1 04KS
Nitrate-N	< 25 mg/L		08/14/13 12:14	DWM	EPA 300.0 R2.1 04KS
Nitrite-N	< 25 mg/L		08/14/13 12:14	DWM	EPA 300.0 R2.1 04KS
Sulfate	410 mg/L		08/14/13 12:14	DWM	EPA 300.0 R2.1 04KS
<b><u>General Chemistry - PIA</u></b>					
Total Organic Carbon (TOC)	1200 mg/L		08/16/13 20:44	lgsjw	5310C KS,IL,IA,WI,AR



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St. Louis, MO 63044  
Attn: Dan Feezor

Date Received: 08/13/13 12:48  
Report Date: 08/22/13  
Customer #: 277310

**\*Laboratory Results\***

Sample No: **3081773-06**  
Sample Description: **Location 4**

Collect Date: **08/12/13 15:18**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b>General Chemistry - STL</b>					
Alkalinity - total as CaCO3	1100 mg/L		08/13/13 15:30	ACV	SM 2320B 18Ed*
BOD	410 mg/L		08/14/13 06:50	DWM	SM 5210B 18Ed 04KS
BOD - soluble	530 mg/L		08/14/13 06:50	DWM	SM 5210B 18Ed*
COD	4300 mg/L		08/13/13 16:30	DAW	SM 5220D 18Ed 04KS
Cyanide	0.0090 mg/L		08/15/13 11:00	DWM	SM 4500-CN C E 18Ed*
Cyanide - amenable	< 0.0050 mg/L	X	08/15/13 11:00	DWM	SM 4500CN CG 18Ed*
Cyanide - weak acid dissociable	0.013 mg/L	Xc	08/16/13 14:00	DWM	ASTM 1310-86*
Oil & Grease - total	< 5.0 mg/L		08/14/13 10:00	mep	EPA 1664A 04KS
Phenol	< 2.5 mg/L		08/19/13 13:00	DWM	EPA 420.1 04KS
Solids - total dissolved solids (TDS)	11000 mg/L		08/13/13 15:00	DAW	SM 2540C 18Ed*
Solids - total suspended solids (TSS)	21 mg/L		08/13/13 14:05	DAW	SM 2540D 18Ed 04KS
<b>Nutrients - PIA</b>					
Total Kjeldahl Nitrogen (TKN)	220 mg/L		08/16/13 14:21	lgthh	SM 4500-N B & NH3-H 18Ed MOD IL,IA,WI,AR
<b>Nutrients - STL</b>					
Ammonia-N	170 mg/L		08/15/13 11:00	ACV	SM(18) 4500 NH3 F 04KS
Phosphorus - ortho as P	1400 mg/L		08/14/13 13:45	ACV	SM 4500P B E 18ed* 04KS
Phosphorus - total as P	560 mg/L		08/14/13 13:45	ACV	SM 4500P B E 18ed 04KS
<b>Semivolatile Organics - STL</b>					
1,2,4-Trichlorobenzene	< 50.0 ug/L		08/21/13 02:36	jk	EPA 625 04KS
1,2-Dichlorobenzene	< 50.0 ug/L		08/21/13 02:36	jk	EPA 625*
1,3-Dichlorobenzene	< 50.0 ug/L		08/21/13 02:36	jk	EPA 625*
1,4-Dichlorobenzene	< 50.0 ug/L		08/21/13 02:36	jk	EPA 625*
2,4,5-Trichlorophenol	< 50.0 ug/L		08/21/13 02:36	jk	EPA 625*
2,4,6-Trichlorophenol	< 50.0 ug/L		08/21/13 02:36	jk	EPA 625 04KS
2,4-Dichlorophenol	< 50.0 ug/L		08/21/13 02:36	jk	EPA 625 04KS
2,4-Dimethylphenol	< 50.0 ug/L		08/21/13 02:36	jk	EPA 625 04KS
2,4-Dinitrophenol	< 50.0 ug/L		08/21/13 02:36	jk	EPA 625 04KS
2,4-Dinitrotoluene	< 50.0 ug/L		08/21/13 02:36	jk	EPA 625 04KS
2,6-Dimethylaniline	< 25.0 ug/L		08/21/13 02:36	jk	EPA 625*



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Date Received: 08/13/13 12:48  
Report Date: 08/22/13  
Customer #: 277310

**\*Laboratory Results\***

Sample No: **3081773-06**  
Sample Description: **Location 4**

Collect Date: **08/12/13 15:18**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b>Semivolatile Organics - STL</b>					
2,6-Dinitrotoluene	< 50.0 ug/L		08/21/13 02:36	jk	EPA 625 04KS
2-Chloronaphthalene	< 50.0 ug/L		08/21/13 02:36	jk	EPA 625 04KS
2-Chlorophenol	< 50.0 ug/L		08/21/13 02:36	jk	EPA 625 04KS
2-Nitrophenol	< 50.0 ug/L		08/21/13 02:36	jk	EPA 625 04KS
3,3'-Dichlorobenzidine	< 50.0 ug/L		08/21/13 02:36	jk	EPA 625 04KS
4,6-Dinitro-2-methylphenol	< 50.0 ug/L		08/21/13 02:36	jk	EPA 625*
4-Bromophenyl phenyl ether	< 50.0 ug/L		08/21/13 02:36	jk	EPA 625 04KS
4-Chloro-3-methylphenol	< 50.0 ug/L		08/21/13 02:36	jk	EPA 625 04KS
4-Chlorophenylphenyl ether	< 50.0 ug/L		08/21/13 02:36	jk	EPA 625 04KS
4-Nitrophenol	< 50.0 ug/L		08/21/13 02:36	jk	EPA 625 04KS
Acenaphthene	< 50.0 ug/L		08/21/13 02:36	jk	EPA 625 04KS
Acenaphthylene	< 50.0 ug/L		08/21/13 02:36	jk	EPA 625 04KS
Anthracene	< 50.0 ug/L		08/21/13 02:36	jk	EPA 625 04KS
Azobenzene	< 50.0 ug/L		08/21/13 02:36	jk	EPA 625*
Benzidine	< 50.0 ug/L		08/21/13 02:36	jk	EPA 625*
Benzo(a)anthracene	< 50.0 ug/L		08/21/13 02:36	jk	EPA 625 04KS
Benzo(a)pyrene	< 50.0 ug/L		08/21/13 02:36	jk	EPA 625 04KS
Benzo(b&k)fluoranthene	< 50.0 ug/L		08/21/13 02:36	jk	EPA 625 04KS
Benzo(b)fluoranthene	< 50.0 ug/L		08/21/13 02:36	jk	EPA 625 04KS
Benzo(g,h,i)perylene	< 50.0 ug/L		08/21/13 02:36	jk	EPA 625 04KS
Benzo(k)fluoranthene	< 50.0 ug/L		08/21/13 02:36	jk	EPA 625 04KS
Bis(2-chloroethoxy) methane	< 50.0 ug/L		08/21/13 02:36	jk	EPA 625 04KS
Bis(2-chloroethyl) ether	< 50.0 ug/L		08/21/13 02:36	jk	EPA 625 04KS
Bis(2-chloroisopropyl) ether	< 50.0 ug/L		08/21/13 02:36	jk	EPA 625 04KS
Bis(2-ethylhexyl) phthalate	< 50.0 ug/L		08/21/13 02:36	jk	EPA 625 04KS
Butyl benzyl phthalate	< 50.0 ug/L		08/21/13 02:36	jk	EPA 625 04KS
Chrysene	< 50.0 ug/L		08/21/13 02:36	jk	EPA 625 04KS
Dibenzo(a,h)anthracene	< 50.0 ug/L		08/21/13 02:36	jk	EPA 625 04KS
Diethyl phthalate	< 50.0 ug/L		08/21/13 02:36	jk	EPA 625 04KS
Dimethyl phthalate	< 50.0 ug/L		08/21/13 02:36	jk	EPA 625 04KS
Di-n-butyl phthalate	< 50.0 ug/L		08/21/13 02:36	jk	EPA 625 04KS
Di-n-octyl phthalate	< 50.0 ug/L		08/21/13 02:36	jk	EPA 625 04KS
Diphenylamine	< 50.0 ug/L		08/21/13 02:36	jk	EPA 625 04KS



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Bridgeton Landfill  
13570 St Charles Rock Road  
St. Louis, MO 63044  
Attn: Dan Feezor

Date Received: 08/13/13 12:48  
Report Date: 08/22/13  
Customer #: 277310

**\*Laboratory Results\***

Sample No: **3081773-06**  
Sample Description: **Location 4**

Collect Date: **08/12/13 15:18**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b>Semivolatile Organics - STL</b>					
Fluoranthene	< 50.0 ug/L		08/21/13 02:36	jk	EPA 625 04KS
Fluorene	< 50.0 ug/L		08/21/13 02:36	jk	EPA 625 04KS
Hexachlorobenzene	< 50.0 ug/L		08/21/13 02:36	jk	EPA 625 04KS
Hexachlorobutadiene	< 50.0 ug/L		08/21/13 02:36	jk	EPA 625 04KS
Hexachlorocyclopentadiene	< 50.0 ug/L		08/21/13 02:36	jk	EPA 625 04KS
Hexachloroethane	< 50.0 ug/L		08/21/13 02:36	jk	EPA 625 04KS
Indeno(1,2,3-cd)pyrene	< 50.0 ug/L		08/21/13 02:36	jk	EPA 625 04KS
Isophorone	< 50.0 ug/L		08/21/13 02:36	jk	EPA 625 04KS
Naphthalene	< 50.0 ug/L		08/21/13 02:36	jk	EPA 625 04KS
Nitrobenzene	< 50.0 ug/L		08/21/13 02:36	jk	EPA 625 04KS
N-Nitrosodimethylamine	< 50.0 ug/L		08/21/13 02:36	jk	EPA 625 04KS
N-Nitrosodi-n-propylamine	< 50.0 ug/L		08/21/13 02:36	jk	EPA 625 04KS
Pentachlorophenol	< 50.0 ug/L		08/21/13 02:36	jk	EPA 625 04KS
Phenanthrene	< 50.0 ug/L		08/21/13 02:36	jk	EPA 625 04KS
Phenol	< 50.0 ug/L		08/21/13 02:36	jk	EPA 625 04KS
Pyrene	< 50.0 ug/L		08/21/13 02:36	jk	EPA 625 04KS
Surrogate: 2-Fluorophenol	8 % 10-101	S	08/21/13 02:36	jk	EPA 625
Surrogate: Phenol- d5	7 % 10-154	S	08/21/13 02:36	jk	EPA 625
Surrogate: Nitrobenzene-d5	43 % 10-119	S	08/21/13 02:36	jk	EPA 625
Surrogate: 2-Fluorobiphenyl	23 % 10-98	S	08/21/13 02:36	jk	EPA 625
Surrogate: 2,4,6-Tribromophenol	7 % 10-69	S	08/21/13 02:36	jk	EPA 625
Surrogate: p-Terphenyl-d14	50 % 11-97	S	08/21/13 02:36	jk	EPA 625
<b>Soluble Metals - STL</b>					
Silicon as SiO2	66 mg/L		08/15/13 16:28	WPS	EPA 200.7 R4.4
Aluminum	< 0.15 mg/L		08/15/13 16:28	WPS	EPA 200.7 R4.4*
Mercury	< 0.0020 mg/L		08/15/13 11:25	WPS	EPA 245.1 R3.0 / 04KS SW 7470A
Antimony	< 0.10 mg/L		08/15/13 16:28	WPS	EPA 200.7 R4.4 04KS
Copper	0.043 mg/L		08/15/13 16:28	WPS	EPA 200.7 R4.4 04KS
Silver	< 0.020 mg/L		08/15/13 16:28	WPS	EPA 200.7 R4.4 04KS
Arsenic	0.40 mg/L		08/15/13 16:28	WPS	EPA 200.7 R4.4 04KS
Barium	< 0.10 mg/L		08/15/13 16:28	WPS	EPA 200.7 R4.4 04KS
Beryllium	< 0.010 mg/L		08/15/13 16:28	WPS	EPA 200.7 R4.4 04KS





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Bridgeton Landfill  
13570 St Charles Rock Road  
St. Louis, MO 63044  
Attn: Dan Feezor

Date Received: 08/13/13 12:48  
Report Date: 08/22/13  
Customer #: 277310

**\*Laboratory Results\***

Sample No: **3081773-06**  
Sample Description: **Location 4**

Collect Date: **08/12/13 15:18**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b><u>Soluble Metals - STL</u></b>					
Boron	10 mg/L		08/15/13 16:28	WPS	EPA 200.7 R4.4*
Cadmium	< 0.020 mg/L		08/15/13 16:28	WPS	EPA 200.7 R4.4 04KS
Calcium	30 mg/L		08/15/13 15:35	WPS	EPA 200.7 R4.4 04KS
Chromium	0.062 mg/L		08/15/13 16:28	WPS	EPA 200.7 R4.4 04KS
Cobalt	0.022 mg/L		08/15/13 16:28	WPS	EPA 200.7 R4.4 04KS
Iron	< 2.0 mg/L		08/15/13 15:35	WPS	EPA 200.7 R4.4 04KS
Lead	< 0.10 mg/L		08/15/13 16:28	WPS	EPA 200.7 R4.4 04KS
Magnesium	57 mg/L		08/15/13 15:35	WPS	EPA 200.7 R4.4 04KS
Manganese	0.45 mg/L		08/15/13 16:28	WPS	EPA 200.7 R4.4 04KS
Molybdenum	< 0.12 mg/L		08/15/13 16:28	WPS	EPA 200.7 R4.4 04KS
Nickel	0.070 mg/L		08/15/13 16:28	WPS	EPA 200.7 R4.4 04KS
Potassium	330 mg/L		08/15/13 15:35	WPS	EPA 200.7 R4.4*
Selenium	0.28 mg/L		08/15/13 16:28	WPS	EPA 200.7 R4.4 04KS
Sodium	3000 mg/L		08/15/13 14:42	WPS	EPA 200.7 R4.4*
Thallium	< 0.20 mg/L		08/15/13 16:28	WPS	EPA 200.7 R4.4 04KS
Vanadium	0.022 mg/L		08/15/13 16:28	WPS	EPA 200.7 R4.4 04KS
Zinc	0.27 mg/L		08/15/13 16:28	WPS	EPA 200.7 R4.4 04KS
Silicon	31 mg/L		08/15/13 16:28	WPS	EPA 200.7 R4.4*
<b><u>Total Metals - STL</u></b>					
Silicon as SiO2	71 mg/L		08/15/13 16:32	WPS	EPA 200.7 R4.4
Aluminum	< 0.15 mg/L		08/15/13 16:32	WPS	EPA 200.7 R4.4*
Mercury	< 0.0020 mg/L		08/15/13 11:25	WPS	EPA 245.1 R3.0 / SW 7470A 04KS
Antimony	< 0.10 mg/L		08/15/13 16:32	WPS	EPA 200.7 R4.4 04KS
Silicon	33 mg/L		08/15/13 16:32	WPS	EPA 200.7 R4.4*
Arsenic	0.35 mg/L		08/15/13 16:32	WPS	EPA 200.7 R4.4 04KS
Barium	< 0.10 mg/L		08/15/13 16:32	WPS	EPA 200.7 R4.4 04KS
Beryllium	< 0.010 mg/L		08/15/13 16:32	WPS	EPA 200.7 R4.4 04KS
Hardness	280 mg/L		08/15/13 16:32	WPS	SM 2340B
Boron	11 mg/L		08/15/13 16:32	WPS	EPA 200.7 R4.4*
Cadmium	< 0.020 mg/L		08/15/13 16:32	WPS	EPA 200.7 R4.4 04KS
Calcium	28 mg/L		08/15/13 16:32	WPS	EPA 200.7 R4.4 04KS
Chromium	0.070 mg/L		08/15/13 16:32	WPS	EPA 200.7 R4.4 04KS
Cobalt	0.021 mg/L		08/15/13 16:32	WPS	EPA 200.7 R4.4 04KS



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St. Louis, MO 63044  
Attn: Dan Feezor

Date Received: 08/13/13 12:48  
Report Date: 08/22/13  
Customer #: 277310

**\*Laboratory Results\***

Sample No: **3081773-06**  
Sample Description: **Location 4**

Collect Date: **08/12/13 15:18**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b><u>Total Metals - STL</u></b>					
Copper	0.053 mg/L		08/15/13 16:32	WPS	EPA 200.7 R4.4 04KS
Iron	0.94 mg/L		08/15/13 16:32	WPS	EPA 200.7 R4.4 04KS
Lead	< 0.10 mg/L		08/15/13 16:32	WPS	EPA 200.7 R4.4 04KS
Magnesium	52 mg/L		08/15/13 16:32	WPS	EPA 200.7 R4.4 04KS
Manganese	0.47 mg/L		08/15/13 16:32	WPS	EPA 200.7 R4.4 04KS
Molybdenum	< 0.12 mg/L		08/15/13 16:32	WPS	EPA 200.7 R4.4 04KS
Nickel	0.081 mg/L		08/15/13 16:32	WPS	EPA 200.7 R4.4 04KS
Potassium	310 mg/L		08/15/13 16:32	WPS	EPA 200.7 R4.4*
Selenium	0.15 mg/L		08/15/13 16:32	WPS	EPA 200.7 R4.4 04KS
Silver	< 0.020 mg/L		08/15/13 16:32	WPS	EPA 200.7 R4.4 04KS
Sodium	3000 mg/L		08/15/13 14:46	WPS	EPA 200.7 R4.4*
Thallium	< 0.20 mg/L		08/15/13 16:32	WPS	EPA 200.7 R4.4 04KS
Vanadium	0.023 mg/L		08/15/13 16:32	WPS	EPA 200.7 R4.4 04KS
Zinc	0.28 mg/L		08/15/13 16:32	WPS	EPA 200.7 R4.4 04KS

Sample No: **3081773-07**  
Sample Description: **Field Blank**

Collect Date: **08/12/13 16:12**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b><u>Anions - STL</u></b>					
Chloride	< 0.50 mg/L		08/14/13 12:32	DWM	EPA 300.0 R2.1 04KS
Nitrate-N	< 0.50 mg/L		08/14/13 12:32	DWM	EPA 300.0 R2.1 04KS
Nitrite-N	< 0.50 mg/L		08/14/13 12:32	DWM	EPA 300.0 R2.1 04KS
Sulfate	< 0.50 mg/L		08/14/13 12:32	DWM	EPA 300.0 R2.1 04KS
<b><u>General Chemistry - PIA</u></b>					
Total Organic Carbon (TOC)	< 0.50 mg/L		08/16/13 20:52	lgsjw	5310C KS,IL,IA,WI,AR
<b><u>General Chemistry - STL</u></b>					
Alkalinity - total as CaCO3	2.0 mg/L		08/13/13 15:30	ACV	SM 2320B 18Ed*
BOD	< 6.0 mg/L		08/14/13 06:50	DWM	SM 5210B 18Ed 04KS
BOD - soluble	< 6.0 mg/L		08/14/13 06:50	DWM	SM 5210B 18Ed*
COD	< 5.0 mg/L		08/13/13 16:30	DAW	SM 5220D 18Ed 04KS



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Bridgeton Landfill  
13570 St Charles Rock Road  
St. Louis, MO 63044  
Attn: Dan Feezor

Date Received: 08/13/13 12:48  
Report Date: 08/22/13  
Customer #: 277310

**\*Laboratory Results\***

Sample No: **3081773-07**  
Sample Description: **Field Blank**

Collect Date: **08/12/13 16:12**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b><u>General Chemistry - STL</u></b>					
Cyanide	< 0.0050 mg/L		08/15/13 11:00	DWM	SM 4500-CN C E 18Ed*
Cyanide - amenable	< 0.0050 mg/L		08/15/13 11:00	DWM	SM 4500CN CG 18Ed*
Cyanide - weak acid dissociable	< 0.0050 mg/L	Xc	08/16/13 14:00	DWM	ASTM 1310-86*
Oil & Grease - total	< 5.0 mg/L		08/14/13 10:00	mep	EPA 1664A 04KS
Phenol	< 0.050 mg/L		08/19/13 13:00	DWM	EPA 420.1 04KS
Solids - total dissolved solids (TDS)	< 17 mg/L		08/13/13 15:00	DAW	SM 2540C 18Ed*
Solids - total suspended solids (TSS)	< 2.0 mg/L		08/13/13 14:05	DAW	SM 2540D 18Ed 04KS
<b><u>Nutrients - PIA</u></b>					
Total Kjeldahl Nitrogen (TKN)	< 1.0 mg/L		08/16/13 14:11	Igth	SM 4500-N B & NH3-H 18Ed MOD IL,IA,WI,AR
<b><u>Nutrients - STL</u></b>					
Ammonia-N	< 0.010 mg/L		08/15/13 11:00	ACV	SM(18) 4500 NH3 F 04KS
Phosphorus - ortho as P	< 0.050 mg/L		08/14/13 13:45	ACV	SM 4500P B E 18ed* 04KS
Phosphorus - total as P	< 0.050 mg/L		08/14/13 13:45	ACV	SM 4500P B E 18ed 04KS
<b><u>Semivolatile Organics - STL</u></b>					
1,2,4-Trichlorobenzene	< 10.0 ug/L		08/21/13 03:19	jk	EPA 625 04KS
1,2-Dichlorobenzene	< 10.0 ug/L		08/21/13 03:19	jk	EPA 625*
1,3-Dichlorobenzene	< 10.0 ug/L		08/21/13 03:19	jk	EPA 625*
1,4-Dichlorobenzene	< 10.0 ug/L		08/21/13 03:19	jk	EPA 625*
2,4,5-Trichlorophenol	< 10.0 ug/L		08/21/13 03:19	jk	EPA 625*
2,4,6-Trichlorophenol	< 10.0 ug/L		08/21/13 03:19	jk	EPA 625 04KS
2,4-Dichlorophenol	< 10.0 ug/L		08/21/13 03:19	jk	EPA 625 04KS
2,4-Dimethylphenol	< 10.0 ug/L		08/21/13 03:19	jk	EPA 625 04KS
2,4-Dinitrophenol	< 10.0 ug/L		08/21/13 03:19	jk	EPA 625 04KS
2,4-Dinitrotoluene	< 10.0 ug/L		08/21/13 03:19	jk	EPA 625 04KS
2,6-Dimethylaniline	< 5.00 ug/L		08/21/13 03:19	jk	EPA 625*
2,6-Dinitrotoluene	< 10.0 ug/L		08/21/13 03:19	jk	EPA 625 04KS
2-Chloronaphthalene	< 10.0 ug/L		08/21/13 03:19	jk	EPA 625 04KS
2-Chlorophenol	< 10.0 ug/L		08/21/13 03:19	jk	EPA 625 04KS
2-Nitrophenol	< 10.0 ug/L		08/21/13 03:19	jk	EPA 625 04KS



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Report Date: 08/22/13  
Customer #: 277310

**\*Laboratory Results\***

Sample No: **3081773-07**  
Sample Description: **Field Blank**

Collect Date: **08/12/13 16:12**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b>Semivolatile Organics - STL</b>					
3,3'-Dichlorobenzidine	< 10.0 ug/L		08/21/13 03:19	jk	EPA 625 04KS
4,6-Dinitro-2-methylphenol	< 10.0 ug/L		08/21/13 03:19	jk	EPA 625*
4-Bromophenyl phenyl ether	< 10.0 ug/L		08/21/13 03:19	jk	EPA 625 04KS
4-Chloro-3-methylphenol	< 10.0 ug/L		08/21/13 03:19	jk	EPA 625 04KS
4-Chlorophenylphenyl ether	< 10.0 ug/L		08/21/13 03:19	jk	EPA 625 04KS
4-Nitrophenol	< 10.0 ug/L		08/21/13 03:19	jk	EPA 625 04KS
Acenaphthene	< 10.0 ug/L		08/21/13 03:19	jk	EPA 625 04KS
Acenaphthylene	< 10.0 ug/L		08/21/13 03:19	jk	EPA 625 04KS
Anthracene	< 10.0 ug/L		08/21/13 03:19	jk	EPA 625 04KS
Azobenzene	< 10.0 ug/L		08/21/13 03:19	jk	EPA 625*
Benzidine	< 10.0 ug/L		08/21/13 03:19	jk	EPA 625*
Benzo(a)anthracene	< 10.0 ug/L		08/21/13 03:19	jk	EPA 625 04KS
Benzo(a)pyrene	< 10.0 ug/L		08/21/13 03:19	jk	EPA 625 04KS
Benzo(b&k)fluoranthene	< 10.0 ug/L		08/21/13 03:19	jk	EPA 625 04KS
Benzo(b)fluoranthene	< 10.0 ug/L		08/21/13 03:19	jk	EPA 625 04KS
Benzo(g,h,i)perylene	< 10.0 ug/L		08/21/13 03:19	jk	EPA 625 04KS
Benzo(k)fluoranthene	< 10.0 ug/L		08/21/13 03:19	jk	EPA 625 04KS
Bis(2-chloroethoxy) methane	< 10.0 ug/L		08/21/13 03:19	jk	EPA 625 04KS
Bis(2-chloroethyl) ether	< 10.0 ug/L		08/21/13 03:19	jk	EPA 625 04KS
Bis(2-chloroisopropyl) ether	< 10.0 ug/L		08/21/13 03:19	jk	EPA 625 04KS
Bis(2-ethylhexyl) phthalate	< 10.0 ug/L		08/21/13 03:19	jk	EPA 625 04KS
Butyl benzyl phthalate	< 10.0 ug/L		08/21/13 03:19	jk	EPA 625 04KS
Chrysene	< 10.0 ug/L		08/21/13 03:19	jk	EPA 625 04KS
Dibenzo(a,h)anthracene	< 10.0 ug/L		08/21/13 03:19	jk	EPA 625 04KS
Diethyl phthalate	< 10.0 ug/L		08/21/13 03:19	jk	EPA 625 04KS
Dimethyl phthalate	< 10.0 ug/L		08/21/13 03:19	jk	EPA 625 04KS
Di-n-butyl phthalate	< 10.0 ug/L		08/21/13 03:19	jk	EPA 625 04KS
Di-n-octyl phthalate	< 10.0 ug/L		08/21/13 03:19	jk	EPA 625 04KS
Diphenylamine	< 10.0 ug/L		08/21/13 03:19	jk	EPA 625 04KS
Fluoranthene	< 10.0 ug/L		08/21/13 03:19	jk	EPA 625 04KS
Fluorene	< 10.0 ug/L		08/21/13 03:19	jk	EPA 625 04KS
Hexachlorobenzene	< 10.0 ug/L		08/21/13 03:19	jk	EPA 625 04KS
Hexachlorobutadiene	< 10.0 ug/L		08/21/13 03:19	jk	EPA 625 04KS



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Report Date: 08/22/13  
Customer #: 277310

**\*Laboratory Results\***

Sample No: **3081773-07**  
Sample Description: **Field Blank**

Collect Date: **08/12/13 16:12**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b>Semivolatile Organics - STL</b>					
Hexachlorocyclopentadiene	< 10.0 ug/L		08/21/13 03:19	jk	EPA 625 04KS
Hexachloroethane	< 10.0 ug/L		08/21/13 03:19	jk	EPA 625 04KS
Indeno(1,2,3-cd)pyrene	< 10.0 ug/L		08/21/13 03:19	jk	EPA 625 04KS
Isophorone	< 10.0 ug/L		08/21/13 03:19	jk	EPA 625 04KS
Naphthalene	< 10.0 ug/L		08/21/13 03:19	jk	EPA 625 04KS
Nitrobenzene	< 10.0 ug/L		08/21/13 03:19	jk	EPA 625 04KS
N-Nitrosodimethylamine	< 10.0 ug/L		08/21/13 03:19	jk	EPA 625 04KS
N-Nitrosodi-n-propylamine	< 10.0 ug/L		08/21/13 03:19	jk	EPA 625 04KS
Pentachlorophenol	< 10.0 ug/L		08/21/13 03:19	jk	EPA 625 04KS
Phenanthrene	< 10.0 ug/L		08/21/13 03:19	jk	EPA 625 04KS
Phenol	< 10.0 ug/L		08/21/13 03:19	jk	EPA 625 04KS
Pyrene	< 10.0 ug/L		08/21/13 03:19	jk	EPA 625 04KS
Surrogate: 2-Fluorophenol	12 % 10-101		08/21/13 03:19	jk	EPA 625
Surrogate: Phenol- d5	10 % 10-154		08/21/13 03:19	jk	EPA 625
Surrogate: Nitrobenzene-d5	30 % 10-119		08/21/13 03:19	jk	EPA 625
Surrogate: 2-Fluorobiphenyl	43 % 10-98		08/21/13 03:19	jk	EPA 625
Surrogate: 2,4,6-Tribromophenol	13 % 10-69		08/21/13 03:19	jk	EPA 625
Surrogate: p-Terphenyl-d14	75 % 11-97		08/21/13 03:19	jk	EPA 625
<b>Soluble Metals - STL</b>					
Silicon as SiO2	0.11 mg/L		08/15/13 16:36	WPS	EPA 200.7 R4.4
Aluminum	< 0.015 mg/L		08/15/13 16:36	WPS	EPA 200.7 R4.4*
Mercury	< 0.0020 mg/L		08/15/13 11:25	WPS	EPA 245.1 R3.0 / SW 7470A 04KS
Antimony	< 0.010 mg/L		08/15/13 16:36	WPS	EPA 200.7 R4.4 04KS
Copper	< 0.0020 mg/L		08/15/13 16:36	WPS	EPA 200.7 R4.4 04KS
Silver	< 0.0020 mg/L		08/15/13 16:36	WPS	EPA 200.7 R4.4 04KS
Arsenic	< 0.015 mg/L		08/15/13 16:36	WPS	EPA 200.7 R4.4 04KS
Barium	< 0.010 mg/L		08/15/13 16:36	WPS	EPA 200.7 R4.4 04KS
Beryllium	< 0.0010 mg/L		08/15/13 16:36	WPS	EPA 200.7 R4.4 04KS
Boron	< 0.050 mg/L		08/15/13 16:36	WPS	EPA 200.7 R4.4* 04KS
Cadmium	< 0.0020 mg/L		08/15/13 16:36	WPS	EPA 200.7 R4.4 04KS
Calcium	< 0.095 mg/L		08/15/13 16:36	WPS	EPA 200.7 R4.4 04KS
Chromium	< 0.0020 mg/L		08/15/13 16:36	WPS	EPA 200.7 R4.4 04KS



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Customer #: 277310

**\*Laboratory Results\***

Sample No: **3081773-07**  
Sample Description: **Field Blank**

Collect Date: **08/12/13 16:12**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b><u>Soluble Metals - STL</u></b>					
Cobalt	< 0.0020 mg/L		08/15/13 16:36	WPS	EPA 200.7 R4.4 04KS
Iron	< 0.010 mg/L		08/15/13 16:36	WPS	EPA 200.7 R4.4 04KS
Lead	< 0.010 mg/L		08/15/13 16:36	WPS	EPA 200.7 R4.4 04KS
Magnesium	< 0.050 mg/L		08/15/13 16:36	WPS	EPA 200.7 R4.4 04KS
Manganese	< 0.0030 mg/L		08/15/13 16:36	WPS	EPA 200.7 R4.4 04KS
Molybdenum	< 0.012 mg/L		08/15/13 16:36	WPS	EPA 200.7 R4.4 04KS
Nickel	< 0.0020 mg/L		08/15/13 16:36	WPS	EPA 200.7 R4.4 04KS
Potassium	< 0.050 mg/L		08/15/13 16:36	WPS	EPA 200.7 R4.4*
Selenium	< 0.010 mg/L		08/15/13 16:36	WPS	EPA 200.7 R4.4 04KS
Sodium	< 0.10 mg/L		08/15/13 16:36	WPS	EPA 200.7 R4.4*
Thallium	< 0.020 mg/L		08/15/13 16:36	WPS	EPA 200.7 R4.4 04KS
Vanadium	< 0.0020 mg/L		08/15/13 16:36	WPS	EPA 200.7 R4.4 04KS
Zinc	< 0.010 mg/L		08/15/13 16:36	WPS	EPA 200.7 R4.4 04KS
Silicon	0.051 mg/L		08/15/13 16:36	WPS	EPA 200.7 R4.4*
<b><u>Total Metals - STL</u></b>					
Silicon as SiO2	< 0.11 mg/L		08/15/13 16:40	WPS	EPA 200.7 R4.4
Aluminum	< 0.015 mg/L		08/15/13 16:40	WPS	EPA 200.7 R4.4*
Mercury	< 0.0020 mg/L		08/15/13 11:25	WPS	EPA 245.1 R3.0 / 04KS SW 7470A
Antimony	< 0.010 mg/L		08/15/13 16:40	WPS	EPA 200.7 R4.4 04KS
Silicon	< 0.050 mg/L		08/15/13 16:40	WPS	EPA 200.7 R4.4*
Arsenic	< 0.015 mg/L		08/15/13 16:40	WPS	EPA 200.7 R4.4 04KS
Barium	< 0.010 mg/L		08/15/13 16:40	WPS	EPA 200.7 R4.4 04KS
Beryllium	< 0.0010 mg/L		08/15/13 16:40	WPS	EPA 200.7 R4.4 04KS
Hardness	< 0.25 mg/L		08/15/13 16:40	WPS	SM 2340B
Boron	< 0.050 mg/L		08/15/13 16:40	WPS	EPA 200.7 R4.4*
Cadmium	< 0.0020 mg/L		08/15/13 16:40	WPS	EPA 200.7 R4.4 04KS
Calcium	< 0.095 mg/L		08/15/13 16:40	WPS	EPA 200.7 R4.4 04KS
Chromium	< 0.0020 mg/L		08/15/13 16:40	WPS	EPA 200.7 R4.4 04KS
Cobalt	< 0.0020 mg/L		08/15/13 16:40	WPS	EPA 200.7 R4.4 04KS
Copper	< 0.0020 mg/L		08/15/13 16:40	WPS	EPA 200.7 R4.4 04KS
Iron	< 0.010 mg/L		08/15/13 16:40	WPS	EPA 200.7 R4.4 04KS
Lead	< 0.010 mg/L		08/15/13 16:40	WPS	EPA 200.7 R4.4 04KS
Magnesium	< 0.050 mg/L		08/15/13 16:40	WPS	EPA 200.7 R4.4 04KS



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Date Received: 08/13/13 12:48  
Report Date: 08/22/13  
Customer #: 277310

**\*Laboratory Results\***

Sample No: **3081773-07**  
Sample Description: **Field Blank**

Collect Date: **08/12/13 16:12**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b>Total Metals - STL</b>					
Manganese	< 0.0030 mg/L		08/15/13 16:40	WPS	EPA 200.7 R4.4 04KS
Molybdenum	< 0.012 mg/L		08/15/13 16:40	WPS	EPA 200.7 R4.4 04KS
Nickel	< 0.0020 mg/L		08/15/13 16:40	WPS	EPA 200.7 R4.4 04KS
Potassium	< 0.050 mg/L		08/15/13 16:40	WPS	EPA 200.7 R4.4*
Selenium	< 0.010 mg/L		08/15/13 16:40	WPS	EPA 200.7 R4.4 04KS
Silver	< 0.0020 mg/L		08/15/13 16:40	WPS	EPA 200.7 R4.4 04KS
Sodium	< 0.20 mg/L		08/15/13 16:40	WPS	EPA 200.7 R4.4*
Thallium	< 0.020 mg/L		08/15/13 16:40	WPS	EPA 200.7 R4.4 04KS
Vanadium	< 0.0020 mg/L		08/15/13 16:40	WPS	EPA 200.7 R4.4 04KS
Zinc	< 0.010 mg/L		08/15/13 16:40	WPS	EPA 200.7 R4.4 04KS



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**\*Laboratory Results\***

**Notes**

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PDC Laboratories participates in the following accreditation/certification and proficiency programs at the following locations. Endorsement by Federal or State Governments or their agencies is not implied.

- PIA PDC Laboratories - Peoria, IL  
TNI Accreditation for Drinking Water, Wastewater, Hazardous and Solid Wastes Fields of Testing through IL EPA Lab No. 100230  
Illinois Department of Public Health Bacteriological Analysis in Drinking Water Approved Laboratory Registry No. 17553  
Drinking Water Certifications: Kansas (E-10338); Missouri (870); Wisconsin (998284430); Indiana (C-IL-040); Iowa (240)  
Wastewater Certifications: Arkansas (88-0677); Wisconsin (998284430); Iowa (240); Kansas (E-10335)  
Hazardous/Solid Waste Certifications: Arkansas (88-0677); Wisconsin (998284430); Iowa (240); Kansas (E-10335)  
UST Certification; Iowa (240)
- SPM PDC Laboratories - Springfield, MO  
EPA DMR-QA Program
- STL PDC Laboratories - St. Louis, MO  
TNI Accreditation for Wastewater, Hazardous and Solid Wastes Fields of Testing through KS Lab No. E-10389
- JER PDC Laboratories - Jerseyville, IL  
Illinois Department of Public Health Bacteriological Analysis in Drinking Water Approved Laboratory Registry No. 17521  
Drinking Water Certifications: Missouri (430)

\* Not a TNI accredited analyte

- Xc WAD LCS failed 60%. Total CN LCS passed 97%.
- Xb The intensity of a secondary ion exceeds the relative intensity in the reference spectra.
- Xa Matrix spike diluted out, due to matrix.
- X Interference
- S Surrogate compound diluted below a reliable quantitation level.
- Q4 The matrix spike recovery result is unusable since the analyte concentration in the sample is greater than four times the spike level. The associated blank spike was acceptable.

Certified by: Roxann Shull, Client Services Supervisor





**PDC Laboratories, Inc. – St. Louis**  
**3278 N. Highway 67 (Lindbergh)**  
**Florissant, MO 63033**  
 www.pdclab.com

**CHAIN OF CUSTODY RECORD**  
 Phone (314) 432-0550 or (314) 921-4488  
 Fax (314) 432-4977

State where samples collected MO  
 (Instructions/Sample Acceptance Policy on Reverse)

ALL SHADED AREAS MUST BE COMPLETED BY CLIENT (PLEASE PRINT)

<b>1</b> CLIENT <b>BARR ENGINEERING</b>		PROJECT NUMBER	P. O. NUMBER	MEANS SHIPPED		<b>3</b> ANALYSIS REQUESTED pH/EC/OL/5400.1/TOC 4500B/510C/3685 Total metals LF 200.7 Diss metals LF TDS 2540C/TSS 2540D alkalinity 2380 B NH <sub>4</sub> -N, Cl, SO <sub>4</sub> , PO <sub>4</sub> 300D/ O <sub>2</sub> /G/664 BOD/DO/55 60D LF 520B TRN 4500NH <sub>3</sub> /Ames CA COD 5200D/NH <sub>3</sub> 4500NH <sub>3</sub> -F Total P 4500P-E MLSS/MLVSS						<b>4</b> (FOR LAB USE ONLY) LOGIN # <b>3081773</b> LOGGED BY: <b>HE</b> LAB PROJ. # TEMPLATE: PROJ. MGR.:	
ADDRESS <b>1001 DIAMOND RIDGE, SUITE 1100</b>		PHONE NUMBER	FAX NUMBER	EMAIL ADDRESS <b>egalbraith@barr.com</b>		MATRIX TYPES: WW-WASTEWATER DW-DRINKING WATER GW-GROUND WATER WWSL-SLUDGE NAS-SOLID L'CHT-LEACHATE NAL-NON-AQUEOUS SOIL-SOILS							
CITY <b>JEFF CITY, MO 65109</b>		SAMPLER		SAMPLER'S SIGNATURE									
CONTACT PERSON <b>ED GALBRAITH 573-418-5562</b>		SAMPLER'S SIGNATURE		SAMPLER'S SIGNATURE									
<b>2</b> SAMPLE DESCRIPTION AS YOU WANT ON REPORT		DATE COLLECTED	TIME COLLECTED	SAMPLE TYPE	MATRIX TYPE	Bottle Count	REMARKS						
LOCATION 1A		8/12/13	1509	✓	L'CHT	13							
LOCATION 1D		8/12/13	1612	✓	L'CHT	13							
LOCATION 1E		8/12/13	1549	✓	L'CHT	13							
LOCATION 2		8/12/13	1531	✓	L'CHT	13							
LOCATION 3		8/12/13	1515	✓	L'CHT	1							
LOCATION 4		8/12/13	1518	✓	L'CHT	16							
FIELD BLANK		8/12/13	1612	✓	DI	16							
<b>5</b> TURNAROUND TIME (RUSH TAT IS SUBJECT TO PDC LABS APPROVAL AND SURCHARGE) NORMAL (8-10 Bus. Days) <u>RUSH (5 Bus. Days)</u> <i>Fastrak™</i> (3 Bus. Days) 1-2 Bus. Days Same Day DATE DUE _____		The sample temperature will be measured upon receipt at the lab. By initialing this area, you request that the lab notify you, before proceeding with analysis, if the sample temperature is outside of the range of 0.1-6.0°C. By not initialing this area, you allow the lab to proceed with analytical testing regardless of the sample temperature.											
RESULTS BY: <u>E-MAIL</u> FAX PHONE CALL PHONE/FAX# IF DIFFERENT FROM ABOVE		<b>6</b>											
<b>7</b> RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i>		DATE	TIME	RECEIVED BY:		DATE	TIME	<b>8</b> COMMENTS: (FOR LAB USE ONLY)					
RELINQUISHED BY: (SIGNATURE)		DATE	TIME	RECEIVED BY:		DATE	TIME	SAMPLE TEMPERATURE UPON RECEIPT CHILL PROCESS STARTED PRIOR TO RECEIPT SAMPLE(S) RECEIVED ON ICE PROPER BOTTLES RECEIVED IN GOOD CONDITION BOTTLES FILLED WITH ADEQUATE VOLUME SAMPLES RECEIVED WITHIN HOLD TIME(S) (EXCLUDES TYPICAL FIELD PARAMETERS) DATE AND TIME TAKEN FROM SAMPLE BOTTLE					
RELINQUISHED BY: (SIGNATURE)		DATE	TIME	RECEIVED BY:		DATE	TIME						
RELINQUISHED BY: (SIGNATURE)		DATE	TIME	RECEIVED BY:		DATE	TIME						

Thank you for using PDC Laboratories, Inc. Locations in Peoria, IL; St. Louis, MO; and Springfield, MO

**SUBCONTRACT ORDER**  
**PDC Laboratories, Inc.**  
**3081773**

*MS*

**SENDING LABORATORY:**  PDC Laboratories, Inc, 2231 W Altorfer Peoria, IL 61615  
 PDC Laboratories, inc, 1805 W Sunset, Springfield, MO 65807  
 PDC Laboratories, Inc, 3278 N Highway 67, Florissant, MO 63033

Project Manager: Roxann Shull                      rshull@pdclab.com    Phone: 314-595-7337

Date Shipped 8/14/13  
 Sample Origin (State) MO  
 PO# \_\_\_\_\_  
 Total # of Containers 12

**RECEIVING LABORATORY:**

PDC Laboratories, Inc.  
 PO Box 9071  
 Peoria, IL 61612-9071  
 Phone : (309) 692-9688

Analysis	Due	Expires	Comments
<b>Sample ID: 3081773-01    Water    Sampled:08/12/13 15:09</b>			
TOC	08/16/13 16:00	09/09/13 15:09	
TKN	08/16/13 16:00	09/09/13 15:09	
<b>Sample ID: 3081773-02    Water    Sampled:08/12/13 16:12</b>			
TOC	08/16/13 16:00	09/09/13 16:12	
TKN	08/16/13 16:00	09/09/13 16:12	
<b>Sample ID: 3081773-03    Water    Sampled:08/12/13 15:49</b>			
TOC	08/16/13 16:00	09/09/13 15:49	
TKN	08/16/13 16:00	09/09/13 15:49	
<b>Sample ID: 3081773-04    Water    Sampled:08/12/13 15:31</b>			
TOC	08/16/13 16:00	09/09/13 15:31	
TKN	08/16/13 16:00	09/09/13 15:31	

Turn-Around Time Requested (circle one):    RUSH    Date Results Needed: 8/16/13

Relinquished By <u>Heather Caldwell</u> Date/Time <u>8/13/13</u>		Received By <u>M. Buss</u> Date/Time <u>8/15/13</u>		Sample Temperature Upon Receipt	<u>6</u> C
Relinquished By _____    Date/Time _____		Received By _____    Date/Time _____		Sample(s) Received on Ice	<input type="checkbox"/> Y or N
Relinquished By _____    Date/Time _____		Received By _____    Date/Time _____		Proper Bottles Received in Good Condition	<input checked="" type="checkbox"/> Y or N
Relinquished By _____    Date/Time _____		Received By _____    Date/Time _____		Bottles Filled with Adequate Volume	<input checked="" type="checkbox"/> Y or N
Relinquished By _____    Date/Time _____		Received By _____    Date/Time _____		Samples Received Within Hold Time	<input checked="" type="checkbox"/> Y or N
Relinquished By _____    Date/Time _____		Received By _____    Date/Time _____		Date/Time Taken From Sample Bottle	<u>9:30</u> Y or N

**SUBCONTRACT ORDER**  
**PDC Laboratories, Inc.**  
**3081773**

*MS*

Analysis	Due	Expires	Comments
<b>Sample ID: 3081773-06</b> <b>Water</b> <b>Sampled:08/12/13 15:18</b>			
TOC	08/16/13 16:00	09/09/13 15:18	
TKN	08/16/13 16:00	09/09/13 15:18	
<b>Sample ID: 3081773-07</b> <b>Water</b> <b>Sampled:08/12/13 16:12</b>			
TOC	08/16/13 16:00	09/09/13 16:12	
TKN	08/16/13 16:00	09/09/13 16:12	

Turn-Around Time Requested (circle one):    NORMAL    **RUSH**    Date Results Needed: 8/16/13

Relinquished By	Date/Time	Received By	Date/Time	Sample Temperature Upon Receipt	<u>6</u> C
<i>Heather Carlback</i>	<i>8/13/13</i>	<i>Melissa Siffes</i>	<i>8/15/13</i>	Sample(s) Received on Ice	<input checked="" type="checkbox"/> Y or N
Relinquished By	Date/Time	Received By	Date/Time	Proper Bottles Received in Good Condition	<input checked="" type="checkbox"/> Y or N
				Bottles Filled with Adequate Volume	<input checked="" type="checkbox"/> Y or N
				Samples Received Within Hold Time	<input checked="" type="checkbox"/> Y or N
				Date/Time Taken from Sample Bottle	<input checked="" type="checkbox"/> Y or N

*9:30*



**PDC Laboratories, Inc.**

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Bridgeton Landfill  
13570 St Charles Rock Road  
St. Louis, MO 63044  
Attn: Dan Feezor

Date Received: 08/15/13 16:38  
Report Date: 08/26/13  
Customer #: 277310

**\*Laboratory Results\***

Sample No: **3082394-01**  
Sample Description: **Location 1A**

Collect Date: **08/15/13 13:04**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b><u>Anions - STL</u></b>					
Chloride	5000 mg/L		08/21/13 14:25	DWM	EPA 300.0 R2.1 04KS
Nitrate-N	62 mg/L		08/16/13 10:18	DWM	EPA 300.0 R2.1 04KS
Nitrite-N	< 50 mg/L		08/16/13 10:18	DWM	EPA 300.0 R2.1 04KS
Sulfate	560 mg/L		08/21/13 14:25	DWM	EPA 300.0 R2.1 04KS
<b><u>General Chemistry - PIA</u></b>					
Total Organic Carbon (TOC)	21000 mg/L		08/22/13 18:38	lgsjw	5310C KS,IL,IA,WI,AR
<b><u>General Chemistry - STL</u></b>					
Alkalinity - total as CaCO3	7600 mg/L		08/16/13 12:00	ACV	SM 2320B 18Ed*
BOD	35000 mg/L		08/16/13 08:45	DAW	SM 5210B 18Ed 04KS
BOD - soluble	34000 mg/L		08/16/13 08:45	DAW	SM 5210B 18Ed*
COD	56000 mg/L		08/16/13 12:45	DAW	SM 5220D 18Ed 04KS
Cyanide	0.010 mg/L		08/20/13 11:00	DWM	SM 4500-CN C E 18Ed*
Cyanide - amenable	< 0.0050 mg/L		08/20/13 11:00	DWM	SM 4500CN CG 18Ed*
Cyanide - weak acid dissociable	0.0080 mg/L	Xc	08/20/13 11:00	DWM	ASTM 1310-86*
Oil & Grease - total	< 10 mg/L		08/19/13 09:00	mep	EPA 1664A 04KS
Phenol	76 mg/L		08/19/13 13:00	DWM	EPA 420.1 04KS
Solids - total dissolved solids (TDS)	50000 mg/L		08/16/13 16:00	DAW	SM 2540C 18Ed*
Solids - total suspended solids (TSS)	730 mg/L		08/16/13 12:50	DAW	SM 2540D 18Ed 04KS
<b><u>Nutrients - PIA</u></b>					
Total Kjeldahl Nitrogen (TKN)	1200 mg/L		08/22/13 15:15	lgth	SM 4500-N B & NH3-H 18Ed MOD IL,IA,WI,AR
<b><u>Nutrients - STL</u></b>					
Ammonia-N	820 mg/L		08/19/13 12:30	ACV	SM(18) 4500 NH3 F 04KS
Phosphorus - ortho as P	< 5.0 mg/L		08/16/13 15:00	ACV	SM 4500P B E 18ed*
Phosphorus - total as P	< 5.0 mg/L		08/16/13 15:00	ACV	SM 4500P B E 18ed 04KS
<b><u>Semivolatile Organics - STL</u></b>					
1,2,4-Trichlorobenzene	< 2000 ug/L	Xa	08/21/13 07:38	jk	EPA 625 04KS
1,2-Dichlorobenzene	< 2000 ug/L	Xa	08/21/13 07:38	jk	EPA 625*
1,3-Dichlorobenzene	< 2000 ug/L	Xa	08/21/13 07:38	jk	EPA 625*



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St. Louis, MO 63044  
Attn: Dan Feezor

Date Received: 08/15/13 16:38  
Report Date: 08/26/13  
Customer #: 277310

**\*Laboratory Results\***

Sample No: **3082394-01**  
Sample Description: **Location 1A**

Collect Date: **08/15/13 13:04**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b>Semivolatile Organics - STL</b>					
1,4-Dichlorobenzene	< 2000 ug/L	Xa	08/21/13 07:38	jk	EPA 625*
2,4,5-Trichlorophenol	< 2000 ug/L	Xa	08/21/13 07:38	jk	EPA 625*
2,4,6-Trichlorophenol	< 2000 ug/L	Xa	08/21/13 07:38	jk	EPA 625 04KS
2,4-Dichlorophenol	< 2000 ug/L	Xa	08/21/13 07:38	jk	EPA 625 04KS
2,4-Dimethylphenol	< 2000 ug/L	Xa	08/21/13 07:38	jk	EPA 625 04KS
2,4-Dinitrophenol	< 2000 ug/L	Xa	08/21/13 07:38	jk	EPA 625 04KS
2,4-Dinitrotoluene	< 2000 ug/L	Xa	08/21/13 07:38	jk	EPA 625 04KS
2,6-Dimethylaniline	< 1000 ug/L	Xa	08/21/13 07:38	jk	EPA 625*
2,6-Dinitrotoluene	< 2000 ug/L	Xa	08/21/13 07:38	jk	EPA 625 04KS
2-Chloronaphthalene	< 2000 ug/L	Xa	08/21/13 07:38	jk	EPA 625 04KS
2-Chlorophenol	< 2000 ug/L	Xa	08/21/13 07:38	jk	EPA 625 04KS
2-Nitrophenol	< 2000 ug/L	Xa	08/21/13 07:38	jk	EPA 625 04KS
3,3'-Dichlorobenzidine	< 2000 ug/L	Xa	08/21/13 07:38	jk	EPA 625 04KS
4,6-Dinitro-2-methylphenol	< 2000 ug/L	Xa	08/21/13 07:38	jk	EPA 625*
4-Bromophenyl phenyl ether	< 2000 ug/L	Xa	08/21/13 07:38	jk	EPA 625 04KS
4-Chloro-3-methylphenol	< 2000 ug/L	Xa	08/21/13 07:38	jk	EPA 625 04KS
4-Chlorophenylphenyl ether	< 2000 ug/L	Xa	08/21/13 07:38	jk	EPA 625 04KS
4-Nitrophenol	< 2000 ug/L	Xa	08/21/13 07:38	jk	EPA 625 04KS
Acenaphthene	< 2000 ug/L	Xa	08/21/13 07:38	jk	EPA 625 04KS
Acenaphthylene	< 2000 ug/L	Xa	08/21/13 07:38	jk	EPA 625 04KS
Anthracene	< 2000 ug/L	Xa	08/21/13 07:38	jk	EPA 625 04KS
Azobenzene	< 2000 ug/L	Xa	08/21/13 07:38	jk	EPA 625*
Benzidine	< 2000 ug/L	Xa	08/21/13 07:38	jk	EPA 625*
Benzo(a)anthracene	< 2000 ug/L	Xa	08/21/13 07:38	jk	EPA 625 04KS
Benzo(a)pyrene	< 2000 ug/L	Xa	08/21/13 07:38	jk	EPA 625 04KS
Benzo(b&k)fluoranthene	< 2000 ug/L	Xa	08/21/13 07:38	jk	EPA 625 04KS
Benzo(b)fluoranthene	< 2000 ug/L	Xa	08/21/13 07:38	jk	EPA 625 04KS
Benzo(g,h,i)perylene	< 2000 ug/L	Xa	08/21/13 07:38	jk	EPA 625 04KS
Benzo(k)fluoranthene	< 2000 ug/L	Xa	08/21/13 07:38	jk	EPA 625 04KS
Bis(2-chloroethoxy) methane	< 2000 ug/L	Xa	08/21/13 07:38	jk	EPA 625 04KS
Bis(2-chloroethyl) ether	< 2000 ug/L	Xa	08/21/13 07:38	jk	EPA 625 04KS
Bis(2-chloroisopropyl) ether	< 2000 ug/L	Xa	08/21/13 07:38	jk	EPA 625 04KS
Bis(2-ethylhexyl) phthalate	< 2000 ug/L	Xa	08/21/13 07:38	jk	EPA 625 04KS



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Bridgeton Landfill  
13570 St Charles Rock Road  
St. Louis, MO 63044  
Attn: Dan Feezor

Date Received: 08/15/13 16:38  
Report Date: 08/26/13  
Customer #: 277310

**\*Laboratory Results\***

Sample No: **3082394-01**  
Sample Description: **Location 1A**

Collect Date: **08/15/13 13:04**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b>Semivolatile Organics - STL</b>					
Butyl benzyl phthalate	< 2000 ug/L	Xa	08/21/13 07:38	jk	EPA 625 04KS
Chrysene	< 2000 ug/L	Xa	08/21/13 07:38	jk	EPA 625 04KS
Dibenzo(a,h)anthracene	< 2000 ug/L	Xa	08/21/13 07:38	jk	EPA 625 04KS
Diethyl phthalate	< 2000 ug/L	Xa	08/21/13 07:38	jk	EPA 625 04KS
Dimethyl phthalate	< 2000 ug/L	Xa	08/21/13 07:38	jk	EPA 625 04KS
Di-n-butyl phthalate	< 2000 ug/L	Xa	08/21/13 07:38	jk	EPA 625 04KS
Di-n-octyl phthalate	< 2000 ug/L	Xa	08/21/13 07:38	jk	EPA 625 04KS
Diphenylamine	< 2000 ug/L	Xa	08/21/13 07:38	jk	EPA 625 04KS
Fluoranthene	< 2000 ug/L	Xa	08/21/13 07:38	jk	EPA 625 04KS
Fluorene	< 2000 ug/L	Xa	08/21/13 07:38	jk	EPA 625 04KS
Hexachlorobenzene	< 2000 ug/L	Xa	08/21/13 07:38	jk	EPA 625 04KS
Hexachlorobutadiene	< 2000 ug/L	Xa	08/21/13 07:38	jk	EPA 625 04KS
Hexachlorocyclopentadiene	< 2000 ug/L	Xa	08/21/13 07:38	jk	EPA 625 04KS
Hexachloroethane	< 2000 ug/L	Xa	08/21/13 07:38	jk	EPA 625 04KS
Indeno(1,2,3-cd)pyrene	< 2000 ug/L	Xa	08/21/13 07:38	jk	EPA 625 04KS
Isophorone	< 2000 ug/L	Xa	08/21/13 07:38	jk	EPA 625 04KS
Naphthalene	< 2000 ug/L	Xa	08/21/13 07:38	jk	EPA 625 04KS
Nitrobenzene	< 2000 ug/L	Xa	08/21/13 07:38	jk	EPA 625 04KS
N-Nitrosodimethylamine	< 2000 ug/L	Xa	08/21/13 07:38	jk	EPA 625 04KS
N-Nitrosodi-n-propylamine	< 2000 ug/L	Xa	08/21/13 07:38	jk	EPA 625 04KS
Pentachlorophenol	< 2000 ug/L	Xa	08/21/13 07:38	jk	EPA 625 04KS
Phenanthrene	< 2000 ug/L	Xa	08/21/13 07:38	jk	EPA 625 04KS
Phenol	4120 ug/L	Xa	08/21/13 07:38	jk	EPA 625 04KS
Pyrene	< 2000 ug/L	Xa	08/21/13 07:38	jk	EPA 625 04KS
Surrogate: 2-Fluorophenol	12 % 10-101	S, Xa	08/21/13 07:38	jk	EPA 625
Surrogate: Phenol- d5	3 % 10-154	S, Xa	08/21/13 07:38	jk	EPA 625
Surrogate: Nitrobenzene-d5	% 10-119	S, Xa	08/21/13 07:38	jk	EPA 625
Surrogate: 2-Fluorobiphenyl	39 % 10-98	S, Xa	08/21/13 07:38	jk	EPA 625
Surrogate: 2,4,6-Tribromophenol	% 10-69	S, Xa	08/21/13 07:38	jk	EPA 625
Surrogate: p-Terphenyl-d14	44 % 11-97	S, Xa	08/21/13 07:38	jk	EPA 625
<b>Soluble Metals - STL</b>					
Silicon as SiO2	120 mg/L		08/20/13 15:46	WPS	EPA 200.7 R4.4
Aluminum	1.8 mg/L		08/20/13 15:46	WPS	EPA 200.7 R4.4*



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Bridgeton Landfill  
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St. Louis, MO 63044  
Attn: Dan Feezor

Date Received: 08/15/13 16:38  
Report Date: 08/26/13  
Customer #: 277310

**\*Laboratory Results\***

Sample No: **3082394-01**  
Sample Description: **Location 1A**

Collect Date: **08/15/13 13:04**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b>Soluble Metals - STL</b>					
Mercury	< 0.0020 mg/L		08/20/13 12:03	WPS	EPA 245.1 R3.0 / SW 7470A 04KS
Antimony	0.22 mg/L		08/20/13 15:46	WPS	EPA 200.7 R4.4 04KS
Copper	0.033 mg/L		08/20/13 15:46	WPS	EPA 200.7 R4.4 04KS
Silver	< 0.020 mg/L		08/20/13 15:46	WPS	EPA 200.7 R4.4 04KS
Arsenic	0.49 mg/L		08/20/13 15:46	WPS	EPA 200.7 R4.4 04KS
Barium	3.3 mg/L		08/20/13 15:46	WPS	EPA 200.7 R4.4 04KS
Beryllium	< 0.010 mg/L		08/20/13 15:46	WPS	EPA 200.7 R4.4 04KS
Boron	21 mg/L		08/20/13 15:46	WPS	EPA 200.7 R4.4* 04KS
Cadmium	0.041 mg/L		08/20/13 15:46	WPS	EPA 200.7 R4.4 04KS
Calcium	4700 mg/L		08/20/13 13:27	WPS	EPA 200.7 R4.4 04KS
Chromium	0.26 mg/L		08/20/13 15:46	WPS	EPA 200.7 R4.4 04KS
Cobalt	0.060 mg/L		08/20/13 15:46	WPS	EPA 200.7 R4.4 04KS
Iron	740 mg/L		08/20/13 14:45	WPS	EPA 200.7 R4.4 04KS
Lead	< 0.10 mg/L		08/20/13 15:46	WPS	EPA 200.7 R4.4 04KS
Magnesium	470 mg/L		08/20/13 14:45	WPS	EPA 200.7 R4.4 04KS
Manganese	65 mg/L		08/20/13 15:46	WPS	EPA 200.7 R4.4 04KS
Molybdenum	< 0.12 mg/L		08/20/13 15:46	WPS	EPA 200.7 R4.4 04KS
Nickel	0.12 mg/L		08/20/13 15:46	WPS	EPA 200.7 R4.4 04KS
Potassium	760 mg/L		08/20/13 14:45	WPS	EPA 200.7 R4.4* 04KS
Selenium	0.21 mg/L		08/20/13 15:46	WPS	EPA 200.7 R4.4 04KS
Sodium	3300 mg/L		08/20/13 13:27	WPS	EPA 200.7 R4.4* 04KS
Thallium	< 0.20 mg/L		08/20/13 15:46	WPS	EPA 200.7 R4.4 04KS
Vanadium	0.033 mg/L		08/20/13 15:46	WPS	EPA 200.7 R4.4 04KS
Zinc	11 mg/L		08/20/13 15:46	WPS	EPA 200.7 R4.4 04KS
Silicon	58 mg/L		08/20/13 15:46	WPS	EPA 200.7 R4.4* 04KS
<b>Total Metals - STL</b>					
Silicon as SiO2	140 mg/L		08/20/13 15:50	WPS	EPA 200.7 R4.4 04KS
Aluminum	4.2 mg/L		08/20/13 15:50	WPS	EPA 200.7 R4.4* 04KS
Mercury	0.010 mg/L		08/20/13 12:03	WPS	EPA 245.1 R3.0 / SW 7470A 04KS
Antimony	< 0.10 mg/L	Ba	08/20/13 15:50	WPS	EPA 200.7 R4.4 04KS
Silicon	67 mg/L		08/20/13 15:50	WPS	EPA 200.7 R4.4* 04KS
Arsenic	0.61 mg/L		08/20/13 15:50	WPS	EPA 200.7 R4.4 04KS



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Bridgeton Landfill  
13570 St Charles Rock Road  
St. Louis, MO 63044  
Attn: Dan Feezor

Date Received: 08/15/13 16:38  
Report Date: 08/26/13  
Customer #: 277310

**\*Laboratory Results\***

Sample No: **3082394-01**  
Sample Description: **Location 1A**

Collect Date: **08/15/13 13:04**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b>Total Metals - STL</b>					
Barium	3.6 mg/L		08/20/13 15:50	WPS	EPA 200.7 R4.4 04KS
Beryllium	< 0.010 mg/L		08/20/13 15:50	WPS	EPA 200.7 R4.4 04KS
Hardness	13000 mg/L		08/20/13 14:49	WPS	SM 2340B
Boron	22 mg/L		08/20/13 15:50	WPS	EPA 200.7 R4.4*
Cadmium	0.049 mg/L		08/20/13 15:50	WPS	EPA 200.7 R4.4 04KS
Calcium	4500 mg/L		08/20/13 13:31	WPS	EPA 200.7 R4.4 04KS
Chromium	0.27 mg/L		08/20/13 15:50	WPS	EPA 200.7 R4.4 04KS
Cobalt	0.065 mg/L		08/20/13 15:50	WPS	EPA 200.7 R4.4 04KS
Copper	0.28 mg/L	B	08/20/13 15:50	WPS	EPA 200.7 R4.4 04KS
Iron	860 mg/L		08/20/13 14:49	WPS	EPA 200.7 R4.4 04KS
Lead	0.16 mg/L		08/20/13 15:50	WPS	EPA 200.7 R4.4 04KS
Magnesium	450 mg/L		08/20/13 14:49	WPS	EPA 200.7 R4.4 04KS
Manganese	65 mg/L		08/20/13 15:50	WPS	EPA 200.7 R4.4 04KS
Molybdenum	< 0.12 mg/L		08/20/13 15:50	WPS	EPA 200.7 R4.4 04KS
Nickel	0.12 mg/L		08/20/13 15:50	WPS	EPA 200.7 R4.4 04KS
Potassium	730 mg/L		08/20/13 14:49	WPS	EPA 200.7 R4.4*
Selenium	< 0.10 mg/L		08/20/13 15:50	WPS	EPA 200.7 R4.4 04KS
Silver	< 0.020 mg/L		08/20/13 15:50	WPS	EPA 200.7 R4.4 04KS
Sodium	3200 mg/L		08/20/13 13:31	WPS	EPA 200.7 R4.4*
Thallium	< 0.20 mg/L		08/20/13 15:50	WPS	EPA 200.7 R4.4 04KS
Vanadium	0.050 mg/L		08/20/13 15:50	WPS	EPA 200.7 R4.4 04KS
Zinc	11 mg/L		08/20/13 15:50	WPS	EPA 200.7 R4.4 04KS

Sample No: **3082394-02**  
Sample Description: **Location 1D**

Collect Date: **08/15/13 13:26**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b>Anions - STL</b>					
Chloride	5200 mg/L		08/21/13 14:42	DWM	EPA 300.0 R2.1 04KS
Nitrate-N	< 50 mg/L		08/16/13 10:35	DWM	EPA 300.0 R2.1 04KS
Nitrite-N	< 50 mg/L		08/16/13 10:35	DWM	EPA 300.0 R2.1 04KS
Sulfate	< 2000 mg/L		08/21/13 14:42	DWM	EPA 300.0 R2.1 04KS





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St. Louis, MO 63044  
Attn: Dan Feezor

Date Received: 08/15/13 16:38  
Report Date: 08/26/13  
Customer #: 277310

**\*Laboratory Results\***

Sample No: **3082394-02**  
Sample Description: **Location 1D**

Collect Date: **08/15/13 13:26**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method	
<b><u>General Chemistry - PIA</u></b>						
Total Organic Carbon (TOC)	17000 mg/L		08/22/13 18:45	lgsjw	5310C	KS,IL,IA,WI,AR
<b><u>General Chemistry - STL</u></b>						
Alkalinity - total as CaCO3	8300 mg/L		08/16/13 12:00	ACV	SM 2320B 18Ed*	
BOD	36000 mg/L		08/16/13 08:45	DAW	SM 5210B 18Ed	04KS
BOD - soluble	31000 mg/L		08/16/13 08:45	DAW	SM 5210B 18Ed*	
COD	50000 mg/L		08/16/13 12:45	DAW	SM 5220D 18Ed	04KS
Cyanide	0.0090 mg/L		08/20/13 11:00	DWM	SM 4500-CN C E 18Ed*	
Cyanide - amenable	< 0.0050 mg/L		08/20/13 11:00	DWM	SM 4500CN CG 18Ed*	
Cyanide - weak acid dissociable	0.015 mg/L	Xc	08/20/13 11:00	DWM	ASTM 1310-86*	
Oil & Grease - total	< 5.0 mg/L		08/19/13 09:00	mep	EPA 1664A	04KS
Phenol	72 mg/L		08/19/13 13:00	DWM	EPA 420.1	04KS
Solids - total dissolved solids (TDS)	50000 mg/L		08/16/13 16:00	DAW	SM 2540C 18Ed*	
Solids - total suspended solids (TSS)	160 mg/L		08/16/13 12:50	DAW	SM 2540D 18Ed	04KS
<b><u>Nutrients - PIA</u></b>						
Total Kjeldahl Nitrogen (TKN)	1100 mg/L		08/22/13 15:16	lgth	SM 4500-N B & NH3-H 18Ed MOD	IL,IA,WI,AR
<b><u>Nutrients - STL</u></b>						
Ammonia-N	820 mg/L		08/19/13 12:30	ACV	SM(18) 4500 NH3 F	04KS
Phosphorus - ortho as P	< 5.0 mg/L		08/16/13 15:00	ACV	SM 4500P B E 18ed*	
Phosphorus - total as P	< 5.0 mg/L		08/16/13 15:00	ACV	SM 4500P B E 18ed	04KS
<b><u>Semivolatile Organics - STL</u></b>						
1,2,4-Trichlorobenzene	< 2000 ug/L		08/21/13 06:11	jk	EPA 625	04KS
1,2-Dichlorobenzene	< 2000 ug/L		08/21/13 06:11	jk	EPA 625*	
1,3-Dichlorobenzene	< 2000 ug/L		08/21/13 06:11	jk	EPA 625*	
1,4-Dichlorobenzene	< 2000 ug/L		08/21/13 06:11	jk	EPA 625*	
2,4,5-Trichlorophenol	< 2000 ug/L		08/21/13 06:11	jk	EPA 625*	
2,4,6-Trichlorophenol	< 2000 ug/L		08/21/13 06:11	jk	EPA 625	04KS
2,4-Dichlorophenol	< 2000 ug/L		08/21/13 06:11	jk	EPA 625	04KS
2,4-Dimethylphenol	< 2000 ug/L		08/21/13 06:11	jk	EPA 625	04KS



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Bridgeton Landfill  
13570 St Charles Rock Road  
St. Louis, MO 63044  
Attn: Dan Feezor

Date Received: 08/15/13 16:38  
Report Date: 08/26/13  
Customer #: 277310

**\*Laboratory Results\***

Sample No: **3082394-02**  
Sample Description: **Location 1D**

Collect Date: **08/15/13 13:26**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b>Semivolatile Organics - STL</b>					
2,4-Dinitrophenol	< 2000 ug/L		08/21/13 06:11	jk	EPA 625 04KS
2,4-Dinitrotoluene	< 2000 ug/L		08/21/13 06:11	jk	EPA 625 04KS
2,6-Dimethylaniline	< 1000 ug/L		08/21/13 06:11	jk	EPA 625*
2,6-Dinitrotoluene	< 2000 ug/L		08/21/13 06:11	jk	EPA 625 04KS
2-Chloronaphthalene	< 2000 ug/L		08/21/13 06:11	jk	EPA 625 04KS
2-Chlorophenol	< 2000 ug/L		08/21/13 06:11	jk	EPA 625 04KS
2-Nitrophenol	< 2000 ug/L		08/21/13 06:11	jk	EPA 625 04KS
3,3'-Dichlorobenzidine	< 2000 ug/L		08/21/13 06:11	jk	EPA 625 04KS
4,6-Dinitro-2-methylphenol	< 2000 ug/L		08/21/13 06:11	jk	EPA 625*
4-Bromophenyl phenyl ether	< 2000 ug/L		08/21/13 06:11	jk	EPA 625 04KS
4-Chloro-3-methylphenol	< 2000 ug/L		08/21/13 06:11	jk	EPA 625 04KS
4-Chlorophenylphenyl ether	< 2000 ug/L		08/21/13 06:11	jk	EPA 625 04KS
4-Nitrophenol	< 2000 ug/L		08/21/13 06:11	jk	EPA 625 04KS
Acenaphthene	< 2000 ug/L		08/21/13 06:11	jk	EPA 625 04KS
Acenaphthylene	< 2000 ug/L		08/21/13 06:11	jk	EPA 625 04KS
Anthracene	< 2000 ug/L		08/21/13 06:11	jk	EPA 625 04KS
Azobenzene	< 2000 ug/L		08/21/13 06:11	jk	EPA 625*
Benzidine	< 2000 ug/L		08/21/13 06:11	jk	EPA 625*
Benzo(a)anthracene	< 2000 ug/L		08/21/13 06:11	jk	EPA 625 04KS
Benzo(a)pyrene	< 2000 ug/L		08/21/13 06:11	jk	EPA 625 04KS
Benzo(b&k)fluoranthene	< 2000 ug/L		08/21/13 06:11	jk	EPA 625 04KS
Benzo(b)fluoranthene	< 2000 ug/L		08/21/13 06:11	jk	EPA 625 04KS
Benzo(g,h,i)perylene	< 2000 ug/L		08/21/13 06:11	jk	EPA 625 04KS
Benzo(k)fluoranthene	< 2000 ug/L		08/21/13 06:11	jk	EPA 625 04KS
Bis(2-chloroethoxy) methane	< 2000 ug/L		08/21/13 06:11	jk	EPA 625 04KS
Bis(2-chloroethyl) ether	< 2000 ug/L		08/21/13 06:11	jk	EPA 625 04KS
Bis(2-chloroisopropyl) ether	< 2000 ug/L		08/21/13 06:11	jk	EPA 625 04KS
Bis(2-ethylhexyl) phthalate	< 2000 ug/L		08/21/13 06:11	jk	EPA 625 04KS
Butyl benzyl phthalate	< 2000 ug/L		08/21/13 06:11	jk	EPA 625 04KS
Chrysene	< 2000 ug/L		08/21/13 06:11	jk	EPA 625 04KS
Dibenzo(a,h)anthracene	< 2000 ug/L		08/21/13 06:11	jk	EPA 625 04KS
Diethyl phthalate	< 2000 ug/L		08/21/13 06:11	jk	EPA 625 04KS
Dimethyl phthalate	< 2000 ug/L		08/21/13 06:11	jk	EPA 625 04KS



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Date Received: 08/15/13 16:38  
Report Date: 08/26/13  
Customer #: 277310

**\*Laboratory Results\***

Sample No: **3082394-02**  
Sample Description: **Location 1D**

Collect Date: **08/15/13 13:26**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b>Semivolatile Organics - STL</b>					
Di-n-butyl phthalate	< 2000 ug/L		08/21/13 06:11	jk	EPA 625 04KS
Di-n-octyl phthalate	< 2000 ug/L		08/21/13 06:11	jk	EPA 625 04KS
Diphenylamine	< 2000 ug/L		08/21/13 06:11	jk	EPA 625 04KS
Fluoranthene	< 2000 ug/L		08/21/13 06:11	jk	EPA 625 04KS
Fluorene	< 2000 ug/L		08/21/13 06:11	jk	EPA 625 04KS
Hexachlorobenzene	< 2000 ug/L		08/21/13 06:11	jk	EPA 625 04KS
Hexachlorobutadiene	< 2000 ug/L		08/21/13 06:11	jk	EPA 625 04KS
Hexachlorocyclopentadiene	< 2000 ug/L		08/21/13 06:11	jk	EPA 625 04KS
Hexachloroethane	< 2000 ug/L		08/21/13 06:11	jk	EPA 625 04KS
Indeno(1,2,3-cd)pyrene	< 2000 ug/L		08/21/13 06:11	jk	EPA 625 04KS
Isophorone	< 2000 ug/L		08/21/13 06:11	jk	EPA 625 04KS
Naphthalene	< 2000 ug/L		08/21/13 06:11	jk	EPA 625 04KS
Nitrobenzene	< 2000 ug/L		08/21/13 06:11	jk	EPA 625 04KS
N-Nitrosodimethylamine	< 2000 ug/L		08/21/13 06:11	jk	EPA 625 04KS
N-Nitrosodi-n-propylamine	< 2000 ug/L		08/21/13 06:11	jk	EPA 625 04KS
Pentachlorophenol	< 2000 ug/L		08/21/13 06:11	jk	EPA 625 04KS
Phenanthrene	< 2000 ug/L		08/21/13 06:11	jk	EPA 625 04KS
Phenol	2870 ug/L	Xb	08/21/13 06:11	jk	EPA 625 04KS
Pyrene	< 2000 ug/L		08/21/13 06:11	jk	EPA 625 04KS
Surrogate: 2-Fluorophenol	3 % 10-101	S	08/21/13 06:11	jk	EPA 625
Surrogate: Phenol- d5	33 % 10-154	S	08/21/13 06:11	jk	EPA 625
Surrogate: Nitrobenzene-d5	% 10-119	S	08/21/13 06:11	jk	EPA 625
Surrogate: 2-Fluorobiphenyl	47 % 10-98	S	08/21/13 06:11	jk	EPA 625
Surrogate: 2,4,6-Tribromophenol	8 % 10-69	S	08/21/13 06:11	jk	EPA 625
Surrogate: p-Terphenyl-d14	45 % 11-97	S	08/21/13 06:11	jk	EPA 625
<b>Soluble Metals - STL</b>					
Silicon as SiO2	89 mg/L		08/20/13 15:54	WPS	EPA 200.7 R4.4
Aluminum	0.22 mg/L		08/20/13 15:54	WPS	EPA 200.7 R4.4*
Mercury	< 0.0020 mg/L		08/20/13 12:03	WPS	EPA 245.1 R3.0 / SW 7470A 04KS
Antimony	0.16 mg/L		08/20/13 15:54	WPS	EPA 200.7 R4.4 04KS
Copper	< 0.020 mg/L		08/20/13 15:54	WPS	EPA 200.7 R4.4 04KS
Silver	< 0.020 mg/L		08/20/13 15:54	WPS	EPA 200.7 R4.4 04KS



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Date Received: 08/15/13 16:38  
Report Date: 08/26/13  
Customer #: 277310

**\*Laboratory Results\***

Sample No: **3082394-02**  
Sample Description: **Location 1D**

Collect Date: **08/15/13 13:26**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b><u>Soluble Metals - STL</u></b>					
Arsenic	0.45 mg/L		08/20/13 15:54	WPS	EPA 200.7 R4.4 04KS
Barium	2.7 mg/L		08/20/13 15:54	WPS	EPA 200.7 R4.4 04KS
Beryllium	< 0.010 mg/L		08/20/13 15:54	WPS	EPA 200.7 R4.4 04KS
Boron	19 mg/L		08/20/13 15:54	WPS	EPA 200.7 R4.4*
Cadmium	< 0.020 mg/L		08/20/13 15:54	WPS	EPA 200.7 R4.4 04KS
Calcium	4000 mg/L		08/20/13 13:35	WPS	EPA 200.7 R4.4 04KS
Chromium	0.17 mg/L		08/20/13 15:54	WPS	EPA 200.7 R4.4 04KS
Cobalt	0.032 mg/L		08/20/13 15:54	WPS	EPA 200.7 R4.4 04KS
Iron	150 mg/L		08/20/13 14:53	WPS	EPA 200.7 R4.4 04KS
Lead	< 0.10 mg/L		08/20/13 15:54	WPS	EPA 200.7 R4.4 04KS
Magnesium	370 mg/L		08/20/13 14:53	WPS	EPA 200.7 R4.4 04KS
Manganese	29 mg/L		08/20/13 15:54	WPS	EPA 200.7 R4.4 04KS
Molybdenum	< 0.12 mg/L		08/20/13 15:54	WPS	EPA 200.7 R4.4 04KS
Nickel	0.11 mg/L		08/20/13 15:54	WPS	EPA 200.7 R4.4 04KS
Potassium	700 mg/L		08/20/13 14:53	WPS	EPA 200.7 R4.4*
Selenium	0.33 mg/L		08/20/13 15:54	WPS	EPA 200.7 R4.4 04KS
Sodium	4100 mg/L		08/20/13 13:35	WPS	EPA 200.7 R4.4*
Thallium	< 0.20 mg/L		08/20/13 15:54	WPS	EPA 200.7 R4.4 04KS
Vanadium	0.039 mg/L		08/20/13 15:54	WPS	EPA 200.7 R4.4 04KS
Zinc	2.0 mg/L		08/20/13 15:54	WPS	EPA 200.7 R4.4 04KS
Silicon	42 mg/L		08/20/13 15:54	WPS	EPA 200.7 R4.4*
<b><u>Total Metals - STL</u></b>					
Silicon as SiO2	85 mg/L		08/20/13 15:58	WPS	EPA 200.7 R4.4
Aluminum	0.30 mg/L		08/20/13 15:58	WPS	EPA 200.7 R4.4*
Mercury	< 0.0020 mg/L		08/20/13 12:03	WPS	EPA 245.1 R3.0 / 04KS SW 7470A
Antimony	0.11 mg/L	Ba	08/20/13 15:58	WPS	EPA 200.7 R4.4 04KS
Silicon	40 mg/L		08/20/13 15:58	WPS	EPA 200.7 R4.4*
Arsenic	0.43 mg/L		08/20/13 15:58	WPS	EPA 200.7 R4.4 04KS
Barium	2.7 mg/L		08/20/13 15:58	WPS	EPA 200.7 R4.4 04KS
Beryllium	< 0.010 mg/L		08/20/13 15:58	WPS	EPA 200.7 R4.4 04KS
Hardness	11000 mg/L		08/20/13 14:57	WPS	SM 2340B
Boron	19 mg/L		08/20/13 15:58	WPS	EPA 200.7 R4.4*
Cadmium	< 0.020 mg/L		08/20/13 15:58	WPS	EPA 200.7 R4.4 04KS



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Bridgeton Landfill  
13570 St Charles Rock Road  
St. Louis, MO 63044  
Attn: Dan Feezor

Date Received: 08/15/13 16:38  
Report Date: 08/26/13  
Customer #: 277310

**\*Laboratory Results\***

Sample No: **3082394-02**  
Sample Description: **Location 1D**

Collect Date: **08/15/13 13:26**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b>Total Metals - STL</b>					
Calcium	3800 mg/L		08/20/13 13:39	WPS	EPA 200.7 R4.4 04KS
Chromium	0.16 mg/L		08/20/13 15:58	WPS	EPA 200.7 R4.4 04KS
Cobalt	0.032 mg/L		08/20/13 15:58	WPS	EPA 200.7 R4.4 04KS
Copper	< 0.020 mg/L	B	08/20/13 15:58	WPS	EPA 200.7 R4.4 04KS
Iron	150 mg/L		08/20/13 14:57	WPS	EPA 200.7 R4.4 04KS
Lead	< 0.10 mg/L		08/20/13 15:58	WPS	EPA 200.7 R4.4 04KS
Magnesium	360 mg/L		08/20/13 14:57	WPS	EPA 200.7 R4.4 04KS
Manganese	30 mg/L		08/20/13 15:58	WPS	EPA 200.7 R4.4 04KS
Molybdenum	< 0.12 mg/L		08/20/13 15:58	WPS	EPA 200.7 R4.4 04KS
Nickel	0.11 mg/L		08/20/13 15:58	WPS	EPA 200.7 R4.4 04KS
Potassium	650 mg/L		08/20/13 14:57	WPS	EPA 200.7 R4.4*
Selenium	0.10 mg/L		08/20/13 15:58	WPS	EPA 200.7 R4.4 04KS
Silver	< 0.020 mg/L		08/20/13 15:58	WPS	EPA 200.7 R4.4 04KS
Sodium	4000 mg/L		08/20/13 13:39	WPS	EPA 200.7 R4.4*
Thallium	< 0.20 mg/L		08/20/13 15:58	WPS	EPA 200.7 R4.4 04KS
Vanadium	0.037 mg/L		08/20/13 15:58	WPS	EPA 200.7 R4.4 04KS
Zinc	2.1 mg/L		08/20/13 15:58	WPS	EPA 200.7 R4.4 04KS

Sample No: **3082394-03**  
Sample Description: **Location 1E**

Collect Date: **08/15/13 13:53**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b>Anions - STL</b>					
Chloride	5100 mg/L		08/21/13 15:00	DWM	EPA 300.0 R2.1 04KS
Nitrate-N	< 50 mg/L		08/16/13 10:53	DWM	EPA 300.0 R2.1 04KS
Nitrite-N	< 50 mg/L		08/16/13 10:53	DWM	EPA 300.0 R2.1 04KS
Sulfate	< 2000 mg/L		08/21/13 15:00	DWM	EPA 300.0 R2.1 04KS
<b>General Chemistry - PIA</b>					
Total Organic Carbon (TOC)	20000 mg/L		08/22/13 18:52	lgsjw	5310C KS,IL,IA,WI,AR
<b>General Chemistry - STL</b>					
Alkalinity - total as CaCO3	11000 mg/L		08/16/13 12:00	ACV	SM 2320B 18Ed*



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Date Received: 08/15/13 16:38  
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Customer #: 277310

**\*Laboratory Results\***

Sample No: **3082394-03**  
Sample Description: **Location 1E**

Collect Date: **08/15/13 13:53**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b><u>General Chemistry - STL</u></b>					
BOD	36000 mg/L		08/16/13 08:45	DAW	SM 5210B 18Ed 04KS
BOD - soluble	32000 mg/L		08/16/13 08:45	DAW	SM 5210B 18Ed*
COD	63000 mg/L		08/16/13 12:45	DAW	SM 5220D 18Ed 04KS
Cyanide	0.0080 mg/L		08/20/13 11:00	DWM	SM 4500-CN C E 18Ed*
Cyanide - amenable	< 0.0050 mg/L		08/20/13 11:00	DWM	SM 4500CN CG 18Ed*
Cyanide - weak acid dissociable	0.0090 mg/L	Xc	08/20/13 11:00	DWM	ASTM 1310-86*
Oil & Grease - total	< 8.7 mg/L		08/19/13 09:00	mep	EPA 1664A 04KS
Phenol	72 mg/L		08/19/13 13:00	DWM	EPA 420.1 04KS
Solids - total dissolved solids (TDS)	50000 mg/L		08/16/13 16:00	DAW	SM 2540C 18Ed*
Solids - total suspended solids (TSS)	9300 mg/L		08/16/13 12:50	DAW	SM 2540D 18Ed 04KS
<b><u>Nutrients - PIA</u></b>					
Total Kjeldahl Nitrogen (TKN)	1300 mg/L		08/22/13 15:16	lgthh	SM 4500-N B & NH3-H 18Ed MOD IL,IA,WI,AR
<b><u>Nutrients - STL</u></b>					
Ammonia-N	840 mg/L		08/19/13 12:30	ACV	SM(18) 4500 NH3 F 04KS
Phosphorus - ortho as P	< 5.0 mg/L		08/16/13 15:00	ACV	SM 4500P B E 18ed* 04KS
Phosphorus - total as P	5.7 mg/L		08/16/13 15:00	ACV	SM 4500P B E 18ed 04KS
<b><u>Semivolatile Organics - STL</u></b>					
1,2,4-Trichlorobenzene	< 2000 ug/L		08/21/13 06:55	jk	EPA 625 04KS
1,2-Dichlorobenzene	< 2000 ug/L		08/21/13 06:55	jk	EPA 625*
1,3-Dichlorobenzene	< 2000 ug/L		08/21/13 06:55	jk	EPA 625*
1,4-Dichlorobenzene	< 2000 ug/L		08/21/13 06:55	jk	EPA 625*
2,4,5-Trichlorophenol	< 2000 ug/L		08/21/13 06:55	jk	EPA 625*
2,4,6-Trichlorophenol	< 2000 ug/L		08/21/13 06:55	jk	EPA 625 04KS
2,4-Dichlorophenol	< 2000 ug/L		08/21/13 06:55	jk	EPA 625 04KS
2,4-Dimethylphenol	< 2000 ug/L		08/21/13 06:55	jk	EPA 625 04KS
2,4-Dinitrophenol	< 2000 ug/L		08/21/13 06:55	jk	EPA 625 04KS
2,4-Dinitrotoluene	< 2000 ug/L		08/21/13 06:55	jk	EPA 625 04KS
2,6-Dimethylaniline	< 1000 ug/L		08/21/13 06:55	jk	EPA 625*
2,6-Dinitrotoluene	< 2000 ug/L		08/21/13 06:55	jk	EPA 625 04KS

3082394



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**\*Laboratory Results\***

Sample No: **3082394-03**  
Sample Description: **Location 1E**

Collect Date: **08/15/13 13:53**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b>Semivolatile Organics - STL</b>					
2-Chloronaphthalene	< 2000 ug/L		08/21/13 06:55	jk	EPA 625 04KS
2-Chlorophenol	< 2000 ug/L		08/21/13 06:55	jk	EPA 625 04KS
2-Nitrophenol	< 2000 ug/L		08/21/13 06:55	jk	EPA 625 04KS
3,3'-Dichlorobenzidine	< 2000 ug/L		08/21/13 06:55	jk	EPA 625 04KS
4,6-Dinitro-2-methylphenol	< 2000 ug/L		08/21/13 06:55	jk	EPA 625*
4-Bromophenyl phenyl ether	< 2000 ug/L		08/21/13 06:55	jk	EPA 625 04KS
4-Chloro-3-methylphenol	< 2000 ug/L		08/21/13 06:55	jk	EPA 625 04KS
4-Chlorophenylphenyl ether	< 2000 ug/L		08/21/13 06:55	jk	EPA 625 04KS
4-Nitrophenol	< 2000 ug/L		08/21/13 06:55	jk	EPA 625 04KS
Acenaphthene	< 2000 ug/L		08/21/13 06:55	jk	EPA 625 04KS
Acenaphthylene	< 2000 ug/L		08/21/13 06:55	jk	EPA 625 04KS
Anthracene	< 2000 ug/L		08/21/13 06:55	jk	EPA 625 04KS
Azobenzene	< 2000 ug/L		08/21/13 06:55	jk	EPA 625*
Benzidine	< 2000 ug/L		08/21/13 06:55	jk	EPA 625*
Benzo(a)anthracene	< 2000 ug/L		08/21/13 06:55	jk	EPA 625 04KS
Benzo(a)pyrene	< 2000 ug/L		08/21/13 06:55	jk	EPA 625 04KS
Benzo(b&k)fluoranthene	< 2000 ug/L		08/21/13 06:55	jk	EPA 625 04KS
Benzo(b)fluoranthene	< 2000 ug/L		08/21/13 06:55	jk	EPA 625 04KS
Benzo(g,h,i)perylene	< 2000 ug/L		08/21/13 06:55	jk	EPA 625 04KS
Benzo(k)fluoranthene	< 2000 ug/L		08/21/13 06:55	jk	EPA 625 04KS
Bis(2-chloroethoxy) methane	< 2000 ug/L		08/21/13 06:55	jk	EPA 625 04KS
Bis(2-chloroethyl) ether	< 2000 ug/L		08/21/13 06:55	jk	EPA 625 04KS
Bis(2-chloroisopropyl) ether	< 2000 ug/L		08/21/13 06:55	jk	EPA 625 04KS
Bis(2-ethylhexyl) phthalate	< 2000 ug/L		08/21/13 06:55	jk	EPA 625 04KS
Butyl benzyl phthalate	< 2000 ug/L		08/21/13 06:55	jk	EPA 625 04KS
Chrysene	< 2000 ug/L		08/21/13 06:55	jk	EPA 625 04KS
Dibenzo(a,h)anthracene	< 2000 ug/L		08/21/13 06:55	jk	EPA 625 04KS
Diethyl phthalate	< 2000 ug/L		08/21/13 06:55	jk	EPA 625 04KS
Dimethyl phthalate	< 2000 ug/L		08/21/13 06:55	jk	EPA 625 04KS
Di-n-butyl phthalate	< 2000 ug/L		08/21/13 06:55	jk	EPA 625 04KS
Di-n-octyl phthalate	< 2000 ug/L		08/21/13 06:55	jk	EPA 625 04KS
Diphenylamine	< 2000 ug/L		08/21/13 06:55	jk	EPA 625 04KS
Fluoranthene	< 2000 ug/L		08/21/13 06:55	jk	EPA 625 04KS



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Bridgeton Landfill  
13570 St Charles Rock Road  
St. Louis, MO 63044  
Attn: Dan Feezor

Date Received: 08/15/13 16:38  
Report Date: 08/26/13  
Customer #: 277310

**\*Laboratory Results\***

Sample No: **3082394-03**  
Sample Description: **Location 1E**

Collect Date: **08/15/13 13:53**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b>Semivolatile Organics - STL</b>					
Fluorene	< 2000 ug/L		08/21/13 06:55	jk	EPA 625 04KS
Hexachlorobenzene	< 2000 ug/L		08/21/13 06:55	jk	EPA 625 04KS
Hexachlorobutadiene	< 2000 ug/L		08/21/13 06:55	jk	EPA 625 04KS
Hexachlorocyclopentadiene	< 2000 ug/L		08/21/13 06:55	jk	EPA 625 04KS
Hexachloroethane	< 2000 ug/L		08/21/13 06:55	jk	EPA 625 04KS
Indeno(1,2,3-cd)pyrene	< 2000 ug/L		08/21/13 06:55	jk	EPA 625 04KS
Isophorone	< 2000 ug/L		08/21/13 06:55	jk	EPA 625 04KS
Naphthalene	< 2000 ug/L		08/21/13 06:55	jk	EPA 625 04KS
Nitrobenzene	< 2000 ug/L		08/21/13 06:55	jk	EPA 625 04KS
N-Nitrosodimethylamine	< 2000 ug/L		08/21/13 06:55	jk	EPA 625 04KS
N-Nitrosodi-n-propylamine	< 2000 ug/L		08/21/13 06:55	jk	EPA 625 04KS
Pentachlorophenol	< 2000 ug/L		08/21/13 06:55	jk	EPA 625 04KS
Phenanthrene	< 2000 ug/L		08/21/13 06:55	jk	EPA 625 04KS
Phenol	4710 ug/L	Xb	08/21/13 06:55	jk	EPA 625 04KS
Pyrene	< 2000 ug/L		08/21/13 06:55	jk	EPA 625 04KS
Surrogate: 2-Fluorophenol	15 % 10-101	S	08/21/13 06:55	jk	EPA 625
Surrogate: Phenol- d5	23 % 10-154	S	08/21/13 06:55	jk	EPA 625
Surrogate: Nitrobenzene-d5	% 10-119	S	08/21/13 06:55	jk	EPA 625
Surrogate: 2-Fluorobiphenyl	34 % 10-98	S	08/21/13 06:55	jk	EPA 625
Surrogate: 2,4,6-Tribromophenol	% 10-69	S	08/21/13 06:55	jk	EPA 625
Surrogate: p-Terphenyl-d14	35 % 11-97	S	08/21/13 06:55	jk	EPA 625
<b>Soluble Metals - STL</b>					
Silicon as SiO2	88 mg/L		08/20/13 16:03	WPS	EPA 200.7 R4.4
Aluminum	0.31 mg/L		08/20/13 16:03	WPS	EPA 200.7 R4.4*
Mercury	< 0.0020 mg/L		08/20/13 12:03	WPS	EPA 245.1 R3.0 / 04KS SW 7470A
Antimony	< 0.10 mg/L		08/20/13 16:03	WPS	EPA 200.7 R4.4 04KS
Copper	< 0.020 mg/L		08/20/13 16:03	WPS	EPA 200.7 R4.4 04KS
Silver	< 0.020 mg/L		08/20/13 16:03	WPS	EPA 200.7 R4.4 04KS
Arsenic	0.56 mg/L		08/20/13 16:03	WPS	EPA 200.7 R4.4 04KS
Barium	2.4 mg/L		08/20/13 16:03	WPS	EPA 200.7 R4.4 04KS
Beryllium	< 0.010 mg/L		08/20/13 16:03	WPS	EPA 200.7 R4.4 04KS
Boron	19 mg/L		08/20/13 16:03	WPS	EPA 200.7 R4.4*





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St. Louis, MO 63044  
Attn: Dan Feezor

Date Received: 08/15/13 16:38  
Report Date: 08/26/13  
Customer #: 277310

**\*Laboratory Results\***

Sample No: **3082394-03**  
Sample Description: **Location 1E**

Collect Date: **08/15/13 13:53**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b><u>Soluble Metals - STL</u></b>					
Cadmium	< 0.020 mg/L		08/20/13 16:03	WPS	EPA 200.7 R4.4 04KS
Calcium	4100 mg/L		08/20/13 13:43	WPS	EPA 200.7 R4.4 04KS
Chromium	0.17 mg/L		08/20/13 16:03	WPS	EPA 200.7 R4.4 04KS
Cobalt	0.040 mg/L		08/20/13 16:03	WPS	EPA 200.7 R4.4 04KS
Iron	120 mg/L		08/20/13 15:01	WPS	EPA 200.7 R4.4 04KS
Lead	< 0.10 mg/L		08/20/13 16:03	WPS	EPA 200.7 R4.4 04KS
Magnesium	380 mg/L		08/20/13 15:01	WPS	EPA 200.7 R4.4 04KS
Manganese	34 mg/L		08/20/13 16:03	WPS	EPA 200.7 R4.4 04KS
Molybdenum	< 0.12 mg/L		08/20/13 16:03	WPS	EPA 200.7 R4.4 04KS
Nickel	0.11 mg/L		08/20/13 16:03	WPS	EPA 200.7 R4.4 04KS
Potassium	680 mg/L		08/20/13 15:01	WPS	EPA 200.7 R4.4*
Selenium	< 0.10 mg/L		08/20/13 16:03	WPS	EPA 200.7 R4.4 04KS
Sodium	4200 mg/L		08/20/13 13:43	WPS	EPA 200.7 R4.4*
Thallium	< 0.20 mg/L		08/20/13 16:03	WPS	EPA 200.7 R4.4 04KS
Vanadium	0.029 mg/L		08/20/13 16:03	WPS	EPA 200.7 R4.4 04KS
Zinc	2.2 mg/L		08/20/13 16:03	WPS	EPA 200.7 R4.4 04KS
Silicon	41 mg/L		08/20/13 16:03	WPS	EPA 200.7 R4.4*
<b><u>Total Metals - STL</u></b>					
Silicon as SiO2	280 mg/L		08/20/13 16:19	WPS	EPA 200.7 R4.4
Aluminum	48 mg/L		08/20/13 16:19	WPS	EPA 200.7 R4.4*
Mercury	0.042 mg/L		08/20/13 12:03	WPS	EPA 245.1 R3.0 / SW 7470A 04KS
Antimony	0.27 mg/L	Ba	08/20/13 16:19	WPS	EPA 200.7 R4.4 04KS
Silicon	130 mg/L		08/20/13 16:19	WPS	EPA 200.7 R4.4*
Arsenic	0.75 mg/L		08/20/13 16:19	WPS	EPA 200.7 R4.4 04KS
Barium	5.1 mg/L		08/20/13 16:19	WPS	EPA 200.7 R4.4 04KS
Beryllium	< 0.010 mg/L		08/20/13 16:19	WPS	EPA 200.7 R4.4 04KS
Hardness	15000 mg/L		08/20/13 15:05	WPS	SM 2340B
Boron	25 mg/L		08/20/13 16:19	WPS	EPA 200.7 R4.4*
Cadmium	0.19 mg/L		08/20/13 16:19	WPS	EPA 200.7 R4.4 04KS
Calcium	5000 mg/L		08/20/13 13:47	WPS	EPA 200.7 R4.4 04KS
Chromium	0.62 mg/L		08/20/13 16:19	WPS	EPA 200.7 R4.4 04KS
Cobalt	0.17 mg/L		08/20/13 16:19	WPS	EPA 200.7 R4.4 04KS
Copper	0.029 mg/L	B	08/20/13 16:19	WPS	EPA 200.7 R4.4 04KS



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St. Louis, MO 63044  
Attn: Dan Feezor

Date Received: 08/15/13 16:38  
Report Date: 08/26/13  
Customer #: 277310

**\*Laboratory Results\***

Sample No: **3082394-03**  
Sample Description: **Location 1E**

Collect Date: **08/15/13 13:53**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b><u>Total Metals - STL</u></b>					
Iron	3000 mg/L		08/20/13 15:05	WPS	EPA 200.7 R4.4 04KS
Lead	0.53 mg/L		08/20/13 16:19	WPS	EPA 200.7 R4.4 04KS
Magnesium	570 mg/L		08/20/13 15:05	WPS	EPA 200.7 R4.4 04KS
Manganese	160 mg/L		08/20/13 16:19	WPS	EPA 200.7 R4.4 04KS
Molybdenum	< 0.12 mg/L		08/20/13 16:19	WPS	EPA 200.7 R4.4 04KS
Nickel	0.19 mg/L		08/20/13 16:19	WPS	EPA 200.7 R4.4 04KS
Potassium	650 mg/L		08/20/13 15:05	WPS	EPA 200.7 R4.4*
Selenium	< 0.10 mg/L		08/20/13 16:19	WPS	EPA 200.7 R4.4 04KS
Silver	< 0.020 mg/L		08/20/13 16:19	WPS	EPA 200.7 R4.4 04KS
Sodium	4000 mg/L		08/20/13 13:47	WPS	EPA 200.7 R4.4*
Thallium	0.20 mg/L		08/20/13 16:19	WPS	EPA 200.7 R4.4 04KS
Vanadium	0.12 mg/L		08/20/13 16:19	WPS	EPA 200.7 R4.4 04KS
Zinc	40 mg/L		08/20/13 16:19	WPS	EPA 200.7 R4.4 04KS

Sample No: **3082394-04**  
Sample Description: **Location 2**

Collect Date: **08/15/13 14:20**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b><u>Anions - STL</u></b>					
Chloride	4700 mg/L		08/21/13 15:17	DWM	EPA 300.0 R2.1 04KS
Nitrate-N	< 50 mg/L		08/16/13 11:10	DWM	EPA 300.0 R2.1 04KS
Nitrite-N	< 50 mg/L		08/16/13 11:10	DWM	EPA 300.0 R2.1 04KS
Sulfate	< 2000 mg/L		08/21/13 15:17	DWM	EPA 300.0 R2.1 04KS
<b><u>General Chemistry - PIA</u></b>					
Total Organic Carbon (TOC)	17000 mg/L		08/22/13 18:59	lgsjw	5310C KS,IL,IA,WI,AR
<b><u>General Chemistry - STL</u></b>					
Alkalinity - total as CaCO3	8600 mg/L		08/16/13 12:00	ACV	SM 2320B 18Ed*
BOD	32000 mg/L		08/16/13 08:45	DAW	SM 5210B 18Ed 04KS
BOD - soluble	30000 mg/L		08/16/13 08:45	DAW	SM 5210B 18Ed*
COD	51000 mg/L		08/16/13 12:45	DAW	SM 5220D 18Ed 04KS



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Customer #: 277310

**\*Laboratory Results\***

Sample No: **3082394-04**  
Sample Description: **Location 2**

Collect Date: **08/15/13 14:20**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b><u>General Chemistry - STL</u></b>					
Cyanide	0.011 mg/L		08/20/13 11:00	DWM	SM 4500-CN C E 18Ed*
Cyanide - amenable	< 0.0050 mg/L		08/21/13 14:30	DWM	SM 4500CN CG 18Ed*
Cyanide - weak acid dissociable	0.016 mg/L	Xc	08/20/13 11:00	DWM	ASTM 1310-86*
Oil & Grease - total	< 5.0 mg/L		08/19/13 09:00	mep	EPA 1664A 04KS
Phenol	78 mg/L		08/19/13 13:00	DWM	EPA 420.1 04KS
Solids - total dissolved solids (TDS)	48000 mg/L		08/16/13 16:00	DAW	SM 2540C 18Ed*
Solids - total suspended solids (TSS)	260 mg/L		08/16/13 12:50	DAW	SM 2540D 18Ed 04KS
<b><u>Nutrients - PIA</u></b>					
Total Kjeldahl Nitrogen (TKN)	820 mg/L		08/22/13 15:17	Igth	SM 4500-N B & NH3-H 18Ed MOD IL,IA,WI,AR
<b><u>Nutrients - STL</u></b>					
Ammonia-N	800 mg/L		08/19/13 12:30	ACV	SM(18) 4500 NH3 F 04KS
Phosphorus - ortho as P	8.1 mg/L		08/16/13 15:00	ACV	SM 4500P B E 18ed* 04KS
Phosphorus - total as P	12 mg/L		08/16/13 15:00	ACV	SM 4500P B E 18ed 04KS
<b><u>Semivolatile Organics - STL</u></b>					
1,2,4-Trichlorobenzene	< 1000 ug/L		08/21/13 08:21	jk	EPA 625 04KS
1,2-Dichlorobenzene	< 1000 ug/L		08/21/13 08:21	jk	EPA 625*
1,3-Dichlorobenzene	< 1000 ug/L		08/21/13 08:21	jk	EPA 625*
1,4-Dichlorobenzene	< 1000 ug/L		08/21/13 08:21	jk	EPA 625*
2,4,5-Trichlorophenol	< 1000 ug/L		08/21/13 08:21	jk	EPA 625*
2,4,6-Trichlorophenol	< 1000 ug/L		08/21/13 08:21	jk	EPA 625 04KS
2,4-Dichlorophenol	< 1000 ug/L		08/21/13 08:21	jk	EPA 625 04KS
2,4-Dimethylphenol	< 1000 ug/L		08/21/13 08:21	jk	EPA 625 04KS
2,4-Dinitrophenol	< 1000 ug/L		08/21/13 08:21	jk	EPA 625 04KS
2,4-Dinitrotoluene	< 1000 ug/L		08/21/13 08:21	jk	EPA 625 04KS
2,6-Dimethylaniline	< 500 ug/L		08/21/13 08:21	jk	EPA 625*
2,6-Dinitrotoluene	< 1000 ug/L		08/21/13 08:21	jk	EPA 625 04KS
2-Chloronaphthalene	< 1000 ug/L		08/21/13 08:21	jk	EPA 625 04KS
2-Chlorophenol	< 1000 ug/L		08/21/13 08:21	jk	EPA 625 04KS
2-Nitrophenol	< 1000 ug/L		08/21/13 08:21	jk	EPA 625 04KS



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**\*Laboratory Results\***

Sample No: **3082394-04**  
Sample Description: **Location 2**

Collect Date: **08/15/13 14:20**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b>Semivolatile Organics - STL</b>					
3,3'-Dichlorobenzidine	< 1000 ug/L		08/21/13 08:21	jk	EPA 625 04KS
4,6-Dinitro-2-methylphenol	< 1000 ug/L		08/21/13 08:21	jk	EPA 625*
4-Bromophenyl phenyl ether	< 1000 ug/L		08/21/13 08:21	jk	EPA 625 04KS
4-Chloro-3-methylphenol	< 1000 ug/L		08/21/13 08:21	jk	EPA 625 04KS
4-Chlorophenylphenyl ether	< 1000 ug/L		08/21/13 08:21	jk	EPA 625 04KS
4-Nitrophenol	< 1000 ug/L		08/21/13 08:21	jk	EPA 625 04KS
Acenaphthene	< 1000 ug/L		08/21/13 08:21	jk	EPA 625 04KS
Acenaphthylene	< 1000 ug/L		08/21/13 08:21	jk	EPA 625 04KS
Anthracene	< 1000 ug/L		08/21/13 08:21	jk	EPA 625 04KS
Azobenzene	< 1000 ug/L		08/21/13 08:21	jk	EPA 625*
Benzidine	< 1000 ug/L		08/21/13 08:21	jk	EPA 625*
Benzo(a)anthracene	< 1000 ug/L		08/21/13 08:21	jk	EPA 625 04KS
Benzo(a)pyrene	< 1000 ug/L		08/21/13 08:21	jk	EPA 625 04KS
Benzo(b&k)fluoranthene	< 1000 ug/L		08/21/13 08:21	jk	EPA 625 04KS
Benzo(b)fluoranthene	< 1000 ug/L		08/21/13 08:21	jk	EPA 625 04KS
Benzo(g,h,i)perylene	< 1000 ug/L		08/21/13 08:21	jk	EPA 625 04KS
Benzo(k)fluoranthene	< 1000 ug/L		08/21/13 08:21	jk	EPA 625 04KS
Bis(2-chloroethoxy) methane	< 1000 ug/L		08/21/13 08:21	jk	EPA 625 04KS
Bis(2-chloroethyl) ether	< 1000 ug/L		08/21/13 08:21	jk	EPA 625 04KS
Bis(2-chloroisopropyl) ether	< 1000 ug/L		08/21/13 08:21	jk	EPA 625 04KS
Bis(2-ethylhexyl) phthalate	< 1000 ug/L		08/21/13 08:21	jk	EPA 625 04KS
Butyl benzyl phthalate	< 1000 ug/L		08/21/13 08:21	jk	EPA 625 04KS
Chrysene	< 1000 ug/L		08/21/13 08:21	jk	EPA 625 04KS
Dibenzo(a,h)anthracene	< 1000 ug/L		08/21/13 08:21	jk	EPA 625 04KS
Diethyl phthalate	< 1000 ug/L		08/21/13 08:21	jk	EPA 625 04KS
Dimethyl phthalate	< 1000 ug/L		08/21/13 08:21	jk	EPA 625 04KS
Di-n-butyl phthalate	< 1000 ug/L		08/21/13 08:21	jk	EPA 625 04KS
Di-n-octyl phthalate	< 1000 ug/L		08/21/13 08:21	jk	EPA 625 04KS
Diphenylamine	< 1000 ug/L		08/21/13 08:21	jk	EPA 625 04KS
Fluoranthene	< 1000 ug/L		08/21/13 08:21	jk	EPA 625 04KS
Fluorene	< 1000 ug/L		08/21/13 08:21	jk	EPA 625 04KS
Hexachlorobenzene	< 1000 ug/L		08/21/13 08:21	jk	EPA 625 04KS
Hexachlorobutadiene	< 1000 ug/L		08/21/13 08:21	jk	EPA 625 04KS



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Date Received: 08/15/13 16:38  
Report Date: 08/26/13  
Customer #: 277310

**\*Laboratory Results\***

Sample No: **3082394-04**  
Sample Description: **Location 2**

Collect Date: **08/15/13 14:20**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b>Semivolatile Organics - STL</b>					
Hexachlorocyclopentadiene	< 1000 ug/L		08/21/13 08:21	jk	EPA 625 04KS
Hexachloroethane	< 1000 ug/L		08/21/13 08:21	jk	EPA 625 04KS
Indeno(1,2,3-cd)pyrene	< 1000 ug/L		08/21/13 08:21	jk	EPA 625 04KS
Isophorone	< 1000 ug/L		08/21/13 08:21	jk	EPA 625 04KS
Naphthalene	< 1000 ug/L		08/21/13 08:21	jk	EPA 625 04KS
Nitrobenzene	< 1000 ug/L		08/21/13 08:21	jk	EPA 625 04KS
N-Nitrosodimethylamine	< 1000 ug/L		08/21/13 08:21	jk	EPA 625 04KS
N-Nitrosodi-n-propylamine	< 1000 ug/L		08/21/13 08:21	jk	EPA 625 04KS
Pentachlorophenol	< 1000 ug/L		08/21/13 08:21	jk	EPA 625 04KS
Phenanthrene	< 1000 ug/L		08/21/13 08:21	jk	EPA 625 04KS
Phenol	2490 ug/L	Xb	08/21/13 08:21	jk	EPA 625 04KS
Pyrene	< 1000 ug/L		08/21/13 08:21	jk	EPA 625 04KS
Surrogate: 2-Fluorophenol	4 % 10-101	S	08/21/13 08:21	jk	EPA 625
Surrogate: Phenol- d5	11 % 10-154	S	08/21/13 08:21	jk	EPA 625
Surrogate: Nitrobenzene-d5	% 10-119	S	08/21/13 08:21	jk	EPA 625
Surrogate: 2-Fluorobiphenyl	34 % 10-98	S	08/21/13 08:21	jk	EPA 625
Surrogate: 2,4,6-Tribromophenol	5 % 10-69	S	08/21/13 08:21	jk	EPA 625
Surrogate: p-Terphenyl-d14	42 % 11-97	S	08/21/13 08:21	jk	EPA 625
<b>Soluble Metals - STL</b>					
Silicon as SiO2	89 mg/L		08/20/13 16:23	WPS	EPA 200.7 R4.4
Aluminum	0.24 mg/L		08/20/13 16:23	WPS	EPA 200.7 R4.4*
Mercury	< 0.0020 mg/L		08/20/13 12:03	WPS	EPA 245.1 R3.0 / SW 7470A 04KS
Antimony	0.23 mg/L		08/20/13 16:23	WPS	EPA 200.7 R4.4 04KS
Copper	< 0.020 mg/L		08/20/13 16:23	WPS	EPA 200.7 R4.4 04KS
Silver	< 0.020 mg/L		08/20/13 16:23	WPS	EPA 200.7 R4.4 04KS
Arsenic	0.42 mg/L		08/20/13 16:23	WPS	EPA 200.7 R4.4 04KS
Barium	2.6 mg/L		08/20/13 16:23	WPS	EPA 200.7 R4.4 04KS
Beryllium	< 0.010 mg/L		08/20/13 16:23	WPS	EPA 200.7 R4.4 04KS
Boron	20 mg/L		08/20/13 16:23	WPS	EPA 200.7 R4.4*
Cadmium	< 0.020 mg/L		08/20/13 16:23	WPS	EPA 200.7 R4.4 04KS
Calcium	3900 mg/L		08/20/13 13:51	WPS	EPA 200.7 R4.4 04KS
Chromium	0.17 mg/L		08/20/13 16:23	WPS	EPA 200.7 R4.4 04KS



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(314) 432-0550 • (800) 333-FAST • FAX (314) 432-4977



Bridgeton Landfill  
13570 St Charles Rock Road  
St. Louis, MO 63044  
Attn: Dan Feezor

Date Received: 08/15/13 16:38  
Report Date: 08/26/13  
Customer #: 277310

**\*Laboratory Results\***

Sample No: **3082394-04**  
Sample Description: **Location 2**

Collect Date: **08/15/13 14:20**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b><u>Soluble Metals - STL</u></b>					
Cobalt	0.036 mg/L		08/20/13 16:23	WPS	EPA 200.7 R4.4 04KS
Iron	160 mg/L		08/20/13 15:10	WPS	EPA 200.7 R4.4 04KS
Lead	< 0.10 mg/L		08/20/13 16:23	WPS	EPA 200.7 R4.4 04KS
Magnesium	380 mg/L		08/20/13 15:10	WPS	EPA 200.7 R4.4 04KS
Manganese	30 mg/L		08/20/13 16:23	WPS	EPA 200.7 R4.4 04KS
Molybdenum	< 0.12 mg/L		08/20/13 16:23	WPS	EPA 200.7 R4.4 04KS
Nickel	0.11 mg/L		08/20/13 16:23	WPS	EPA 200.7 R4.4 04KS
Potassium	700 mg/L		08/20/13 15:10	WPS	EPA 200.7 R4.4*
Selenium	< 0.10 mg/L		08/20/13 16:23	WPS	EPA 200.7 R4.4 04KS
Sodium	4000 mg/L		08/20/13 13:51	WPS	EPA 200.7 R4.4*
Thallium	< 0.20 mg/L		08/20/13 16:23	WPS	EPA 200.7 R4.4 04KS
Vanadium	0.045 mg/L		08/20/13 16:23	WPS	EPA 200.7 R4.4 04KS
Zinc	2.0 mg/L		08/20/13 16:23	WPS	EPA 200.7 R4.4 04KS
Silicon	41 mg/L		08/20/13 16:23	WPS	EPA 200.7 R4.4*
<b><u>Total Metals - STL</u></b>					
Silicon as SiO2	91 mg/L		08/20/13 16:27	WPS	EPA 200.7 R4.4
Aluminum	0.38 mg/L		08/20/13 16:27	WPS	EPA 200.7 R4.4*
Mercury	< 0.0020 mg/L		08/20/13 12:03	WPS	EPA 245.1 R3.0 / SW 7470A 04KS
Antimony	0.18 mg/L	Ba	08/20/13 16:27	WPS	EPA 200.7 R4.4 04KS
Silicon	42 mg/L		08/20/13 16:27	WPS	EPA 200.7 R4.4*
Arsenic	0.40 mg/L		08/20/13 16:27	WPS	EPA 200.7 R4.4 04KS
Barium	2.8 mg/L		08/20/13 16:27	WPS	EPA 200.7 R4.4 04KS
Beryllium	< 0.010 mg/L		08/20/13 16:27	WPS	EPA 200.7 R4.4 04KS
Hardness	12000 mg/L		08/20/13 15:26	WPS	SM 2340B
Boron	20 mg/L		08/20/13 16:27	WPS	EPA 200.7 R4.4*
Cadmium	< 0.020 mg/L		08/20/13 16:27	WPS	EPA 200.7 R4.4 04KS
Calcium	4100 mg/L		08/20/13 14:00	WPS	EPA 200.7 R4.4 04KS
Chromium	0.17 mg/L		08/20/13 16:27	WPS	EPA 200.7 R4.4 04KS
Cobalt	0.033 mg/L		08/20/13 16:27	WPS	EPA 200.7 R4.4 04KS
Copper	< 0.020 mg/L	B	08/20/13 16:27	WPS	EPA 200.7 R4.4 04KS
Iron	170 mg/L		08/20/13 15:26	WPS	EPA 200.7 R4.4 04KS
Lead	< 0.10 mg/L		08/20/13 16:27	WPS	EPA 200.7 R4.4 04KS
Magnesium	390 mg/L		08/20/13 15:26	WPS	EPA 200.7 R4.4 04KS



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Attn: Dan Feezor

Date Received: 08/15/13 16:38  
Report Date: 08/26/13  
Customer #: 277310

**\*Laboratory Results\***

Sample No: **3082394-04**  
Sample Description: **Location 2**

Collect Date: **08/15/13 14:20**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b><u>Total Metals - STL</u></b>					
Manganese	32 mg/L		08/20/13 16:27	WPS	EPA 200.7 R4.4 04KS
Molybdenum	< 0.12 mg/L		08/20/13 16:27	WPS	EPA 200.7 R4.4 04KS
Nickel	0.20 mg/L		08/20/13 16:27	WPS	EPA 200.7 R4.4 04KS
Potassium	730 mg/L		08/20/13 15:26	WPS	EPA 200.7 R4.4*
Selenium	0.26 mg/L		08/20/13 16:27	WPS	EPA 200.7 R4.4 04KS
Silver	< 0.020 mg/L		08/20/13 16:27	WPS	EPA 200.7 R4.4 04KS
Sodium	4200 mg/L		08/20/13 14:00	WPS	EPA 200.7 R4.4*
Thallium	< 0.20 mg/L		08/20/13 16:27	WPS	EPA 200.7 R4.4 04KS
Vanadium	0.042 mg/L		08/20/13 16:27	WPS	EPA 200.7 R4.4 04KS
Zinc	2.2 mg/L		08/20/13 16:27	WPS	EPA 200.7 R4.4 04KS

Sample No: **3082394-05**  
Sample Description: **Location 3**

Collect Date: **08/15/13 14:51**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b><u>General Chemistry - STL</u></b>					
Solids - total suspended solids (TSS)	23000 mg/L		08/16/13 12:50	DAW	SM 2540D 18Ed 04KS
Solids - total volatile suspended solids	7800 mg/L		08/16/13 12:50	DAW	SM 2540E 18Ed*

Sample No: **3082394-06**  
Sample Description: **Location 4**

Collect Date: **08/15/13 14:56**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b><u>Anions - STL</u></b>					
Chloride	4400 mg/L		08/21/13 16:09	DWM	EPA 300.0 R2.1 04KS
Nitrate-N	< 50 mg/L		08/16/13 11:28	DWM	EPA 300.0 R2.1 04KS
Nitrite-N	< 50 mg/L		08/16/13 11:28	DWM	EPA 300.0 R2.1 04KS
Sulfate	< 500 mg/L		08/21/13 16:09	DWM	EPA 300.0 R2.1 04KS
<b><u>General Chemistry - PIA</u></b>					
Total Organic Carbon (TOC)	1400 mg/L		08/22/13 19:20	lgsjw	5310C KS,IL,IA,WI,AR



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Customer #: 277310

**\*Laboratory Results\***

Sample No: **3082394-06**  
Sample Description: **Location 4**

Collect Date: **08/15/13 14:56**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b>General Chemistry - STL</b>					
Alkalinity - total as CaCO3	900 mg/L		08/16/13 12:00	ACV	SM 2320B 18Ed*
BOD	92 mg/L		08/16/13 08:45	DAW	SM 5210B 18Ed 04KS
BOD - soluble	77 mg/L		08/16/13 08:45	DAW	SM 5210B 18Ed*
COD	4100 mg/L		08/16/13 12:45	DAW	SM 5220D 18Ed 04KS
Cyanide	0.010 mg/L		08/20/13 11:00	DWM	SM 4500-CN C E 18Ed*
Cyanide - amenable	< 0.0050 mg/L		08/21/13 14:30	DWM	SM 4500CN CG 18Ed*
Cyanide - weak acid dissociable	0.012 mg/L	Xc	08/20/13 11:00	DWM	ASTM 1310-86*
Oil & Grease - total	< 5.0 mg/L		08/19/13 09:00	mep	EPA 1664A 04KS
Phenol	< 2.5 mg/L		08/19/13 13:00	DWM	EPA 420.1 04KS
Solids - total dissolved solids (TDS)	13000 mg/L		08/16/13 16:00	DAW	SM 2540C 18Ed*
Solids - total suspended solids (TSS)	13 mg/L		08/16/13 12:50	DAW	SM 2540D 18Ed 04KS
<b>Nutrients - PIA</b>					
Total Kjeldahl Nitrogen (TKN)	220 mg/L		08/22/13 15:18	lgthh	SM 4500-N B & NH3-H 18Ed MOD IL,IA,WI,AR
<b>Nutrients - STL</b>					
Ammonia-N	110 mg/L		08/19/13 12:30	ACV	SM(18) 4500 NH3 F 04KS
Phosphorus - ortho as P	520 mg/L		08/16/13 15:00	ACV	SM 4500P B E 18ed* 04KS
Phosphorus - total as P	470 mg/L		08/16/13 15:00	ACV	SM 4500P B E 18ed 04KS
<b>Semivolatile Organics - STL</b>					
1,2,4-Trichlorobenzene	< 100 ug/L		08/21/13 04:45	jk	EPA 625 04KS
1,2-Dichlorobenzene	< 100 ug/L		08/21/13 04:45	jk	EPA 625*
1,3-Dichlorobenzene	< 100 ug/L		08/21/13 04:45	jk	EPA 625*
1,4-Dichlorobenzene	< 100 ug/L		08/21/13 04:45	jk	EPA 625*
2,4,5-Trichlorophenol	< 100 ug/L		08/21/13 04:45	jk	EPA 625*
2,4,6-Trichlorophenol	< 100 ug/L		08/21/13 04:45	jk	EPA 625 04KS
2,4-Dichlorophenol	< 100 ug/L		08/21/13 04:45	jk	EPA 625 04KS
2,4-Dimethylphenol	< 100 ug/L		08/21/13 04:45	jk	EPA 625 04KS
2,4-Dinitrophenol	< 100 ug/L		08/21/13 04:45	jk	EPA 625 04KS
2,4-Dinitrotoluene	< 100 ug/L		08/21/13 04:45	jk	EPA 625 04KS
2,6-Dimethylaniline	< 50.0 ug/L		08/21/13 04:45	jk	EPA 625*





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**\*Laboratory Results\***

Sample No: **3082394-06**  
Sample Description: **Location 4**

Collect Date: **08/15/13 14:56**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b>Semivolatile Organics - STL</b>					
2,6-Dinitrotoluene	< 100 ug/L		08/21/13 04:45	jk	EPA 625 04KS
2-Chloronaphthalene	< 100 ug/L		08/21/13 04:45	jk	EPA 625 04KS
2-Chlorophenol	< 100 ug/L		08/21/13 04:45	jk	EPA 625 04KS
2-Nitrophenol	< 100 ug/L		08/21/13 04:45	jk	EPA 625 04KS
3,3'-Dichlorobenzidine	< 100 ug/L		08/21/13 04:45	jk	EPA 625 04KS
4,6-Dinitro-2-methylphenol	< 100 ug/L		08/21/13 04:45	jk	EPA 625*
4-Bromophenyl phenyl ether	< 100 ug/L		08/21/13 04:45	jk	EPA 625 04KS
4-Chloro-3-methylphenol	< 100 ug/L		08/21/13 04:45	jk	EPA 625 04KS
4-Chlorophenylphenyl ether	< 100 ug/L		08/21/13 04:45	jk	EPA 625 04KS
4-Nitrophenol	< 100 ug/L		08/21/13 04:45	jk	EPA 625 04KS
Acenaphthene	< 100 ug/L		08/21/13 04:45	jk	EPA 625 04KS
Acenaphthylene	< 100 ug/L		08/21/13 04:45	jk	EPA 625 04KS
Anthracene	< 100 ug/L		08/21/13 04:45	jk	EPA 625 04KS
Azobenzene	< 100 ug/L		08/21/13 04:45	jk	EPA 625*
Benzidine	< 100 ug/L		08/21/13 04:45	jk	EPA 625*
Benzo(a)anthracene	< 100 ug/L		08/21/13 04:45	jk	EPA 625 04KS
Benzo(a)pyrene	< 100 ug/L		08/21/13 04:45	jk	EPA 625 04KS
Benzo(b&k)fluoranthene	< 100 ug/L		08/21/13 04:45	jk	EPA 625 04KS
Benzo(b)fluoranthene	< 100 ug/L		08/21/13 04:45	jk	EPA 625 04KS
Benzo(g,h,i)perylene	< 100 ug/L		08/21/13 04:45	jk	EPA 625 04KS
Benzo(k)fluoranthene	< 100 ug/L		08/21/13 04:45	jk	EPA 625 04KS
Bis(2-chloroethoxy) methane	< 100 ug/L		08/21/13 04:45	jk	EPA 625 04KS
Bis(2-chloroethyl) ether	< 100 ug/L		08/21/13 04:45	jk	EPA 625 04KS
Bis(2-chloroisopropyl) ether	< 100 ug/L		08/21/13 04:45	jk	EPA 625 04KS
Bis(2-ethylhexyl) phthalate	< 100 ug/L		08/21/13 04:45	jk	EPA 625 04KS
Butyl benzyl phthalate	< 100 ug/L		08/21/13 04:45	jk	EPA 625 04KS
Chrysene	< 100 ug/L		08/21/13 04:45	jk	EPA 625 04KS
Dibenzo(a,h)anthracene	< 100 ug/L		08/21/13 04:45	jk	EPA 625 04KS
Diethyl phthalate	< 100 ug/L		08/21/13 04:45	jk	EPA 625 04KS
Dimethyl phthalate	< 100 ug/L		08/21/13 04:45	jk	EPA 625 04KS
Di-n-butyl phthalate	< 100 ug/L		08/21/13 04:45	jk	EPA 625 04KS
Di-n-octyl phthalate	< 100 ug/L		08/21/13 04:45	jk	EPA 625 04KS
Diphenylamine	< 100 ug/L		08/21/13 04:45	jk	EPA 625 04KS



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Customer #: 277310

**\*Laboratory Results\***

Sample No: **3082394-06**  
Sample Description: **Location 4**

Collect Date: **08/15/13 14:56**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b>Semivolatile Organics - STL</b>					
Fluoranthene	< 100 ug/L		08/21/13 04:45	jk	EPA 625 04KS
Fluorene	< 100 ug/L		08/21/13 04:45	jk	EPA 625 04KS
Hexachlorobenzene	< 100 ug/L		08/21/13 04:45	jk	EPA 625 04KS
Hexachlorobutadiene	< 100 ug/L		08/21/13 04:45	jk	EPA 625 04KS
Hexachlorocyclopentadiene	< 100 ug/L		08/21/13 04:45	jk	EPA 625 04KS
Hexachloroethane	< 100 ug/L		08/21/13 04:45	jk	EPA 625 04KS
Indeno(1,2,3-cd)pyrene	< 100 ug/L		08/21/13 04:45	jk	EPA 625 04KS
Isophorone	< 100 ug/L		08/21/13 04:45	jk	EPA 625 04KS
Naphthalene	< 100 ug/L		08/21/13 04:45	jk	EPA 625 04KS
Nitrobenzene	< 100 ug/L		08/21/13 04:45	jk	EPA 625 04KS
N-Nitrosodimethylamine	< 100 ug/L		08/21/13 04:45	jk	EPA 625 04KS
N-Nitrosodi-n-propylamine	< 100 ug/L		08/21/13 04:45	jk	EPA 625 04KS
Pentachlorophenol	< 100 ug/L		08/21/13 04:45	jk	EPA 625 04KS
Phenanthrene	< 100 ug/L		08/21/13 04:45	jk	EPA 625 04KS
Phenol	< 100 ug/L		08/21/13 04:45	jk	EPA 625 04KS
Pyrene	< 100 ug/L		08/21/13 04:45	jk	EPA 625 04KS
Surrogate: 2-Fluorophenol	21 % 10-101	S	08/21/13 04:45	jk	EPA 625
Surrogate: Phenol- d5	14 % 10-154	S	08/21/13 04:45	jk	EPA 625
Surrogate: Nitrobenzene-d5	67 % 10-119	S	08/21/13 04:45	jk	EPA 625
Surrogate: 2-Fluorobiphenyl	61 % 10-98	S	08/21/13 04:45	jk	EPA 625
Surrogate: 2,4,6-Tribromophenol	22 % 10-69	S	08/21/13 04:45	jk	EPA 625
Surrogate: p-Terphenyl-d14	77 % 11-97	S	08/21/13 04:45	jk	EPA 625
<b>Soluble Metals - STL</b>					
Silicon as SiO2	76 mg/L		08/20/13 16:31	WPS	EPA 200.7 R4.4
Aluminum	< 0.15 mg/L		08/20/13 16:31	WPS	EPA 200.7 R4.4*
Mercury	< 0.0020 mg/L		08/20/13 12:03	WPS	EPA 245.1 R3.0 / 04KS SW 7470A
Antimony	< 0.10 mg/L		08/20/13 16:31	WPS	EPA 200.7 R4.4 04KS
Copper	0.025 mg/L		08/20/13 16:31	WPS	EPA 200.7 R4.4 04KS
Silver	< 0.020 mg/L		08/20/13 16:31	WPS	EPA 200.7 R4.4 04KS
Arsenic	0.18 mg/L		08/20/13 16:31	WPS	EPA 200.7 R4.4 04KS
Barium	< 0.10 mg/L		08/20/13 16:31	WPS	EPA 200.7 R4.4 04KS
Beryllium	< 0.010 mg/L		08/20/13 16:31	WPS	EPA 200.7 R4.4 04KS



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Sample No: **3082394-06**  
Sample Description: **Location 4**

Collect Date: **08/15/13 14:56**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b><u>Soluble Metals - STL</u></b>					
Boron	13 mg/L		08/20/13 16:31	WPS	EPA 200.7 R4.4*
Cadmium	< 0.020 mg/L		08/20/13 16:31	WPS	EPA 200.7 R4.4 04KS
Calcium	32 mg/L		08/20/13 16:31	WPS	EPA 200.7 R4.4 04KS
Chromium	0.083 mg/L		08/20/13 16:31	WPS	EPA 200.7 R4.4 04KS
Cobalt	0.024 mg/L		08/20/13 16:31	WPS	EPA 200.7 R4.4 04KS
Iron	1.5 mg/L		08/20/13 16:31	WPS	EPA 200.7 R4.4 04KS
Lead	< 0.10 mg/L		08/20/13 16:31	WPS	EPA 200.7 R4.4 04KS
Magnesium	50 mg/L		08/20/13 16:31	WPS	EPA 200.7 R4.4 04KS
Manganese	0.56 mg/L		08/20/13 16:31	WPS	EPA 200.7 R4.4 04KS
Molybdenum	< 0.12 mg/L		08/20/13 16:31	WPS	EPA 200.7 R4.4 04KS
Nickel	0.098 mg/L		08/20/13 16:31	WPS	EPA 200.7 R4.4 04KS
Potassium	300 mg/L		08/20/13 16:31	WPS	EPA 200.7 R4.4*
Selenium	< 0.10 mg/L		08/20/13 16:31	WPS	EPA 200.7 R4.4 04KS
Sodium	3200 mg/L		08/20/13 14:04	WPS	EPA 200.7 R4.4*
Thallium	< 0.20 mg/L		08/20/13 16:31	WPS	EPA 200.7 R4.4 04KS
Vanadium	< 0.020 mg/L		08/20/13 16:31	WPS	EPA 200.7 R4.4 04KS
Zinc	0.23 mg/L		08/20/13 16:31	WPS	EPA 200.7 R4.4 04KS
Silicon	36 mg/L		08/20/13 16:31	WPS	EPA 200.7 R4.4*
<b><u>Total Metals - STL</u></b>					
Silicon as SiO2	79 mg/L		08/20/13 16:35	WPS	EPA 200.7 R4.4
Aluminum	< 0.15 mg/L		08/20/13 16:35	WPS	EPA 200.7 R4.4*
Mercury	< 0.0020 mg/L		08/20/13 12:03	WPS	EPA 245.1 R3.0 / SW 7470A 04KS
Antimony	0.17 mg/L	Ba	08/20/13 16:35	WPS	EPA 200.7 R4.4 04KS
Silicon	37 mg/L		08/20/13 16:35	WPS	EPA 200.7 R4.4*
Arsenic	0.22 mg/L		08/20/13 16:35	WPS	EPA 200.7 R4.4 04KS
Barium	< 0.10 mg/L		08/20/13 16:35	WPS	EPA 200.7 R4.4 04KS
Beryllium	< 0.010 mg/L		08/20/13 16:35	WPS	EPA 200.7 R4.4 04KS
Hardness	290 mg/L		08/20/13 16:35	WPS	SM 2340B
Boron	13 mg/L		08/20/13 16:35	WPS	EPA 200.7 R4.4*
Cadmium	< 0.020 mg/L		08/20/13 16:35	WPS	EPA 200.7 R4.4 04KS
Calcium	32 mg/L		08/20/13 16:35	WPS	EPA 200.7 R4.4 04KS
Chromium	0.076 mg/L		08/20/13 16:35	WPS	EPA 200.7 R4.4 04KS
Cobalt	0.028 mg/L		08/20/13 16:35	WPS	EPA 200.7 R4.4 04KS



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Customer #: 277310

**\*Laboratory Results\***

Sample No: **3082394-06**  
Sample Description: **Location 4**

Collect Date: **08/15/13 14:56**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b><u>Total Metals - STL</u></b>					
Copper	0.025 mg/L	B	08/20/13 16:35	WPS	EPA 200.7 R4.4 04KS
Iron	0.99 mg/L		08/20/13 16:35	WPS	EPA 200.7 R4.4 04KS
Lead	< 0.10 mg/L		08/20/13 16:35	WPS	EPA 200.7 R4.4 04KS
Magnesium	51 mg/L		08/20/13 16:35	WPS	EPA 200.7 R4.4 04KS
Manganese	0.79 mg/L		08/20/13 16:35	WPS	EPA 200.7 R4.4 04KS
Molybdenum	< 0.12 mg/L		08/20/13 16:35	WPS	EPA 200.7 R4.4 04KS
Nickel	0.098 mg/L		08/20/13 16:35	WPS	EPA 200.7 R4.4 04KS
Potassium	310 mg/L		08/20/13 16:35	WPS	EPA 200.7 R4.4*
Selenium	< 0.10 mg/L		08/20/13 16:35	WPS	EPA 200.7 R4.4 04KS
Silver	< 0.020 mg/L		08/20/13 16:35	WPS	EPA 200.7 R4.4 04KS
Sodium	3300 mg/L		08/20/13 14:32	WPS	EPA 200.7 R4.4*
Thallium	< 0.20 mg/L		08/20/13 16:35	WPS	EPA 200.7 R4.4 04KS
Vanadium	< 0.020 mg/L		08/20/13 16:35	WPS	EPA 200.7 R4.4 04KS
Zinc	0.24 mg/L		08/20/13 16:35	WPS	EPA 200.7 R4.4 04KS

Sample No: **3082394-07**  
Sample Description: **Field Blank**

Collect Date: **08/15/13 15:15**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b><u>Anions - STL</u></b>					
Chloride	< 0.50 mg/L		08/21/13 16:27	DWM	EPA 300.0 R2.1 04KS
Nitrate-N	< 0.50 mg/L		08/16/13 11:45	DWM	EPA 300.0 R2.1 04KS
Nitrite-N	< 0.50 mg/L		08/16/13 11:45	DWM	EPA 300.0 R2.1 04KS
Sulfate	< 0.50 mg/L		08/21/13 16:27	DWM	EPA 300.0 R2.1 04KS
<b><u>General Chemistry - PIA</u></b>					
Total Organic Carbon (TOC)	< 0.50 mg/L		08/22/13 19:27	lgsjw	5310C KS,IL,IA,WI,AR
<b><u>General Chemistry - STL</u></b>					
Alkalinity - total as CaCO3	2.0 mg/L		08/16/13 12:00	ACV	SM 2320B 18Ed*
BOD	< 6.0 mg/L		08/16/13 08:45	DAW	SM 5210B 18Ed 04KS
BOD - soluble	< 6.0 mg/L		08/16/13 08:45	DAW	SM 5210B 18Ed*
COD	< 5.0 mg/L		08/16/13 12:45	DAW	SM 5220D 18Ed 04KS



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Bridgeton Landfill  
13570 St Charles Rock Road  
St. Louis, MO 63044  
Attn: Dan Feezor

Date Received: 08/15/13 16:38  
Report Date: 08/26/13  
Customer #: 277310

**\*Laboratory Results\***

Sample No: **3082394-07**  
Sample Description: **Field Blank**

Collect Date: **08/15/13 15:15**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b><u>General Chemistry - STL</u></b>					
Cyanide	< 0.010 mg/L		08/20/13 11:00	DWM	SM 4500-CN C E 18Ed*
Cyanide - amenable	< 0.0050 mg/L		08/21/13 14:30	DWM	SM 4500CN CG 18Ed*
Cyanide - weak acid dissociable	< 0.010 mg/L	Xc	08/20/13 11:00	DWM	ASTM 1310-86*
Oil & Grease - total	< 5.2 mg/L		08/19/13 09:00	mep	EPA 1664A 04KS
Phenol	< 0.050 mg/L		08/19/13 13:00	DWM	EPA 420.1 04KS
Solids - total dissolved solids (TDS)	< 17 mg/L		08/16/13 16:00	DAW	SM 2540C 18Ed*
Solids - total suspended solids (TSS)	< 2.0 mg/L		08/16/13 12:50	DAW	SM 2540D 18Ed 04KS
<b><u>Nutrients - PIA</u></b>					
Total Kjeldahl Nitrogen (TKN)	< 1.0 mg/L		08/22/13 15:20	Igth	SM 4500-N B & NH3-H 18Ed MOD IL,IA,WI,AR
<b><u>Nutrients - STL</u></b>					
Ammonia-N	< 0.010 mg/L		08/19/13 12:30	ACV	SM(18) 4500 NH3 F 04KS
Phosphorus - ortho as P	< 0.050 mg/L		08/16/13 15:00	ACV	SM 4500P B E 18ed* 04KS
Phosphorus - total as P	< 0.050 mg/L		08/16/13 15:00	ACV	SM 4500P B E 18ed 04KS
<b><u>Semivolatile Organics - STL</u></b>					
1,2,4-Trichlorobenzene	< 10.0 ug/L		08/21/13 05:28	jk	EPA 625 04KS
1,2-Dichlorobenzene	< 10.0 ug/L		08/21/13 05:28	jk	EPA 625*
1,3-Dichlorobenzene	< 10.0 ug/L		08/21/13 05:28	jk	EPA 625*
1,4-Dichlorobenzene	< 10.0 ug/L		08/21/13 05:28	jk	EPA 625*
2,4,5-Trichlorophenol	< 10.0 ug/L		08/21/13 05:28	jk	EPA 625*
2,4,6-Trichlorophenol	< 10.0 ug/L		08/21/13 05:28	jk	EPA 625 04KS
2,4-Dichlorophenol	< 10.0 ug/L		08/21/13 05:28	jk	EPA 625 04KS
2,4-Dimethylphenol	< 10.0 ug/L		08/21/13 05:28	jk	EPA 625 04KS
2,4-Dinitrophenol	< 10.0 ug/L		08/21/13 05:28	jk	EPA 625 04KS
2,4-Dinitrotoluene	< 10.0 ug/L		08/21/13 05:28	jk	EPA 625 04KS
2,6-Dimethylaniline	< 5.00 ug/L		08/21/13 05:28	jk	EPA 625*
2,6-Dinitrotoluene	< 10.0 ug/L		08/21/13 05:28	jk	EPA 625 04KS
2-Chloronaphthalene	< 10.0 ug/L		08/21/13 05:28	jk	EPA 625 04KS
2-Chlorophenol	< 10.0 ug/L		08/21/13 05:28	jk	EPA 625 04KS
2-Nitrophenol	< 10.0 ug/L		08/21/13 05:28	jk	EPA 625 04KS



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13570 St Charles Rock Road  
St. Louis, MO 63044  
Attn: Dan Feezor

Date Received: 08/15/13 16:38  
Report Date: 08/26/13  
Customer #: 277310

**\*Laboratory Results\***

Sample No: **3082394-07**  
Sample Description: **Field Blank**

Collect Date: **08/15/13 15:15**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b>Semivolatile Organics - STL</b>					
3,3'-Dichlorobenzidine	< 10.0 ug/L		08/21/13 05:28	jk	EPA 625 04KS
4,6-Dinitro-2-methylphenol	< 10.0 ug/L		08/21/13 05:28	jk	EPA 625*
4-Bromophenyl phenyl ether	< 10.0 ug/L		08/21/13 05:28	jk	EPA 625 04KS
4-Chloro-3-methylphenol	< 10.0 ug/L		08/21/13 05:28	jk	EPA 625 04KS
4-Chlorophenylphenyl ether	< 10.0 ug/L		08/21/13 05:28	jk	EPA 625 04KS
4-Nitrophenol	< 10.0 ug/L		08/21/13 05:28	jk	EPA 625 04KS
Acenaphthene	< 10.0 ug/L		08/21/13 05:28	jk	EPA 625 04KS
Acenaphthylene	< 10.0 ug/L		08/21/13 05:28	jk	EPA 625 04KS
Anthracene	< 10.0 ug/L		08/21/13 05:28	jk	EPA 625 04KS
Azobenzene	< 10.0 ug/L		08/21/13 05:28	jk	EPA 625*
Benzidine	< 10.0 ug/L		08/21/13 05:28	jk	EPA 625*
Benzo(a)anthracene	< 10.0 ug/L		08/21/13 05:28	jk	EPA 625 04KS
Benzo(a)pyrene	< 10.0 ug/L		08/21/13 05:28	jk	EPA 625 04KS
Benzo(b&k)fluoranthene	< 10.0 ug/L		08/21/13 05:28	jk	EPA 625 04KS
Benzo(b)fluoranthene	< 10.0 ug/L		08/21/13 05:28	jk	EPA 625 04KS
Benzo(g,h,i)perylene	< 10.0 ug/L		08/21/13 05:28	jk	EPA 625 04KS
Benzo(k)fluoranthene	< 10.0 ug/L		08/21/13 05:28	jk	EPA 625 04KS
Bis(2-chloroethoxy) methane	< 10.0 ug/L		08/21/13 05:28	jk	EPA 625 04KS
Bis(2-chloroethyl) ether	< 10.0 ug/L		08/21/13 05:28	jk	EPA 625 04KS
Bis(2-chloroisopropyl) ether	< 10.0 ug/L		08/21/13 05:28	jk	EPA 625 04KS
Bis(2-ethylhexyl) phthalate	< 10.0 ug/L		08/21/13 05:28	jk	EPA 625 04KS
Butyl benzyl phthalate	< 10.0 ug/L		08/21/13 05:28	jk	EPA 625 04KS
Chrysene	< 10.0 ug/L		08/21/13 05:28	jk	EPA 625 04KS
Dibenzo(a,h)anthracene	< 10.0 ug/L		08/21/13 05:28	jk	EPA 625 04KS
Diethyl phthalate	< 10.0 ug/L		08/21/13 05:28	jk	EPA 625 04KS
Dimethyl phthalate	< 10.0 ug/L		08/21/13 05:28	jk	EPA 625 04KS
Di-n-butyl phthalate	< 10.0 ug/L		08/21/13 05:28	jk	EPA 625 04KS
Di-n-octyl phthalate	< 10.0 ug/L		08/21/13 05:28	jk	EPA 625 04KS
Diphenylamine	< 10.0 ug/L		08/21/13 05:28	jk	EPA 625 04KS
Fluoranthene	< 10.0 ug/L		08/21/13 05:28	jk	EPA 625 04KS
Fluorene	< 10.0 ug/L		08/21/13 05:28	jk	EPA 625 04KS
Hexachlorobenzene	< 10.0 ug/L		08/21/13 05:28	jk	EPA 625 04KS
Hexachlorobutadiene	< 10.0 ug/L		08/21/13 05:28	jk	EPA 625 04KS



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Bridgeton Landfill  
13570 St Charles Rock Road  
St. Louis, MO 63044  
Attn: Dan Feezor

Date Received: 08/15/13 16:38  
Report Date: 08/26/13  
Customer #: 277310

**\*Laboratory Results\***

Sample No: **3082394-07**  
Sample Description: **Field Blank**

Collect Date: **08/15/13 15:15**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b>Semivolatile Organics - STL</b>					
Hexachlorocyclopentadiene	< 10.0 ug/L		08/21/13 05:28	jk	EPA 625 04KS
Hexachloroethane	< 10.0 ug/L		08/21/13 05:28	jk	EPA 625 04KS
Indeno(1,2,3-cd)pyrene	< 10.0 ug/L		08/21/13 05:28	jk	EPA 625 04KS
Isophorone	< 10.0 ug/L		08/21/13 05:28	jk	EPA 625 04KS
Naphthalene	< 10.0 ug/L		08/21/13 05:28	jk	EPA 625 04KS
Nitrobenzene	< 10.0 ug/L		08/21/13 05:28	jk	EPA 625 04KS
N-Nitrosodimethylamine	< 10.0 ug/L		08/21/13 05:28	jk	EPA 625 04KS
N-Nitrosodi-n-propylamine	< 10.0 ug/L		08/21/13 05:28	jk	EPA 625 04KS
Pentachlorophenol	< 10.0 ug/L		08/21/13 05:28	jk	EPA 625 04KS
Phenanthrene	< 10.0 ug/L		08/21/13 05:28	jk	EPA 625 04KS
Phenol	< 10.0 ug/L		08/21/13 05:28	jk	EPA 625 04KS
Pyrene	< 10.0 ug/L		08/21/13 05:28	jk	EPA 625 04KS
Surrogate: 2-Fluorophenol	11 % 10-101		08/21/13 05:28	jk	EPA 625
Surrogate: Phenol- d5	9 % 10-154	X	08/21/13 05:28	jk	EPA 625
Surrogate: Nitrobenzene-d5	35 % 10-119		08/21/13 05:28	jk	EPA 625
Surrogate: 2-Fluorobiphenyl	52 % 10-98		08/21/13 05:28	jk	EPA 625
Surrogate: 2,4,6-Tribromophenol	14 % 10-69		08/21/13 05:28	jk	EPA 625
Surrogate: p-Terphenyl-d14	66 % 11-97		08/21/13 05:28	jk	EPA 625
<b>Soluble Metals - STL</b>					
Silicon as SiO2	0.13 mg/L		08/20/13 16:39	WPS	EPA 200.7 R4.4
Aluminum	< 0.015 mg/L		08/20/13 16:39	WPS	EPA 200.7 R4.4*
Mercury	< 0.0002 mg/L		08/20/13 12:03	WPS	EPA 245.1 R3.0 / 04KS SW 7470A
Antimony	< 0.010 mg/L		08/20/13 16:39	WPS	EPA 200.7 R4.4 04KS
Copper	< 0.0020 mg/L		08/20/13 16:39	WPS	EPA 200.7 R4.4 04KS
Silver	< 0.0020 mg/L		08/20/13 16:39	WPS	EPA 200.7 R4.4 04KS
Arsenic	< 0.015 mg/L		08/20/13 16:39	WPS	EPA 200.7 R4.4 04KS
Barium	< 0.010 mg/L		08/20/13 16:39	WPS	EPA 200.7 R4.4 04KS
Beryllium	< 0.0010 mg/L		08/20/13 16:39	WPS	EPA 200.7 R4.4 04KS
Boron	< 0.050 mg/L		08/20/13 16:39	WPS	EPA 200.7 R4.4*
Cadmium	< 0.0020 mg/L		08/20/13 16:39	WPS	EPA 200.7 R4.4 04KS
Calcium	< 0.095 mg/L		08/20/13 16:39	WPS	EPA 200.7 R4.4 04KS
Chromium	< 0.0020 mg/L		08/20/13 16:39	WPS	EPA 200.7 R4.4 04KS



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Bridgeton Landfill  
13570 St Charles Rock Road  
St. Louis, MO 63044  
Attn: Dan Feezor

Date Received: 08/15/13 16:38  
Report Date: 08/26/13  
Customer #: 277310

**\*Laboratory Results\***

Sample No: **3082394-07**  
Sample Description: **Field Blank**

Collect Date: **08/15/13 15:15**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b><u>Soluble Metals - STL</u></b>					
Cobalt	< 0.0020 mg/L		08/20/13 16:39	WPS	EPA 200.7 R4.4 04KS
Iron	< 0.010 mg/L		08/20/13 16:39	WPS	EPA 200.7 R4.4 04KS
Lead	< 0.010 mg/L		08/20/13 16:39	WPS	EPA 200.7 R4.4 04KS
Magnesium	< 0.050 mg/L		08/20/13 16:39	WPS	EPA 200.7 R4.4 04KS
Manganese	< 0.0030 mg/L		08/20/13 16:39	WPS	EPA 200.7 R4.4 04KS
Molybdenum	< 0.012 mg/L		08/20/13 16:39	WPS	EPA 200.7 R4.4 04KS
Nickel	< 0.0020 mg/L		08/20/13 16:39	WPS	EPA 200.7 R4.4 04KS
Potassium	< 0.050 mg/L		08/20/13 16:39	WPS	EPA 200.7 R4.4*
Selenium	< 0.010 mg/L		08/20/13 16:39	WPS	EPA 200.7 R4.4 04KS
Sodium	< 0.10 mg/L		08/20/13 16:39	WPS	EPA 200.7 R4.4*
Thallium	< 0.020 mg/L		08/20/13 16:39	WPS	EPA 200.7 R4.4 04KS
Vanadium	< 0.0020 mg/L		08/20/13 16:39	WPS	EPA 200.7 R4.4 04KS
Zinc	< 0.010 mg/L		08/20/13 16:39	WPS	EPA 200.7 R4.4 04KS
Silicon	0.062 mg/L		08/20/13 16:39	WPS	EPA 200.7 R4.4*
<b><u>Total Metals - STL</u></b>					
Silicon as SiO2	< 0.11 mg/L		08/20/13 16:43	WPS	EPA 200.7 R4.4
Aluminum	< 0.015 mg/L		08/20/13 16:43	WPS	EPA 200.7 R4.4*
Mercury	< 0.0002 mg/L		08/20/13 12:03	WPS	EPA 245.1 R3.0 / SW 7470A 04KS
Antimony	< 0.010 mg/L	Ba	08/20/13 16:43	WPS	EPA 200.7 R4.4 04KS
Silicon	< 0.050 mg/L		08/20/13 16:43	WPS	EPA 200.7 R4.4*
Arsenic	< 0.015 mg/L		08/20/13 16:43	WPS	EPA 200.7 R4.4 04KS
Barium	< 0.010 mg/L		08/20/13 16:43	WPS	EPA 200.7 R4.4 04KS
Beryllium	< 0.0010 mg/L		08/20/13 16:43	WPS	EPA 200.7 R4.4 04KS
Hardness	0.52 mg/L		08/20/13 16:43	WPS	SM 2340B
Boron	< 0.050 mg/L		08/20/13 16:43	WPS	EPA 200.7 R4.4*
Cadmium	< 0.0020 mg/L		08/20/13 16:43	WPS	EPA 200.7 R4.4 04KS
Calcium	0.15 mg/L		08/20/13 16:43	WPS	EPA 200.7 R4.4 04KS
Chromium	< 0.0020 mg/L		08/20/13 16:43	WPS	EPA 200.7 R4.4 04KS
Cobalt	< 0.0020 mg/L		08/20/13 16:43	WPS	EPA 200.7 R4.4 04KS
Copper	< 0.0020 mg/L	B	08/20/13 16:43	WPS	EPA 200.7 R4.4 04KS
Iron	0.027 mg/L		08/20/13 16:43	WPS	EPA 200.7 R4.4 04KS
Lead	< 0.010 mg/L		08/20/13 16:43	WPS	EPA 200.7 R4.4 04KS
Magnesium	< 0.050 mg/L		08/20/13 16:43	WPS	EPA 200.7 R4.4 04KS





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Bridgeton Landfill  
13570 St Charles Rock Road  
St. Louis, MO 63044  
Attn: Dan Feezor

Date Received: 08/15/13 16:38  
Report Date: 08/26/13  
Customer #: 277310

**\*Laboratory Results\***

Sample No: **3082394-07**  
Sample Description: **Field Blank**

Collect Date: **08/15/13 15:15**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b>Total Metals - STL</b>					
Manganese	< 0.0030 mg/L		08/20/13 16:43	WPS	EPA 200.7 R4.4 04KS
Molybdenum	< 0.012 mg/L		08/20/13 16:43	WPS	EPA 200.7 R4.4 04KS
Nickel	< 0.0020 mg/L		08/20/13 16:43	WPS	EPA 200.7 R4.4 04KS
Potassium	< 0.050 mg/L		08/20/13 16:43	WPS	EPA 200.7 R4.4*
Selenium	< 0.010 mg/L		08/20/13 16:43	WPS	EPA 200.7 R4.4 04KS
Silver	< 0.0020 mg/L		08/20/13 16:43	WPS	EPA 200.7 R4.4 04KS
Sodium	< 0.20 mg/L		08/20/13 16:43	WPS	EPA 200.7 R4.4*
Thallium	< 0.020 mg/L		08/20/13 16:43	WPS	EPA 200.7 R4.4 04KS
Vanadium	< 0.0020 mg/L		08/20/13 16:43	WPS	EPA 200.7 R4.4 04KS
Zinc	< 0.010 mg/L		08/20/13 16:43	WPS	EPA 200.7 R4.4 04KS

Sample No: **3082394-08**  
Sample Description: **Location 6**

Collect Date: **08/15/13 15:15**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b>Anions - STL</b>					
Chloride	5000 mg/L		08/21/13 16:44	DWM	EPA 300.0 R2.1 04KS
Nitrate-N	< 50 mg/L		08/16/13 12:02	DWM	EPA 300.0 R2.1 04KS
Nitrite-N	< 50 mg/L		08/16/13 12:02	DWM	EPA 300.0 R2.1 04KS
Sulfate	600 mg/L		08/21/13 16:44	DWM	EPA 300.0 R2.1 04KS
<b>General Chemistry - PIA</b>					
Total Organic Carbon (TOC)	17000 mg/L		08/22/13 19:33	lgsjw	5310C KS,IL,IA,WI,AR
<b>General Chemistry - STL</b>					
Alkalinity - total as CaCO3	12000 mg/L		08/16/13 12:00	ACV	SM 2320B 18Ed*
BOD	33000 mg/L		08/16/13 08:45	DAW	SM 5210B 18Ed 04KS
BOD - soluble	30000 mg/L		08/16/13 08:45	DAW	SM 5210B 18Ed*
COD	50000 mg/L		08/16/13 12:45	DAW	SM 5220D 18Ed 04KS
Cyanide	0.012 mg/L		08/20/13 11:00	DWM	SM 4500-CN C E 18Ed*
Cyanide - amenable	< 0.0050 mg/L		08/21/13 14:30	DWM	SM 4500CN CG 18Ed*
Cyanide - weak acid dissociable	0.012 mg/L	Q3, Xc	08/20/13 11:00	DWM	ASTM 1310-86*



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Date Received: 08/15/13 16:38  
Report Date: 08/26/13  
Customer #: 277310

**\*Laboratory Results\***

Sample No: **3082394-08**  
Sample Description: **Location 6**

Collect Date: **08/15/13 15:15**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b><u>General Chemistry - STL</u></b>					
Oil & Grease - total	< 5.0 mg/L		08/19/13 09:00	mep	EPA 1664A 04KS
Phenol	78 mg/L		08/19/13 13:00	DWM	EPA 420.1 04KS
Solids - total dissolved solids (TDS)	54000 mg/L		08/16/13 16:00	DAW	SM 2540C 18Ed*
Solids - total suspended solids (TSS)	43 mg/L		08/16/13 12:50	DAW	SM 2540D 18Ed 04KS
<b><u>Nutrients - PIA</u></b>					
Total Kjeldahl Nitrogen (TKN)	1100 mg/L		08/22/13 15:19	lgth	SM 4500-N B & NH3-H 18Ed MOD IL,IA,WI,AR
<b><u>Nutrients - STL</u></b>					
Ammonia-N	780 mg/L		08/19/13 12:30	ACV	SM(18) 4500 NH3 F 04KS
Phosphorus - ortho as P	< 5.0 mg/L		08/16/13 15:00	ACV	SM 4500P B E 18ed*
Phosphorus - total as P	< 5.0 mg/L		08/16/13 15:00	ACV	SM 4500P B E 18ed 04KS
<b><u>Semivolatile Organics - STL</u></b>					
1,2,4-Trichlorobenzene	< 1000 ug/L		08/21/13 09:05	jk	EPA 625 04KS
1,2-Dichlorobenzene	< 1000 ug/L		08/21/13 09:05	jk	EPA 625*
1,3-Dichlorobenzene	< 1000 ug/L		08/21/13 09:05	jk	EPA 625*
1,4-Dichlorobenzene	< 1000 ug/L		08/21/13 09:05	jk	EPA 625*
2,4,5-Trichlorophenol	< 1000 ug/L		08/21/13 09:05	jk	EPA 625*
2,4,6-Trichlorophenol	< 1000 ug/L		08/21/13 09:05	jk	EPA 625 04KS
2,4-Dichlorophenol	< 1000 ug/L		08/21/13 09:05	jk	EPA 625 04KS
2,4-Dimethylphenol	< 1000 ug/L		08/21/13 09:05	jk	EPA 625 04KS
2,4-Dinitrophenol	< 1000 ug/L		08/21/13 09:05	jk	EPA 625 04KS
2,4-Dinitrotoluene	< 1000 ug/L		08/21/13 09:05	jk	EPA 625 04KS
2,6-Dimethylaniline	< 500 ug/L		08/21/13 09:05	jk	EPA 625*
2,6-Dinitrotoluene	< 1000 ug/L		08/21/13 09:05	jk	EPA 625 04KS
2-Chloronaphthalene	< 1000 ug/L		08/21/13 09:05	jk	EPA 625 04KS
2-Chlorophenol	< 1000 ug/L		08/21/13 09:05	jk	EPA 625 04KS
2-Nitrophenol	< 1000 ug/L		08/21/13 09:05	jk	EPA 625 04KS
3,3'-Dichlorobenzidine	< 1000 ug/L		08/21/13 09:05	jk	EPA 625 04KS
4,6-Dinitro-2-methylphenol	< 1000 ug/L		08/21/13 09:05	jk	EPA 625*
4-Bromophenyl phenyl ether	< 1000 ug/L		08/21/13 09:05	jk	EPA 625 04KS
4-Chloro-3-methylphenol	< 1000 ug/L		08/21/13 09:05	jk	EPA 625 04KS



**PDC Laboratories, Inc.**

3278 N Highway 67 • Florissant, MO 63033  
(314) 432-0550 • (800) 333-FAST • FAX (314) 432-4977



Bridgeton Landfill  
13570 St Charles Rock Road  
St. Louis, MO 63044  
Attn: Dan Feezor

Date Received: 08/15/13 16:38  
Report Date: 08/26/13  
Customer #: 277310

**\*Laboratory Results\***

Sample No: **3082394-08**  
Sample Description: **Location 6**

Collect Date: **08/15/13 15:15**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b>Semivolatile Organics - STL</b>					
4-Chlorophenylphenyl ether	< 1000 ug/L		08/21/13 09:05	jk	EPA 625 04KS
4-Nitrophenol	< 1000 ug/L		08/21/13 09:05	jk	EPA 625 04KS
Acenaphthene	< 1000 ug/L		08/21/13 09:05	jk	EPA 625 04KS
Acenaphthylene	< 1000 ug/L		08/21/13 09:05	jk	EPA 625 04KS
Anthracene	< 1000 ug/L		08/21/13 09:05	jk	EPA 625 04KS
Azobenzene	< 1000 ug/L		08/21/13 09:05	jk	EPA 625*
Benzidine	< 1000 ug/L		08/21/13 09:05	jk	EPA 625*
Benzo(a)anthracene	< 1000 ug/L		08/21/13 09:05	jk	EPA 625 04KS
Benzo(a)pyrene	< 1000 ug/L		08/21/13 09:05	jk	EPA 625 04KS
Benzo(b&k)fluoranthene	< 1000 ug/L		08/21/13 09:05	jk	EPA 625 04KS
Benzo(b)fluoranthene	< 1000 ug/L		08/21/13 09:05	jk	EPA 625 04KS
Benzo(g,h,i)perylene	< 1000 ug/L		08/21/13 09:05	jk	EPA 625 04KS
Benzo(k)fluoranthene	< 1000 ug/L		08/21/13 09:05	jk	EPA 625 04KS
Bis(2-chloroethoxy) methane	< 1000 ug/L		08/21/13 09:05	jk	EPA 625 04KS
Bis(2-chloroethyl) ether	< 1000 ug/L		08/21/13 09:05	jk	EPA 625 04KS
Bis(2-chloroisopropyl) ether	< 1000 ug/L		08/21/13 09:05	jk	EPA 625 04KS
Bis(2-ethylhexyl) phthalate	< 1000 ug/L		08/21/13 09:05	jk	EPA 625 04KS
Butyl benzyl phthalate	< 1000 ug/L		08/21/13 09:05	jk	EPA 625 04KS
Chrysene	< 1000 ug/L		08/21/13 09:05	jk	EPA 625 04KS
Dibenzo(a,h)anthracene	< 1000 ug/L		08/21/13 09:05	jk	EPA 625 04KS
Diethyl phthalate	< 1000 ug/L		08/21/13 09:05	jk	EPA 625 04KS
Dimethyl phthalate	< 1000 ug/L		08/21/13 09:05	jk	EPA 625 04KS
Di-n-butyl phthalate	< 1000 ug/L		08/21/13 09:05	jk	EPA 625 04KS
Di-n-octyl phthalate	< 1000 ug/L		08/21/13 09:05	jk	EPA 625 04KS
Diphenylamine	< 1000 ug/L		08/21/13 09:05	jk	EPA 625 04KS
Fluoranthene	< 1000 ug/L		08/21/13 09:05	jk	EPA 625 04KS
Fluorene	< 1000 ug/L		08/21/13 09:05	jk	EPA 625 04KS
Hexachlorobenzene	< 1000 ug/L		08/21/13 09:05	jk	EPA 625 04KS
Hexachlorobutadiene	< 1000 ug/L		08/21/13 09:05	jk	EPA 625 04KS
Hexachlorocyclopentadiene	< 1000 ug/L		08/21/13 09:05	jk	EPA 625 04KS
Hexachloroethane	< 1000 ug/L		08/21/13 09:05	jk	EPA 625 04KS
Indeno(1,2,3-cd)pyrene	< 1000 ug/L		08/21/13 09:05	jk	EPA 625 04KS
Isophorone	< 1000 ug/L		08/21/13 09:05	jk	EPA 625 04KS



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Bridgeton Landfill  
13570 St Charles Rock Road  
St. Louis, MO 63044  
Attn: Dan Feezor

Date Received: 08/15/13 16:38  
Report Date: 08/26/13  
Customer #: 277310

**\*Laboratory Results\***

Sample No: **3082394-08**  
Sample Description: **Location 6**

Collect Date: **08/15/13 15:15**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b>Semivolatile Organics - STL</b>					
Naphthalene	< 1000 ug/L		08/21/13 09:05	jk	EPA 625 04KS
Nitrobenzene	< 1000 ug/L		08/21/13 09:05	jk	EPA 625 04KS
N-Nitrosodimethylamine	< 1000 ug/L		08/21/13 09:05	jk	EPA 625 04KS
N-Nitrosodi-n-propylamine	< 1000 ug/L		08/21/13 09:05	jk	EPA 625 04KS
Pentachlorophenol	< 1000 ug/L		08/21/13 09:05	jk	EPA 625 04KS
Phenanthrene	< 1000 ug/L		08/21/13 09:05	jk	EPA 625 04KS
Phenol	2900 ug/L	Xb	08/21/13 09:05	jk	EPA 625 04KS
Pyrene	< 1000 ug/L		08/21/13 09:05	jk	EPA 625 04KS
Surrogate: 2-Fluorophenol	55 % 10-101	S	08/21/13 09:05	jk	EPA 625
Surrogate: Phenol- d5	13 % 10-154	S	08/21/13 09:05	jk	EPA 625
Surrogate: Nitrobenzene-d5	% 10-119	S	08/21/13 09:05	jk	EPA 625
Surrogate: 2-Fluorobiphenyl	41 % 10-98	S	08/21/13 09:05	jk	EPA 625
Surrogate: 2,4,6-Tribromophenol	15 % 10-69	S	08/21/13 09:05	jk	EPA 625
Surrogate: p-Terphenyl-d14	46 % 11-97	S	08/21/13 09:05	jk	EPA 625
<b>Soluble Metals - STL</b>					
Silicon as SiO2	78 mg/L		08/20/13 16:47	WPS	EPA 200.7 R4.4
Aluminum	1.3 mg/L		08/20/13 16:47	WPS	EPA 200.7 R4.4*
Mercury	< 0.0020 mg/L		08/20/13 12:03	WPS	EPA 245.1 R3.0 / 04KS SW 7470A
Antimony	< 0.10 mg/L		08/20/13 16:47	WPS	EPA 200.7 R4.4 04KS
Copper	0.032 mg/L		08/20/13 16:47	WPS	EPA 200.7 R4.4 04KS
Silver	< 0.020 mg/L		08/20/13 16:47	WPS	EPA 200.7 R4.4 04KS
Arsenic	0.62 mg/L		08/20/13 16:47	WPS	EPA 200.7 R4.4 04KS
Barium	2.1 mg/L		08/20/13 16:47	WPS	EPA 200.7 R4.4 04KS
Beryllium	< 0.010 mg/L		08/20/13 16:47	WPS	EPA 200.7 R4.4 04KS
Boron	17 mg/L		08/20/13 16:47	WPS	EPA 200.7 R4.4*
Cadmium	< 0.020 mg/L		08/20/13 16:47	WPS	EPA 200.7 R4.4 04KS
Calcium	6500 mg/L		08/20/13 14:36	WPS	EPA 200.7 R4.4 04KS
Chromium	0.13 mg/L		08/20/13 16:47	WPS	EPA 200.7 R4.4 04KS
Cobalt	0.028 mg/L		08/20/13 16:47	WPS	EPA 200.7 R4.4 04KS
Iron	18 mg/L		08/20/13 16:47	WPS	EPA 200.7 R4.4 04KS
Lead	< 0.10 mg/L		08/20/13 16:47	WPS	EPA 200.7 R4.4 04KS
Magnesium	< 0.50 mg/L		08/20/13 16:47	WPS	EPA 200.7 R4.4 04KS



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Bridgeton Landfill  
13570 St Charles Rock Road  
St. Louis, MO 63044  
Attn: Dan Feezor

Date Received: 08/15/13 16:38  
Report Date: 08/26/13  
Customer #: 277310

**\*Laboratory Results\***

Sample No: **3082394-08**  
Sample Description: **Location 6**

Collect Date: **08/15/13 15:15**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b><u>Soluble Metals - STL</u></b>					
Manganese	0.13 mg/L		08/20/13 16:47	WPS	EPA 200.7 R4.4 04KS
Molybdenum	< 0.12 mg/L		08/20/13 16:47	WPS	EPA 200.7 R4.4 04KS
Nickel	0.17 mg/L		08/20/13 16:47	WPS	EPA 200.7 R4.4 04KS
Potassium	700 mg/L		08/20/13 15:38	WPS	EPA 200.7 R4.4*
Selenium	0.26 mg/L		08/20/13 16:47	WPS	EPA 200.7 R4.4 04KS
Sodium	3800 mg/L		08/20/13 14:36	WPS	EPA 200.7 R4.4*
Thallium	< 0.20 mg/L		08/20/13 16:47	WPS	EPA 200.7 R4.4 04KS
Vanadium	0.030 mg/L		08/20/13 16:47	WPS	EPA 200.7 R4.4 04KS
Zinc	0.20 mg/L		08/20/13 16:47	WPS	EPA 200.7 R4.4 04KS
Silicon	37 mg/L		08/20/13 16:47	WPS	EPA 200.7 R4.4*
<b><u>Total Metals - STL</u></b>					
Silicon as SiO2	69 mg/L		08/20/13 16:51	WPS	EPA 200.7 R4.4
Aluminum	1.2 mg/L		08/20/13 16:51	WPS	EPA 200.7 R4.4*
Mercury	< 0.0020 mg/L		08/20/13 12:03	WPS	EPA 245.1 R3.0 / SW 7470A 04KS
Antimony	0.12 mg/L	Ba	08/20/13 16:51	WPS	EPA 200.7 R4.4 04KS
Silicon	32 mg/L		08/20/13 16:51	WPS	EPA 200.7 R4.4*
Arsenic	0.50 mg/L		08/20/13 16:51	WPS	EPA 200.7 R4.4 04KS
Barium	1.9 mg/L		08/20/13 16:51	WPS	EPA 200.7 R4.4 04KS
Beryllium	< 0.010 mg/L		08/20/13 16:51	WPS	EPA 200.7 R4.4 04KS
Hardness	14000 mg/L		08/20/13 16:51	WPS	SM 2340B
Boron	15 mg/L		08/20/13 16:51	WPS	EPA 200.7 R4.4*
Cadmium	< 0.020 mg/L		08/20/13 16:51	WPS	EPA 200.7 R4.4 04KS
Calcium	5800 mg/L		08/20/13 14:41	WPS	EPA 200.7 R4.4 04KS
Chromium	0.11 mg/L		08/20/13 16:51	WPS	EPA 200.7 R4.4 04KS
Cobalt	0.021 mg/L		08/20/13 16:51	WPS	EPA 200.7 R4.4 04KS
Copper	< 0.020 mg/L	B	08/20/13 16:51	WPS	EPA 200.7 R4.4 04KS
Iron	17 mg/L		08/20/13 16:51	WPS	EPA 200.7 R4.4 04KS
Lead	< 0.10 mg/L		08/20/13 16:51	WPS	EPA 200.7 R4.4 04KS
Magnesium	< 0.50 mg/L		08/20/13 16:51	WPS	EPA 200.7 R4.4 04KS
Manganese	0.080 mg/L		08/20/13 16:51	WPS	EPA 200.7 R4.4 04KS
Molybdenum	< 0.12 mg/L		08/20/13 16:51	WPS	EPA 200.7 R4.4 04KS
Nickel	0.14 mg/L		08/20/13 16:51	WPS	EPA 200.7 R4.4 04KS
Potassium	630 mg/L		08/20/13 15:42	WPS	EPA 200.7 R4.4*



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Bridgeton Landfill  
13570 St Charles Rock Road  
St. Louis, MO 63044  
Attn: Dan Feezor

Date Received: 08/15/13 16:38  
Report Date: 08/26/13  
Customer #: 277310

**\*Laboratory Results\***

Sample No: **3082394-08**  
Sample Description: **Location 6**

Collect Date: **08/15/13 15:15**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b>Total Metals - STL</b>					
Selenium	< 0.10 mg/L		08/20/13 16:51	WPS	EPA 200.7 R4.4 04KS
Silver	< 0.020 mg/L		08/20/13 16:51	WPS	EPA 200.7 R4.4 04KS
Sodium	3500 mg/L		08/20/13 14:41	WPS	EPA 200.7 R4.4*
Thallium	< 0.20 mg/L		08/20/13 16:51	WPS	EPA 200.7 R4.4 04KS
Vanadium	0.031 mg/L		08/20/13 16:51	WPS	EPA 200.7 R4.4 04KS
Zinc	2.9 mg/L		08/20/13 16:51	WPS	EPA 200.7 R4.4 04KS



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Date Received: 08/15/13 16:38  
Report Date: 08/26/13  
Customer #: 277310

**\*Laboratory Results\***

**Notes**

This report shall not be reproduced, except in full, without the written approval of the laboratory.

PDC Laboratories participates in the following accreditation/certification and proficiency programs at the following locations. Endorsement by Federal or State Governments or their agencies is not implied.

- PIA PDC Laboratories - Peoria, IL
  - TNI Accreditation for Drinking Water, Wastewater, Hazardous and Solid Wastes Fields of Testing through IL EPA Lab No. 100230
  - Illinois Department of Public Health Bacteriological Analysis in Drinking Water Approved Laboratory Registry No. 17553
  - Drinking Water Certifications: Kansas (E-10338); Missouri (870); Wisconsin (998284430); Indiana (C-IL-040); Iowa (240)
  - Wastewater Certifications: Arkansas (88-0677); Wisconsin (998284430); Iowa (240); Kansas (E-10335)
  - Hazardous/Solid Waste Certifications: Arkansas (88-0677); Wisconsin (998284430); Iowa (240); Kansas (E-10335)
  - UST Certification; Iowa (240)
- SPM PDC Laboratories - Springfield, MO
  - EPA DMR-QA Program
- STL PDC Laboratories - St. Louis, MO
  - TNI Accreditation for Wastewater, Hazardous and Solid Wastes Fields of Testing through KS Lab No. E-10389
- JER PDC Laboratories - Jerseyville, IL
  - Illinois Department of Public Health Bacteriological Analysis in Drinking Water Approved Laboratory Registry No. 17521
  - Drinking Water Certifications: Missouri (430)

\* Not a TNI accredited analyte

- Xc WAD LCS failed 69%. TCN LCS Passed.
- Xb The intensity of a secondary ion exceeds the relative intensity in the reference spectra.
- Xa Matrix spike diluted out, due to matrix.
- X Low phenold5 surrogate, due to matrix.
- S Surrogate compound diluted below a reliable quantitation level.
- Q3 MS/MSD both failed %R
- Ba Present in the method blank at 0.021.
- B Present in the method blank at 0.0028.

Certified by: Roxann Shull, Client Services Supervisor



**PDC Laboratories, Inc. – St. Louis**  
**3278 N. Highway 67 (Lindbergh)**  
**Florissant, MO 63033**  
 www.pdcclab.com

**CHAIN OF CUSTODY RECORD**  
 Phone (314) 432-0550 or (314) 921-4488  
 Fax (314) 432-4977

State where samples collected MO  
 (Instructions/Sample Acceptance Policy on Reverse)

ALL SHADED AREAS MUST BE COMPLETED BY CLIENT (PLEASE PRINT)

<b>1 CLIENT</b> <b>BARR ENGINEERING</b> <b>ADDRESS: 1001 DIAMOND RIDGE, SUITE 1150</b> <b>CITY: JEFF CITY, MO 65109</b> <b>CONTACT PERSON: ED GALBRAITH 573-418-5562</b>		<b>PROJECT NUMBER</b> <b>P. O. NUMBER</b> <b>MEANS SHIPPED</b>		<b>PHONE NUMBER</b> <b>FAX NUMBER</b> <b>EMAIL ADDRESS: egalbraith@barr.com</b>		<b>3 ANALYSIS REQUESTED</b> ANALYSIS: 400.1 TOC 4500B SYOCS 625 TOTAL METALS + 200.7 DISS METALS LF 200.7 TDS 2890C/150 2540D AIK 2320B H+H CI, 504 PPT 300.0 O+G 164H BOD-DISS, BOD LF 5310B TKN 4500NH3-N/ANAL. CN 4500NH3-CG COD 5220D/NH3 4500NH3-F TOTAL P 4500P-E MLSS/MLVSS						<b>4 (FOR LAB USE ONLY)</b> <b>LOGIN # 3082394</b> <b>LOGGED BY: HE</b> <b>LAB PROJ. #</b> <b>TEMPLATE:</b> <b>PROJ. MGR.:</b>					
<b>2 SAMPLE DESCRIPTION</b> <b>AS YOU WANT ON REPORT</b>		<b>DATE COLLECTED</b>		<b>TIME COLLECTED</b>		<b>SAMPLE TYPE</b> GRAB COMP		<b>MATRIX TYPE</b>		<b>Bottle Count</b>		<b>REMARKS</b>					
LOCATION 1A		8/15/13		1304		✓		LCHT		13		4 2 1 2 3 1					
LOCATION 1D		8/15/13		1326		✓		LCHT		13		4 2 1 2 3 1					
LOCATION 1E		8/15/13		1353		✓		LCHT		13		4 2 1 2 3 1					
LOCATION 2		8/15/13		1420		✓		LCHT		13		4 2 1 2 3 1					
LOCATION 3		8/15/13		1451		✓		LCHT		1		1					
LOCATION 4		8/15/13		1456		✓		LCHT		13		4 2 1 2 3 1					
FIELD BLANK		8/15/13		1515		✓		DI		13		4 2 1 2 3 1					
LOCATION 6		8/15/13		1515		✓		LCHT		16		4 2 2 2 4 2					
<b>5 TURNAROUND TIME (RUSH TAT IS SUBJECT TO PDC LABS APPROVAL AND SURCHARGE)</b> NORMAL (8-10 Bus. Days) <u>RUSH (5 Bus. Days)</u> Fastrak™ (3 Bus. Days) 1-2 Bus. Days Same Day DATE DUE _____												The sample temperature will be measured upon receipt at the lab. By initialing this area, you request that the lab notify you, before proceeding with analysis, if the sample temperature is outside of the range of 0.1-6.0°C. By not initialing this area, you allow the lab to proceed with analytical testing regardless of the sample temperature.					
RESULTS BY: <u>E-MAIL</u> FAX PHONE CALL PHONE/FAX# IF DIFFERENT FROM ABOVE												<b>6</b>					
<b>7 RELINQUISHED BY: (SIGNATURE)</b> 		<b>DATE</b> 8/15/13		<b>TIME</b> 1630		<b>RECEIVED BY:</b> Heather Carleton		<b>DATE</b> 8/15/13		<b>TIME</b> 16:30		<b>8 COMMENTS: (FOR LAB USE ONLY)</b> SAMPLE TEMPERATURE UPON RECEIPT CHILL PROCESS STARTED PRIOR TO RECEIPT SAMPLE(S) RECEIVED ON ICE PROPER BOTTLES RECEIVED IN GOOD CONDITION BOTTLES FILLED WITH ADEQUATE VOLUME SAMPLES RECEIVED WITHIN HOLD TIME(S) (EXCLUDES TYPICAL FIELD PARAMETERS) DATE AND TIME TAKEN FROM SAMPLE BOTTLE 116°C Y OR N Y OR N Y OR N Y OR N					
RELINQUISHED BY: (SIGNATURE)		DATE		TIME		RECEIVED BY:		DATE		TIME							
RELINQUISHED BY: (SIGNATURE)		DATE		TIME		RECEIVED BY:		DATE		TIME							
RELINQUISHED BY: (SIGNATURE)		DATE		TIME		RECEIVED BY:		DATE		TIME							

Thank you for using PDC Laboratories, Inc. Locations in Peoria, IL; St. Louis, MO; and Springfield, MO



SUBCONTRACT ORDER

PDC Laboratories, Inc.  
3082394

3082394-7 RM

SENDING LABORATORY:  PDC Laboratories, Inc, 2231 W Altorfer Peoria, IL 61615  
 PDC Laboratories, Inc, 1805 W Sunset, Springfield, MO 65807  
 PDC Laboratories, Inc, 3278 N Highway 67, Florissant, MO 63033

Project Manager: Roxann Shull rshull@pdclab.com Phone: 314-595-7337

Date Shipped 8/19/13  
Sample Origin (State) MO  
PO# \_\_\_\_\_  
Total # of Containers 14

RECEIVING LABORATORY:

PDC Laboratories, Inc.  
PO Box 9071  
Peoria, IL 61612-9071  
Phone : (309) 692-9688

Analysis	Due	Expires	Comments
<b>Sample ID: 3082394-01 Water Sampled:08/15/13 13:04</b>			
TOC	08/20/13 16:00	09/12/13 13:04	
TKN	08/20/13 16:00	09/12/13 13:04	
<b>Sample ID: 3082394-02 Water Sampled:08/15/13 13:26</b>			
TOC	08/20/13 16:00	09/12/13 13:26	
TKN	08/20/13 16:00	09/12/13 13:26	
<b>Sample ID: 3082394-03 Water Sampled:08/15/13 13:53</b>			
TOC	08/20/13 16:00	09/12/13 13:53	
TKN	08/20/13 16:00	09/12/13 13:53	
<b>Sample ID: 3082394-04 Water Sampled:08/15/13 14:20</b>			
TOC	08/20/13 16:00	09/12/13 14:20	
TKN	08/20/13 16:00	09/12/13 14:20	

Turn-Around Time Requested (circle one): NORMAL RUSH Date Results Needed: 8/20/13

Relinquished By	Date/Time	Received By	Date/Time	Sample Temperature Upon Receipt	<u>9</u> C
<u>Heather Gault</u>	<u>8/16/13</u>	<u>[Signature]</u>	<u>8/20/13 9:20</u>	Sample(s) Received on Ice	<u>Y</u> or N
				Proper Bottles Received in Good Condition	<u>Y</u> or N
				Bottles Filled with Adequate Volume	<u>Y</u> or N
				Samples Received Within Hold Time	<u>Y</u> or N
				Date/Time Taken From Sample Bottle	<u>Y</u> or N

**SUBCONTRACT ORDER**

**PDC Laboratories, Inc.**

**3082394**

Analysis	Due	Expires	Comments
<b>Sample ID: 3082394-06    Water    Sampled:08/15/13 14:56</b>			
TOC	08/20/13 16:00	09/12/13 14:56	
TKN	08/20/13 16:00	09/12/13 14:56	
<b>Sample ID: 3082394-07    Water    Sampled:08/15/13 15:15</b>			
TOC	08/20/13 16:00	09/12/13 15:15	
TKN	08/20/13 16:00	09/12/13 15:15	
<b>Sample ID: 3082394-08    Water    Sampled:08/15/13 15:15</b>			
TOC	08/20/13 16:00	09/12/13 15:15	
TKN	08/20/13 16:00	09/12/13 15:15	

Turn-Around Time Requested (circle one):    NORMAL    **RUSH**    Date Results Needed: 8/20/13

Relinquished By <u>Heather Corbett 8/16/13</u>		Received By _____		Sample Temperature Upon Receipt _____ C
Date/Time	Date/Time	Date/Time	Date/Time	Sample(s) Received on Ice    Y or N
Relinquished By _____		Received By _____		Proper Bottles Received in Good Condition    Y or N
Date/Time	Date/Time	Date/Time	Date/Time	Bottles Filled with Adequate Volume    Y or N
Relinquished By _____		Received By _____		Samples Received Within Hold Time    Y or N
Date/Time	Date/Time	Date/Time	Date/Time	Date/Time Taken From Sample Bottle    Y or N



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Bridgeton Landfill  
13570 St Charles Rock Road  
St. Louis, MO 63044  
Attn: Dan Feezor

Date Received: 08/20/13 12:28  
Report Date: 08/27/13  
Customer #: 277310

**\*Laboratory Results\***

Sample No: **3083069-01**  
Sample Description: **Location 1A**

Collect Date: **08/19/13 12:17**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b><u>Anions - STL</u></b>					
Chloride	4800 mg/L		08/21/13 17:02	DWM	EPA 300.0 R2.1 04KS
Nitrate-N	< 50 mg/L		08/20/13 16:07	DWM	EPA 300.0 R2.1 04KS
Nitrite-N	< 50 mg/L		08/20/13 16:07	DWM	EPA 300.0 R2.1 04KS
Sulfate	520 mg/L		08/21/13 17:02	DWM	EPA 300.0 R2.1 04KS
<b><u>General Chemistry - PIA</u></b>					
Total Organic Carbon (TOC)	22000 mg/L		08/22/13 19:40	lgsjw	5310C KS,IL,IA,WI,AR
<b><u>General Chemistry - STL</u></b>					
Alkalinity - total as CaCO3	7200 mg/L		08/20/13 14:00	ACV	SM 2320B 18Ed*
BOD	35000 mg/L		08/21/13 11:30	DAW	SM 5210B 18Ed 04KS
BOD - soluble	30000 mg/L		08/21/13 11:30	DAW	SM 5210B 18Ed*
COD	63000 mg/L		08/21/13 13:15	DAW	SM 5220D 18Ed 04KS
Cyanide	0.0070 mg/L	Q2	08/21/13 14:30	DWM	SM 4500-CN C E 18Ed*
Cyanide - amenable	< 0.0050 mg/L		08/23/13 12:00	DWM	SM 4500CN CG 18Ed*
Cyanide - weak acid dissociable	0.0080 mg/L		08/21/13 14:30	DWM	ASTM 1310-86*
Oil & Grease - total	39 mg/L		08/21/13 09:00	mep	EPA 1664A 04KS
Phenol	69 mg/L		08/26/13 12:00	DWM	EPA 420.1 04KS
Solids - total dissolved solids (TDS)	46000 mg/L		08/22/13 12:00	DAW	SM 2540C 18Ed*
Solids - total suspended solids (TSS)	940 mg/L		08/21/13 15:00	DAW	SM 2540D 18Ed 04KS
<b><u>Nutrients - PIA</u></b>					
Total Kjeldahl Nitrogen (TKN)	1200 mg/L		08/22/13 15:25	lgth	SM 4500-N B & NH3-H 18Ed MOD IL,IA,WI,AR
<b><u>Nutrients - STL</u></b>					
Ammonia-N	840 mg/L		08/21/13 12:30	ACV	SM(18) 4500 NH3 F 04KS
Phosphorus - ortho as P	< 5.0 mg/L	H	08/22/13 14:30	ACV	SM 4500P B E 18ed*
Phosphorus - total as P	< 5.0 mg/L		08/22/13 11:15	ACV	SM 4500P B E 18ed 04KS
<b><u>Semivolatile Organics - STL</u></b>					
1,2,4-Trichlorobenzene	< 500 ug/L		08/22/13 07:15	jk	EPA 625 04KS
1,2-Dichlorobenzene	< 500 ug/L		08/22/13 07:15	jk	EPA 625*
1,3-Dichlorobenzene	< 500 ug/L		08/22/13 07:15	jk	EPA 625*



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Collect Date: **08/19/13 12:17**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b>Semivolatile Organics - STL</b>					
1,4-Dichlorobenzene	< 500 ug/L		08/22/13 07:15	jk	EPA 625*
2,4,5-Trichlorophenol	< 500 ug/L		08/22/13 07:15	jk	EPA 625*
2,4,6-Trichlorophenol	< 500 ug/L		08/22/13 07:15	jk	EPA 625 04KS
2,4-Dichlorophenol	< 500 ug/L		08/22/13 07:15	jk	EPA 625 04KS
2,4-Dimethylphenol	< 500 ug/L		08/22/13 07:15	jk	EPA 625 04KS
2,4-Dinitrophenol	< 500 ug/L		08/22/13 07:15	jk	EPA 625 04KS
2,4-Dinitrotoluene	< 500 ug/L		08/22/13 07:15	jk	EPA 625 04KS
2,6-Dimethylaniline	< 250 ug/L		08/22/13 07:15	jk	EPA 625*
2,6-Dinitrotoluene	< 500 ug/L		08/22/13 07:15	jk	EPA 625 04KS
2-Chloronaphthalene	< 500 ug/L		08/22/13 07:15	jk	EPA 625 04KS
2-Chlorophenol	< 500 ug/L		08/22/13 07:15	jk	EPA 625 04KS
2-Nitrophenol	< 500 ug/L		08/22/13 07:15	jk	EPA 625 04KS
3,3'-Dichlorobenzidine	< 500 ug/L		08/22/13 07:15	jk	EPA 625 04KS
4,6-Dinitro-2-methylphenol	< 500 ug/L		08/22/13 07:15	jk	EPA 625*
4-Bromophenyl phenyl ether	< 500 ug/L		08/22/13 07:15	jk	EPA 625 04KS
4-Chloro-3-methylphenol	< 500 ug/L		08/22/13 07:15	jk	EPA 625 04KS
4-Chlorophenylphenyl ether	< 500 ug/L		08/22/13 07:15	jk	EPA 625 04KS
4-Nitrophenol	< 500 ug/L		08/22/13 07:15	jk	EPA 625 04KS
Acenaphthene	< 500 ug/L		08/22/13 07:15	jk	EPA 625 04KS
Acenaphthylene	< 500 ug/L		08/22/13 07:15	jk	EPA 625 04KS
Anthracene	< 500 ug/L		08/22/13 07:15	jk	EPA 625 04KS
Azobenzene	< 500 ug/L		08/22/13 07:15	jk	EPA 625*
Benzidine	< 500 ug/L		08/22/13 07:15	jk	EPA 625*
Benzo(a)anthracene	< 500 ug/L		08/22/13 07:15	jk	EPA 625 04KS
Benzo(a)pyrene	< 500 ug/L		08/22/13 07:15	jk	EPA 625 04KS
Benzo(b&k)fluoranthene	< 500 ug/L		08/22/13 07:15	jk	EPA 625 04KS
Benzo(b)fluoranthene	< 500 ug/L		08/22/13 07:15	jk	EPA 625 04KS
Benzo(g,h,i)perylene	< 500 ug/L		08/22/13 07:15	jk	EPA 625 04KS
Benzo(k)fluoranthene	< 500 ug/L		08/22/13 07:15	jk	EPA 625 04KS
Bis(2-chloroethoxy) methane	< 500 ug/L		08/22/13 07:15	jk	EPA 625 04KS
Bis(2-chloroethyl) ether	< 500 ug/L		08/22/13 07:15	jk	EPA 625 04KS
Bis(2-chloroisopropyl) ether	< 500 ug/L		08/22/13 07:15	jk	EPA 625 04KS
Bis(2-ethylhexyl) phthalate	< 500 ug/L		08/22/13 07:15	jk	EPA 625 04KS



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**\*Laboratory Results\***

Sample No: **3083069-01**  
Sample Description: **Location 1A**

Collect Date: **08/19/13 12:17**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b>Semivolatile Organics - STL</b>					
Butyl benzyl phthalate	< 500 ug/L		08/22/13 07:15	jk	EPA 625 04KS
Chrysene	< 500 ug/L		08/22/13 07:15	jk	EPA 625 04KS
Dibenzo(a,h)anthracene	< 500 ug/L		08/22/13 07:15	jk	EPA 625 04KS
Diethyl phthalate	< 500 ug/L		08/22/13 07:15	jk	EPA 625 04KS
Dimethyl phthalate	< 500 ug/L		08/22/13 07:15	jk	EPA 625 04KS
Di-n-butyl phthalate	< 500 ug/L		08/22/13 07:15	jk	EPA 625 04KS
Di-n-octyl phthalate	< 500 ug/L		08/22/13 07:15	jk	EPA 625 04KS
Diphenylamine	< 500 ug/L		08/22/13 07:15	jk	EPA 625 04KS
Fluoranthene	< 500 ug/L		08/22/13 07:15	jk	EPA 625 04KS
Fluorene	< 500 ug/L		08/22/13 07:15	jk	EPA 625 04KS
Hexachlorobenzene	< 500 ug/L		08/22/13 07:15	jk	EPA 625 04KS
Hexachlorobutadiene	< 500 ug/L		08/22/13 07:15	jk	EPA 625 04KS
Hexachlorocyclopentadiene	< 500 ug/L		08/22/13 07:15	jk	EPA 625 04KS
Hexachloroethane	< 500 ug/L		08/22/13 07:15	jk	EPA 625 04KS
Indeno(1,2,3-cd)pyrene	< 500 ug/L		08/22/13 07:15	jk	EPA 625 04KS
Isophorone	< 500 ug/L		08/22/13 07:15	jk	EPA 625 04KS
Naphthalene	< 500 ug/L		08/22/13 07:15	jk	EPA 625 04KS
Nitrobenzene	< 500 ug/L		08/22/13 07:15	jk	EPA 625 04KS
N-Nitrosodimethylamine	< 500 ug/L		08/22/13 07:15	jk	EPA 625 04KS
N-Nitrosodi-n-propylamine	< 500 ug/L		08/22/13 07:15	jk	EPA 625 04KS
Pentachlorophenol	< 500 ug/L		08/22/13 07:15	jk	EPA 625 04KS
Phenanthrene	< 500 ug/L		08/22/13 07:15	jk	EPA 625 04KS
Phenol	5650 ug/L	Xa	08/22/13 07:15	jk	EPA 625 04KS
Pyrene	< 500 ug/L		08/22/13 07:15	jk	EPA 625 04KS
Surrogate: 2-Fluorophenol	3 % 10-101	S	08/22/13 07:15	jk	EPA 625
Surrogate: Phenol- d5	58 % 10-154	S	08/22/13 07:15	jk	EPA 625
Surrogate: Nitrobenzene-d5	% 10-119	S	08/22/13 07:15	jk	EPA 625
Surrogate: 2-Fluorobiphenyl	62 % 10-98	S	08/22/13 07:15	jk	EPA 625
Surrogate: 2,4,6-Tribromophenol	22 % 10-69	S	08/22/13 07:15	jk	EPA 625
Surrogate: p-Terphenyl-d14	73 % 11-97	S	08/22/13 07:15	jk	EPA 625
<b>Soluble Metals - STL</b>					
Silicon as SiO2	120 mg/L		08/23/13 11:03	WPS	EPA 200.7 R4.4
Aluminum	1.6 mg/L		08/23/13 11:03	WPS	EPA 200.7 R4.4*



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**\*Laboratory Results\***

Sample No: **3083069-01**  
Sample Description: **Location 1A**

Collect Date: **08/19/13 12:17**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b>Soluble Metals - STL</b>					
Mercury	< 0.0020 mg/L		08/22/13 14:14	KAE	EPA 245.1 R3.0 / SW 7470A 04KS
Antimony	< 0.10 mg/L		08/23/13 11:03	WPS	EPA 200.7 R4.4 04KS
Copper	< 0.020 mg/L		08/23/13 11:03	WPS	EPA 200.7 R4.4 04KS
Silver	< 0.020 mg/L		08/23/13 11:03	WPS	EPA 200.7 R4.4 04KS
Arsenic	0.59 mg/L		08/23/13 11:03	WPS	EPA 200.7 R4.4 04KS
Barium	3.7 mg/L		08/23/13 11:03	WPS	EPA 200.7 R4.4 04KS
Beryllium	< 0.010 mg/L		08/23/13 11:03	WPS	EPA 200.7 R4.4 04KS
Boron	19 mg/L		08/23/13 11:03	WPS	EPA 200.7 R4.4* 04KS
Cadmium	0.035 mg/L		08/23/13 11:03	WPS	EPA 200.7 R4.4 04KS
Calcium	3900 mg/L		08/23/13 09:13	WPS	EPA 200.7 R4.4 04KS
Chromium	0.24 mg/L		08/23/13 11:03	WPS	EPA 200.7 R4.4 04KS
Cobalt	0.055 mg/L		08/23/13 11:03	WPS	EPA 200.7 R4.4 04KS
Iron	600 mg/L		08/23/13 10:10	WPS	EPA 200.7 R4.4 04KS
Lead	< 0.10 mg/L		08/23/13 11:03	WPS	EPA 200.7 R4.4 04KS
Magnesium	380 mg/L		08/23/13 10:10	WPS	EPA 200.7 R4.4 04KS
Manganese	59 mg/L		08/23/13 11:03	WPS	EPA 200.7 R4.4 04KS
Molybdenum	< 0.12 mg/L		08/23/13 11:03	WPS	EPA 200.7 R4.4 04KS
Nickel	0.11 mg/L		08/23/13 11:03	WPS	EPA 200.7 R4.4 04KS
Potassium	650 mg/L		08/23/13 10:10	WPS	EPA 200.7 R4.4* 04KS
Selenium	< 0.10 mg/L		08/23/13 11:03	WPS	EPA 200.7 R4.4 04KS
Sodium	1900 mg/L		08/23/13 10:10	WPS	EPA 200.7 R4.4* 04KS
Thallium	< 0.20 mg/L		08/23/13 11:03	WPS	EPA 200.7 R4.4 04KS
Vanadium	0.038 mg/L		08/23/13 11:03	WPS	EPA 200.7 R4.4 04KS
Zinc	8.8 mg/L		08/23/13 11:03	WPS	EPA 200.7 R4.4 04KS
Silicon	55 mg/L		08/23/13 11:03	WPS	EPA 200.7 R4.4* 04KS
<b>Total Metals - STL</b>					
Silicon as SiO2	160 mg/L		08/23/13 11:07	WPS	EPA 200.7 R4.4 04KS
Aluminum	7.8 mg/L		08/23/13 11:07	WPS	EPA 200.7 R4.4* 04KS
Mercury	0.022 mg/L		08/22/13 14:14	KAE	EPA 245.1 R3.0 / SW 7470A 04KS
Antimony	< 0.10 mg/L		08/23/13 11:07	WPS	EPA 200.7 R4.4 04KS
Silicon	75 mg/L		08/23/13 11:07	WPS	EPA 200.7 R4.4* 04KS
Arsenic	0.81 mg/L		08/23/13 11:07	WPS	EPA 200.7 R4.4 04KS



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Sample No: **3083069-01**  
Sample Description: **Location 1A**

Collect Date: **08/19/13 12:17**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b>Total Metals - STL</b>					
Barium	4.4 mg/L		08/23/13 11:07	WPS	EPA 200.7 R4.4 04KS
Beryllium	< 0.010 mg/L		08/23/13 11:07	WPS	EPA 200.7 R4.4 04KS
Hardness	12000 mg/L		08/23/13 10:14	WPS	SM 2340B
Boron	20 mg/L		08/23/13 11:07	WPS	EPA 200.7 R4.4*
Cadmium	0.045 mg/L		08/23/13 11:07	WPS	EPA 200.7 R4.4 04KS
Calcium	4000 mg/L		08/23/13 09:17	WPS	EPA 200.7 R4.4 04KS
Chromium	0.28 mg/L		08/23/13 11:07	WPS	EPA 200.7 R4.4 04KS
Cobalt	0.063 mg/L		08/23/13 11:07	WPS	EPA 200.7 R4.4 04KS
Copper	0.035 mg/L		08/23/13 11:07	WPS	EPA 200.7 R4.4 04KS
Iron	750 mg/L		08/23/13 10:14	WPS	EPA 200.7 R4.4 04KS
Lead	0.14 mg/L		08/23/13 11:07	WPS	EPA 200.7 R4.4 04KS
Magnesium	410 mg/L		08/23/13 10:14	WPS	EPA 200.7 R4.4 04KS
Manganese	60 mg/L		08/23/13 11:07	WPS	EPA 200.7 R4.4 04KS
Molybdenum	< 0.12 mg/L		08/23/13 11:07	WPS	EPA 200.7 R4.4 04KS
Nickel	0.14 mg/L		08/23/13 11:07	WPS	EPA 200.7 R4.4 04KS
Potassium	700 mg/L		08/23/13 10:14	WPS	EPA 200.7 R4.4*
Selenium	< 0.10 mg/L		08/23/13 11:07	WPS	EPA 200.7 R4.4 04KS
Silver	< 0.020 mg/L		08/23/13 11:07	WPS	EPA 200.7 R4.4 04KS
Sodium	2900 mg/L		08/23/13 09:17	WPS	EPA 200.7 R4.4*
Thallium	< 0.20 mg/L		08/23/13 11:07	WPS	EPA 200.7 R4.4 04KS
Vanadium	0.068 mg/L		08/23/13 11:07	WPS	EPA 200.7 R4.4 04KS
Zinc	9.7 mg/L		08/23/13 11:07	WPS	EPA 200.7 R4.4 04KS

Sample No: **3083069-02**  
Sample Description: **Location 1D**

Collect Date: **08/19/13 13:01**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b>Anions - STL</b>					
Chloride	4500 mg/L		08/21/13 17:19	DWM	EPA 300.0 R2.1 04KS
Nitrate-N	< 50 mg/L		08/20/13 16:25	DWM	EPA 300.0 R2.1 04KS
Nitrite-N	< 50 mg/L		08/20/13 16:25	DWM	EPA 300.0 R2.1 04KS
Sulfate	< 2000 mg/L		08/21/13 17:19	DWM	EPA 300.0 R2.1 04KS



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**\*Laboratory Results\***

Sample No: **3083069-02**  
Sample Description: **Location 1D**

Collect Date: **08/19/13 13:01**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method	
<b><u>General Chemistry - PIA</u></b>						
Total Organic Carbon (TOC)	17000 mg/L		08/22/13 19:47	lgsjw	5310C	KS,IL,IA,WI,AR
<b><u>General Chemistry - STL</u></b>						
Alkalinity - total as CaCO3	7700 mg/L		08/20/13 14:00	ACV	SM 2320B 18Ed*	
BOD	31000 mg/L		08/21/13 11:30	DAW	SM 5210B 18Ed	04KS
BOD - soluble	30000 mg/L		08/21/13 11:30	DAW	SM 5210B 18Ed*	
COD	57000 mg/L		08/21/13 13:15	DAW	SM 5220D 18Ed	04KS
Cyanide	0.013 mg/L		08/21/13 14:30	DWM	SM 4500-CN C E 18Ed*	
Cyanide - amenable	< 0.0050 mg/L		08/23/13 12:00	DWM	SM 4500CN CG 18Ed*	
Cyanide - weak acid dissociable	0.018 mg/L		08/21/13 14:30	DWM	ASTM 1310-86*	
Oil & Grease - total	< 6.0 mg/L		08/21/13 09:00	mep	EPA 1664A	04KS
Phenol	68 mg/L		08/26/13 12:00	DWM	EPA 420.1	04KS
Solids - total dissolved solids (TDS)	49000 mg/L		08/22/13 12:00	DAW	SM 2540C 18Ed*	
Solids - total suspended solids (TSS)	61 mg/L		08/21/13 15:00	DAW	SM 2540D 18Ed	04KS
<b><u>Nutrients - PIA</u></b>						
Total Kjeldahl Nitrogen (TKN)	1400 mg/L		08/22/13 15:26	lgthh	SM 4500-N B & NH3-H 18Ed MOD	IL,IA,WI,AR
<b><u>Nutrients - STL</u></b>						
Ammonia-N	800 mg/L		08/21/13 12:30	ACV	SM(18) 4500 NH3 F	04KS
Phosphorus - ortho as P	< 5.0 mg/L	H	08/22/13 14:30	ACV	SM 4500P B E 18ed*	
Phosphorus - total as P	< 5.0 mg/L		08/22/13 11:15	ACV	SM 4500P B E 18ed	04KS
<b><u>Semivolatile Organics - STL</u></b>						
1,2,4-Trichlorobenzene	< 500 ug/L	X	08/22/13 07:59	jk	EPA 625	04KS
1,2-Dichlorobenzene	< 500 ug/L	X	08/22/13 07:59	jk	EPA 625*	
1,3-Dichlorobenzene	< 500 ug/L	X	08/22/13 07:59	jk	EPA 625*	
1,4-Dichlorobenzene	< 500 ug/L	X	08/22/13 07:59	jk	EPA 625*	
2,4,5-Trichlorophenol	< 500 ug/L	X	08/22/13 07:59	jk	EPA 625*	
2,4,6-Trichlorophenol	< 500 ug/L	X	08/22/13 07:59	jk	EPA 625	04KS
2,4-Dichlorophenol	< 500 ug/L	X	08/22/13 07:59	jk	EPA 625	04KS
2,4-Dimethylphenol	< 500 ug/L	X	08/22/13 07:59	jk	EPA 625	04KS





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**\*Laboratory Results\***

Sample No: **3083069-02**  
Sample Description: **Location 1D**

Collect Date: **08/19/13 13:01**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method	
<b>Semivolatile Organics - STL</b>						
2,4-Dinitrophenol	< 500 ug/L	X	08/22/13 07:59	jk	EPA 625	04KS
2,4-Dinitrotoluene	< 500 ug/L	X	08/22/13 07:59	jk	EPA 625	04KS
2,6-Dimethylaniline	< 250 ug/L	X	08/22/13 07:59	jk	EPA 625*	
2,6-Dinitrotoluene	< 500 ug/L	X	08/22/13 07:59	jk	EPA 625	04KS
2-Chloronaphthalene	< 500 ug/L	X	08/22/13 07:59	jk	EPA 625	04KS
2-Chlorophenol	< 500 ug/L	X	08/22/13 07:59	jk	EPA 625	04KS
2-Nitrophenol	< 500 ug/L	X	08/22/13 07:59	jk	EPA 625	04KS
3,3'-Dichlorobenzidine	< 500 ug/L	X	08/22/13 07:59	jk	EPA 625	04KS
4,6-Dinitro-2-methylphenol	< 500 ug/L	X	08/22/13 07:59	jk	EPA 625*	
4-Bromophenyl phenyl ether	< 500 ug/L	X	08/22/13 07:59	jk	EPA 625	04KS
4-Chloro-3-methylphenol	< 500 ug/L	X	08/22/13 07:59	jk	EPA 625	04KS
4-Chlorophenylphenyl ether	< 500 ug/L	X	08/22/13 07:59	jk	EPA 625	04KS
4-Nitrophenol	< 500 ug/L	X	08/22/13 07:59	jk	EPA 625	04KS
Acenaphthene	< 500 ug/L	X	08/22/13 07:59	jk	EPA 625	04KS
Acenaphthylene	< 500 ug/L	X	08/22/13 07:59	jk	EPA 625	04KS
Anthracene	< 500 ug/L	X	08/22/13 07:59	jk	EPA 625	04KS
Azobenzene	< 500 ug/L	X	08/22/13 07:59	jk	EPA 625*	
Benzidine	< 500 ug/L	X	08/22/13 07:59	jk	EPA 625*	
Benzo(a)anthracene	< 500 ug/L	X	08/22/13 07:59	jk	EPA 625	04KS
Benzo(a)pyrene	< 500 ug/L	X	08/22/13 07:59	jk	EPA 625	04KS
Benzo(b&k)fluoranthene	< 500 ug/L	X	08/22/13 07:59	jk	EPA 625	04KS
Benzo(b)fluoranthene	< 500 ug/L	X	08/22/13 07:59	jk	EPA 625	04KS
Benzo(g,h,i)perylene	< 500 ug/L	X	08/22/13 07:59	jk	EPA 625	04KS
Benzo(k)fluoranthene	< 500 ug/L	X	08/22/13 07:59	jk	EPA 625	04KS
Bis(2-chloroethoxy) methane	< 500 ug/L	X	08/22/13 07:59	jk	EPA 625	04KS
Bis(2-chloroethyl) ether	< 500 ug/L	X	08/22/13 07:59	jk	EPA 625	04KS
Bis(2-chloroisopropyl) ether	< 500 ug/L	X	08/22/13 07:59	jk	EPA 625	04KS
Bis(2-ethylhexyl) phthalate	< 500 ug/L	X	08/22/13 07:59	jk	EPA 625	04KS
Butyl benzyl phthalate	< 500 ug/L	X	08/22/13 07:59	jk	EPA 625	04KS
Chrysene	< 500 ug/L	X	08/22/13 07:59	jk	EPA 625	04KS
Dibenzo(a,h)anthracene	< 500 ug/L	X	08/22/13 07:59	jk	EPA 625	04KS
Diethyl phthalate	< 500 ug/L	X	08/22/13 07:59	jk	EPA 625	04KS
Dimethyl phthalate	< 500 ug/L	X	08/22/13 07:59	jk	EPA 625	04KS



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Bridgeton Landfill  
13570 St Charles Rock Road  
St. Louis, MO 63044  
Attn: Dan Feezor

Date Received: 08/20/13 12:28  
Report Date: 08/27/13  
Customer #: 277310

**\*Laboratory Results\***

Sample No: **3083069-02**  
Sample Description: **Location 1D**

Collect Date: **08/19/13 13:01**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b>Semivolatile Organics - STL</b>					
Di-n-butyl phthalate	< 500 ug/L	X	08/22/13 07:59	jk	EPA 625 04KS
Di-n-octyl phthalate	< 500 ug/L	X	08/22/13 07:59	jk	EPA 625 04KS
Diphenylamine	< 500 ug/L	X	08/22/13 07:59	jk	EPA 625 04KS
Fluoranthene	< 500 ug/L	X	08/22/13 07:59	jk	EPA 625 04KS
Fluorene	< 500 ug/L	X	08/22/13 07:59	jk	EPA 625 04KS
Hexachlorobenzene	< 500 ug/L	X	08/22/13 07:59	jk	EPA 625 04KS
Hexachlorobutadiene	< 500 ug/L	X	08/22/13 07:59	jk	EPA 625 04KS
Hexachlorocyclopentadiene	< 500 ug/L	X	08/22/13 07:59	jk	EPA 625 04KS
Hexachloroethane	< 500 ug/L	X	08/22/13 07:59	jk	EPA 625 04KS
Indeno(1,2,3-cd)pyrene	< 500 ug/L	X	08/22/13 07:59	jk	EPA 625 04KS
Isophorone	< 500 ug/L	X	08/22/13 07:59	jk	EPA 625 04KS
Naphthalene	< 500 ug/L	X	08/22/13 07:59	jk	EPA 625 04KS
Nitrobenzene	< 500 ug/L	X	08/22/13 07:59	jk	EPA 625 04KS
N-Nitrosodimethylamine	< 500 ug/L	X	08/22/13 07:59	jk	EPA 625 04KS
N-Nitrosodi-n-propylamine	< 500 ug/L	X	08/22/13 07:59	jk	EPA 625 04KS
Pentachlorophenol	< 500 ug/L	X	08/22/13 07:59	jk	EPA 625 04KS
Phenanthrene	< 500 ug/L	X	08/22/13 07:59	jk	EPA 625 04KS
Phenol	4080 ug/L	Xa	08/22/13 07:59	jk	EPA 625 04KS
Pyrene	< 500 ug/L	X	08/22/13 07:59	jk	EPA 625 04KS
Surrogate: 2-Fluorophenol	3 % 10-101	S, X	08/22/13 07:59	jk	EPA 625
Surrogate: Phenol- d5	17 % 10-154	S, X	08/22/13 07:59	jk	EPA 625
Surrogate: Nitrobenzene-d5	% 10-119	S, X	08/22/13 07:59	jk	EPA 625
Surrogate: 2-Fluorobiphenyl	75 % 10-98	S, X	08/22/13 07:59	jk	EPA 625
Surrogate: 2,4,6-Tribromophenol	35 % 10-69	S, X	08/22/13 07:59	jk	EPA 625
Surrogate: p-Terphenyl-d14	82 % 11-97	S, X	08/22/13 07:59	jk	EPA 625
<b>Soluble Metals - STL</b>					
Silicon as SiO2	88 mg/L		08/23/13 11:11	WPS	EPA 200.7 R4.4
Aluminum	0.21 mg/L		08/23/13 11:11	WPS	EPA 200.7 R4.4*
Mercury	< 0.0020 mg/L		08/22/13 14:14	KAE	EPA 245.1 R3.0 / SW 7470A 04KS
Antimony	< 0.10 mg/L		08/23/13 11:11	WPS	EPA 200.7 R4.4 04KS
Copper	< 0.020 mg/L		08/23/13 11:11	WPS	EPA 200.7 R4.4 04KS
Silver	< 0.020 mg/L		08/23/13 11:11	WPS	EPA 200.7 R4.4 04KS



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St. Louis, MO 63044  
Attn: Dan Feezor

Date Received: 08/20/13 12:28  
Report Date: 08/27/13  
Customer #: 277310

**\*Laboratory Results\***

Sample No: **3083069-02**  
Sample Description: **Location 1D**

Collect Date: **08/19/13 13:01**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b><u>Soluble Metals - STL</u></b>					
Arsenic	0.73 mg/L		08/23/13 11:11	WPS	EPA 200.7 R4.4 04KS
Barium	3.3 mg/L		08/23/13 11:11	WPS	EPA 200.7 R4.4 04KS
Beryllium	< 0.010 mg/L		08/23/13 11:11	WPS	EPA 200.7 R4.4 04KS
Boron	18 mg/L		08/23/13 11:11	WPS	EPA 200.7 R4.4*
Cadmium	< 0.020 mg/L		08/23/13 11:11	WPS	EPA 200.7 R4.4 04KS
Calcium	3500 mg/L		08/23/13 09:21	WPS	EPA 200.7 R4.4 04KS
Chromium	0.17 mg/L		08/23/13 11:11	WPS	EPA 200.7 R4.4 04KS
Cobalt	0.035 mg/L		08/23/13 11:11	WPS	EPA 200.7 R4.4 04KS
Iron	160 mg/L		08/23/13 10:18	WPS	EPA 200.7 R4.4 04KS
Lead	< 0.10 mg/L		08/23/13 11:11	WPS	EPA 200.7 R4.4 04KS
Magnesium	340 mg/L		08/23/13 10:18	WPS	EPA 200.7 R4.4 04KS
Manganese	32 mg/L		08/23/13 11:11	WPS	EPA 200.7 R4.4 04KS
Molybdenum	< 0.12 mg/L		08/23/13 11:11	WPS	EPA 200.7 R4.4 04KS
Nickel	0.12 mg/L		08/23/13 11:11	WPS	EPA 200.7 R4.4 04KS
Potassium	670 mg/L		08/23/13 10:18	WPS	EPA 200.7 R4.4*
Selenium	< 0.10 mg/L		08/23/13 11:11	WPS	EPA 200.7 R4.4 04KS
Sodium	3600 mg/L		08/23/13 09:21	WPS	EPA 200.7 R4.4*
Thallium	0.22 mg/L		08/23/13 11:11	WPS	EPA 200.7 R4.4 04KS
Vanadium	0.040 mg/L		08/23/13 11:11	WPS	EPA 200.7 R4.4 04KS
Zinc	1.7 mg/L		08/23/13 11:11	WPS	EPA 200.7 R4.4 04KS
Silicon	41 mg/L		08/23/13 11:11	WPS	EPA 200.7 R4.4*
<b><u>Total Metals - STL</u></b>					
Silicon as SiO2	90 mg/L		08/23/13 11:15	WPS	EPA 200.7 R4.4
Aluminum	0.24 mg/L		08/23/13 11:15	WPS	EPA 200.7 R4.4*
Mercury	0.0020 mg/L		08/22/13 14:14	KAE	EPA 245.1 R3.0 / SW 7470A 04KS
Antimony	< 0.10 mg/L		08/23/13 11:15	WPS	EPA 200.7 R4.4 04KS
Silicon	42 mg/L		08/23/13 11:15	WPS	EPA 200.7 R4.4*
Arsenic	0.76 mg/L		08/23/13 11:15	WPS	EPA 200.7 R4.4 04KS
Barium	3.4 mg/L		08/23/13 11:15	WPS	EPA 200.7 R4.4 04KS
Beryllium	< 0.010 mg/L		08/23/13 11:15	WPS	EPA 200.7 R4.4 04KS
Hardness	11000 mg/L		08/23/13 10:22	WPS	SM 2340B
Boron	19 mg/L		08/23/13 11:15	WPS	EPA 200.7 R4.4*
Cadmium	< 0.020 mg/L		08/23/13 11:15	WPS	EPA 200.7 R4.4 04KS



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Bridgeton Landfill  
13570 St Charles Rock Road  
St. Louis, MO 63044  
Attn: Dan Feezor

Date Received: 08/20/13 12:28  
Report Date: 08/27/13  
Customer #: 277310

**\*Laboratory Results\***

Sample No: **3083069-02**  
Sample Description: **Location 1D**

Collect Date: **08/19/13 13:01**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b>Total Metals - STL</b>					
Calcium	3700 mg/L		08/23/13 09:25	WPS	EPA 200.7 R4.4 04KS
Chromium	0.18 mg/L		08/23/13 11:15	WPS	EPA 200.7 R4.4 04KS
Cobalt	0.034 mg/L		08/23/13 11:15	WPS	EPA 200.7 R4.4 04KS
Copper	< 0.020 mg/L		08/23/13 11:15	WPS	EPA 200.7 R4.4 04KS
Iron	170 mg/L		08/23/13 10:22	WPS	EPA 200.7 R4.4 04KS
Lead	< 0.10 mg/L		08/23/13 11:15	WPS	EPA 200.7 R4.4 04KS
Magnesium	360 mg/L		08/23/13 10:22	WPS	EPA 200.7 R4.4 04KS
Manganese	33 mg/L		08/23/13 11:15	WPS	EPA 200.7 R4.4 04KS
Molybdenum	< 0.12 mg/L		08/23/13 11:15	WPS	EPA 200.7 R4.4 04KS
Nickel	0.13 mg/L		08/23/13 11:15	WPS	EPA 200.7 R4.4 04KS
Potassium	710 mg/L		08/23/13 10:22	WPS	EPA 200.7 R4.4*
Selenium	< 0.10 mg/L		08/23/13 11:15	WPS	EPA 200.7 R4.4 04KS
Silver	< 0.020 mg/L		08/23/13 11:15	WPS	EPA 200.7 R4.4 04KS
Sodium	3800 mg/L		08/23/13 09:25	WPS	EPA 200.7 R4.4*
Thallium	< 0.20 mg/L		08/23/13 11:15	WPS	EPA 200.7 R4.4 04KS
Vanadium	0.040 mg/L		08/23/13 11:15	WPS	EPA 200.7 R4.4 04KS
Zinc	1.8 mg/L		08/23/13 11:15	WPS	EPA 200.7 R4.4 04KS

Sample No: **3083069-03**  
Sample Description: **Location 1E**

Collect Date: **08/19/13 12:40**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b>Anions - STL</b>					
Chloride	4700 mg/L		08/21/13 17:37	DWM	EPA 300.0 R2.1 04KS
Nitrate-N	< 50 mg/L		08/20/13 16:42	DWM	EPA 300.0 R2.1 04KS
Nitrite-N	< 50 mg/L		08/20/13 16:42	DWM	EPA 300.0 R2.1 04KS
Sulfate	< 2000 mg/L		08/21/13 17:37	DWM	EPA 300.0 R2.1 04KS
<b>General Chemistry - PIA</b>					
Total Organic Carbon (TOC)	22000 mg/L		08/22/13 19:54	lgsjw	5310C KS,IL,IA,WI,AR
<b>General Chemistry - STL</b>					
Alkalinity - total as CaCO3	9400 mg/L		08/20/13 14:00	ACV	SM 2320B 18Ed*

3083069



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Customer #: 277310

**\*Laboratory Results\***

Sample No: **3083069-03**  
Sample Description: **Location 1E**

Collect Date: **08/19/13 12:40**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b><u>General Chemistry - STL</u></b>					
BOD	32000 mg/L		08/21/13 11:30	DAW	SM 5210B 18Ed 04KS
BOD - soluble	30000 mg/L		08/21/13 11:30	DAW	SM 5210B 18Ed*
COD	58000 mg/L		08/21/13 13:15	DAW	SM 5220D 18Ed 04KS
Cyanide	0.012 mg/L		08/21/13 14:30	DWM	SM 4500-CN C E 18Ed*
Cyanide - amenable	< 0.0050 mg/L		08/23/13 12:00	DWM	SM 4500CN CG 18Ed*
Cyanide - weak acid dissociable	0.017 mg/L		08/21/13 14:30	DWM	ASTM 1310-86*
Oil & Grease - total	< 16 mg/L		08/21/13 09:00	mep	EPA 1664A 04KS
Phenol	77 mg/L		08/26/13 12:00	DWM	EPA 420.1 04KS
Solids - total dissolved solids (TDS)	46000 mg/L		08/22/13 12:00	DAW	SM 2540C 18Ed*
Solids - total suspended solids (TSS)	700 mg/L		08/21/13 15:00	DAW	SM 2540D 18Ed 04KS
<b><u>Nutrients - PIA</u></b>					
Total Kjeldahl Nitrogen (TKN)	1400 mg/L		08/22/13 15:27	lgthh	SM 4500-N B & NH3-H 18Ed MOD IL,IA,WI,AR
<b><u>Nutrients - STL</u></b>					
Ammonia-N	840 mg/L		08/21/13 12:30	ACV	SM(18) 4500 NH3 F 04KS
Phosphorus - ortho as P	< 5.0 mg/L	H	08/22/13 14:30	ACV	SM 4500P B E 18ed*
Phosphorus - total as P	5.4 mg/L		08/22/13 11:15	ACV	SM 4500P B E 18ed 04KS
<b><u>Semivolatile Organics - STL</u></b>					
1,2,4-Trichlorobenzene	< 500 ug/L		08/22/13 08:43	jk	EPA 625 04KS
1,2-Dichlorobenzene	< 500 ug/L		08/22/13 08:43	jk	EPA 625*
1,3-Dichlorobenzene	< 500 ug/L		08/22/13 08:43	jk	EPA 625*
1,4-Dichlorobenzene	< 500 ug/L		08/22/13 08:43	jk	EPA 625*
2,4,5-Trichlorophenol	< 500 ug/L		08/22/13 08:43	jk	EPA 625*
2,4,6-Trichlorophenol	< 500 ug/L		08/22/13 08:43	jk	EPA 625 04KS
2,4-Dichlorophenol	< 500 ug/L		08/22/13 08:43	jk	EPA 625 04KS
2,4-Dimethylphenol	< 500 ug/L		08/22/13 08:43	jk	EPA 625 04KS
2,4-Dinitrophenol	< 500 ug/L		08/22/13 08:43	jk	EPA 625 04KS
2,4-Dinitrotoluene	< 500 ug/L		08/22/13 08:43	jk	EPA 625 04KS
2,6-Dimethylaniline	< 250 ug/L		08/22/13 08:43	jk	EPA 625*
2,6-Dinitrotoluene	< 500 ug/L		08/22/13 08:43	jk	EPA 625 04KS



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Sample No: **3083069-03**  
Sample Description: **Location 1E**

Collect Date: **08/19/13 12:40**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b>Semivolatile Organics - STL</b>					
2-Chloronaphthalene	< 500 ug/L		08/22/13 08:43	jk	EPA 625 04KS
2-Chlorophenol	< 500 ug/L		08/22/13 08:43	jk	EPA 625 04KS
2-Nitrophenol	< 500 ug/L		08/22/13 08:43	jk	EPA 625 04KS
3,3'-Dichlorobenzidine	< 500 ug/L		08/22/13 08:43	jk	EPA 625 04KS
4,6-Dinitro-2-methylphenol	< 500 ug/L		08/22/13 08:43	jk	EPA 625*
4-Bromophenyl phenyl ether	< 500 ug/L		08/22/13 08:43	jk	EPA 625 04KS
4-Chloro-3-methylphenol	< 500 ug/L		08/22/13 08:43	jk	EPA 625 04KS
4-Chlorophenylphenyl ether	< 500 ug/L		08/22/13 08:43	jk	EPA 625 04KS
4-Nitrophenol	< 500 ug/L		08/22/13 08:43	jk	EPA 625 04KS
Acenaphthene	< 500 ug/L		08/22/13 08:43	jk	EPA 625 04KS
Acenaphthylene	< 500 ug/L		08/22/13 08:43	jk	EPA 625 04KS
Anthracene	< 500 ug/L		08/22/13 08:43	jk	EPA 625 04KS
Azobenzene	< 500 ug/L		08/22/13 08:43	jk	EPA 625*
Benzidine	< 500 ug/L		08/22/13 08:43	jk	EPA 625*
Benzo(a)anthracene	< 500 ug/L		08/22/13 08:43	jk	EPA 625 04KS
Benzo(a)pyrene	< 500 ug/L		08/22/13 08:43	jk	EPA 625 04KS
Benzo(b&k)fluoranthene	< 500 ug/L		08/22/13 08:43	jk	EPA 625 04KS
Benzo(b)fluoranthene	< 500 ug/L		08/22/13 08:43	jk	EPA 625 04KS
Benzo(g,h,i)perylene	< 500 ug/L		08/22/13 08:43	jk	EPA 625 04KS
Benzo(k)fluoranthene	< 500 ug/L		08/22/13 08:43	jk	EPA 625 04KS
Bis(2-chloroethoxy) methane	< 500 ug/L		08/22/13 08:43	jk	EPA 625 04KS
Bis(2-chloroethyl) ether	< 500 ug/L		08/22/13 08:43	jk	EPA 625 04KS
Bis(2-chloroisopropyl) ether	< 500 ug/L		08/22/13 08:43	jk	EPA 625 04KS
Bis(2-ethylhexyl) phthalate	< 500 ug/L		08/22/13 08:43	jk	EPA 625 04KS
Butyl benzyl phthalate	< 500 ug/L		08/22/13 08:43	jk	EPA 625 04KS
Chrysene	< 500 ug/L		08/22/13 08:43	jk	EPA 625 04KS
Dibenzo(a,h)anthracene	< 500 ug/L		08/22/13 08:43	jk	EPA 625 04KS
Diethyl phthalate	< 500 ug/L		08/22/13 08:43	jk	EPA 625 04KS
Dimethyl phthalate	< 500 ug/L		08/22/13 08:43	jk	EPA 625 04KS
Di-n-butyl phthalate	< 500 ug/L		08/22/13 08:43	jk	EPA 625 04KS
Di-n-octyl phthalate	< 500 ug/L		08/22/13 08:43	jk	EPA 625 04KS
Diphenylamine	< 500 ug/L		08/22/13 08:43	jk	EPA 625 04KS
Fluoranthene	< 500 ug/L		08/22/13 08:43	jk	EPA 625 04KS



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**\*Laboratory Results\***

Sample No: **3083069-03**  
Sample Description: **Location 1E**

Collect Date: **08/19/13 12:40**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b>Semivolatile Organics - STL</b>					
Fluorene	< 500 ug/L		08/22/13 08:43	jk	EPA 625 04KS
Hexachlorobenzene	< 500 ug/L		08/22/13 08:43	jk	EPA 625 04KS
Hexachlorobutadiene	< 500 ug/L		08/22/13 08:43	jk	EPA 625 04KS
Hexachlorocyclopentadiene	< 500 ug/L		08/22/13 08:43	jk	EPA 625 04KS
Hexachloroethane	< 500 ug/L		08/22/13 08:43	jk	EPA 625 04KS
Indeno(1,2,3-cd)pyrene	< 500 ug/L		08/22/13 08:43	jk	EPA 625 04KS
Isophorone	< 500 ug/L		08/22/13 08:43	jk	EPA 625 04KS
Naphthalene	< 500 ug/L		08/22/13 08:43	jk	EPA 625 04KS
Nitrobenzene	< 500 ug/L		08/22/13 08:43	jk	EPA 625 04KS
N-Nitrosodimethylamine	< 500 ug/L		08/22/13 08:43	jk	EPA 625 04KS
N-Nitrosodi-n-propylamine	< 500 ug/L		08/22/13 08:43	jk	EPA 625 04KS
Pentachlorophenol	< 500 ug/L		08/22/13 08:43	jk	EPA 625 04KS
Phenanthrene	< 500 ug/L		08/22/13 08:43	jk	EPA 625 04KS
Phenol	4920 ug/L	Xa	08/22/13 08:43	jk	EPA 625 04KS
Pyrene	< 500 ug/L		08/22/13 08:43	jk	EPA 625 04KS
Surrogate: 2-Fluorophenol	3 % 10-101	S	08/22/13 08:43	jk	EPA 625
Surrogate: Phenol- d5	17 % 10-154	S	08/22/13 08:43	jk	EPA 625
Surrogate: Nitrobenzene-d5	% 10-119	S	08/22/13 08:43	jk	EPA 625
Surrogate: 2-Fluorobiphenyl	16 % 10-98	S	08/22/13 08:43	jk	EPA 625
Surrogate: 2,4,6-Tribromophenol	9 % 10-69	S	08/22/13 08:43	jk	EPA 625
Surrogate: p-Terphenyl-d14	21 % 11-97	S	08/22/13 08:43	jk	EPA 625
<b>Soluble Metals - STL</b>					
Silicon as SiO2	83 mg/L		08/23/13 11:19	WPS	EPA 200.7 R4.4
Aluminum	0.23 mg/L		08/23/13 11:19	WPS	EPA 200.7 R4.4*
Mercury	0.25 mg/L		08/22/13 14:14	KAE	EPA 245.1 R3.0 / 04KS SW 7470A
Antimony	< 0.10 mg/L		08/23/13 11:19	WPS	EPA 200.7 R4.4 04KS
Copper	< 0.020 mg/L		08/23/13 11:19	WPS	EPA 200.7 R4.4 04KS
Silver	< 0.020 mg/L		08/23/13 11:19	WPS	EPA 200.7 R4.4 04KS
Arsenic	0.74 mg/L		08/23/13 11:19	WPS	EPA 200.7 R4.4 04KS
Barium	3.1 mg/L		08/23/13 11:19	WPS	EPA 200.7 R4.4 04KS
Beryllium	< 0.010 mg/L		08/23/13 11:19	WPS	EPA 200.7 R4.4 04KS
Boron	17 mg/L		08/23/13 11:19	WPS	EPA 200.7 R4.4*



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Bridgeton Landfill  
13570 St Charles Rock Road  
St. Louis, MO 63044  
Attn: Dan Feezor

Date Received: 08/20/13 12:28  
Report Date: 08/27/13  
Customer #: 277310

**\*Laboratory Results\***

Sample No: **3083069-03**  
Sample Description: **Location 1E**

Collect Date: **08/19/13 12:40**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b><u>Soluble Metals - STL</u></b>					
Cadmium	< 0.020 mg/L		08/23/13 11:19	WPS	EPA 200.7 R4.4 04KS
Calcium	3400 mg/L		08/23/13 09:29	WPS	EPA 200.7 R4.4 04KS
Chromium	0.17 mg/L		08/23/13 11:19	WPS	EPA 200.7 R4.4 04KS
Cobalt	0.041 mg/L		08/23/13 11:19	WPS	EPA 200.7 R4.4 04KS
Iron	110 mg/L		08/23/13 11:19	WPS	EPA 200.7 R4.4 04KS
Lead	< 0.10 mg/L		08/23/13 11:19	WPS	EPA 200.7 R4.4 04KS
Magnesium	340 mg/L		08/23/13 10:26	WPS	EPA 200.7 R4.4 04KS
Manganese	32 mg/L		08/23/13 11:19	WPS	EPA 200.7 R4.4 04KS
Molybdenum	< 0.12 mg/L		08/23/13 11:19	WPS	EPA 200.7 R4.4 04KS
Nickel	0.13 mg/L		08/23/13 11:19	WPS	EPA 200.7 R4.4 04KS
Potassium	630 mg/L		08/23/13 10:26	WPS	EPA 200.7 R4.4*
Selenium	0.15 mg/L		08/23/13 11:19	WPS	EPA 200.7 R4.4 04KS
Sodium	3600 mg/L		08/23/13 09:29	WPS	EPA 200.7 R4.4*
Thallium	< 0.20 mg/L		08/23/13 11:19	WPS	EPA 200.7 R4.4 04KS
Vanadium	0.028 mg/L		08/23/13 11:19	WPS	EPA 200.7 R4.4 04KS
Zinc	1.7 mg/L		08/23/13 11:19	WPS	EPA 200.7 R4.4 04KS
Silicon	39 mg/L		08/23/13 11:19	WPS	EPA 200.7 R4.4*
<b><u>Total Metals - STL</u></b>					
Silicon as SiO2	660 mg/L		08/23/13 11:23	WPS	EPA 200.7 R4.4
Aluminum	100 mg/L		08/23/13 11:23	WPS	EPA 200.7 R4.4*
Mercury	0.25 mg/L		08/22/13 14:14	KAE	EPA 245.1 R3.0 / SW 7470A 04KS
Antimony	< 0.10 mg/L		08/23/13 11:23	WPS	EPA 200.7 R4.4 04KS
Silicon	310 mg/L		08/23/13 11:23	WPS	EPA 200.7 R4.4*
Arsenic	0.98 mg/L		08/23/13 11:23	WPS	EPA 200.7 R4.4 04KS
Barium	19 mg/L		08/23/13 11:23	WPS	EPA 200.7 R4.4 04KS
Beryllium	0.011 mg/L		08/23/13 11:23	WPS	EPA 200.7 R4.4 04KS
Hardness	13000 mg/L		08/23/13 10:30	WPS	SM 2340B
Boron	23 mg/L		08/23/13 11:23	WPS	EPA 200.7 R4.4*
Cadmium	0.15 mg/L		08/23/13 11:23	WPS	EPA 200.7 R4.4 04KS
Calcium	4200 mg/L		08/23/13 09:33	WPS	EPA 200.7 R4.4 04KS
Chromium	0.64 mg/L		08/23/13 11:23	WPS	EPA 200.7 R4.4 04KS
Cobalt	0.21 mg/L		08/23/13 11:23	WPS	EPA 200.7 R4.4 04KS
Copper	0.32 mg/L		08/23/13 11:23	WPS	EPA 200.7 R4.4 04KS





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Bridgeton Landfill  
13570 St Charles Rock Road  
St. Louis, MO 63044  
Attn: Dan Feezor

Date Received: 08/20/13 12:28  
Report Date: 08/27/13  
Customer #: 277310

**\*Laboratory Results\***

Sample No: **3083069-03**  
Sample Description: **Location 1E**

Collect Date: **08/19/13 12:40**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b><u>Total Metals - STL</u></b>					
Iron	2100 mg/L		08/23/13 10:30	WPS	EPA 200.7 R4.4 04KS
Lead	0.79 mg/L		08/23/13 11:23	WPS	EPA 200.7 R4.4 04KS
Magnesium	520 mg/L		08/23/13 10:30	WPS	EPA 200.7 R4.4 04KS
Manganese	110 mg/L		08/23/13 11:23	WPS	EPA 200.7 R4.4 04KS
Molybdenum	< 0.12 mg/L		08/23/13 11:23	WPS	EPA 200.7 R4.4 04KS
Nickel	0.36 mg/L		08/23/13 11:23	WPS	EPA 200.7 R4.4 04KS
Potassium	700 mg/L		08/23/13 10:30	WPS	EPA 200.7 R4.4*
Selenium	< 0.10 mg/L		08/23/13 11:23	WPS	EPA 200.7 R4.4 04KS
Silver	< 0.020 mg/L		08/23/13 11:23	WPS	EPA 200.7 R4.4 04KS
Sodium	3700 mg/L		08/23/13 09:33	WPS	EPA 200.7 R4.4*
Thallium	< 0.20 mg/L		08/23/13 11:23	WPS	EPA 200.7 R4.4 04KS
Vanadium	0.36 mg/L		08/23/13 11:23	WPS	EPA 200.7 R4.4 04KS
Zinc	29 mg/L		08/23/13 11:23	WPS	EPA 200.7 R4.4 04KS

Sample No: **3083069-04**  
Sample Description: **Location 2**

Collect Date: **08/19/13 12:30**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b><u>Anions - STL</u></b>					
Chloride	5700 mg/L		08/21/13 17:54	DWM	EPA 300.0 R2.1 04KS
Nitrate-N	< 50 mg/L		08/20/13 17:00	DWM	EPA 300.0 R2.1 04KS
Nitrite-N	< 50 mg/L		08/20/13 17:00	DWM	EPA 300.0 R2.1 04KS
Sulfate	< 2000 mg/L		08/21/13 17:54	DWM	EPA 300.0 R2.1 04KS
<b><u>General Chemistry - PIA</u></b>					
Total Organic Carbon (TOC)	18000 mg/L		08/22/13 20:01	lgsjw	5310C KS,IL,IA,WI,AR
<b><u>General Chemistry - STL</u></b>					
Alkalinity - total as CaCO3	7700 mg/L		08/20/13 14:00	ACV	SM 2320B 18Ed*
BOD	33000 mg/L		08/21/13 11:30	DAW	SM 5210B 18Ed 04KS
BOD - soluble	32000 mg/L		08/21/13 11:30	DAW	SM 5210B 18Ed*
COD	59000 mg/L		08/21/13 13:15	DAW	SM 5220D 18Ed 04KS



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**\*Laboratory Results\***

Sample No: **3083069-04**  
Sample Description: **Location 2**

Collect Date: **08/19/13 12:30**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b><u>General Chemistry - STL</u></b>					
Cyanide	0.012 mg/L		08/21/13 14:30	DWM	SM 4500-CN C E 18Ed*
Cyanide - amenable	< 0.0050 mg/L		08/23/13 12:00	DWM	SM 4500CN CG 18Ed*
Cyanide - weak acid dissociable	0.016 mg/L		08/21/13 14:30	DWM	ASTM 1310-86*
Oil & Grease - total	< 5.3 mg/L		08/21/13 09:00	mep	EPA 1664A 04KS
Phenol	76 mg/L		08/26/13 12:00	DWM	EPA 420.1 04KS
Solids - total dissolved solids (TDS)	44000 mg/L		08/22/13 12:00	DAW	SM 2540C 18Ed*
Solids - total suspended solids (TSS)	61 mg/L		08/21/13 15:25	DAW	SM 2540D 18Ed 04KS
<b><u>Nutrients - PIA</u></b>					
Total Kjeldahl Nitrogen (TKN)	870 mg/L		08/22/13 15:28	Igth	SM 4500-N B & NH3-H 18Ed MOD IL,IA,WI,AR
<b><u>Nutrients - STL</u></b>					
Ammonia-N	850 mg/L		08/21/13 12:30	ACV	SM(18) 4500 NH3 F 04KS
Phosphorus - ortho as P	< 5.0 mg/L	H	08/22/13 14:30	ACV	SM 4500P B E 18ed* 04KS
Phosphorus - total as P	< 5.0 mg/L		08/22/13 11:15	ACV	SM 4500P B E 18ed 04KS
<b><u>Semivolatile Organics - STL</u></b>					
1,2,4-Trichlorobenzene	< 500 ug/L		08/22/13 09:28	jk	EPA 625 04KS
1,2-Dichlorobenzene	< 500 ug/L		08/22/13 09:28	jk	EPA 625*
1,3-Dichlorobenzene	< 500 ug/L		08/22/13 09:28	jk	EPA 625*
1,4-Dichlorobenzene	< 500 ug/L		08/22/13 09:28	jk	EPA 625*
2,4,5-Trichlorophenol	< 500 ug/L		08/22/13 09:28	jk	EPA 625*
2,4,6-Trichlorophenol	< 500 ug/L		08/22/13 09:28	jk	EPA 625 04KS
2,4-Dichlorophenol	< 500 ug/L		08/22/13 09:28	jk	EPA 625 04KS
2,4-Dimethylphenol	< 500 ug/L		08/22/13 09:28	jk	EPA 625 04KS
2,4-Dinitrophenol	< 500 ug/L		08/22/13 09:28	jk	EPA 625 04KS
2,4-Dinitrotoluene	< 500 ug/L		08/22/13 09:28	jk	EPA 625 04KS
2,6-Dimethylaniline	< 250 ug/L		08/22/13 09:28	jk	EPA 625*
2,6-Dinitrotoluene	< 500 ug/L		08/22/13 09:28	jk	EPA 625 04KS
2-Chloronaphthalene	< 500 ug/L		08/22/13 09:28	jk	EPA 625 04KS
2-Chlorophenol	< 500 ug/L		08/22/13 09:28	jk	EPA 625 04KS
2-Nitrophenol	< 500 ug/L		08/22/13 09:28	jk	EPA 625 04KS



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**\*Laboratory Results\***

Sample No: **3083069-04**  
Sample Description: **Location 2**

Collect Date: **08/19/13 12:30**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b>Semivolatile Organics - STL</b>					
3,3'-Dichlorobenzidine	< 500 ug/L		08/22/13 09:28	jk	EPA 625 04KS
4,6-Dinitro-2-methylphenol	< 500 ug/L		08/22/13 09:28	jk	EPA 625*
4-Bromophenyl phenyl ether	< 500 ug/L		08/22/13 09:28	jk	EPA 625 04KS
4-Chloro-3-methylphenol	< 500 ug/L		08/22/13 09:28	jk	EPA 625 04KS
4-Chlorophenylphenyl ether	< 500 ug/L		08/22/13 09:28	jk	EPA 625 04KS
4-Nitrophenol	< 500 ug/L		08/22/13 09:28	jk	EPA 625 04KS
Acenaphthene	< 500 ug/L		08/22/13 09:28	jk	EPA 625 04KS
Acenaphthylene	< 500 ug/L		08/22/13 09:28	jk	EPA 625 04KS
Anthracene	< 500 ug/L		08/22/13 09:28	jk	EPA 625 04KS
Azobenzene	< 500 ug/L		08/22/13 09:28	jk	EPA 625*
Benzidine	< 500 ug/L		08/22/13 09:28	jk	EPA 625*
Benzo(a)anthracene	< 500 ug/L		08/22/13 09:28	jk	EPA 625 04KS
Benzo(a)pyrene	< 500 ug/L		08/22/13 09:28	jk	EPA 625 04KS
Benzo(b&k)fluoranthene	< 500 ug/L		08/22/13 09:28	jk	EPA 625 04KS
Benzo(b)fluoranthene	< 500 ug/L		08/22/13 09:28	jk	EPA 625 04KS
Benzo(g,h,i)perylene	< 500 ug/L		08/22/13 09:28	jk	EPA 625 04KS
Benzo(k)fluoranthene	< 500 ug/L		08/22/13 09:28	jk	EPA 625 04KS
Bis(2-chloroethoxy) methane	< 500 ug/L		08/22/13 09:28	jk	EPA 625 04KS
Bis(2-chloroethyl) ether	< 500 ug/L		08/22/13 09:28	jk	EPA 625 04KS
Bis(2-chloroisopropyl) ether	< 500 ug/L		08/22/13 09:28	jk	EPA 625 04KS
Bis(2-ethylhexyl) phthalate	< 500 ug/L		08/22/13 09:28	jk	EPA 625 04KS
Butyl benzyl phthalate	< 500 ug/L		08/22/13 09:28	jk	EPA 625 04KS
Chrysene	< 500 ug/L		08/22/13 09:28	jk	EPA 625 04KS
Dibenzo(a,h)anthracene	< 500 ug/L		08/22/13 09:28	jk	EPA 625 04KS
Diethyl phthalate	< 500 ug/L		08/22/13 09:28	jk	EPA 625 04KS
Dimethyl phthalate	< 500 ug/L		08/22/13 09:28	jk	EPA 625 04KS
Di-n-butyl phthalate	< 500 ug/L		08/22/13 09:28	jk	EPA 625 04KS
Di-n-octyl phthalate	< 500 ug/L		08/22/13 09:28	jk	EPA 625 04KS
Diphenylamine	< 500 ug/L		08/22/13 09:28	jk	EPA 625 04KS
Fluoranthene	< 500 ug/L		08/22/13 09:28	jk	EPA 625 04KS
Fluorene	< 500 ug/L		08/22/13 09:28	jk	EPA 625 04KS
Hexachlorobenzene	< 500 ug/L		08/22/13 09:28	jk	EPA 625 04KS
Hexachlorobutadiene	< 500 ug/L		08/22/13 09:28	jk	EPA 625 04KS



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Customer #: 277310

**\*Laboratory Results\***

Sample No: **3083069-04**  
Sample Description: **Location 2**

Collect Date: **08/19/13 12:30**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b>Semivolatile Organics - STL</b>					
Hexachlorocyclopentadiene	< 500 ug/L		08/22/13 09:28	jk	EPA 625 04KS
Hexachloroethane	< 500 ug/L		08/22/13 09:28	jk	EPA 625 04KS
Indeno(1,2,3-cd)pyrene	< 500 ug/L		08/22/13 09:28	jk	EPA 625 04KS
Isophorone	< 500 ug/L		08/22/13 09:28	jk	EPA 625 04KS
Naphthalene	< 500 ug/L		08/22/13 09:28	jk	EPA 625 04KS
Nitrobenzene	< 500 ug/L		08/22/13 09:28	jk	EPA 625 04KS
N-Nitrosodimethylamine	< 500 ug/L		08/22/13 09:28	jk	EPA 625 04KS
N-Nitrosodi-n-propylamine	< 500 ug/L		08/22/13 09:28	jk	EPA 625 04KS
Pentachlorophenol	< 500 ug/L		08/22/13 09:28	jk	EPA 625 04KS
Phenanthrene	< 500 ug/L		08/22/13 09:28	jk	EPA 625 04KS
Phenol	5030 ug/L	Xa	08/22/13 09:28	jk	EPA 625 04KS
Pyrene	< 500 ug/L		08/22/13 09:28	jk	EPA 625 04KS
Surrogate: 2-Fluorophenol	27 % 10-101	S	08/22/13 09:28	jk	EPA 625
Surrogate: Phenol- d5	35 % 10-154	S	08/22/13 09:28	jk	EPA 625
Surrogate: Nitrobenzene-d5	% 10-119	S	08/22/13 09:28	jk	EPA 625
Surrogate: 2-Fluorobiphenyl	67 % 10-98	S	08/22/13 09:28	jk	EPA 625
Surrogate: 2,4,6-Tribromophenol	7 % 10-69	S	08/22/13 09:28	jk	EPA 625
Surrogate: p-Terphenyl-d14	85 % 11-97	S	08/22/13 09:28	jk	EPA 625
<b>Soluble Metals - STL</b>					
Silicon as SiO2	93 mg/L		08/23/13 11:27	WPS	EPA 200.7 R4.4
Aluminum	0.25 mg/L		08/23/13 11:27	WPS	EPA 200.7 R4.4*
Mercury	< 0.0020 mg/L		08/22/13 14:14	KAE	EPA 245.1 R3.0 / SW 7470A 04KS
Antimony	< 0.10 mg/L		08/23/13 11:27	WPS	EPA 200.7 R4.4 04KS
Copper	< 0.020 mg/L		08/23/13 11:27	WPS	EPA 200.7 R4.4 04KS
Silver	< 0.020 mg/L		08/23/13 11:27	WPS	EPA 200.7 R4.4 04KS
Arsenic	0.89 mg/L		08/23/13 11:27	WPS	EPA 200.7 R4.4 04KS
Barium	3.5 mg/L		08/23/13 11:27	WPS	EPA 200.7 R4.4 04KS
Beryllium	< 0.010 mg/L		08/23/13 11:27	WPS	EPA 200.7 R4.4 04KS
Boron	18 mg/L		08/23/13 11:27	WPS	EPA 200.7 R4.4*
Cadmium	< 0.020 mg/L		08/23/13 11:27	WPS	EPA 200.7 R4.4 04KS
Calcium	3600 mg/L		08/23/13 09:37	WPS	EPA 200.7 R4.4 04KS
Chromium	0.17 mg/L		08/23/13 11:27	WPS	EPA 200.7 R4.4 04KS



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Date Received: 08/20/13 12:28  
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Customer #: 277310

**\*Laboratory Results\***

Sample No: **3083069-04**  
Sample Description: **Location 2**

Collect Date: **08/19/13 12:30**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b><u>Soluble Metals - STL</u></b>					
Cobalt	0.044 mg/L		08/23/13 11:27	WPS	EPA 200.7 R4.4 04KS
Iron	200 mg/L		08/23/13 10:34	WPS	EPA 200.7 R4.4 04KS
Lead	< 0.10 mg/L		08/23/13 11:27	WPS	EPA 200.7 R4.4 04KS
Magnesium	340 mg/L		08/23/13 10:34	WPS	EPA 200.7 R4.4 04KS
Manganese	37 mg/L		08/23/13 11:27	WPS	EPA 200.7 R4.4 04KS
Molybdenum	< 0.12 mg/L		08/23/13 11:27	WPS	EPA 200.7 R4.4 04KS
Nickel	0.11 mg/L		08/23/13 11:27	WPS	EPA 200.7 R4.4 04KS
Potassium	640 mg/L		08/23/13 10:34	WPS	EPA 200.7 R4.4*
Selenium	< 0.10 mg/L		08/23/13 11:27	WPS	EPA 200.7 R4.4 04KS
Sodium	3400 mg/L		08/23/13 09:37	WPS	EPA 200.7 R4.4*
Thallium	< 0.20 mg/L		08/23/13 11:27	WPS	EPA 200.7 R4.4 04KS
Vanadium	0.041 mg/L		08/23/13 11:27	WPS	EPA 200.7 R4.4 04KS
Zinc	1.8 mg/L		08/23/13 11:27	WPS	EPA 200.7 R4.4 04KS
Silicon	43 mg/L		08/23/13 11:27	WPS	EPA 200.7 R4.4*
<b><u>Total Metals - STL</u></b>					
Silicon as SiO2	93 mg/L		08/23/13 11:31	WPS	EPA 200.7 R4.4
Aluminum	0.25 mg/L		08/23/13 11:31	WPS	EPA 200.7 R4.4*
Mercury	< 0.0020 mg/L		08/22/13 14:14	KAE	EPA 245.1 R3.0 / SW 7470A 04KS
Antimony	0.12 mg/L		08/23/13 11:31	WPS	EPA 200.7 R4.4 04KS
Silicon	43 mg/L		08/23/13 11:31	WPS	EPA 200.7 R4.4*
Arsenic	0.82 mg/L		08/23/13 11:31	WPS	EPA 200.7 R4.4 04KS
Barium	3.6 mg/L		08/23/13 11:31	WPS	EPA 200.7 R4.4 04KS
Beryllium	< 0.010 mg/L		08/23/13 11:31	WPS	EPA 200.7 R4.4 04KS
Hardness	11000 mg/L		08/23/13 10:38	WPS	SM 2340B
Boron	18 mg/L		08/23/13 11:31	WPS	EPA 200.7 R4.4*
Cadmium	< 0.020 mg/L		08/23/13 11:31	WPS	EPA 200.7 R4.4 04KS
Calcium	3600 mg/L		08/23/13 09:41	WPS	EPA 200.7 R4.4 04KS
Chromium	0.18 mg/L		08/23/13 11:31	WPS	EPA 200.7 R4.4 04KS
Cobalt	0.040 mg/L		08/23/13 11:31	WPS	EPA 200.7 R4.4 04KS
Copper	< 0.020 mg/L		08/23/13 11:31	WPS	EPA 200.7 R4.4 04KS
Iron	200 mg/L		08/23/13 10:38	WPS	EPA 200.7 R4.4 04KS
Lead	< 0.10 mg/L		08/23/13 11:31	WPS	EPA 200.7 R4.4 04KS
Magnesium	360 mg/L		08/23/13 10:38	WPS	EPA 200.7 R4.4 04KS



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Date Received: 08/20/13 12:28  
Report Date: 08/27/13  
Customer #: 277310

**\*Laboratory Results\***

Sample No: **3083069-04**  
Sample Description: **Location 2**

Collect Date: **08/19/13 12:30**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b><u>Total Metals - STL</u></b>					
Manganese	37 mg/L		08/23/13 11:31	WPS	EPA 200.7 R4.4 04KS
Molybdenum	< 0.12 mg/L		08/23/13 11:31	WPS	EPA 200.7 R4.4 04KS
Nickel	0.14 mg/L		08/23/13 11:31	WPS	EPA 200.7 R4.4 04KS
Potassium	680 mg/L		08/23/13 10:38	WPS	EPA 200.7 R4.4*
Selenium	< 0.10 mg/L		08/23/13 11:31	WPS	EPA 200.7 R4.4 04KS
Silver	< 0.020 mg/L		08/23/13 11:31	WPS	EPA 200.7 R4.4 04KS
Sodium	3500 mg/L		08/23/13 09:41	WPS	EPA 200.7 R4.4*
Thallium	< 0.20 mg/L		08/23/13 11:31	WPS	EPA 200.7 R4.4 04KS
Vanadium	0.048 mg/L		08/23/13 11:31	WPS	EPA 200.7 R4.4 04KS
Zinc	1.9 mg/L		08/23/13 11:31	WPS	EPA 200.7 R4.4 04KS

Sample No: **3083069-05**  
Sample Description: **Location 3**

Collect Date: **08/19/13 12:27**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b><u>General Chemistry - STL</u></b>					
Solids - total suspended solids (TSS)	34000 mg/L		08/21/13 15:25	DAW	SM 2540D 18Ed 04KS
Solids - total volatile suspended solids	13000 mg/L		08/21/13 15:25	DAW	SM 2540E 18Ed*

Sample No: **3083069-06**  
Sample Description: **Location 4**

Collect Date: **08/19/13 12:14**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b><u>Anions - STL</u></b>					
Chloride	4900 mg/L		08/21/13 18:11	DWM	EPA 300.0 R2.1 04KS
Nitrate-N	< 50 mg/L		08/20/13 17:17	DWM	EPA 300.0 R2.1 04KS
Nitrite-N	< 50 mg/L		08/20/13 17:17	DWM	EPA 300.0 R2.1 04KS
Sulfate	< 500 mg/L		08/21/13 18:11	DWM	EPA 300.0 R2.1 04KS
<b><u>General Chemistry - PIA</u></b>					
Total Organic Carbon (TOC)	1600 mg/L		08/22/13 20:08	lgsjw	5310C KS,IL,IA,WI,AR



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Bridgeton Landfill  
13570 St Charles Rock Road  
St. Louis, MO 63044  
Attn: Dan Feezor

Date Received: 08/20/13 12:28  
Report Date: 08/27/13  
Customer #: 277310

**\*Laboratory Results\***

Sample No: **3083069-06**  
Sample Description: **Location 4**

Collect Date: **08/19/13 12:14**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b>General Chemistry - STL</b>					
Alkalinity - total as CaCO3	1100 mg/L		08/20/13 14:00	ACV	SM 2320B 18Ed*
BOD	110 mg/L		08/21/13 11:30	DAW	SM 5210B 18Ed 04KS
BOD - soluble	91 mg/L		08/21/13 11:30	DAW	SM 5210B 18Ed*
COD	580 mg/L		08/21/13 13:15	DAW	SM 5220D 18Ed 04KS
Cyanide	0.011 mg/L		08/21/13 14:30	DWM	SM 4500-CN C E 18Ed*
Cyanide - amenable	< 0.0050 mg/L		08/23/13 12:00	DWM	SM 4500CN CG 18Ed*
Cyanide - weak acid dissociable	0.015 mg/L		08/21/13 14:30	DWM	ASTM 1310-86*
Oil & Grease - total	< 5.0 mg/L		08/21/13 09:00	mep	EPA 1664A 04KS
Phenol	< 1.0 mg/L		08/26/13 12:00	DWM	EPA 420.1 04KS
Solids - total dissolved solids (TDS)	16000 mg/L		08/22/13 12:00	DAW	SM 2540C 18Ed*
Solids - total suspended solids (TSS)	33 mg/L		08/21/13 15:25	DAW	SM 2540D 18Ed 04KS
<b>Nutrients - PIA</b>					
Total Kjeldahl Nitrogen (TKN)	300 mg/L		08/22/13 15:29	lgthh	SM 4500-N B & NH3-H 18Ed MOD IL,IA,WI,AR
<b>Nutrients - STL</b>					
Ammonia-N	200 mg/L		08/21/13 12:30	ACV	SM(18) 4500 NH3 F 04KS
Phosphorus - ortho as P	640 mg/L	H	08/22/13 14:30	ACV	SM 4500P B E 18ed* 04KS
Phosphorus - total as P	650 mg/L		08/22/13 11:15	ACV	SM 4500P B E 18ed 04KS
<b>Semivolatile Organics - STL</b>					
1,2,4-Trichlorobenzene	< 100 ug/L		08/22/13 06:31	jk	EPA 625 04KS
1,2-Dichlorobenzene	< 100 ug/L		08/22/13 06:31	jk	EPA 625*
1,3-Dichlorobenzene	< 100 ug/L		08/22/13 06:31	jk	EPA 625*
1,4-Dichlorobenzene	< 100 ug/L		08/22/13 06:31	jk	EPA 625*
2,4,5-Trichlorophenol	< 100 ug/L		08/22/13 06:31	jk	EPA 625*
2,4,6-Trichlorophenol	< 100 ug/L		08/22/13 06:31	jk	EPA 625 04KS
2,4-Dichlorophenol	< 100 ug/L		08/22/13 06:31	jk	EPA 625 04KS
2,4-Dimethylphenol	< 100 ug/L		08/22/13 06:31	jk	EPA 625 04KS
2,4-Dinitrophenol	< 100 ug/L		08/22/13 06:31	jk	EPA 625 04KS
2,4-Dinitrotoluene	< 100 ug/L		08/22/13 06:31	jk	EPA 625 04KS
2,6-Dimethylaniline	< 50.0 ug/L		08/22/13 06:31	jk	EPA 625*



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**\*Laboratory Results\***

Sample No: **3083069-06**  
Sample Description: **Location 4**

Collect Date: **08/19/13 12:14**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b>Semivolatile Organics - STL</b>					
2,6-Dinitrotoluene	< 100 ug/L		08/22/13 06:31	jk	EPA 625 04KS
2-Chloronaphthalene	< 100 ug/L		08/22/13 06:31	jk	EPA 625 04KS
2-Chlorophenol	< 100 ug/L		08/22/13 06:31	jk	EPA 625 04KS
2-Nitrophenol	< 100 ug/L		08/22/13 06:31	jk	EPA 625 04KS
3,3'-Dichlorobenzidine	< 100 ug/L		08/22/13 06:31	jk	EPA 625 04KS
4,6-Dinitro-2-methylphenol	< 100 ug/L		08/22/13 06:31	jk	EPA 625*
4-Bromophenyl phenyl ether	< 100 ug/L		08/22/13 06:31	jk	EPA 625 04KS
4-Chloro-3-methylphenol	< 100 ug/L		08/22/13 06:31	jk	EPA 625 04KS
4-Chlorophenylphenyl ether	< 100 ug/L		08/22/13 06:31	jk	EPA 625 04KS
4-Nitrophenol	< 100 ug/L		08/22/13 06:31	jk	EPA 625 04KS
Acenaphthene	< 100 ug/L		08/22/13 06:31	jk	EPA 625 04KS
Acenaphthylene	< 100 ug/L		08/22/13 06:31	jk	EPA 625 04KS
Anthracene	< 100 ug/L		08/22/13 06:31	jk	EPA 625 04KS
Azobenzene	< 100 ug/L		08/22/13 06:31	jk	EPA 625*
Benzidine	< 100 ug/L		08/22/13 06:31	jk	EPA 625*
Benzo(a)anthracene	< 100 ug/L		08/22/13 06:31	jk	EPA 625 04KS
Benzo(a)pyrene	< 100 ug/L		08/22/13 06:31	jk	EPA 625 04KS
Benzo(b&k)fluoranthene	< 100 ug/L		08/22/13 06:31	jk	EPA 625 04KS
Benzo(b)fluoranthene	< 100 ug/L		08/22/13 06:31	jk	EPA 625 04KS
Benzo(g,h,i)perylene	< 100 ug/L		08/22/13 06:31	jk	EPA 625 04KS
Benzo(k)fluoranthene	< 100 ug/L		08/22/13 06:31	jk	EPA 625 04KS
Bis(2-chloroethoxy) methane	< 100 ug/L		08/22/13 06:31	jk	EPA 625 04KS
Bis(2-chloroethyl) ether	< 100 ug/L		08/22/13 06:31	jk	EPA 625 04KS
Bis(2-chloroisopropyl) ether	< 100 ug/L		08/22/13 06:31	jk	EPA 625 04KS
Bis(2-ethylhexyl) phthalate	< 100 ug/L		08/22/13 06:31	jk	EPA 625 04KS
Butyl benzyl phthalate	< 100 ug/L		08/22/13 06:31	jk	EPA 625 04KS
Chrysene	< 100 ug/L		08/22/13 06:31	jk	EPA 625 04KS
Dibenzo(a,h)anthracene	< 100 ug/L		08/22/13 06:31	jk	EPA 625 04KS
Diethyl phthalate	< 100 ug/L		08/22/13 06:31	jk	EPA 625 04KS
Dimethyl phthalate	< 100 ug/L		08/22/13 06:31	jk	EPA 625 04KS
Di-n-butyl phthalate	< 100 ug/L		08/22/13 06:31	jk	EPA 625 04KS
Di-n-octyl phthalate	< 100 ug/L		08/22/13 06:31	jk	EPA 625 04KS
Diphenylamine	< 100 ug/L		08/22/13 06:31	jk	EPA 625 04KS





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13570 St Charles Rock Road  
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Attn: Dan Feezor

Date Received: 08/20/13 12:28  
Report Date: 08/27/13  
Customer #: 277310

**\*Laboratory Results\***

Sample No: **3083069-06**  
Sample Description: **Location 4**

Collect Date: **08/19/13 12:14**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b>Semivolatile Organics - STL</b>					
Fluoranthene	< 100 ug/L		08/22/13 06:31	jk	EPA 625 04KS
Fluorene	< 100 ug/L		08/22/13 06:31	jk	EPA 625 04KS
Hexachlorobenzene	< 100 ug/L		08/22/13 06:31	jk	EPA 625 04KS
Hexachlorobutadiene	< 100 ug/L		08/22/13 06:31	jk	EPA 625 04KS
Hexachlorocyclopentadiene	< 100 ug/L		08/22/13 06:31	jk	EPA 625 04KS
Hexachloroethane	< 100 ug/L		08/22/13 06:31	jk	EPA 625 04KS
Indeno(1,2,3-cd)pyrene	< 100 ug/L		08/22/13 06:31	jk	EPA 625 04KS
Isophorone	< 100 ug/L		08/22/13 06:31	jk	EPA 625 04KS
Naphthalene	< 100 ug/L		08/22/13 06:31	jk	EPA 625 04KS
Nitrobenzene	< 100 ug/L		08/22/13 06:31	jk	EPA 625 04KS
N-Nitrosodimethylamine	< 100 ug/L		08/22/13 06:31	jk	EPA 625 04KS
N-Nitrosodi-n-propylamine	< 100 ug/L		08/22/13 06:31	jk	EPA 625 04KS
Pentachlorophenol	< 100 ug/L		08/22/13 06:31	jk	EPA 625 04KS
Phenanthrene	< 100 ug/L		08/22/13 06:31	jk	EPA 625 04KS
Phenol	< 100 ug/L		08/22/13 06:31	jk	EPA 625 04KS
Pyrene	< 100 ug/L		08/22/13 06:31	jk	EPA 625 04KS
Surrogate: 2-Fluorophenol	17 % 10-101	S	08/22/13 06:31	jk	EPA 625
Surrogate: Phenol- d5	9 % 10-154	S	08/22/13 06:31	jk	EPA 625
Surrogate: Nitrobenzene-d5	44 % 10-119	S	08/22/13 06:31	jk	EPA 625
Surrogate: 2-Fluorobiphenyl	58 % 10-98	S	08/22/13 06:31	jk	EPA 625
Surrogate: 2,4,6-Tribromophenol	17 % 10-69	S	08/22/13 06:31	jk	EPA 625
Surrogate: p-Terphenyl-d14	77 % 11-97	S	08/22/13 06:31	jk	EPA 625
<b>Soluble Metals - STL</b>					
Silicon as SiO2	82 mg/L		08/23/13 11:35	WPS	EPA 200.7 R4.4
Aluminum	< 0.15 mg/L		08/23/13 11:35	WPS	EPA 200.7 R4.4*
Mercury	< 0.0020 mg/L		08/22/13 14:14	KAE	EPA 245.1 R3.0 / 04KS SW 7470A
Antimony	< 0.10 mg/L		08/23/13 11:35	WPS	EPA 200.7 R4.4 04KS
Copper	0.020 mg/L		08/23/13 11:35	WPS	EPA 200.7 R4.4 04KS
Silver	< 0.020 mg/L		08/23/13 11:35	WPS	EPA 200.7 R4.4 04KS
Arsenic	0.55 mg/L		08/23/13 11:35	WPS	EPA 200.7 R4.4 04KS
Barium	< 0.10 mg/L		08/23/13 11:35	WPS	EPA 200.7 R4.4 04KS
Beryllium	< 0.010 mg/L		08/23/13 11:35	WPS	EPA 200.7 R4.4 04KS



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Customer #: 277310

**\*Laboratory Results\***

Sample No: **3083069-06**  
Sample Description: **Location 4**

Collect Date: **08/19/13 12:14**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b><u>Soluble Metals - STL</u></b>					
Boron	14 mg/L		08/23/13 11:35	WPS	EPA 200.7 R4.4*
Cadmium	< 0.020 mg/L		08/23/13 11:35	WPS	EPA 200.7 R4.4 04KS
Calcium	25 mg/L		08/23/13 11:35	WPS	EPA 200.7 R4.4 04KS
Chromium	0.093 mg/L		08/23/13 11:35	WPS	EPA 200.7 R4.4 04KS
Cobalt	0.020 mg/L		08/23/13 11:35	WPS	EPA 200.7 R4.4 04KS
Iron	1.9 mg/L		08/23/13 11:35	WPS	EPA 200.7 R4.4 04KS
Lead	< 0.10 mg/L		08/23/13 11:35	WPS	EPA 200.7 R4.4 04KS
Magnesium	79 mg/L		08/23/13 11:35	WPS	EPA 200.7 R4.4 04KS
Manganese	0.80 mg/L		08/23/13 11:35	WPS	EPA 200.7 R4.4 04KS
Molybdenum	< 0.12 mg/L		08/23/13 11:35	WPS	EPA 200.7 R4.4 04KS
Nickel	0.096 mg/L		08/23/13 11:35	WPS	EPA 200.7 R4.4 04KS
Potassium	460 mg/L		08/23/13 10:42	WPS	EPA 200.7 R4.4*
Selenium	0.12 mg/L		08/23/13 11:35	WPS	EPA 200.7 R4.4 04KS
Sodium	3400 mg/L		08/23/13 09:45	WPS	EPA 200.7 R4.4*
Thallium	< 0.20 mg/L		08/23/13 11:35	WPS	EPA 200.7 R4.4 04KS
Vanadium	< 0.020 mg/L		08/23/13 11:35	WPS	EPA 200.7 R4.4 04KS
Zinc	0.32 mg/L		08/23/13 11:35	WPS	EPA 200.7 R4.4 04KS
Silicon	38 mg/L		08/23/13 11:35	WPS	EPA 200.7 R4.4*
<b><u>Total Metals - STL</u></b>					
Silicon as SiO2	85 mg/L		08/23/13 11:52	WPS	EPA 200.7 R4.4
Aluminum	< 0.15 mg/L		08/23/13 11:52	WPS	EPA 200.7 R4.4*
Mercury	< 0.0020 mg/L		08/22/13 14:14	KAE	EPA 245.1 R3.0 / SW 7470A 04KS
Antimony	0.15 mg/L		08/23/13 11:52	WPS	EPA 200.7 R4.4 04KS
Silicon	40 mg/L		08/23/13 11:52	WPS	EPA 200.7 R4.4*
Arsenic	0.38 mg/L		08/23/13 11:52	WPS	EPA 200.7 R4.4 04KS
Barium	< 0.10 mg/L		08/23/13 11:52	WPS	EPA 200.7 R4.4 04KS
Beryllium	< 0.010 mg/L		08/23/13 11:52	WPS	EPA 200.7 R4.4 04KS
Hardness	410 mg/L		08/23/13 11:52	WPS	SM 2340B
Boron	15 mg/L		08/23/13 11:52	WPS	EPA 200.7 R4.4*
Cadmium	< 0.020 mg/L		08/23/13 11:52	WPS	EPA 200.7 R4.4 04KS
Calcium	27 mg/L		08/23/13 11:52	WPS	EPA 200.7 R4.4 04KS
Chromium	0.10 mg/L		08/23/13 11:52	WPS	EPA 200.7 R4.4 04KS
Cobalt	< 0.020 mg/L		08/23/13 11:52	WPS	EPA 200.7 R4.4 04KS



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Date Received: 08/20/13 12:28  
Report Date: 08/27/13  
Customer #: 277310

**\*Laboratory Results\***

Sample No: **3083069-06**  
Sample Description: **Location 4**

Collect Date: **08/19/13 12:14**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b><u>Total Metals - STL</u></b>					
Copper	0.024 mg/L		08/23/13 11:52	WPS	EPA 200.7 R4.4 04KS
Iron	1.6 mg/L		08/23/13 11:52	WPS	EPA 200.7 R4.4 04KS
Lead	< 0.10 mg/L		08/23/13 11:52	WPS	EPA 200.7 R4.4 04KS
Magnesium	83 mg/L		08/23/13 11:52	WPS	EPA 200.7 R4.4 04KS
Manganese	0.83 mg/L		08/23/13 11:52	WPS	EPA 200.7 R4.4 04KS
Molybdenum	< 0.12 mg/L		08/23/13 11:52	WPS	EPA 200.7 R4.4 04KS
Nickel	0.10 mg/L		08/23/13 11:52	WPS	EPA 200.7 R4.4 04KS
Potassium	520 mg/L		08/23/13 10:59	WPS	EPA 200.7 R4.4*
Selenium	0.20 mg/L		08/23/13 11:52	WPS	EPA 200.7 R4.4 04KS
Silver	< 0.020 mg/L		08/23/13 11:52	WPS	EPA 200.7 R4.4 04KS
Sodium	3400 mg/L		08/23/13 10:06	WPS	EPA 200.7 R4.4*
Thallium	< 0.20 mg/L		08/23/13 11:52	WPS	EPA 200.7 R4.4 04KS
Vanadium	< 0.020 mg/L		08/23/13 11:52	WPS	EPA 200.7 R4.4 04KS
Zinc	0.34 mg/L		08/23/13 11:52	WPS	EPA 200.7 R4.4 04KS

Sample No: **3083069-07**  
Sample Description: **Field Blank**

Collect Date: **08/19/13 13:01**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b><u>Anions - STL</u></b>					
Chloride	< 0.50 mg/L	Q1	08/20/13 17:35	DWM	EPA 300.0 R2.1 04KS
Nitrate-N	< 0.50 mg/L		08/20/13 17:35	DWM	EPA 300.0 R2.1 04KS
Nitrite-N	< 0.50 mg/L		08/20/13 17:35	DWM	EPA 300.0 R2.1 04KS
Sulfate	< 0.50 mg/L		08/20/13 17:35	DWM	EPA 300.0 R2.1 04KS
<b><u>General Chemistry - PIA</u></b>					
Total Organic Carbon (TOC)	< 0.50 mg/L		08/22/13 20:15	lgsjw	5310C KS,IL,IA,WI,AR
<b><u>General Chemistry - STL</u></b>					
Alkalinity - total as CaCO3	2.0 mg/L		08/20/13 14:00	ACV	SM 2320B 18Ed*
BOD	< 6.0 mg/L		08/21/13 11:30	DAW	SM 5210B 18Ed 04KS
BOD - soluble	< 6.0 mg/L		08/21/13 11:30	DAW	SM 5210B 18Ed*
COD	< 5.0 mg/L		08/21/13 13:15	DAW	SM 5220D 18Ed 04KS



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Report Date: 08/27/13  
Customer #: 277310

**\*Laboratory Results\***

Sample No: **3083069-07**  
Sample Description: **Field Blank**

Collect Date: **08/19/13 13:01**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b><u>General Chemistry - STL</u></b>					
Cyanide	< 0.0050 mg/L		08/21/13 14:30	DWM	SM 4500-CN C E 18Ed*
Cyanide - amenable	< 0.0050 mg/L		08/21/13 14:30	DWM	SM 4500CN CG 18Ed*
Cyanide - weak acid dissociable	< 0.0050 mg/L		08/21/13 14:30	DWM	ASTM 1310-86*
Oil & Grease - total	< 5.2 mg/L		08/21/13 09:00	mep	EPA 1664A 04KS
Phenol	< 0.050 mg/L		08/26/13 12:00	DWM	EPA 420.1 04KS
Solids - total dissolved solids (TDS)	< 17 mg/L		08/22/13 12:00	DAW	SM 2540C 18Ed*
Solids - total suspended solids (TSS)	< 2.0 mg/L		08/21/13 15:25	DAW	SM 2540D 18Ed 04KS
<b><u>Nutrients - PIA</u></b>					
Total Kjeldahl Nitrogen (TKN)	< 1.0 mg/L		08/22/13 15:29	Igth	SM 4500-N B & NH3-H 18Ed MOD IL,IA,WI,AR
<b><u>Nutrients - STL</u></b>					
Ammonia-N	< 0.010 mg/L		08/21/13 12:30	ACV	SM(18) 4500 NH3 F 04KS
Phosphorus - ortho as P	< 0.050 mg/L	H	08/22/13 14:30	ACV	SM 4500P B E 18ed* 04KS
Phosphorus - total as P	< 0.050 mg/L		08/22/13 11:15	ACV	SM 4500P B E 18ed 04KS
<b><u>Semivolatile Organics - STL</u></b>					
1,2,4-Trichlorobenzene	< 10.0 ug/L		08/22/13 05:47	jk	EPA 625 04KS
1,2-Dichlorobenzene	< 10.0 ug/L		08/22/13 05:47	jk	EPA 625*
1,3-Dichlorobenzene	< 10.0 ug/L		08/22/13 05:47	jk	EPA 625*
1,4-Dichlorobenzene	< 10.0 ug/L		08/22/13 05:47	jk	EPA 625*
2,4,5-Trichlorophenol	< 10.0 ug/L		08/22/13 05:47	jk	EPA 625*
2,4,6-Trichlorophenol	< 10.0 ug/L		08/22/13 05:47	jk	EPA 625 04KS
2,4-Dichlorophenol	< 10.0 ug/L		08/22/13 05:47	jk	EPA 625 04KS
2,4-Dimethylphenol	< 10.0 ug/L		08/22/13 05:47	jk	EPA 625 04KS
2,4-Dinitrophenol	< 10.0 ug/L		08/22/13 05:47	jk	EPA 625 04KS
2,4-Dinitrotoluene	< 10.0 ug/L		08/22/13 05:47	jk	EPA 625 04KS
2,6-Dimethylaniline	< 5.00 ug/L		08/22/13 05:47	jk	EPA 625*
2,6-Dinitrotoluene	< 10.0 ug/L		08/22/13 05:47	jk	EPA 625 04KS
2-Chloronaphthalene	< 10.0 ug/L		08/22/13 05:47	jk	EPA 625 04KS
2-Chlorophenol	< 10.0 ug/L		08/22/13 05:47	jk	EPA 625 04KS
2-Nitrophenol	< 10.0 ug/L		08/22/13 05:47	jk	EPA 625 04KS



**PDC Laboratories, Inc.**

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Bridgeton Landfill  
13570 St Charles Rock Road  
St. Louis, MO 63044  
Attn: Dan Feezor

Date Received: 08/20/13 12:28  
Report Date: 08/27/13  
Customer #: 277310

**\*Laboratory Results\***

Sample No: **3083069-07**  
Sample Description: **Field Blank**

Collect Date: **08/19/13 13:01**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b>Semivolatile Organics - STL</b>					
3,3'-Dichlorobenzidine	< 10.0 ug/L		08/22/13 05:47	jk	EPA 625 04KS
4,6-Dinitro-2-methylphenol	< 10.0 ug/L		08/22/13 05:47	jk	EPA 625*
4-Bromophenyl phenyl ether	< 10.0 ug/L		08/22/13 05:47	jk	EPA 625 04KS
4-Chloro-3-methylphenol	< 10.0 ug/L		08/22/13 05:47	jk	EPA 625 04KS
4-Chlorophenylphenyl ether	< 10.0 ug/L		08/22/13 05:47	jk	EPA 625 04KS
4-Nitrophenol	< 10.0 ug/L		08/22/13 05:47	jk	EPA 625 04KS
Acenaphthene	< 10.0 ug/L		08/22/13 05:47	jk	EPA 625 04KS
Acenaphthylene	< 10.0 ug/L		08/22/13 05:47	jk	EPA 625 04KS
Anthracene	< 10.0 ug/L		08/22/13 05:47	jk	EPA 625 04KS
Azobenzene	< 10.0 ug/L		08/22/13 05:47	jk	EPA 625*
Benzidine	< 10.0 ug/L		08/22/13 05:47	jk	EPA 625*
Benzo(a)anthracene	< 10.0 ug/L		08/22/13 05:47	jk	EPA 625 04KS
Benzo(a)pyrene	< 10.0 ug/L		08/22/13 05:47	jk	EPA 625 04KS
Benzo(b&k)fluoranthene	< 10.0 ug/L		08/22/13 05:47	jk	EPA 625 04KS
Benzo(b)fluoranthene	< 10.0 ug/L		08/22/13 05:47	jk	EPA 625 04KS
Benzo(g,h,i)perylene	< 10.0 ug/L		08/22/13 05:47	jk	EPA 625 04KS
Benzo(k)fluoranthene	< 10.0 ug/L		08/22/13 05:47	jk	EPA 625 04KS
Bis(2-chloroethoxy) methane	< 10.0 ug/L		08/22/13 05:47	jk	EPA 625 04KS
Bis(2-chloroethyl) ether	< 10.0 ug/L		08/22/13 05:47	jk	EPA 625 04KS
Bis(2-chloroisopropyl) ether	< 10.0 ug/L		08/22/13 05:47	jk	EPA 625 04KS
Bis(2-ethylhexyl) phthalate	< 10.0 ug/L		08/22/13 05:47	jk	EPA 625 04KS
Butyl benzyl phthalate	< 10.0 ug/L		08/22/13 05:47	jk	EPA 625 04KS
Chrysene	< 10.0 ug/L		08/22/13 05:47	jk	EPA 625 04KS
Dibenzo(a,h)anthracene	< 10.0 ug/L		08/22/13 05:47	jk	EPA 625 04KS
Diethyl phthalate	< 10.0 ug/L		08/22/13 05:47	jk	EPA 625 04KS
Dimethyl phthalate	< 10.0 ug/L		08/22/13 05:47	jk	EPA 625 04KS
Di-n-butyl phthalate	< 10.0 ug/L		08/22/13 05:47	jk	EPA 625 04KS
Di-n-octyl phthalate	< 10.0 ug/L		08/22/13 05:47	jk	EPA 625 04KS
Diphenylamine	< 10.0 ug/L		08/22/13 05:47	jk	EPA 625 04KS
Fluoranthene	< 10.0 ug/L		08/22/13 05:47	jk	EPA 625 04KS
Fluorene	< 10.0 ug/L		08/22/13 05:47	jk	EPA 625 04KS
Hexachlorobenzene	< 10.0 ug/L		08/22/13 05:47	jk	EPA 625 04KS
Hexachlorobutadiene	< 10.0 ug/L		08/22/13 05:47	jk	EPA 625 04KS



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Bridgeton Landfill  
13570 St Charles Rock Road  
St. Louis, MO 63044  
Attn: Dan Feezor

Date Received: 08/20/13 12:28  
Report Date: 08/27/13  
Customer #: 277310

**\*Laboratory Results\***

Sample No: **3083069-07**  
Sample Description: **Field Blank**

Collect Date: **08/19/13 13:01**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b>Semivolatile Organics - STL</b>					
Hexachlorocyclopentadiene	< 10.0 ug/L		08/22/13 05:47	jk	EPA 625 04KS
Hexachloroethane	< 10.0 ug/L		08/22/13 05:47	jk	EPA 625 04KS
Indeno(1,2,3-cd)pyrene	< 10.0 ug/L		08/22/13 05:47	jk	EPA 625 04KS
Isophorone	< 10.0 ug/L		08/22/13 05:47	jk	EPA 625 04KS
Naphthalene	< 10.0 ug/L		08/22/13 05:47	jk	EPA 625 04KS
Nitrobenzene	< 10.0 ug/L		08/22/13 05:47	jk	EPA 625 04KS
N-Nitrosodimethylamine	< 10.0 ug/L		08/22/13 05:47	jk	EPA 625 04KS
N-Nitrosodi-n-propylamine	< 10.0 ug/L		08/22/13 05:47	jk	EPA 625 04KS
Pentachlorophenol	< 10.0 ug/L		08/22/13 05:47	jk	EPA 625 04KS
Phenanthrene	< 10.0 ug/L		08/22/13 05:47	jk	EPA 625 04KS
Phenol	< 10.0 ug/L		08/22/13 05:47	jk	EPA 625 04KS
Pyrene	< 10.0 ug/L		08/22/13 05:47	jk	EPA 625 04KS
Surrogate: 2-Fluorophenol	24 % 10-101		08/22/13 05:47	jk	EPA 625
Surrogate: Phenol- d5	14 % 10-154		08/22/13 05:47	jk	EPA 625
Surrogate: Nitrobenzene-d5	61 % 10-119		08/22/13 05:47	jk	EPA 625
Surrogate: 2-Fluorobiphenyl	52 % 10-98		08/22/13 05:47	jk	EPA 625
Surrogate: 2,4,6-Tribromophenol	58 % 10-69		08/22/13 05:47	jk	EPA 625
Surrogate: p-Terphenyl-d14	67 % 11-97		08/22/13 05:47	jk	EPA 625
<b>Soluble Metals - STL</b>					
Silicon as SiO2	< 0.11 mg/L		08/23/13 12:03	WPS	EPA 200.7 R4.4
Aluminum	< 0.015 mg/L		08/23/13 12:03	WPS	EPA 200.7 R4.4*
Mercury	< 0.0002 mg/L		08/22/13 14:14	KAE	EPA 245.1 R3.0 / 04KS SW 7470A
Antimony	< 0.010 mg/L		08/23/13 12:03	WPS	EPA 200.7 R4.4 04KS
Copper	< 0.0020 mg/L		08/23/13 12:03	WPS	EPA 200.7 R4.4 04KS
Silver	< 0.0020 mg/L		08/23/13 12:03	WPS	EPA 200.7 R4.4 04KS
Arsenic	< 0.015 mg/L		08/23/13 12:03	WPS	EPA 200.7 R4.4 04KS
Barium	< 0.010 mg/L		08/23/13 12:03	WPS	EPA 200.7 R4.4 04KS
Beryllium	< 0.0010 mg/L		08/23/13 12:03	WPS	EPA 200.7 R4.4 04KS
Boron	< 0.050 mg/L		08/23/13 12:03	WPS	EPA 200.7 R4.4*
Cadmium	< 0.0020 mg/L		08/23/13 12:03	WPS	EPA 200.7 R4.4 04KS
Calcium	< 0.095 mg/L		08/23/13 12:03	WPS	EPA 200.7 R4.4 04KS
Chromium	< 0.0020 mg/L		08/23/13 12:03	WPS	EPA 200.7 R4.4 04KS



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St. Louis, MO 63044  
Attn: Dan Feezor

Date Received: 08/20/13 12:28  
Report Date: 08/27/13  
Customer #: 277310

**\*Laboratory Results\***

Sample No: **3083069-07**  
Sample Description: **Field Blank**

Collect Date: **08/19/13 13:01**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b><u>Soluble Metals - STL</u></b>					
Cobalt	< 0.0020 mg/L		08/23/13 12:03	WPS	EPA 200.7 R4.4 04KS
Iron	< 0.010 mg/L		08/23/13 12:03	WPS	EPA 200.7 R4.4 04KS
Lead	< 0.010 mg/L		08/23/13 12:03	WPS	EPA 200.7 R4.4 04KS
Magnesium	< 0.050 mg/L		08/23/13 12:03	WPS	EPA 200.7 R4.4 04KS
Manganese	< 0.0030 mg/L		08/23/13 12:03	WPS	EPA 200.7 R4.4 04KS
Molybdenum	< 0.012 mg/L		08/23/13 12:03	WPS	EPA 200.7 R4.4 04KS
Nickel	< 0.0020 mg/L		08/23/13 12:03	WPS	EPA 200.7 R4.4 04KS
Potassium	< 0.050 mg/L		08/23/13 12:03	WPS	EPA 200.7 R4.4*
Selenium	< 0.010 mg/L		08/23/13 12:03	WPS	EPA 200.7 R4.4 04KS
Sodium	< 0.10 mg/L		08/23/13 12:03	WPS	EPA 200.7 R4.4*
Thallium	< 0.020 mg/L		08/23/13 12:03	WPS	EPA 200.7 R4.4 04KS
Vanadium	< 0.0020 mg/L		08/23/13 12:03	WPS	EPA 200.7 R4.4 04KS
Zinc	< 0.010 mg/L		08/23/13 12:03	WPS	EPA 200.7 R4.4 04KS
Silicon	< 0.050 mg/L		08/23/13 12:03	WPS	EPA 200.7 R4.4*
<b><u>Total Metals - STL</u></b>					
Silicon as SiO2	< 0.11 mg/L		08/23/13 12:07	WPS	EPA 200.7 R4.4
Aluminum	< 0.015 mg/L		08/23/13 12:07	WPS	EPA 200.7 R4.4*
Mercury	0.0002 mg/L		08/22/13 14:14	KAE	EPA 245.1 R3.0 / 04KS SW 7470A
Antimony	< 0.010 mg/L		08/23/13 12:07	WPS	EPA 200.7 R4.4 04KS
Silicon	< 0.050 mg/L		08/23/13 12:07	WPS	EPA 200.7 R4.4*
Arsenic	< 0.015 mg/L		08/23/13 12:07	WPS	EPA 200.7 R4.4 04KS
Barium	< 0.010 mg/L		08/23/13 12:07	WPS	EPA 200.7 R4.4 04KS
Beryllium	< 0.0010 mg/L		08/23/13 12:07	WPS	EPA 200.7 R4.4 04KS
Hardness	< 0.25 mg/L		08/23/13 12:07	WPS	SM 2340B
Boron	< 0.050 mg/L		08/23/13 12:07	WPS	EPA 200.7 R4.4*
Cadmium	< 0.0020 mg/L		08/23/13 12:07	WPS	EPA 200.7 R4.4 04KS
Calcium	< 0.095 mg/L		08/23/13 12:07	WPS	EPA 200.7 R4.4 04KS
Chromium	< 0.0020 mg/L		08/23/13 12:07	WPS	EPA 200.7 R4.4 04KS
Cobalt	< 0.0020 mg/L		08/23/13 12:07	WPS	EPA 200.7 R4.4 04KS
Copper	< 0.0020 mg/L		08/23/13 12:07	WPS	EPA 200.7 R4.4 04KS
Iron	< 0.010 mg/L		08/23/13 12:07	WPS	EPA 200.7 R4.4 04KS
Lead	< 0.010 mg/L		08/23/13 12:07	WPS	EPA 200.7 R4.4 04KS
Magnesium	< 0.050 mg/L		08/23/13 12:07	WPS	EPA 200.7 R4.4 04KS



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Bridgeton Landfill  
13570 St Charles Rock Road  
St. Louis, MO 63044  
Attn: Dan Feezor

Date Received: 08/20/13 12:28  
Report Date: 08/27/13  
Customer #: 277310

**\*Laboratory Results\***

Sample No: **3083069-07**  
Sample Description: **Field Blank**

Collect Date: **08/19/13 13:01**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b>Total Metals - STL</b>					
Manganese	< 0.0030 mg/L		08/23/13 12:07	WPS	EPA 200.7 R4.4 04KS
Molybdenum	< 0.012 mg/L		08/23/13 12:07	WPS	EPA 200.7 R4.4 04KS
Nickel	< 0.0020 mg/L		08/23/13 12:07	WPS	EPA 200.7 R4.4 04KS
Potassium	< 0.050 mg/L		08/23/13 12:07	WPS	EPA 200.7 R4.4*
Selenium	< 0.010 mg/L		08/23/13 12:07	WPS	EPA 200.7 R4.4 04KS
Silver	< 0.0020 mg/L		08/23/13 12:07	WPS	EPA 200.7 R4.4 04KS
Sodium	< 0.20 mg/L		08/23/13 12:07	WPS	EPA 200.7 R4.4*
Thallium	< 0.020 mg/L		08/23/13 12:07	WPS	EPA 200.7 R4.4 04KS
Vanadium	< 0.0020 mg/L		08/23/13 12:07	WPS	EPA 200.7 R4.4 04KS
Zinc	< 0.010 mg/L		08/23/13 12:07	WPS	EPA 200.7 R4.4 04KS





**PDC Laboratories, Inc.**

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Bridgeton Landfill  
13570 St Charles Rock Road  
St. Louis, MO 63044  
Attn: Dan Feezor

Date Received: 08/20/13 12:28  
Report Date: 08/27/13  
Customer #: 277310

**\*Laboratory Results\***

**Notes**

This report shall not be reproduced, except in full, without the written approval of the laboratory.

PDC Laboratories participates in the following accreditation/certification and proficiency programs at the following locations. Endorsement by Federal or State Governments or their agencies is not implied.

- PIA PDC Laboratories - Peoria, IL  
TNI Accreditation for Drinking Water, Wastewater, Hazardous and Solid Wastes Fields of Testing through IL EPA Lab No. 100230  
Illinois Department of Public Health Bacteriological Analysis in Drinking Water Approved Laboratory Registry No. 17553  
Drinking Water Certifications: Kansas (E-10338); Missouri (870); Wisconsin (998284430); Indiana (C-IL-040); Iowa (240)  
Wastewater Certifications: Arkansas (88-0677); Wisconsin (998284430); Iowa (240); Kansas (E-10335)  
Hazardous/Solid Waste Certifications: Arkansas (88-0677); Wisconsin (998284430); Iowa (240); Kansas (E-10335)  
UST Certification; Iowa (240)
- SPM PDC Laboratories - Springfield, MO  
EPA DMR-QA Program
- STL PDC Laboratories - St. Louis, MO  
TNI Accreditation for Wastewater, Hazardous and Solid Wastes Fields of Testing through KS Lab No. E-10389
- JER PDC Laboratories - Jerseyville, IL  
Illinois Department of Public Health Bacteriological Analysis in Drinking Water Approved Laboratory Registry No. 17521  
Drinking Water Certifications: Missouri (430)

\* Not a TNI accredited analyte

- Xa The intensity of a secondary ion exceeds the relative intensity in the reference spectra.
- X Matrix spike diluted out, due to matrix.
- S Surrogate compound diluted below a reliable quantitation level.
- Q2 MSD failed %R
- Q1 MS Failed %R
- H Test performed after the expiration of the appropriate regulatory/advisory maximum allowable hold time.

Certified by: Barb Pandolfo For Roxann Shull, Client Services Supervisor



**PDC Laboratories, Inc. – St. Louis**  
**3278 N. Highway 67 (Lindbergh)**  
**Florissant, MO 63033**  
 www.pdcclab.com

**CHAIN OF CUSTODY RECORD**

Phone (314) 432-0550 or (314) 921-4488  
 Fax (314) 432-4977

State where samples collected MO

(Instructions/Sample Acceptance Policy on Reverse)

ALL SHADED AREAS MUST BE COMPLETED BY CLIENT (PLEASE PRINT)

<b>1 CLIENT</b> <u>BARR ENGINEERING</u>		PROJECT NUMBER	P.O. NUMBER	MEANS SHIPPED			<b>3 ANALYSIS REQUESTED</b> (FOR LAB USE ONLY)							<b>4 (FOR LAB USE ONLY)</b> LOGIN # <u>3083069</u> LOGGED BY: <u>HE</u> LAB PROJ. # TEMPLATE: PROJ. MGR.:					
ADDRESS <u>1001 DIAMOND RIDGE, SUITE 1100</u>		PHONE NUMBER	FAX NUMBER	EMAIL ADDRESS <u>egalbraith@barr.com</u>			MATRIX TYPES: WW-WASTEWATER DW-DRINKING WATER GW-GROUND WATER WWSL-SLUDGE NAS-SOLID L'ONIT-LEACHATE NAL-NONAQUEOUS SOIL-SOILS	P/P/015 420.1/TOL 4500P SVOC5 G25	TOTAL METALS +	DISS METALS LF 2007	TDS 2540Y TSS 2540D/	ALK 2320B	N-N C1, S04 P04 300.0/	O+G 1664	BOD-5 BOD LF 5210B	TKN 45001B-D/ANEN CH 4500P C4G	COD 5200D/M13 4500M13-F/	TOTAL P 4500P-E	MLSS/M-LYSS
CITY STATE ZIP <u>JEFF CITY, MO 65109</u>		SAMPLER <u>WILLIAM ABERNATHY</u>	SAMPLER'S SIGNATURE <u>[Signature]</u>					REMARKS											
<b>2 SAMPLE DESCRIPTION</b> AS YOU WANT ON REPORT		DATE COLLECTED	TIME COLLECTED	S/MPLR TYPE	MATRIX TYPE	Bottle Count													
1A		8/19/13	1217	✓	LCHT	13	4	2	1	2	3	1							
1D		8/19/13	1301	✓	LCHT	13	4	2	1	2	3	1							
1E		8/19/13	1240	✓	LCHT	13	4	2	1	2	3	1							
2		8/19/13	1230	✓	LCHT	13	4	2	1	2	3	1							
3		8/19/13	1227	✓	LCHT	1													
4		8/19/13	1214	✓	LCHT	13	4	2	1	2	3	1							
FIELD BLANK		8/19/13	1301	✓	DI	13	4	2	1	2	3	1							
<b>5 TURNAROUND TIME</b> (RUSH TAT IS SUBJECT TO PDC LABS APPROVAL AND SURCHARGE) NORMAL (8-10 Bus. Days) <u>RUSH (5 Bus. Days)</u> Fastrak™ (3 Bus. Days) 1-2 Bus. Days Same Day DATE DUE _____ RESULTS BY: <u>E-MAIL</u> FAX PHONE CALL PHONE/FAX# IF DIFFERENT FROM ABOVE							The sample temperature will be measured upon receipt at the lab. By initialing this area, you request that the lab notify you, before proceeding with analysis, if the sample temperature is outside of the range of 0.1-6.0°C. By not initialing this area, you allow the lab to proceed with analytical testing regardless of the sample temperature.												
<b>7 RELINQUISHED BY: (SIGNATURE)</b> <u>[Signature]</u>		DATE 8/20/13	TIME 1146	<b>RECEIVED BY:</b> <u>Heather Cochran</u>			DATE 8/20/13	TIME 11:46	<b>8 COMMENTS: (FOR LAB USE ONLY)</b> SAMPLE TEMPERATURE UPON RECEIPT <u>32</u> °C CHILL PROCESS STARTED PRIOR TO RECEIPT SAMPLE(S) RECEIVED ON ICE PROPER BOTTLES RECEIVED IN GOOD CONDITION BOTTLES FILLED WITH ADEQUATE VOLUME SAMPLES RECEIVED WITHIN HOLD TIME(S) (EXCLUDES TYPICAL FIELD PARAMETERS) DATE AND TIME TAKEN FROM SAMPLE BOTTLE YORN YORN YORN YORN										
RELINQUISHED BY: (SIGNATURE)		DATE	TIME	RECEIVED BY:			DATE	TIME											
RELINQUISHED BY: (SIGNATURE)		DATE	TIME	RECEIVED BY:			DATE	TIME											
RELINQUISHED BY: (SIGNATURE)		DATE	TIME	RECEIVED BY:			DATE	TIME											

Thank you for using PDC Laboratories, Inc. Locations in Peoria, IL; St. Louis, MO; and Springfield, MO

PAGE 1 OF 1

**SUBCONTRACT ORDER**

**PDC Laboratories, Inc.**

**3083069**

118

**SENDING LABORATORY:**

- PDC Laboratories, Inc, 2231 W Altorfer Peoria, IL 61615
- PDC Laboratories, inc, 1805 W Sunset, Springfield, MO 65807
- PDC Laboratories, Inc, 3278 N Highway 67, Florissant, MO 63033

Project Manager: Roxann Shull                      rshull@pdclab.com    Phone: 314-595-7337

Date Shipped 8/20/13  
 Sample Origin (State) MO  
 PO# \_\_\_\_\_  
 Total # of Containers 12

**RECEIVING LABORATORY:**

PDC Laboratories, Inc.  
 PO Box 9071  
 Peoria, IL 61612-9071  
 Phone : (309) 692-9688

Analysis	Due	Expires	Comments
<b>Sample ID: 3083069-01    Water    Sampled:08/19/13 12:17</b>			
TOC	08/23/13 16:00	09/16/13 12:17	
TKN	08/23/13 16:00	09/16/13 12:17	
<b>Sample ID: 3083069-02    Water    Sampled:08/19/13 13:01</b>			
TOC	08/23/13 16:00	09/16/13 13:01	
TKN	08/23/13 16:00	09/16/13 13:01	
<b>Sample ID: 3083069-03    Water    Sampled:08/19/13 12:40</b>			
TOC	08/23/13 16:00	09/16/13 12:40	
TKN	08/23/13 16:00	09/16/13 12:40	
<b>Sample ID: 3083069-04    Water    Sampled:08/19/13 12:30</b>			
TOC	08/23/13 16:00	09/16/13 12:30	
TKN	08/23/13 16:00	09/16/13 12:30	

Turn-Around Time Requested (circle one):    NORMAL    **RUSH**    Date Results Needed: 8/23/13

Relinquished By	Date/Time	Received By	Date/Time	Sample Temperature Upon Receipt	<u>19</u> C
<u>Heather Callant</u>	<u>8/20/13</u>	<u>Melissa Silbey</u>	<u>8/21/13</u>	Sample(s) Received on Ice	<input checked="" type="radio"/> Y <input type="radio"/> N
Relinquished By	Date/Time	Received By	Date/Time	Proper Bottles Received in Good Condition	<input checked="" type="radio"/> Y <input type="radio"/> N
			<u>9:20</u>	Bottles Filled with Adequate Volume	<input checked="" type="radio"/> Y <input type="radio"/> N
				Samples Received Within Hold Time	<input checked="" type="radio"/> Y <input type="radio"/> N
				Date/Time Taken From Sample Bottle	<input checked="" type="radio"/> Y <input type="radio"/> N

SUBCONTRACT ORDER

PDC Laboratories, Inc.

3083069

MS

Analysis	Due	Expires	Comments
<b>Sample ID: 3083069-06</b>			
	Water	Sampled:08/19/13 12:14	
TOC	08/23/13 16:00	09/16/13 12:14	
TKN	08/23/13 16:00	09/16/13 12:14	
<b>Sample ID: 3083069-07</b>			
	Water	Sampled:08/19/13 13:01	
TOC	08/23/13 16:00	09/16/13 13:01	
TKN	08/23/13 16:00	09/16/13 13:01	

Turn-Around Time Requested (circle one): NORMAL RUSH Date Results Needed: 8/23/13

Relinquished By: <u>H. Letting (signature)</u> Date/Time: <u>8/20/13</u>		Received By: _____ Date/Time: _____		Sample Temperature Upon Receipt: _____ C
				Sample(s) Received on Ice: Y or N
				Proper Bottles Received in Good Condition: Y or N
				Bottles Filled with Adequate Volume: Y or N
				Samples Received Within Hold Time: Y or N
				Date/Time Taken From Sample Bottle: Y or N



**PDC Laboratories, Inc.**

3278 N Highway 67 • Florissant, MO 63033  
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Bridgeton Landfill  
13570 St Charles Rock Road  
St. Louis, MO 63044  
Attn: Dan Feezor

Date Received: 08/22/13 15:55  
Report Date: 09/11/13  
Customer #: 277310

**\*Laboratory Results\***

Sample No: **3083558-01**  
Sample Description: **Location 1A**

Collect Date: **08/22/13 11:40**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method	
<b><u>Anions - STL</u></b>						
Chloride	5000 mg/L		08/23/13 11:14	DWM	EPA 300.0 R2.1	04KS
Nitrate-N	< 50 mg/L		08/23/13 09:12	DWM	EPA 300.0 R2.1	04KS
Nitrite-N	< 50 mg/L		08/23/13 09:12	DWM	EPA 300.0 R2.1	04KS
Sulfate	820 mg/L		08/23/13 09:12	DWM	EPA 300.0 R2.1	04KS
<b><u>General Chemistry - PIA</u></b>						
Total Organic Carbon (TOC)	18000 mg/L		08/27/13 19:22	lgsjw	5310C	KS,IL,IA,WI,AR
<b><u>General Chemistry - STL</u></b>						
Alkalinity - total as CaCO3	7300 mg/L		08/23/13 10:00	ACV	SM 2320B 18Ed*	
BOD	37000 mg/L		08/23/13 11:00	DAW	SM 5210B 18Ed	04KS
BOD - soluble	36000 mg/L		08/23/13 11:00	DAW	SM 5210B 18Ed*	
COD	63000 mg/L		08/23/13 10:15	DAW	SM 5220D 18Ed	04KS
Cyanide	0.012 mg/L		08/23/13 12:00	DWM	SM 4500-CN C E 18Ed*	
Cyanide - amenable	< 0.0050 mg/L		08/26/13 15:30	DWM	SM 4500CN CG 18Ed*	
Cyanide - weak acid dissociable	0.0080 mg/L		08/23/13 12:00	DWM	ASTM 1310-86*	
Oil & Grease - total	< 17 mg/L		08/23/13 12:00	mep	EPA 1664A	04KS
Phenol	75 mg/L		08/26/13 12:00	DWM	EPA 420.1	04KS
Solids - total dissolved solids (TDS)	49000 mg/L		08/23/13 15:30	DAW	SM 2540C 18Ed*	
Solids - total suspended solids (TSS)	1500 mg/L		08/23/13 09:50	DAW	SM 2540D 18Ed	04KS
<b><u>Nutrients - PIA</u></b>						
Total Kjeldahl Nitrogen (TKN)	1300 mg/L		08/28/13 16:53	lgthh	SM 4500-N B & NH3-H 18Ed MOD	IL,IA,WI,AR
<b><u>Nutrients - STL</u></b>						
Ammonia-N	820 mg/L		08/26/13 11:30	ACV	SM(18) 4500 NH3 F	04KS
Phosphorus - ortho as P	< 5.0 mg/L	H	08/26/13 16:30	ACV	SM 4500P B E 18ed*	
Phosphorus - total as P	< 5.0 mg/L		08/26/13 15:45	ACV	SM 4500P B E 18ed	04KS
<b><u>Semivolatile Organics - PIA</u></b>						
N-Nitrosodimethylamine	< 1000 ug/L		09/03/13 14:00	CAP	EPA 625	AR,IL,IA,KS,WI
Phenol	18000 ug/L		09/06/13 03:09	SNS	EPA 625	AR,IL,IA,KS,WI



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Date Received: 08/22/13 15:55  
Report Date: 09/11/13  
Customer #: 277310

**\*Laboratory Results\***

Sample No: **3083558-01**  
Sample Description: **Location 1A**

Collect Date: **08/22/13 11:40**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b>Semivolatile Organics - PIA</b>					
Bis(2-chloroethyl) ether	< 1000 ug/L		09/03/13 14:00	CAP	EPA 625 AR,IL,IA,KS, WI
2-Chlorophenol	< 1000 ug/L		09/03/13 14:00	CAP	EPA 625 AR,IL,IA,KS, WI
1,3-Dichlorobenzene	< 1000 ug/L		09/03/13 14:00	CAP	EPA 625 AR,IL,IA,WI
1,4-Dichlorobenzene	< 1000 ug/L		09/03/13 14:00	CAP	EPA 625 AR,IL,IA,WI
1,2-Dichlorobenzene	< 1000 ug/L		09/03/13 14:00	CAP	EPA 625 AR,IL,IA,WI
Bis(2-chloroisopropyl) ether	< 1000 ug/L		09/03/13 14:00	CAP	EPA 625 AR,IL,IA,KS, WI
N-Nitrosodi-n-propylamine	< 1000 ug/L		09/03/13 14:00	CAP	EPA 625 AR,IL,IA,KS, WI
Hexachloroethane	< 1000 ug/L		09/03/13 14:00	CAP	EPA 625 AR,IL,IA,KS, WI
Nitrobenzene	< 1000 ug/L		09/03/13 14:00	CAP	EPA 625 AR,IL,IA,KS, WI
Isophorone	< 1000 ug/L		09/03/13 14:00	CAP	EPA 625 AR,IL,IA,KS, WI
2-Nitrophenol	< 1000 ug/L		09/03/13 14:00	CAP	EPA 625 AR,IL,IA,KS, WI
2,4-Dimethylphenol	< 1000 ug/L		09/03/13 14:00	CAP	EPA 625 AR,IL,IA,KS, WI
Bis(2-chloroethoxy) methane	< 1000 ug/L		09/03/13 14:00	CAP	EPA 625 AR,IL,IA,KS, WI
2,4-Dichlorophenol	< 1000 ug/L		09/03/13 14:00	CAP	EPA 625 AR,IL,IA,KS, WI
1,2,4-Trichlorobenzene	< 1000 ug/L		09/03/13 14:00	CAP	EPA 625 AR,IL,IA,KS, WI
Naphthalene	1200 ug/L		09/03/13 14:00	CAP	EPA 625 AR,IL,IA,KS, WI
Hexachlorobutadiene	< 1000 ug/L		09/03/13 14:00	CAP	EPA 625 AR,IL,IA,KS, WI
4-Chloro-3-methylphenol	< 1000 ug/L		09/03/13 14:00	CAP	EPA 625 AR,IL,IA,KS, WI
Hexachlorocyclopentadiene	< 5000 ug/L		09/03/13 14:00	CAP	EPA 625 AR,IL,IA,KS, WI
2,4,6-Trichlorophenol	< 5000 ug/L		09/03/13 14:00	CAP	EPA 625 AR,IL,IA,KS, WI
2-Chloronaphthalene	< 1000 ug/L		09/03/13 14:00	CAP	EPA 625 AR,IL,IA,KS, WI
Dimethyl phthalate	< 1000 ug/L		09/03/13 14:00	CAP	EPA 625 AR,IL,IA,KS, WI
2,6-Dinitrotoluene	< 1000 ug/L		09/03/13 14:00	CAP	EPA 625 AR,IL,IA,KS, WI

3083558



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Date Received: 08/22/13 15:55  
Report Date: 09/11/13  
Customer #: 277310

**\*Laboratory Results\***

Sample No: **3083558-01**  
Sample Description: **Location 1A**

Collect Date: **08/22/13 11:40**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b>Semivolatile Organics - PIA</b>					
Acenaphthylene	< 1000 ug/L		09/03/13 14:00	CAP	EPA 625 AR,IL,IA,KS, WI
Acenaphthene	< 1000 ug/L		09/03/13 14:00	CAP	EPA 625 AR,IL,IA,KS, WI
2,4-Dinitrophenol	< 5000 ug/L		09/03/13 14:00	CAP	EPA 625 AR,IL,IA,KS, WI
4-Nitrophenol	< 5000 ug/L		09/03/13 14:00	CAP	EPA 625 AR,IL,IA,KS, WI
2,4-Dinitrotoluene	< 1000 ug/L		09/03/13 14:00	CAP	EPA 625 AR,IL,IA,KS, WI
Diethyl phthalate	< 1000 ug/L		09/03/13 14:00	CAP	EPA 625 AR,IL,IA,KS, WI
Fluorene	< 1000 ug/L		09/03/13 14:00	CAP	EPA 625 AR,IL,IA,KS, WI
4-Chlorophenylphenyl ether	< 1000 ug/L		09/03/13 14:00	CAP	EPA 625 AR,IL,IA,KS, WI
4,6-Dinitro-2-methylphenol	< 5000 ug/L		09/03/13 14:00	CAP	EPA 625 AR,IL,IA,KS, WI
N-Nitrosodiphenylamine	< 1000 ug/L		09/03/13 14:00	CAP	EPA 625 AR,IL,IA,KS, WI
1,2-Diphenylhydrazine	< 1000 ug/L		09/03/13 14:00	CAP	EPA 625 AR,IL
4-Bromophenyl phenyl ether	< 1000 ug/L		09/03/13 14:00	CAP	EPA 625 AR,IL,IA,KS, WI
Hexachlorobenzene	1300 ug/L		09/03/13 14:00	CAP	EPA 625 AR,IL,IA,KS, WI
Pentachlorophenol	< 5000 ug/L		09/03/13 14:00	CAP	EPA 625 AR,IL,IA,KS, WI
Phenanthrene	1000 ug/L		09/03/13 14:00	CAP	EPA 625 AR,IL,IA,KS, WI
Anthracene	< 1000 ug/L		09/03/13 14:00	CAP	EPA 625 AR,IL,IA,KS, WI
Di-n-butyl phthalate	1000 ug/L		09/03/13 14:00	CAP	EPA 625 AR,IL,IA,KS, WI
Fluoranthene	< 1000 ug/L		09/03/13 14:00	CAP	EPA 625 AR,IL,IA,KS, WI
Benzydine	< 8000 ug/L		09/03/13 14:00	CAP	EPA 625 AR,IL,IA,KS, WI
Pyrene	< 1000 ug/L		09/03/13 14:00	CAP	EPA 625 AR,IL,IA,KS, WI
Butyl benzyl phthalate	< 1000 ug/L		09/03/13 14:00	CAP	EPA 625 AR,IL,IA,KS, WI
Benzo(a)anthracene	< 1000 ug/L		09/03/13 14:00	CAP	EPA 625 AR,IL,IA,KS, WI



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Attn: Dan Feezor

Date Received: 08/22/13 15:55  
Report Date: 09/11/13  
Customer #: 277310

**\*Laboratory Results\***

Sample No: **3083558-01**  
Sample Description: **Location 1A**

Collect Date: **08/22/13 11:40**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b>Semivolatile Organics - PIA</b>					
3,3'-Dichlorobenzidine	< 2000 ug/L		09/03/13 14:00	CAP	EPA 625 AR,IL,IA,KS, WI
Chrysene	< 1000 ug/L		09/03/13 14:00	CAP	EPA 625 AR,IL,IA,KS, WI
Bis(2-ethylhexyl) phthalate	1100 ug/L		09/03/13 14:00	CAP	EPA 625 AR,IL,IA,KS, WI
Di-n-octyl phthalate	1000 ug/L		09/03/13 14:00	CAP	EPA 625 AR,IL,IA,KS, WI
Benzo(b)fluoranthene	< 1000 ug/L		09/03/13 14:00	CAP	EPA 625 AR,IL,IA,KS, WI
2,3,7,8-TCDD Screen	< 5000 ug/L		09/03/13 14:00	CAP	EPA 625*
Benzo(k)fluoranthene	< 1000 ug/L		09/03/13 14:00	CAP	EPA 625 AR,IL,IA,KS, WI
Benzo(a)pyrene	< 1000 ug/L		09/03/13 14:00	CAP	EPA 625 AR,IL,IA,KS, WI
Indeno(1,2,3-cd)pyrene	< 1000 ug/L		09/03/13 14:00	CAP	EPA 625 AR,IL,IA,KS, WI
Dibenzo(a,h)anthracene	< 1000 ug/L		09/03/13 14:00	CAP	EPA 625 AR,IL,IA,KS, WI
Benzo(g,h,i)perylene	< 1000 ug/L		09/03/13 14:00	CAP	EPA 625 AR,IL,IA,KS, WI
<b>Soluble Metals - STL</b>					
Silicon as SiO2	100 mg/L		08/27/13 13:00	WPS	EPA 200.7 R4.4
Aluminum	1.7 mg/L		08/27/13 13:00	WPS	EPA 200.7 R4.4*
Mercury	< 0.0020 mg/L		08/27/13 12:17	WPS	EPA 245.1 R3.0 / SW 7470A 04KS
Antimony	0.12 mg/L		08/27/13 13:00	WPS	EPA 200.7 R4.4 04KS
Copper	< 0.020 mg/L		08/27/13 13:00	WPS	EPA 200.7 R4.4 04KS
Silver	< 0.020 mg/L		08/27/13 13:00	WPS	EPA 200.7 R4.4 04KS
Arsenic	0.69 mg/L		08/27/13 13:00	WPS	EPA 200.7 R4.4 04KS
Barium	3.9 mg/L		08/27/13 13:00	WPS	EPA 200.7 R4.4 04KS
Beryllium	< 0.010 mg/L		08/27/13 13:00	WPS	EPA 200.7 R4.4 04KS
Boron	20 mg/L		08/27/13 13:00	WPS	EPA 200.7 R4.4*
Cadmium	0.037 mg/L		08/27/13 13:00	WPS	EPA 200.7 R4.4 04KS
Calcium	4500 mg/L		08/27/13 09:13	WPS	EPA 200.7 R4.4 04KS
Chromium	0.23 mg/L		08/27/13 13:00	WPS	EPA 200.7 R4.4 04KS
Cobalt	0.053 mg/L		08/27/13 13:00	WPS	EPA 200.7 R4.4 04KS
Iron	670 mg/L		08/27/13 10:14	WPS	EPA 200.7 R4.4 04KS





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Date Received: 08/22/13 15:55  
Report Date: 09/11/13  
Customer #: 277310

**\*Laboratory Results\***

Sample No: **3083558-01**  
Sample Description: **Location 1A**

Collect Date: **08/22/13 11:40**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b><u>Soluble Metals - STL</u></b>					
Lead	0.13 mg/L		08/27/13 13:00	WPS	EPA 200.7 R4.4 04KS
Magnesium	420 mg/L		08/27/13 10:14	WPS	EPA 200.7 R4.4 04KS
Manganese	61 mg/L		08/27/13 13:00	WPS	EPA 200.7 R4.4 04KS
Molybdenum	< 0.12 mg/L		08/27/13 13:00	WPS	EPA 200.7 R4.4 04KS
Nickel	0.12 mg/L		08/27/13 13:00	WPS	EPA 200.7 R4.4 04KS
Potassium	610 mg/L		08/28/13 16:11	WPS	EPA 200.7 R4.4*
Selenium	< 0.10 mg/L		08/27/13 13:00	WPS	EPA 200.7 R4.4 04KS
Sodium	3100 mg/L		08/27/13 09:13	WPS	EPA 200.7 R4.4*
Thallium	< 0.20 mg/L		08/27/13 13:00	WPS	EPA 200.7 R4.4 04KS
Vanadium	0.047 mg/L		08/27/13 13:00	WPS	EPA 200.7 R4.4 04KS
Zinc	11 mg/L		08/27/13 13:00	WPS	EPA 200.7 R4.4 04KS
Silicon	49 mg/L		08/27/13 13:00	WPS	EPA 200.7 R4.4*
<b><u>Total Metals - STL</u></b>					
Silicon as SiO2	120 mg/L		08/27/13 13:04	WPS	EPA 200.7 R4.4
Aluminum	3.8 mg/L		08/27/13 13:04	WPS	EPA 200.7 R4.4*
Mercury	0.013 mg/L		08/27/13 12:17	WPS	EPA 245.1 R3.0 / SW 7470A 04KS
Antimony	0.19 mg/L		08/27/13 13:04	WPS	EPA 200.7 R4.4 04KS
Silicon	57 mg/L		08/27/13 13:04	WPS	EPA 200.7 R4.4*
Arsenic	0.70 mg/L		08/27/13 13:04	WPS	EPA 200.7 R4.4 04KS
Barium	4.1 mg/L		08/27/13 13:04	WPS	EPA 200.7 R4.4 04KS
Beryllium	< 0.010 mg/L		08/27/13 13:04	WPS	EPA 200.7 R4.4 04KS
Hardness	13000 mg/L		08/27/13 11:43	WPS	SM 2340B
Boron	21 mg/L		08/27/13 13:04	WPS	EPA 200.7 R4.4*
Cadmium	0.049 mg/L		08/27/13 13:04	WPS	EPA 200.7 R4.4 04KS
Calcium	4700 mg/L		08/27/13 09:17	WPS	EPA 200.7 R4.4 04KS
Chromium	0.26 mg/L		08/27/13 13:04	WPS	EPA 200.7 R4.4 04KS
Cobalt	0.070 mg/L		08/27/13 13:04	WPS	EPA 200.7 R4.4 04KS
Copper	0.10 mg/L		08/27/13 13:04	WPS	EPA 200.7 R4.4 04KS
Iron	730 mg/L		08/27/13 11:43	WPS	EPA 200.7 R4.4 04KS
Lead	0.24 mg/L		08/27/13 13:04	WPS	EPA 200.7 R4.4 04KS
Magnesium	380 mg/L		08/27/13 11:43	WPS	EPA 200.7 R4.4 04KS
Manganese	61 mg/L		08/27/13 13:04	WPS	EPA 200.7 R4.4 04KS
Molybdenum	< 0.12 mg/L		08/27/13 13:04	WPS	EPA 200.7 R4.4 04KS



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Date Received: 08/22/13 15:55  
Report Date: 09/11/13  
Customer #: 277310

**\*Laboratory Results\***

Sample No: **3083558-01**  
Sample Description: **Location 1A**

Collect Date: **08/22/13 11:40**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b><u>Total Metals - STL</u></b>					
Nickel	0.13 mg/L		08/27/13 13:04	WPS	EPA 200.7 R4.4 04KS
Potassium	580 mg/L		08/28/13 16:15	WPS	EPA 200.7 R4.4*
Selenium	< 0.10 mg/L		08/27/13 13:04	WPS	EPA 200.7 R4.4 04KS
Silver	< 0.020 mg/L		08/27/13 13:04	WPS	EPA 200.7 R4.4 04KS
Sodium	3200 mg/L		08/27/13 09:17	WPS	EPA 200.7 R4.4*
Thallium	< 0.20 mg/L		08/27/13 13:04	WPS	EPA 200.7 R4.4 04KS
Vanadium	0.056 mg/L		08/27/13 13:04	WPS	EPA 200.7 R4.4 04KS
Zinc	13 mg/L		08/27/13 13:04	WPS	EPA 200.7 R4.4 04KS

Sample No: **3083558-02**  
Sample Description: **Location 1D**

Collect Date: **08/22/13 12:30**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b><u>Anions - STL</u></b>					
Chloride	4400 mg/L		08/23/13 11:32	DWM	EPA 300.0 R2.1 04KS
Nitrate-N	< 50 mg/L		08/23/13 09:30	DWM	EPA 300.0 R2.1 04KS
Nitrite-N	< 50 mg/L		08/23/13 09:30	DWM	EPA 300.0 R2.1 04KS
Sulfate	740 mg/L		08/23/13 09:30	DWM	EPA 300.0 R2.1 04KS
<b><u>General Chemistry - PIA</u></b>					
Total Organic Carbon (TOC)	17000 mg/L		08/27/13 19:29	lgsjw	5310C KS,IL,IA,WI,AR
<b><u>General Chemistry - STL</u></b>					
Alkalinity - total as CaCO3	8800 mg/L		08/23/13 10:00	ACV	SM 2320B 18Ed*
BOD	34000 mg/L		08/23/13 11:00	DAW	SM 5210B 18Ed 04KS
BOD - soluble	33000 mg/L		08/23/13 11:00	DAW	SM 5210B 18Ed*
COD	60000 mg/L		08/23/13 10:15	DAW	SM 5220D 18Ed 04KS
Cyanide	0.0070 mg/L		08/23/13 12:00	DWM	SM 4500-CN C E 18Ed*
Cyanide - amenable	< 0.0050 mg/L		08/26/13 15:30	DWM	SM 4500CN CG 18Ed*
Cyanide - weak acid dissociable	0.011 mg/L		08/23/13 12:00	DWM	ASTM 1310-86*
Oil & Grease - total	< 5.0 mg/L		08/23/13 12:00	mep	EPA 1664A 04KS
Phenol	75 mg/L		08/26/13 12:00	DWM	EPA 420.1 04KS

3083558



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Report Date: 09/11/13  
Customer #: 277310

**\*Laboratory Results\***

Sample No: **3083558-02**  
Sample Description: **Location 1D**

Collect Date: **08/22/13 12:30**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b>General Chemistry - STL</b>					
Solids - total dissolved solids (TDS)	49000 mg/L		08/23/13 15:30	DAW	SM 2540C 18Ed*
Solids - total suspended solids (TSS)	300 mg/L		08/23/13 09:50	DAW	SM 2540D 18Ed 04KS
<b>Nutrients - PIA</b>					
Total Kjeldahl Nitrogen (TKN)	1100 mg/L		08/28/13 16:54	lgthh	SM 4500-N B & NH3-H 18Ed MOD IL,IA,WI,AR
<b>Nutrients - STL</b>					
Ammonia-N	770 mg/L		08/26/13 11:30	ACV	SM(18) 4500 NH3 F 04KS
Phosphorus - ortho as P	< 5.0 mg/L	H	08/26/13 16:30	ACV	SM 4500P B E 18ed* 04KS
Phosphorus - total as P	< 5.0 mg/L		08/26/13 15:45	ACV	SM 4500P B E 18ed 04KS
<b>Semivolatile Organics - PIA</b>					
N-Nitrosodimethylamine	< 1000 ug/L		09/03/13 16:18	CAP	EPA 625 AR,IL,IA,KS, WI
Phenol	16000 ug/L		09/06/13 03:38	SNS	EPA 625 AR,IL,IA,KS, WI
Bis(2-chloroethyl) ether	< 1000 ug/L		09/03/13 16:18	CAP	EPA 625 AR,IL,IA,KS, WI
2-Chlorophenol	< 1000 ug/L		09/03/13 16:18	CAP	EPA 625 AR,IL,IA,KS, WI
1,3-Dichlorobenzene	< 1000 ug/L		09/03/13 16:18	CAP	EPA 625 AR,IL,IA,WI
1,4-Dichlorobenzene	< 1000 ug/L		09/03/13 16:18	CAP	EPA 625 AR,IL,IA,WI
1,2-Dichlorobenzene	< 1000 ug/L		09/03/13 16:18	CAP	EPA 625 AR,IL,IA,WI
Bis(2-chloroisopropyl) ether	< 1000 ug/L		09/03/13 16:18	CAP	EPA 625 AR,IL,IA,KS, WI
N-Nitrosodi-n-propylamine	< 1000 ug/L		09/03/13 16:18	CAP	EPA 625 AR,IL,IA,KS, WI
Hexachloroethane	< 1000 ug/L		09/03/13 16:18	CAP	EPA 625 AR,IL,IA,KS, WI
Nitrobenzene	< 1000 ug/L		09/03/13 16:18	CAP	EPA 625 AR,IL,IA,KS, WI
Isophorone	< 1000 ug/L		09/03/13 16:18	CAP	EPA 625 AR,IL,IA,KS, WI
2-Nitrophenol	< 1000 ug/L		09/03/13 16:18	CAP	EPA 625 AR,IL,IA,KS, WI
2,4-Dimethylphenol	< 1000 ug/L		09/03/13 16:18	CAP	EPA 625 AR,IL,IA,KS, WI
Bis(2-chloroethoxy) methane	< 1000 ug/L		09/03/13 16:18	CAP	EPA 625 AR,IL,IA,KS, WI

3083558



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Bridgeton Landfill  
13570 St Charles Rock Road  
St. Louis, MO 63044  
Attn: Dan Feezor

Date Received: 08/22/13 15:55  
Report Date: 09/11/13  
Customer #: 277310

**\*Laboratory Results\***

Sample No: **3083558-02**  
Sample Description: **Location 1D**

Collect Date: **08/22/13 12:30**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b>Semivolatile Organics - PIA</b>					
2,4-Dichlorophenol	< 1000 ug/L		09/03/13 16:18	CAP	EPA 625 AR,IL,IA,KS, WI
1,2,4-Trichlorobenzene	< 1000 ug/L		09/03/13 16:18	CAP	EPA 625 AR,IL,IA,KS, WI
Naphthalene	< 1000 ug/L		09/03/13 16:18	CAP	EPA 625 AR,IL,IA,KS, WI
Hexachlorobutadiene	< 1000 ug/L		09/03/13 16:18	CAP	EPA 625 AR,IL,IA,KS, WI
4-Chloro-3-methylphenol	< 1000 ug/L		09/03/13 16:18	CAP	EPA 625 AR,IL,IA,KS, WI
Hexachlorocyclopentadiene	< 5000 ug/L		09/03/13 16:18	CAP	EPA 625 AR,IL,IA,KS, WI
2,4,6-Trichlorophenol	< 5000 ug/L		09/03/13 16:18	CAP	EPA 625 AR,IL,IA,KS, WI
2-Chloronaphthalene	< 1000 ug/L		09/03/13 16:18	CAP	EPA 625 AR,IL,IA,KS, WI
Dimethyl phthalate	< 1000 ug/L		09/03/13 16:18	CAP	EPA 625 AR,IL,IA,KS, WI
2,6-Dinitrotoluene	< 1000 ug/L		09/03/13 16:18	CAP	EPA 625 AR,IL,IA,KS, WI
Acenaphthylene	< 1000 ug/L		09/03/13 16:18	CAP	EPA 625 AR,IL,IA,KS, WI
Acenaphthene	< 1000 ug/L		09/03/13 16:18	CAP	EPA 625 AR,IL,IA,KS, WI
2,4-Dinitrophenol	< 5000 ug/L		09/03/13 16:18	CAP	EPA 625 AR,IL,IA,KS, WI
4-Nitrophenol	< 5000 ug/L		09/03/13 16:18	CAP	EPA 625 AR,IL,IA,KS, WI
2,4-Dinitrotoluene	< 1000 ug/L		09/03/13 16:18	CAP	EPA 625 AR,IL,IA,KS, WI
Diethyl phthalate	< 1000 ug/L		09/03/13 16:18	CAP	EPA 625 AR,IL,IA,KS, WI
Fluorene	< 1000 ug/L		09/03/13 16:18	CAP	EPA 625 AR,IL,IA,KS, WI
4-Chlorophenylphenyl ether	< 1000 ug/L		09/03/13 16:18	CAP	EPA 625 AR,IL,IA,KS, WI
4,6-Dinitro-2-methylphenol	< 5000 ug/L		09/03/13 16:18	CAP	EPA 625 AR,IL,IA,KS, WI
N-Nitrosodiphenylamine	< 1000 ug/L		09/03/13 16:18	CAP	EPA 625 AR,IL,IA,KS, WI
1,2-Diphenylhydrazine	< 1000 ug/L		09/03/13 16:18	CAP	EPA 625 AR,IL
4-Bromophenyl phenyl ether	< 1000 ug/L		09/03/13 16:18	CAP	EPA 625 AR,IL,IA,KS, WI

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Date Received: 08/22/13 15:55  
Report Date: 09/11/13  
Customer #: 277310

**\*Laboratory Results\***

Sample No: **3083558-02**  
Sample Description: **Location 1D**

Collect Date: **08/22/13 12:30**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b><u>Semivolatile Organics - PIA</u></b>					
Hexachlorobenzene	< 1000 ug/L		09/03/13 16:18	CAP	EPA 625 AR,IL,IA,KS, WI
Pentachlorophenol	< 5000 ug/L		09/03/13 16:18	CAP	EPA 625 AR,IL,IA,KS, WI
Phenanthrene	< 1000 ug/L		09/03/13 16:18	CAP	EPA 625 AR,IL,IA,KS, WI
Anthracene	< 1000 ug/L		09/03/13 16:18	CAP	EPA 625 AR,IL,IA,KS, WI
Di-n-butyl phthalate	< 1000 ug/L		09/03/13 16:18	CAP	EPA 625 AR,IL,IA,KS, WI
Fluoranthene	< 1000 ug/L		09/03/13 16:18	CAP	EPA 625 AR,IL,IA,KS, WI
Benzidine	< 8000 ug/L		09/03/13 16:18	CAP	EPA 625 AR,IL,IA,KS, WI
Pyrene	< 1000 ug/L		09/03/13 16:18	CAP	EPA 625 AR,IL,IA,KS, WI
Butyl benzyl phthalate	< 1000 ug/L		09/03/13 16:18	CAP	EPA 625 AR,IL,IA,KS, WI
Benzo(a)anthracene	< 1000 ug/L		09/03/13 16:18	CAP	EPA 625 AR,IL,IA,KS, WI
3,3'-Dichlorobenzidine	< 2000 ug/L		09/03/13 16:18	CAP	EPA 625 AR,IL,IA,KS, WI
Chrysene	< 1000 ug/L		09/03/13 16:18	CAP	EPA 625 AR,IL,IA,KS, WI
Bis(2-ethylhexyl) phthalate	< 1000 ug/L		09/03/13 16:18	CAP	EPA 625 AR,IL,IA,KS, WI
Di-n-octyl phthalate	< 1000 ug/L		09/03/13 16:18	CAP	EPA 625 AR,IL,IA,KS, WI
Benzo(b)fluoranthene	< 1000 ug/L		09/03/13 16:18	CAP	EPA 625 AR,IL,IA,KS, WI
2,3,7,8-TCDD Screen	< 5000 ug/L		09/03/13 16:18	CAP	EPA 625*
Benzo(k)fluoranthene	< 1000 ug/L		09/03/13 16:18	CAP	EPA 625 AR,IL,IA,KS, WI
Benzo(a)pyrene	< 1000 ug/L		09/03/13 16:18	CAP	EPA 625 AR,IL,IA,KS, WI
Indeno(1,2,3-cd)pyrene	< 1000 ug/L		09/03/13 16:18	CAP	EPA 625 AR,IL,IA,KS, WI
Dibenzo(a,h)anthracene	< 1000 ug/L		09/03/13 16:18	CAP	EPA 625 AR,IL,IA,KS, WI
Benzo(g,h,i)perylene	< 1000 ug/L		09/03/13 16:18	CAP	EPA 625 AR,IL,IA,KS, WI
<b><u>Soluble Metals - STL</u></b>					
Silicon as SiO2	65 mg/L		08/27/13 13:08	WPS	EPA 200.7 R4.4

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**\*Laboratory Results\***

Sample No: **3083558-02**  
Sample Description: **Location 1D**

Collect Date: **08/22/13 12:30**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b><u>Soluble Metals - STL</u></b>					
Aluminum	< 0.15 mg/L		08/27/13 13:08	WPS	EPA 200.7 R4.4*
Mercury	< 0.0020 mg/L		08/27/13 12:17	WPS	EPA 245.1 R3.0 / SW 7470A 04KS
Antimony	0.15 mg/L		08/27/13 13:08	WPS	EPA 200.7 R4.4 04KS
Copper	< 0.020 mg/L		08/27/13 13:08	WPS	EPA 200.7 R4.4 04KS
Silver	< 0.020 mg/L		08/27/13 13:08	WPS	EPA 200.7 R4.4 04KS
Arsenic	0.63 mg/L		08/27/13 13:08	WPS	EPA 200.7 R4.4 04KS
Barium	3.3 mg/L		08/27/13 13:08	WPS	EPA 200.7 R4.4 04KS
Beryllium	< 0.010 mg/L		08/27/13 13:08	WPS	EPA 200.7 R4.4 04KS
Boron	19 mg/L		08/27/13 13:08	WPS	EPA 200.7 R4.4*
Cadmium	< 0.020 mg/L		08/27/13 13:08	WPS	EPA 200.7 R4.4 04KS
Calcium	4200 mg/L		08/27/13 09:21	WPS	EPA 200.7 R4.4 04KS
Chromium	0.15 mg/L		08/27/13 13:08	WPS	EPA 200.7 R4.4 04KS
Cobalt	0.024 mg/L		08/27/13 13:08	WPS	EPA 200.7 R4.4 04KS
Iron	57 mg/L		08/27/13 13:08	WPS	EPA 200.7 R4.4 04KS
Lead	< 0.10 mg/L		08/27/13 13:08	WPS	EPA 200.7 R4.4 04KS
Magnesium	360 mg/L		08/27/13 11:55	WPS	EPA 200.7 R4.4 04KS
Manganese	27 mg/L		08/27/13 13:08	WPS	EPA 200.7 R4.4 04KS
Molybdenum	< 0.12 mg/L		08/27/13 13:08	WPS	EPA 200.7 R4.4 04KS
Nickel	0.11 mg/L		08/27/13 13:08	WPS	EPA 200.7 R4.4 04KS
Potassium	620 mg/L		08/28/13 16:19	WPS	EPA 200.7 R4.4*
Selenium	0.24 mg/L		08/27/13 13:08	WPS	EPA 200.7 R4.4 04KS
Sodium	4600 mg/L		08/27/13 09:21	WPS	EPA 200.7 R4.4*
Thallium	< 0.20 mg/L		08/27/13 13:08	WPS	EPA 200.7 R4.4 04KS
Vanadium	0.028 mg/L		08/27/13 13:08	WPS	EPA 200.7 R4.4 04KS
Zinc	2.0 mg/L		08/27/13 13:08	WPS	EPA 200.7 R4.4 04KS
Silicon	30 mg/L		08/27/13 13:08	WPS	EPA 200.7 R4.4*
<b><u>Total Metals - STL</u></b>					
Silicon as SiO2	65 mg/L		08/27/13 13:12	WPS	EPA 200.7 R4.4
Aluminum	0.49 mg/L		08/27/13 13:12	WPS	EPA 200.7 R4.4*
Mercury	< 0.0020 mg/L		08/27/13 12:17	WPS	EPA 245.1 R3.0 / SW 7470A 04KS
Antimony	0.17 mg/L		08/27/13 13:12	WPS	EPA 200.7 R4.4 04KS
Silicon	31 mg/L		08/27/13 13:12	WPS	EPA 200.7 R4.4*



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St. Louis, MO 63044  
Attn: Dan Feezor

Date Received: 08/22/13 15:55  
Report Date: 09/11/13  
Customer #: 277310

**\*Laboratory Results\***

Sample No: **3083558-02**  
Sample Description: **Location 1D**

Collect Date: **08/22/13 12:30**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b>Total Metals - STL</b>					
Arsenic	0.77 mg/L		08/27/13 13:12	WPS	EPA 200.7 R4.4 04KS
Barium	3.3 mg/L		08/27/13 13:12	WPS	EPA 200.7 R4.4 04KS
Beryllium	< 0.010 mg/L		08/27/13 13:12	WPS	EPA 200.7 R4.4 04KS
Hardness	11000 mg/L		08/27/13 11:59	WPS	SM 2340B
Boron	18 mg/L		08/27/13 13:12	WPS	EPA 200.7 R4.4*
Cadmium	< 0.020 mg/L		08/27/13 13:12	WPS	EPA 200.7 R4.4 04KS
Calcium	4100 mg/L		08/27/13 09:38	WPS	EPA 200.7 R4.4 04KS
Chromium	0.14 mg/L		08/27/13 13:12	WPS	EPA 200.7 R4.4 04KS
Cobalt	0.028 mg/L		08/27/13 13:12	WPS	EPA 200.7 R4.4 04KS
Copper	< 0.020 mg/L		08/27/13 13:12	WPS	EPA 200.7 R4.4 04KS
Iron	94 mg/L		08/27/13 13:12	WPS	EPA 200.7 R4.4 04KS
Lead	< 0.10 mg/L		08/27/13 13:12	WPS	EPA 200.7 R4.4 04KS
Magnesium	320 mg/L		08/27/13 11:59	WPS	EPA 200.7 R4.4 04KS
Manganese	27 mg/L		08/27/13 13:12	WPS	EPA 200.7 R4.4 04KS
Molybdenum	< 0.12 mg/L		08/27/13 13:12	WPS	EPA 200.7 R4.4 04KS
Nickel	0.12 mg/L		08/27/13 13:12	WPS	EPA 200.7 R4.4 04KS
Potassium	590 mg/L		08/28/13 16:23	WPS	EPA 200.7 R4.4*
Selenium	0.15 mg/L		08/27/13 13:12	WPS	EPA 200.7 R4.4 04KS
Silver	< 0.020 mg/L		08/27/13 13:12	WPS	EPA 200.7 R4.4 04KS
Sodium	4300 mg/L		08/27/13 09:38	WPS	EPA 200.7 R4.4*
Thallium	< 0.20 mg/L		08/27/13 13:12	WPS	EPA 200.7 R4.4 04KS
Vanadium	0.026 mg/L		08/27/13 13:12	WPS	EPA 200.7 R4.4 04KS
Zinc	2.5 mg/L		08/27/13 13:12	WPS	EPA 200.7 R4.4 04KS

Sample No: **3083558-03**  
Sample Description: **Location 1E**

Collect Date: **08/22/13 12:15**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b>Anions - STL</b>					
Chloride	5400 mg/L		08/23/13 11:49	DWM	EPA 300.0 R2.1 04KS
Nitrate-N	< 50 mg/L		08/23/13 09:47	DWM	EPA 300.0 R2.1 04KS
Nitrite-N	< 50 mg/L		08/23/13 09:47	DWM	EPA 300.0 R2.1 04KS

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Date Received: 08/22/13 15:55  
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Customer #: 277310

**\*Laboratory Results\***

Sample No: **3083558-03**  
Sample Description: **Location 1E**

Collect Date: **08/22/13 12:15**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method	
<b><u>Anions - STL</u></b>						
Sulfate	880 mg/L		08/23/13 09:47	DWM	EPA 300.0 R2.1	04KS
<b><u>General Chemistry - PIA</u></b>						
Total Organic Carbon (TOC)	18000 mg/L		08/27/13 19:37	lgsjw	5310C	KS,IL,IA,WI,AR
<b><u>General Chemistry - STL</u></b>						
Alkalinity - total as CaCO3	14000 mg/L		08/23/13 10:00	ACV	SM 2320B 18Ed*	
BOD	33000 mg/L		08/23/13 11:00	DAW	SM 5210B 18Ed	04KS
BOD - soluble	33000 mg/L		08/23/13 11:00	DAW	SM 5210B 18Ed*	
COD	66000 mg/L		08/23/13 10:15	DAW	SM 5220D 18Ed	04KS
Cyanide	0.021 mg/L		08/23/13 12:00	DWM	SM 4500-CN C E 18Ed*	
Cyanide - amenable	< 0.0050 mg/L		08/28/13 10:00	DWM	SM 4500CN CG 18Ed*	
Cyanide - weak acid dissociable	0.011 mg/L		08/23/13 12:00	DWM	ASTM 1310-86*	
Oil & Grease - total	< 17 mg/L		08/23/13 12:00	mep	EPA 1664A	04KS
Phenol	81 mg/L		08/26/13 12:00	DWM	EPA 420.1	04KS
Solids - total dissolved solids (TDS)	46000 mg/L		08/23/13 15:30	DAW	SM 2540C 18Ed*	
Solids - total suspended solids (TSS)	17000 mg/L		08/23/13 09:50	DAW	SM 2540D 18Ed	04KS
<b><u>Nutrients - PIA</u></b>						
Total Kjeldahl Nitrogen (TKN)	1200 mg/L		08/28/13 16:58	lgth	SM 4500-N B & NH3-H 18Ed MOD	IL,IA,WI,AR
<b><u>Nutrients - STL</u></b>						
Ammonia-N	770 mg/L		08/26/13 11:30	ACV	SM(18) 4500 NH3 F	04KS
Phosphorus - ortho as P	< 5.0 mg/L	H	08/26/13 16:30	ACV	SM 4500P B E 18ed*	
Phosphorus - total as P	< 5.0 mg/L		08/26/13 15:45	ACV	SM 4500P B E 18ed	04KS
<b><u>Semivolatile Organics - PIA</u></b>						
N-Nitrosodimethylamine	< 1000 ug/L		09/03/13 16:52	CAP	EPA 625	AR,IL,IA,KS,WI
Phenol	14000 ug/L		09/06/13 04:08	SNS	EPA 625	AR,IL,IA,KS,WI
Bis(2-chloroethyl) ether	< 1000 ug/L		09/03/13 16:52	CAP	EPA 625	AR,IL,IA,KS,WI
2-Chlorophenol	< 1000 ug/L		09/03/13 16:52	CAP	EPA 625	AR,IL,IA,KS,WI

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Sample No: **3083558-03**  
Sample Description: **Location 1E**

Collect Date: **08/22/13 12:15**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b>Semivolatile Organics - PIA</b>					
1,3-Dichlorobenzene	< 1000 ug/L		09/03/13 16:52	CAP	EPA 625 AR,IL,IA,WI
1,4-Dichlorobenzene	< 1000 ug/L		09/03/13 16:52	CAP	EPA 625 AR,IL,IA,WI
1,2-Dichlorobenzene	< 1000 ug/L		09/03/13 16:52	CAP	EPA 625 AR,IL,IA,WI
Bis(2-chloroisopropyl) ether	< 1000 ug/L		09/03/13 16:52	CAP	EPA 625 AR,IL,IA,KS,WI
N-Nitrosodi-n-propylamine	< 1000 ug/L		09/03/13 16:52	CAP	EPA 625 AR,IL,IA,KS,WI
Hexachloroethane	< 1000 ug/L		09/03/13 16:52	CAP	EPA 625 AR,IL,IA,KS,WI
Nitrobenzene	< 1000 ug/L		09/03/13 16:52	CAP	EPA 625 AR,IL,IA,KS,WI
Isophorone	< 1000 ug/L		09/03/13 16:52	CAP	EPA 625 AR,IL,IA,KS,WI
2-Nitrophenol	< 1000 ug/L		09/03/13 16:52	CAP	EPA 625 AR,IL,IA,KS,WI
2,4-Dimethylphenol	< 1000 ug/L		09/03/13 16:52	CAP	EPA 625 AR,IL,IA,KS,WI
Bis(2-chloroethoxy) methane	< 1000 ug/L		09/03/13 16:52	CAP	EPA 625 AR,IL,IA,KS,WI
2,4-Dichlorophenol	< 1000 ug/L		09/03/13 16:52	CAP	EPA 625 AR,IL,IA,KS,WI
1,2,4-Trichlorobenzene	< 1000 ug/L		09/03/13 16:52	CAP	EPA 625 AR,IL,IA,KS,WI
Naphthalene	< 1000 ug/L		09/03/13 16:52	CAP	EPA 625 AR,IL,IA,KS,WI
Hexachlorobutadiene	< 1000 ug/L		09/03/13 16:52	CAP	EPA 625 AR,IL,IA,KS,WI
4-Chloro-3-methylphenol	< 1000 ug/L		09/03/13 16:52	CAP	EPA 625 AR,IL,IA,KS,WI
Hexachlorocyclopentadiene	< 5000 ug/L		09/03/13 16:52	CAP	EPA 625 AR,IL,IA,KS,WI
2,4,6-Trichlorophenol	< 5000 ug/L		09/03/13 16:52	CAP	EPA 625 AR,IL,IA,KS,WI
2-Chloronaphthalene	< 1000 ug/L		09/03/13 16:52	CAP	EPA 625 AR,IL,IA,KS,WI
Dimethyl phthalate	< 1000 ug/L		09/03/13 16:52	CAP	EPA 625 AR,IL,IA,KS,WI
2,6-Dinitrotoluene	< 1000 ug/L		09/03/13 16:52	CAP	EPA 625 AR,IL,IA,KS,WI
Acenaphthylene	< 1000 ug/L		09/03/13 16:52	CAP	EPA 625 AR,IL,IA,KS,WI
Acenaphthene	< 1000 ug/L		09/03/13 16:52	CAP	EPA 625 AR,IL,IA,KS,WI

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Sample No: **3083558-03**  
Sample Description: **Location 1E**

Collect Date: **08/22/13 12:15**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b>Semivolatile Organics - PIA</b>					
2,4-Dinitrophenol	< 5000 ug/L		09/03/13 16:52	CAP	EPA 625 AR,IL,IA,KS, WI
4-Nitrophenol	< 5000 ug/L		09/03/13 16:52	CAP	EPA 625 AR,IL,IA,KS, WI
2,4-Dinitrotoluene	< 1000 ug/L		09/03/13 16:52	CAP	EPA 625 AR,IL,IA,KS, WI
Diethyl phthalate	< 1000 ug/L		09/03/13 16:52	CAP	EPA 625 AR,IL,IA,KS, WI
Fluorene	< 1000 ug/L		09/03/13 16:52	CAP	EPA 625 AR,IL,IA,KS, WI
4-Chlorophenylphenyl ether	< 1000 ug/L		09/03/13 16:52	CAP	EPA 625 AR,IL,IA,KS, WI
4,6-Dinitro-2-methylphenol	< 5000 ug/L		09/03/13 16:52	CAP	EPA 625 AR,IL,IA,KS, WI
N-Nitrosodiphenylamine	< 1000 ug/L		09/03/13 16:52	CAP	EPA 625 AR,IL,IA,KS, WI
1,2-Diphenylhydrazine	< 1000 ug/L		09/03/13 16:52	CAP	EPA 625 AR,IL
4-Bromophenyl phenyl ether	< 1000 ug/L		09/03/13 16:52	CAP	EPA 625 AR,IL,IA,KS, WI
Hexachlorobenzene	< 1000 ug/L		09/03/13 16:52	CAP	EPA 625 AR,IL,IA,KS, WI
Pentachlorophenol	< 5000 ug/L		09/03/13 16:52	CAP	EPA 625 AR,IL,IA,KS, WI
Phenanthrene	< 1000 ug/L		09/03/13 16:52	CAP	EPA 625 AR,IL,IA,KS, WI
Anthracene	< 1000 ug/L		09/03/13 16:52	CAP	EPA 625 AR,IL,IA,KS, WI
Di-n-butyl phthalate	< 1000 ug/L		09/03/13 16:52	CAP	EPA 625 AR,IL,IA,KS, WI
Fluoranthene	< 1000 ug/L		09/03/13 16:52	CAP	EPA 625 AR,IL,IA,KS, WI
Benzidine	< 8000 ug/L		09/03/13 16:52	CAP	EPA 625 AR,IL,IA,KS, WI
Pyrene	< 1000 ug/L		09/03/13 16:52	CAP	EPA 625 AR,IL,IA,KS, WI
Butyl benzyl phthalate	< 1000 ug/L		09/03/13 16:52	CAP	EPA 625 AR,IL,IA,KS, WI
Benzo(a)anthracene	< 1000 ug/L		09/03/13 16:52	CAP	EPA 625 AR,IL,IA,KS, WI
3,3'-Dichlorobenzidine	< 2000 ug/L		09/03/13 16:52	CAP	EPA 625 AR,IL,IA,KS, WI
Chrysene	< 1000 ug/L		09/03/13 16:52	CAP	EPA 625 AR,IL,IA,KS, WI

3083558



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Bridgeton Landfill  
13570 St Charles Rock Road  
St. Louis, MO 63044  
Attn: Dan Feezor

Date Received: 08/22/13 15:55  
Report Date: 09/11/13  
Customer #: 277310

**\*Laboratory Results\***

Sample No: **3083558-03**  
Sample Description: **Location 1E**

Collect Date: **08/22/13 12:15**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b>Semivolatile Organics - PIA</b>					
Bis(2-ethylhexyl) phthalate	< 1000 ug/L		09/03/13 16:52	CAP	EPA 625 AR,IL,IA,KS, WI
Di-n-octyl phthalate	< 1000 ug/L		09/03/13 16:52	CAP	EPA 625 AR,IL,IA,KS, WI
Benzo(b)fluoranthene	< 1000 ug/L		09/03/13 16:52	CAP	EPA 625 AR,IL,IA,KS, WI
2,3,7,8-TCDD Screen	< 5000 ug/L		09/03/13 16:52	CAP	EPA 625*
Benzo(k)fluoranthene	< 1000 ug/L		09/03/13 16:52	CAP	EPA 625 AR,IL,IA,KS, WI
Benzo(a)pyrene	< 1000 ug/L		09/03/13 16:52	CAP	EPA 625 AR,IL,IA,KS, WI
Indeno(1,2,3-cd)pyrene	< 1000 ug/L		09/03/13 16:52	CAP	EPA 625 AR,IL,IA,KS, WI
Dibenzo(a,h)anthracene	< 1000 ug/L		09/03/13 16:52	CAP	EPA 625 AR,IL,IA,KS, WI
Benzo(g,h,i)perylene	< 1000 ug/L		09/03/13 16:52	CAP	EPA 625 AR,IL,IA,KS, WI
<b>Soluble Metals - STL</b>					
Silicon as SiO2	64 mg/L		08/27/13 13:16	WPS	EPA 200.7 R4.4
Aluminum	< 0.15 mg/L		08/27/13 13:16	WPS	EPA 200.7 R4.4*
Mercury	< 0.0020 mg/L		08/27/13 12:17	WPS	EPA 245.1 R3.0 / SW 7470A 04KS
Antimony	< 0.10 mg/L		08/27/13 13:16	WPS	EPA 200.7 R4.4 04KS
Copper	< 0.020 mg/L		08/27/13 13:16	WPS	EPA 200.7 R4.4 04KS
Silver	< 0.020 mg/L		08/27/13 13:16	WPS	EPA 200.7 R4.4 04KS
Arsenic	0.81 mg/L		08/27/13 13:16	WPS	EPA 200.7 R4.4 04KS
Barium	3.0 mg/L		08/27/13 13:16	WPS	EPA 200.7 R4.4 04KS
Beryllium	< 0.010 mg/L		08/27/13 13:16	WPS	EPA 200.7 R4.4 04KS
Boron	19 mg/L		08/27/13 13:16	WPS	EPA 200.7 R4.4*
Cadmium	< 0.020 mg/L		08/27/13 13:16	WPS	EPA 200.7 R4.4 04KS
Calcium	4200 mg/L		08/27/13 09:42	WPS	EPA 200.7 R4.4 04KS
Chromium	0.15 mg/L		08/27/13 13:16	WPS	EPA 200.7 R4.4 04KS
Cobalt	0.030 mg/L		08/27/13 13:16	WPS	EPA 200.7 R4.4 04KS
Iron	50 mg/L		08/27/13 13:16	WPS	EPA 200.7 R4.4 04KS
Lead	< 0.10 mg/L		08/27/13 13:16	WPS	EPA 200.7 R4.4 04KS
Magnesium	360 mg/L		08/27/13 12:03	WPS	EPA 200.7 R4.4 04KS
Manganese	31 mg/L		08/27/13 13:16	WPS	EPA 200.7 R4.4 04KS



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13570 St Charles Rock Road  
St. Louis, MO 63044  
Attn: Dan Feezor

Date Received: 08/22/13 15:55  
Report Date: 09/11/13  
Customer #: 277310

**\*Laboratory Results\***

Sample No: **3083558-03**  
Sample Description: **Location 1E**

Collect Date: **08/22/13 12:15**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b><u>Soluble Metals - STL</u></b>					
Molybdenum	< 0.12 mg/L		08/27/13 13:16	WPS	EPA 200.7 R4.4 04KS
Nickel	0.13 mg/L		08/27/13 13:16	WPS	EPA 200.7 R4.4 04KS
Potassium	560 mg/L		08/28/13 16:27	WPS	EPA 200.7 R4.4*
Selenium	0.18 mg/L		08/27/13 13:16	WPS	EPA 200.7 R4.4 04KS
Sodium	4500 mg/L		08/27/13 09:42	WPS	EPA 200.7 R4.4*
Thallium	< 0.20 mg/L		08/27/13 13:16	WPS	EPA 200.7 R4.4 04KS
Vanadium	0.021 mg/L		08/27/13 13:16	WPS	EPA 200.7 R4.4 04KS
Zinc	2.0 mg/L		08/27/13 13:16	WPS	EPA 200.7 R4.4 04KS
Silicon	30 mg/L		08/27/13 13:16	WPS	EPA 200.7 R4.4*
<b><u>Total Metals - STL</u></b>					
Silicon as SiO2	200 mg/L		08/27/13 13:20	WPS	EPA 200.7 R4.4
Aluminum	26 mg/L		08/27/13 13:20	WPS	EPA 200.7 R4.4*
Mercury	0.034 mg/L		08/27/13 12:17	WPS	EPA 245.1 R3.0 / SW 7470A 04KS
Antimony	0.10 mg/L		08/27/13 13:20	WPS	EPA 200.7 R4.4 04KS
Silicon	94 mg/L		08/27/13 13:20	WPS	EPA 200.7 R4.4*
Arsenic	0.95 mg/L		08/27/13 13:20	WPS	EPA 200.7 R4.4 04KS
Barium	5.0 mg/L		08/27/13 13:20	WPS	EPA 200.7 R4.4 04KS
Beryllium	< 0.010 mg/L		08/27/13 13:20	WPS	EPA 200.7 R4.4 04KS
Hardness	14000 mg/L		08/27/13 12:07	WPS	SM 2340B
Boron	24 mg/L		08/27/13 13:20	WPS	EPA 200.7 R4.4*
Cadmium	0.13 mg/L		08/27/13 13:20	WPS	EPA 200.7 R4.4 04KS
Calcium	4800 mg/L		08/27/13 09:46	WPS	EPA 200.7 R4.4 04KS
Chromium	0.44 mg/L		08/27/13 13:20	WPS	EPA 200.7 R4.4 04KS
Cobalt	0.13 mg/L		08/27/13 13:20	WPS	EPA 200.7 R4.4 04KS
Copper	< 0.020 mg/L		08/27/13 13:20	WPS	EPA 200.7 R4.4 04KS
Iron	1900 mg/L		08/27/13 12:07	WPS	EPA 200.7 R4.4 04KS
Lead	0.46 mg/L		08/27/13 13:20	WPS	EPA 200.7 R4.4 04KS
Magnesium	510 mg/L		08/27/13 12:07	WPS	EPA 200.7 R4.4 04KS
Manganese	120 mg/L		08/27/13 13:20	WPS	EPA 200.7 R4.4 04KS
Molybdenum	< 0.12 mg/L		08/27/13 13:20	WPS	EPA 200.7 R4.4 04KS
Nickel	0.16 mg/L		08/27/13 13:20	WPS	EPA 200.7 R4.4 04KS
Potassium	550 mg/L		08/28/13 16:31	WPS	EPA 200.7 R4.4*
Selenium	< 0.10 mg/L		08/27/13 13:20	WPS	EPA 200.7 R4.4 04KS

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13570 St Charles Rock Road  
St. Louis, MO 63044  
Attn: Dan Feezor

Date Received: 08/22/13 15:55  
Report Date: 09/11/13  
Customer #: 277310

**\*Laboratory Results\***

Sample No: **3083558-03**  
Sample Description: **Location 1E**

Collect Date: **08/22/13 12:15**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b><u>Total Metals - STL</u></b>					
Silver	< 0.020 mg/L		08/27/13 13:20	WPS	EPA 200.7 R4.4 04KS
Sodium	4400 mg/L		08/27/13 09:46	WPS	EPA 200.7 R4.4*
Thallium	< 0.20 mg/L		08/27/13 13:20	WPS	EPA 200.7 R4.4 04KS
Vanadium	0.11 mg/L		08/27/13 13:20	WPS	EPA 200.7 R4.4 04KS
Zinc	29 mg/L		08/27/13 13:20	WPS	EPA 200.7 R4.4 04KS

Sample No: **3083558-04**  
Sample Description: **Location 2**

Collect Date: **08/22/13 12:00**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b><u>Anions - STL</u></b>					
Chloride	4800 mg/L		08/23/13 12:41	DWM	EPA 300.0 R2.1 04KS
Nitrate-N	< 50 mg/L		08/23/13 10:05	DWM	EPA 300.0 R2.1 04KS
Nitrite-N	< 50 mg/L		08/23/13 10:05	DWM	EPA 300.0 R2.1 04KS
Sulfate	550 mg/L		08/23/13 10:05	DWM	EPA 300.0 R2.1 04KS
<b><u>General Chemistry - PIA</u></b>					
Total Organic Carbon (TOC)	17000 mg/L		08/27/13 19:44	lgsjw	5310C KS,IL,IA,WI,AR
<b><u>General Chemistry - STL</u></b>					
Alkalinity - total as CaCO3	8400 mg/L		08/23/13 10:00	ACV	SM 2320B 18Ed*
BOD	31000 mg/L		08/23/13 11:00	DAW	SM 5210B 18Ed 04KS
BOD - soluble	28000 mg/L		08/23/13 11:00	DAW	SM 5210B 18Ed*
COD	58000 mg/L		08/23/13 10:15	DAW	SM 5220D 18Ed 04KS
Cyanide	0.0070 mg/L		08/23/13 12:00	DWM	SM 4500-CN C E 18Ed*
Cyanide - amenable	< 0.0050 mg/L		08/28/13 10:00	DWM	SM 4500CN CG 18Ed*
Cyanide - weak acid dissociable	0.012 mg/L		08/23/13 12:00	DWM	ASTM 1310-86*
Oil & Grease - total	< 5.0 mg/L		08/23/13 12:00	mep	EPA 1664A 04KS
Phenol	78 mg/L		08/26/13 12:00	DWM	EPA 420.1 04KS
Solids - total dissolved solids (TDS)	48000 mg/L		08/23/13 15:30	DAW	SM 2540C 18Ed*
Solids - total suspended solids (TSS)	120 mg/L		08/23/13 09:50	DAW	SM 2540D 18Ed 04KS

**Nutrients - PIA**

3083558



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Date Received: 08/22/13 15:55  
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Customer #: 277310

**\*Laboratory Results\***

Sample No: **3083558-04**  
Sample Description: **Location 2**

Collect Date: **08/22/13 12:00**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b><u>Nutrients - PIA</u></b>					
Total Kjeldahl Nitrogen (TKN)	980 mg/L		08/28/13 16:59	Igth	SM 4500-N B & NH3-H 18Ed MOD IL,IA,WI,AR
<b><u>Nutrients - STL</u></b>					
Ammonia-N	780 mg/L		08/26/13 11:30	ACV	SM(18) 4500 NH3 F 04KS
Phosphorus - ortho as P	< 5.0 mg/L	H	08/26/13 16:30	ACV	SM 4500P B E 18ed* 04KS
Phosphorus - total as P	< 5.0 mg/L		08/26/13 15:45	ACV	SM 4500P B E 18ed 04KS
<b><u>Semivolatile Organics - PIA</u></b>					
N-Nitrosodimethylamine	< 1000 ug/L		09/03/13 17:26	CAP	EPA 625 AR,IL,IA,KS, WI
Phenol	14000 ug/L		09/06/13 04:37	SNS	EPA 625 AR,IL,IA,KS, WI
Bis(2-chloroethyl) ether	< 1000 ug/L		09/03/13 17:26	CAP	EPA 625 AR,IL,IA,KS, WI
2-Chlorophenol	< 1000 ug/L		09/03/13 17:26	CAP	EPA 625 AR,IL,IA,KS, WI
1,3-Dichlorobenzene	< 1000 ug/L		09/03/13 17:26	CAP	EPA 625 AR,IL,IA,WI
1,4-Dichlorobenzene	< 1000 ug/L		09/03/13 17:26	CAP	EPA 625 AR,IL,IA,WI
1,2-Dichlorobenzene	< 1000 ug/L		09/03/13 17:26	CAP	EPA 625 AR,IL,IA,WI
Bis(2-chloroisopropyl) ether	< 1000 ug/L		09/03/13 17:26	CAP	EPA 625 AR,IL,IA,KS, WI
N-Nitrosodi-n-propylamine	< 1000 ug/L		09/03/13 17:26	CAP	EPA 625 AR,IL,IA,KS, WI
Hexachloroethane	< 1000 ug/L		09/03/13 17:26	CAP	EPA 625 AR,IL,IA,KS, WI
Nitrobenzene	< 1000 ug/L		09/03/13 17:26	CAP	EPA 625 AR,IL,IA,KS, WI
Isophorone	< 1000 ug/L		09/03/13 17:26	CAP	EPA 625 AR,IL,IA,KS, WI
2-Nitrophenol	< 1000 ug/L		09/03/13 17:26	CAP	EPA 625 AR,IL,IA,KS, WI
2,4-Dimethylphenol	< 1000 ug/L		09/03/13 17:26	CAP	EPA 625 AR,IL,IA,KS, WI
Bis(2-chloroethoxy) methane	< 1000 ug/L		09/03/13 17:26	CAP	EPA 625 AR,IL,IA,KS, WI
2,4-Dichlorophenol	< 1000 ug/L		09/03/13 17:26	CAP	EPA 625 AR,IL,IA,KS, WI
1,2,4-Trichlorobenzene	< 1000 ug/L		09/03/13 17:26	CAP	EPA 625 AR,IL,IA,KS, WI



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**\*Laboratory Results\***

Sample No: **3083558-04**  
Sample Description: **Location 2**

Collect Date: **08/22/13 12:00**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b>Semivolatile Organics - PIA</b>					
Naphthalene	< 1000 ug/L		09/03/13 17:26	CAP	EPA 625 AR,IL,IA,KS, WI
Hexachlorobutadiene	< 1000 ug/L		09/03/13 17:26	CAP	EPA 625 AR,IL,IA,KS, WI
4-Chloro-3-methylphenol	< 1000 ug/L		09/03/13 17:26	CAP	EPA 625 AR,IL,IA,KS, WI
Hexachlorocyclopentadiene	< 5000 ug/L		09/03/13 17:26	CAP	EPA 625 AR,IL,IA,KS, WI
2,4,6-Trichlorophenol	< 5000 ug/L		09/03/13 17:26	CAP	EPA 625 AR,IL,IA,KS, WI
2-Chloronaphthalene	< 1000 ug/L		09/03/13 17:26	CAP	EPA 625 AR,IL,IA,KS, WI
Dimethyl phthalate	< 1000 ug/L		09/03/13 17:26	CAP	EPA 625 AR,IL,IA,KS, WI
2,6-Dinitrotoluene	< 1000 ug/L		09/03/13 17:26	CAP	EPA 625 AR,IL,IA,KS, WI
Acenaphthylene	< 1000 ug/L		09/03/13 17:26	CAP	EPA 625 AR,IL,IA,KS, WI
Acenaphthene	< 1000 ug/L		09/03/13 17:26	CAP	EPA 625 AR,IL,IA,KS, WI
2,4-Dinitrophenol	< 5000 ug/L		09/03/13 17:26	CAP	EPA 625 AR,IL,IA,KS, WI
4-Nitrophenol	< 5000 ug/L		09/03/13 17:26	CAP	EPA 625 AR,IL,IA,KS, WI
2,4-Dinitrotoluene	< 1000 ug/L		09/03/13 17:26	CAP	EPA 625 AR,IL,IA,KS, WI
Diethyl phthalate	< 1000 ug/L		09/03/13 17:26	CAP	EPA 625 AR,IL,IA,KS, WI
Fluorene	< 1000 ug/L		09/03/13 17:26	CAP	EPA 625 AR,IL,IA,KS, WI
4-Chlorophenylphenyl ether	< 1000 ug/L		09/03/13 17:26	CAP	EPA 625 AR,IL,IA,KS, WI
4,6-Dinitro-2-methylphenol	< 5000 ug/L		09/03/13 17:26	CAP	EPA 625 AR,IL,IA,KS, WI
N-Nitrosodiphenylamine	< 1000 ug/L		09/03/13 17:26	CAP	EPA 625 AR,IL,IA,KS, WI
1,2-Diphenylhydrazine	< 1000 ug/L		09/03/13 17:26	CAP	EPA 625 AR,IL
4-Bromophenyl phenyl ether	< 1000 ug/L		09/03/13 17:26	CAP	EPA 625 AR,IL,IA,KS, WI
Hexachlorobenzene	< 1000 ug/L		09/03/13 17:26	CAP	EPA 625 AR,IL,IA,KS, WI
Pentachlorophenol	< 5000 ug/L		09/03/13 17:26	CAP	EPA 625 AR,IL,IA,KS, WI

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Date Received: 08/22/13 15:55  
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Customer #: 277310

**\*Laboratory Results\***

Sample No: **3083558-04**  
Sample Description: **Location 2**

Collect Date: **08/22/13 12:00**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b><u>Semivolatile Organics - PIA</u></b>					
Phenanthrene	< 1000 ug/L		09/03/13 17:26	CAP	EPA 625 AR,IL,IA,KS, WI
Anthracene	< 1000 ug/L		09/03/13 17:26	CAP	EPA 625 AR,IL,IA,KS, WI
Di-n-butyl phthalate	< 1000 ug/L		09/03/13 17:26	CAP	EPA 625 AR,IL,IA,KS, WI
Fluoranthene	< 1000 ug/L		09/03/13 17:26	CAP	EPA 625 AR,IL,IA,KS, WI
Benzdine	< 8000 ug/L		09/03/13 17:26	CAP	EPA 625 AR,IL,IA,KS, WI
Pyrene	< 1000 ug/L		09/03/13 17:26	CAP	EPA 625 AR,IL,IA,KS, WI
Butyl benzyl phthalate	< 1000 ug/L		09/03/13 17:26	CAP	EPA 625 AR,IL,IA,KS, WI
Benzo(a)anthracene	< 1000 ug/L		09/03/13 17:26	CAP	EPA 625 AR,IL,IA,KS, WI
3,3'-Dichlorobenzidine	< 2000 ug/L		09/03/13 17:26	CAP	EPA 625 AR,IL,IA,KS, WI
Chrysene	< 1000 ug/L		09/03/13 17:26	CAP	EPA 625 AR,IL,IA,KS, WI
Bis(2-ethylhexyl) phthalate	< 1000 ug/L		09/03/13 17:26	CAP	EPA 625 AR,IL,IA,KS, WI
Di-n-octyl phthalate	< 1000 ug/L		09/03/13 17:26	CAP	EPA 625 AR,IL,IA,KS, WI
Benzo(b)fluoranthene	< 1000 ug/L		09/03/13 17:26	CAP	EPA 625 AR,IL,IA,KS, WI
2,3,7,8-TCDD Screen	< 5000 ug/L		09/03/13 17:26	CAP	EPA 625*
Benzo(k)fluoranthene	< 1000 ug/L		09/03/13 17:26	CAP	EPA 625 AR,IL,IA,KS, WI
Benzo(a)pyrene	< 1000 ug/L		09/03/13 17:26	CAP	EPA 625 AR,IL,IA,KS, WI
Indeno(1,2,3-cd)pyrene	< 1000 ug/L		09/03/13 17:26	CAP	EPA 625 AR,IL,IA,KS, WI
Dibenzo(a,h)anthracene	< 1000 ug/L		09/03/13 17:26	CAP	EPA 625 AR,IL,IA,KS, WI
Benzo(g,h,i)perylene	< 1000 ug/L		09/03/13 17:26	CAP	EPA 625 AR,IL,IA,KS, WI
<b><u>Soluble Metals - STL</u></b>					
Silicon as SiO2	63 mg/L		08/27/13 13:24	WPS	EPA 200.7 R4.4
Aluminum	< 0.15 mg/L		08/27/13 13:24	WPS	EPA 200.7 R4.4*
Mercury	< 0.0020 mg/L		08/27/13 12:17	WPS	EPA 245.1 R3.0 / 04KS SW 7470A





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Date Received: 08/22/13 15:55  
Report Date: 09/11/13  
Customer #: 277310

**\*Laboratory Results\***

Sample No: **3083558-04**  
Sample Description: **Location 2**

Collect Date: **08/22/13 12:00**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b><u>Soluble Metals - STL</u></b>					
Antimony	0.12 mg/L		08/27/13 13:24	WPS	EPA 200.7 R4.4 04KS
Copper	< 0.020 mg/L		08/27/13 13:24	WPS	EPA 200.7 R4.4 04KS
Silver	< 0.020 mg/L		08/27/13 13:24	WPS	EPA 200.7 R4.4 04KS
Arsenic	0.58 mg/L		08/27/13 13:24	WPS	EPA 200.7 R4.4 04KS
Barium	3.1 mg/L		08/27/13 13:24	WPS	EPA 200.7 R4.4 04KS
Beryllium	< 0.010 mg/L		08/27/13 13:24	WPS	EPA 200.7 R4.4 04KS
Boron	19 mg/L		08/27/13 13:24	WPS	EPA 200.7 R4.4*
Cadmium	0.15 mg/L		08/27/13 13:24	WPS	EPA 200.7 R4.4 04KS
Calcium	4200 mg/L		08/27/13 09:50	WPS	EPA 200.7 R4.4 04KS
Chromium	0.14 mg/L		08/27/13 13:24	WPS	EPA 200.7 R4.4 04KS
Cobalt	0.030 mg/L		08/27/13 13:24	WPS	EPA 200.7 R4.4 04KS
Iron	75 mg/L		08/27/13 13:24	WPS	EPA 200.7 R4.4 04KS
Lead	< 0.10 mg/L		08/27/13 13:24	WPS	EPA 200.7 R4.4 04KS
Magnesium	350 mg/L		08/27/13 12:11	WPS	EPA 200.7 R4.4 04KS
Manganese	27 mg/L		08/27/13 13:24	WPS	EPA 200.7 R4.4 04KS
Molybdenum	< 0.12 mg/L		08/27/13 13:24	WPS	EPA 200.7 R4.4 04KS
Nickel	0.12 mg/L		08/27/13 13:24	WPS	EPA 200.7 R4.4 04KS
Potassium	590 mg/L		08/28/13 16:35	WPS	EPA 200.7 R4.4*
Selenium	0.21 mg/L		08/27/13 13:24	WPS	EPA 200.7 R4.4 04KS
Sodium	4600 mg/L		08/27/13 09:50	WPS	EPA 200.7 R4.4*
Thallium	< 0.20 mg/L		08/27/13 13:24	WPS	EPA 200.7 R4.4 04KS
Vanadium	0.029 mg/L		08/27/13 13:24	WPS	EPA 200.7 R4.4 04KS
Zinc	2.1 mg/L		08/27/13 13:24	WPS	EPA 200.7 R4.4 04KS
Silicon	30 mg/L		08/27/13 13:24	WPS	EPA 200.7 R4.4*
<b><u>Total Metals - STL</u></b>					
Silicon as SiO2	67 mg/L		08/27/13 13:49	WPS	EPA 200.7 R4.4
Aluminum	0.43 mg/L		08/27/13 13:49	WPS	EPA 200.7 R4.4*
Mercury	< 0.0020 mg/L		08/27/13 12:17	WPS	EPA 245.1 R3.0 / SW 7470A 04KS
Antimony	0.27 mg/L		08/27/13 13:49	WPS	EPA 200.7 R4.4 04KS
Silicon	31 mg/L		08/27/13 13:49	WPS	EPA 200.7 R4.4*
Arsenic	0.66 mg/L		08/27/13 13:49	WPS	EPA 200.7 R4.4 04KS
Barium	3.3 mg/L		08/27/13 13:49	WPS	EPA 200.7 R4.4 04KS
Beryllium	< 0.010 mg/L		08/27/13 13:49	WPS	EPA 200.7 R4.4 04KS



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Bridgeton Landfill  
13570 St Charles Rock Road  
St. Louis, MO 63044  
Attn: Dan Feezor

Date Received: 08/22/13 15:55  
Report Date: 09/11/13  
Customer #: 277310

**\*Laboratory Results\***

Sample No: **3083558-04**  
Sample Description: **Location 2**

Collect Date: **08/22/13 12:00**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b><u>Total Metals - STL</u></b>					
Hardness	12000 mg/L		08/27/13 12:15	WPS	SM 2340B
Boron	19 mg/L		08/27/13 13:49	WPS	EPA 200.7 R4.4*
Cadmium	< 0.020 mg/L		08/27/13 13:49	WPS	EPA 200.7 R4.4 04KS
Calcium	4100 mg/L		08/27/13 09:54	WPS	EPA 200.7 R4.4 04KS
Chromium	0.15 mg/L		08/27/13 13:49	WPS	EPA 200.7 R4.4 04KS
Cobalt	0.032 mg/L		08/27/13 13:49	WPS	EPA 200.7 R4.4 04KS
Copper	< 0.020 mg/L		08/27/13 13:49	WPS	EPA 200.7 R4.4 04KS
Iron	97 mg/L		08/27/13 13:49	WPS	EPA 200.7 R4.4 04KS
Lead	< 0.10 mg/L		08/27/13 13:49	WPS	EPA 200.7 R4.4 04KS
Magnesium	350 mg/L		08/27/13 12:15	WPS	EPA 200.7 R4.4 04KS
Manganese	29 mg/L		08/27/13 13:49	WPS	EPA 200.7 R4.4 04KS
Molybdenum	< 0.12 mg/L		08/27/13 13:49	WPS	EPA 200.7 R4.4 04KS
Nickel	0.12 mg/L		08/27/13 13:49	WPS	EPA 200.7 R4.4 04KS
Potassium	590 mg/L		08/28/13 16:51	WPS	EPA 200.7 R4.4*
Selenium	0.17 mg/L		08/27/13 13:49	WPS	EPA 200.7 R4.4 04KS
Silver	< 0.020 mg/L		08/27/13 13:49	WPS	EPA 200.7 R4.4 04KS
Sodium	4500 mg/L		08/27/13 09:54	WPS	EPA 200.7 R4.4*
Thallium	< 0.20 mg/L		08/27/13 13:49	WPS	EPA 200.7 R4.4 04KS
Vanadium	0.036 mg/L		08/27/13 13:49	WPS	EPA 200.7 R4.4 04KS
Zinc	2.4 mg/L		08/27/13 13:49	WPS	EPA 200.7 R4.4 04KS

Sample No: **3083558-05**  
Sample Description: **Location 3**

Collect Date: **08/22/13 12:00**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b><u>General Chemistry - STL</u></b>					
Solids - total suspended solids (TSS)	34000 mg/L		08/23/13 09:50	DAW	SM 2540D 18Ed 04KS
Solids - total volatile suspended solids	16000 mg/L		08/23/13 09:50	DAW	SM 2540E 18Ed*



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Attn: Dan Feezor

Date Received: 08/22/13 15:55  
Report Date: 09/11/13  
Customer #: 277310

**\*Laboratory Results\***

Sample No: **3083558-06**  
Sample Description: **Location 4**

Collect Date: **08/22/13 12:10**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b><u>Anions - STL</u></b>					
Chloride	4900 mg/L		08/23/13 12:59	DWM	EPA 300.0 R2.1 04KS
Nitrate-N	< 50 mg/L		08/23/13 10:22	DWM	EPA 300.0 R2.1 04KS
Nitrite-N	< 50 mg/L		08/23/13 10:22	DWM	EPA 300.0 R2.1 04KS
Sulfate	1000 mg/L		08/23/13 12:59	DWM	EPA 300.0 R2.1 04KS
<b><u>General Chemistry - PIA</u></b>					
Total Organic Carbon (TOC)	1800 mg/L		08/27/13 20:12	lgsjw	5310C KS,IL,IA,WI,AR
<b><u>General Chemistry - STL</u></b>					
Alkalinity - total as CaCO3	1400 mg/L		08/23/13 10:00	ACV	SM 2320B 18Ed*
BOD	220 mg/L		08/23/13 11:00	DAW	SM 5210B 18Ed 04KS
BOD - soluble	220 mg/L		08/23/13 11:00	DAW	SM 5210B 18Ed*
COD	5900 mg/L		08/23/13 10:15	DAW	SM 5220D 18Ed 04KS
Cyanide	0.012 mg/L		08/23/13 12:00	DWM	SM 4500-CN C E 18Ed*
Cyanide - amenable	< 0.0050 mg/L		08/28/13 10:00	DWM	SM 4500CN CG 18Ed*
Cyanide - weak acid dissociable	0.017 mg/L		08/26/13 15:30	DWM	ASTM 1310-86*
Oil & Grease - total	5.3 mg/L		08/23/13 12:00	mep	EPA 1664A 04KS
Phenol	< 5.0 mg/L		08/26/13 12:00	DWM	EPA 420.1 04KS
Solids - total dissolved solids (TDS)	16000 mg/L		08/23/13 15:30	DAW	SM 2540C 18Ed*
Solids - total suspended solids (TSS)	17 mg/L		08/23/13 09:50	DAW	SM 2540D 18Ed 04KS
<b><u>Nutrients - PIA</u></b>					
Total Kjeldahl Nitrogen (TKN)	300 mg/L		08/28/13 16:59	lgthh	SM 4500-N B & NH3-H 18Ed MOD IL,IA,WI,AR
<b><u>Nutrients - STL</u></b>					
Ammonia-N	170 mg/L		08/26/13 11:30	ACV	SM(18) 4500 NH3 F 04KS
Phosphorus - ortho as P	220 mg/L	H	08/26/13 16:30	ACV	SM 4500P B E 18ed*
Phosphorus - total as P	210 mg/L		08/26/13 15:45	ACV	SM 4500P B E 18ed 04KS
<b><u>Semivolatile Organics - PIA</u></b>					
N-Nitrosodimethylamine	< 1000 ug/L		09/03/13 18:00	CAP	EPA 625 AR,IL,IA,KS,WI
Phenol	< 1000 ug/L		09/03/13 18:00	CAP	EPA 625 AR,IL,IA,KS,WI



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**\*Laboratory Results\***

Sample No: **3083558-06**  
Sample Description: **Location 4**

Collect Date: **08/22/13 12:10**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b>Semivolatile Organics - PIA</b>					
Bis(2-chloroethyl) ether	< 1000 ug/L		09/03/13 18:00	CAP	EPA 625 AR,IL,IA,KS, WI
2-Chlorophenol	< 1000 ug/L		09/03/13 18:00	CAP	EPA 625 AR,IL,IA,KS, WI
1,3-Dichlorobenzene	< 1000 ug/L		09/03/13 18:00	CAP	EPA 625 AR,IL,IA,WI
1,4-Dichlorobenzene	< 1000 ug/L		09/03/13 18:00	CAP	EPA 625 AR,IL,IA,WI
1,2-Dichlorobenzene	< 1000 ug/L		09/03/13 18:00	CAP	EPA 625 AR,IL,IA,WI
Bis(2-chloroisopropyl) ether	< 1000 ug/L		09/03/13 18:00	CAP	EPA 625 AR,IL,IA,KS, WI
N-Nitrosodi-n-propylamine	< 1000 ug/L		09/03/13 18:00	CAP	EPA 625 AR,IL,IA,KS, WI
Hexachloroethane	< 1000 ug/L		09/03/13 18:00	CAP	EPA 625 AR,IL,IA,KS, WI
Nitrobenzene	< 1000 ug/L		09/03/13 18:00	CAP	EPA 625 AR,IL,IA,KS, WI
Isophorone	< 1000 ug/L		09/03/13 18:00	CAP	EPA 625 AR,IL,IA,KS, WI
2-Nitrophenol	< 1000 ug/L		09/03/13 18:00	CAP	EPA 625 AR,IL,IA,KS, WI
2,4-Dimethylphenol	< 1000 ug/L		09/03/13 18:00	CAP	EPA 625 AR,IL,IA,KS, WI
Bis(2-chloroethoxy) methane	< 1000 ug/L		09/03/13 18:00	CAP	EPA 625 AR,IL,IA,KS, WI
2,4-Dichlorophenol	< 1000 ug/L		09/03/13 18:00	CAP	EPA 625 AR,IL,IA,KS, WI
1,2,4-Trichlorobenzene	< 1000 ug/L		09/03/13 18:00	CAP	EPA 625 AR,IL,IA,KS, WI
Naphthalene	< 1000 ug/L		09/03/13 18:00	CAP	EPA 625 AR,IL,IA,KS, WI
Hexachlorobutadiene	< 1000 ug/L		09/03/13 18:00	CAP	EPA 625 AR,IL,IA,KS, WI
4-Chloro-3-methylphenol	< 1000 ug/L		09/03/13 18:00	CAP	EPA 625 AR,IL,IA,KS, WI
Hexachlorocyclopentadiene	< 5000 ug/L		09/03/13 18:00	CAP	EPA 625 AR,IL,IA,KS, WI
2,4,6-Trichlorophenol	< 5000 ug/L		09/03/13 18:00	CAP	EPA 625 AR,IL,IA,KS, WI
2-Chloronaphthalene	< 1000 ug/L		09/03/13 18:00	CAP	EPA 625 AR,IL,IA,KS, WI
Dimethyl phthalate	< 1000 ug/L		09/03/13 18:00	CAP	EPA 625 AR,IL,IA,KS, WI
2,6-Dinitrotoluene	< 1000 ug/L		09/03/13 18:00	CAP	EPA 625 AR,IL,IA,KS, WI

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**\*Laboratory Results\***

Sample No: **3083558-06**  
Sample Description: **Location 4**

Collect Date: **08/22/13 12:10**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b>Semivolatile Organics - PIA</b>					
Acenaphthylene	< 1000 ug/L		09/03/13 18:00	CAP	EPA 625 AR,IL,IA,KS, WI
Acenaphthene	< 1000 ug/L		09/03/13 18:00	CAP	EPA 625 AR,IL,IA,KS, WI
2,4-Dinitrophenol	< 5000 ug/L		09/03/13 18:00	CAP	EPA 625 AR,IL,IA,KS, WI
4-Nitrophenol	< 5000 ug/L		09/03/13 18:00	CAP	EPA 625 AR,IL,IA,KS, WI
2,4-Dinitrotoluene	< 1000 ug/L		09/03/13 18:00	CAP	EPA 625 AR,IL,IA,KS, WI
Diethyl phthalate	< 1000 ug/L		09/03/13 18:00	CAP	EPA 625 AR,IL,IA,KS, WI
Fluorene	< 1000 ug/L		09/03/13 18:00	CAP	EPA 625 AR,IL,IA,KS, WI
4-Chlorophenylphenyl ether	< 1000 ug/L		09/03/13 18:00	CAP	EPA 625 AR,IL,IA,KS, WI
4,6-Dinitro-2-methylphenol	< 5000 ug/L		09/03/13 18:00	CAP	EPA 625 AR,IL,IA,KS, WI
N-Nitrosodiphenylamine	< 1000 ug/L		09/03/13 18:00	CAP	EPA 625 AR,IL,IA,KS, WI
1,2-Diphenylhydrazine	< 1000 ug/L		09/03/13 18:00	CAP	EPA 625 AR,IL
4-Bromophenyl phenyl ether	< 1000 ug/L		09/03/13 18:00	CAP	EPA 625 AR,IL,IA,KS, WI
Hexachlorobenzene	< 1000 ug/L		09/03/13 18:00	CAP	EPA 625 AR,IL,IA,KS, WI
Pentachlorophenol	< 5000 ug/L		09/03/13 18:00	CAP	EPA 625 AR,IL,IA,KS, WI
Phenanthrene	< 1000 ug/L		09/03/13 18:00	CAP	EPA 625 AR,IL,IA,KS, WI
Anthracene	< 1000 ug/L		09/03/13 18:00	CAP	EPA 625 AR,IL,IA,KS, WI
Di-n-butyl phthalate	< 1000 ug/L		09/03/13 18:00	CAP	EPA 625 AR,IL,IA,KS, WI
Fluoranthene	< 1000 ug/L		09/03/13 18:00	CAP	EPA 625 AR,IL,IA,KS, WI
Benzydine	< 8000 ug/L		09/03/13 18:00	CAP	EPA 625 AR,IL,IA,KS, WI
Pyrene	< 1000 ug/L		09/03/13 18:00	CAP	EPA 625 AR,IL,IA,KS, WI
Butyl benzyl phthalate	< 1000 ug/L		09/03/13 18:00	CAP	EPA 625 AR,IL,IA,KS, WI
Benzo(a)anthracene	< 1000 ug/L		09/03/13 18:00	CAP	EPA 625 AR,IL,IA,KS, WI

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St. Louis, MO 63044  
Attn: Dan Feezor

Date Received: 08/22/13 15:55  
Report Date: 09/11/13  
Customer #: 277310

**\*Laboratory Results\***

Sample No: **3083558-06**  
Sample Description: **Location 4**

Collect Date: **08/22/13 12:10**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b>Semivolatile Organics - PIA</b>					
3,3'-Dichlorobenzidine	< 2000 ug/L		09/03/13 18:00	CAP	EPA 625 AR,IL,IA,KS, WI
Chrysene	< 1000 ug/L		09/03/13 18:00	CAP	EPA 625 AR,IL,IA,KS, WI
Bis(2-ethylhexyl) phthalate	< 1000 ug/L		09/03/13 18:00	CAP	EPA 625 AR,IL,IA,KS, WI
Di-n-octyl phthalate	< 1000 ug/L		09/03/13 18:00	CAP	EPA 625 AR,IL,IA,KS, WI
Benzo(b)fluoranthene	< 1000 ug/L		09/03/13 18:00	CAP	EPA 625 AR,IL,IA,KS, WI
2,3,7,8-TCDD Screen	< 5000 ug/L		09/03/13 18:00	CAP	EPA 625*
Benzo(k)fluoranthene	< 1000 ug/L		09/03/13 18:00	CAP	EPA 625 AR,IL,IA,KS, WI
Benzo(a)pyrene	< 1000 ug/L		09/03/13 18:00	CAP	EPA 625 AR,IL,IA,KS, WI
Indeno(1,2,3-cd)pyrene	< 1000 ug/L		09/03/13 18:00	CAP	EPA 625 AR,IL,IA,KS, WI
Dibenzo(a,h)anthracene	< 1000 ug/L		09/03/13 18:00	CAP	EPA 625 AR,IL,IA,KS, WI
Benzo(g,h,i)perylene	< 1000 ug/L		09/03/13 18:00	CAP	EPA 625 AR,IL,IA,KS, WI
<b>Soluble Metals - STL</b>					
Silicon as SiO2	81 mg/L		08/27/13 13:53	WPS	EPA 200.7 R4.4
Aluminum	< 0.15 mg/L		08/27/13 13:53	WPS	EPA 200.7 R4.4*
Mercury	< 0.0020 mg/L		08/27/13 12:17	WPS	EPA 245.1 R3.0 / SW 7470A 04KS
Antimony	< 0.10 mg/L		08/27/13 13:53	WPS	EPA 200.7 R4.4 04KS
Copper	< 0.020 mg/L		08/27/13 13:53	WPS	EPA 200.7 R4.4 04KS
Silver	< 0.020 mg/L		08/27/13 13:53	WPS	EPA 200.7 R4.4 04KS
Arsenic	0.44 mg/L		08/27/13 13:53	WPS	EPA 200.7 R4.4 04KS
Barium	< 0.10 mg/L		08/27/13 13:53	WPS	EPA 200.7 R4.4 04KS
Beryllium	< 0.010 mg/L		08/27/13 13:53	WPS	EPA 200.7 R4.4 04KS
Boron	15 mg/L		08/27/13 13:53	WPS	EPA 200.7 R4.4*
Cadmium	< 0.020 mg/L		08/27/13 13:53	WPS	EPA 200.7 R4.4 04KS
Calcium	27 mg/L		08/27/13 13:53	WPS	EPA 200.7 R4.4 04KS
Chromium	0.084 mg/L		08/27/13 13:53	WPS	EPA 200.7 R4.4 04KS
Cobalt	< 0.020 mg/L		08/27/13 13:53	WPS	EPA 200.7 R4.4 04KS
Iron	1.1 mg/L		08/27/13 13:53	WPS	EPA 200.7 R4.4 04KS

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Date Received: 08/22/13 15:55  
Report Date: 09/11/13  
Customer #: 277310

**\*Laboratory Results\***

Sample No: **3083558-06**  
Sample Description: **Location 4**

Collect Date: **08/22/13 12:10**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b><u>Soluble Metals - STL</u></b>					
Lead	< 0.10 mg/L		08/27/13 13:53	WPS	EPA 200.7 R4.4 04KS
Magnesium	20 mg/L		08/27/13 13:53	WPS	EPA 200.7 R4.4 04KS
Manganese	0.38 mg/L		08/27/13 13:53	WPS	EPA 200.7 R4.4 04KS
Molybdenum	< 0.12 mg/L		08/27/13 13:53	WPS	EPA 200.7 R4.4 04KS
Nickel	0.096 mg/L		08/27/13 13:53	WPS	EPA 200.7 R4.4 04KS
Potassium	440 mg/L		08/28/13 16:56	WPS	EPA 200.7 R4.4*
Selenium	< 0.10 mg/L		08/27/13 13:53	WPS	EPA 200.7 R4.4 04KS
Sodium	4300 mg/L		08/27/13 09:58	WPS	EPA 200.7 R4.4*
Thallium	< 0.20 mg/L		08/27/13 13:53	WPS	EPA 200.7 R4.4 04KS
Vanadium	< 0.020 mg/L		08/27/13 13:53	WPS	EPA 200.7 R4.4 04KS
Zinc	0.16 mg/L		08/27/13 13:53	WPS	EPA 200.7 R4.4 04KS
Silicon	38 mg/L		08/27/13 13:53	WPS	EPA 200.7 R4.4*
<b><u>Total Metals - STL</u></b>					
Silicon as SiO2	81 mg/L		08/27/13 13:57	WPS	EPA 200.7 R4.4
Aluminum	< 0.15 mg/L		08/27/13 13:57	WPS	EPA 200.7 R4.4*
Mercury	< 0.0020 mg/L		08/27/13 12:17	WPS	EPA 245.1 R3.0 / 04KS SW 7470A
Antimony	0.15 mg/L		08/27/13 13:57	WPS	EPA 200.7 R4.4 04KS
Silicon	38 mg/L		08/27/13 13:57	WPS	EPA 200.7 R4.4*
Arsenic	0.48 mg/L		08/27/13 13:57	WPS	EPA 200.7 R4.4 04KS
Barium	< 0.10 mg/L		08/27/13 13:57	WPS	EPA 200.7 R4.4 04KS
Beryllium	< 0.010 mg/L		08/27/13 13:57	WPS	EPA 200.7 R4.4 04KS
Hardness	170 mg/L		08/27/13 13:57	WPS	SM 2340B
Boron	15 mg/L		08/27/13 13:57	WPS	EPA 200.7 R4.4*
Cadmium	< 0.020 mg/L		08/27/13 13:57	WPS	EPA 200.7 R4.4 04KS
Calcium	34 mg/L		08/27/13 12:47	WPS	EPA 200.7 R4.4 04KS
Chromium	0.078 mg/L		08/27/13 13:57	WPS	EPA 200.7 R4.4 04KS
Cobalt	< 0.020 mg/L		08/27/13 13:57	WPS	EPA 200.7 R4.4 04KS
Copper	< 0.020 mg/L		08/27/13 13:57	WPS	EPA 200.7 R4.4 04KS
Iron	1.1 mg/L		08/27/13 13:57	WPS	EPA 200.7 R4.4 04KS
Lead	< 0.10 mg/L		08/27/13 13:57	WPS	EPA 200.7 R4.4 04KS
Magnesium	20 mg/L		08/27/13 13:57	WPS	EPA 200.7 R4.4 04KS
Manganese	0.37 mg/L		08/27/13 13:57	WPS	EPA 200.7 R4.4 04KS
Molybdenum	< 0.12 mg/L		08/27/13 13:57	WPS	EPA 200.7 R4.4 04KS



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Date Received: 08/22/13 15:55  
Report Date: 09/11/13  
Customer #: 277310

**\*Laboratory Results\***

Sample No: **3083558-06**  
Sample Description: **Location 4**

Collect Date: **08/22/13 12:10**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b><u>Total Metals - STL</u></b>					
Nickel	0.10 mg/L		08/27/13 13:57	WPS	EPA 200.7 R4.4 04KS
Potassium	460 mg/L		08/28/13 17:00	WPS	EPA 200.7 R4.4*
Selenium	< 0.10 mg/L		08/27/13 13:57	WPS	EPA 200.7 R4.4 04KS
Silver	< 0.020 mg/L		08/27/13 13:57	WPS	EPA 200.7 R4.4 04KS
Sodium	4300 mg/L		08/27/13 10:02	WPS	EPA 200.7 R4.4*
Thallium	< 0.20 mg/L		08/27/13 13:57	WPS	EPA 200.7 R4.4 04KS
Vanadium	< 0.020 mg/L		08/27/13 13:57	WPS	EPA 200.7 R4.4 04KS
Zinc	0.14 mg/L		08/27/13 13:57	WPS	EPA 200.7 R4.4 04KS

Sample No: **3083558-07**  
Sample Description: **Location 6**

Collect Date: **08/22/13 13:30**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b><u>Anions - STL</u></b>					
Chloride	5000 mg/L		08/23/13 13:16	DWM	EPA 300.0 R2.1 04KS
Nitrate-N	< 50 mg/L		08/23/13 10:39	DWM	EPA 300.0 R2.1 04KS
Nitrite-N	< 50 mg/L		08/23/13 10:39	DWM	EPA 300.0 R2.1 04KS
Sulfate	730 mg/L		08/23/13 10:39	DWM	EPA 300.0 R2.1 04KS
<b><u>General Chemistry - PIA</u></b>					
Total Organic Carbon (TOC)	18000 mg/L		08/27/13 20:19	lgsjw	5310C KS,IL,IA,WI,AR
<b><u>General Chemistry - STL</u></b>					
Alkalinity - total as CaCO3	10000 mg/L		08/23/13 10:00	ACV	SM 2320B 18Ed*
BOD	27000 mg/L		08/23/13 11:00	DAW	SM 5210B 18Ed 04KS
BOD - soluble	27000 mg/L		08/23/13 11:00	DAW	SM 5210B 18Ed*
COD	46000 mg/L		08/23/13 10:15	DAW	SM 5220D 18Ed 04KS
Cyanide	0.018 mg/L		08/26/13 15:30	DWM	SM 4500-CN C E 18Ed*
Cyanide - amenable	< 0.0050 mg/L		08/28/13 10:00	DWM	SM 4500CN CG 18Ed*
Cyanide - weak acid dissociable	0.019 mg/L		08/26/13 15:30	DWM	ASTM 1310-86*
Oil & Grease - total	< 5.4 mg/L		08/23/13 12:00	mep	EPA 1664A 04KS
Phenol	65 mg/L		08/26/13 12:00	DWM	EPA 420.1 04KS

3083558





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Bridgeton Landfill  
13570 St Charles Rock Road  
St. Louis, MO 63044  
Attn: Dan Feezor

Date Received: 08/22/13 15:55  
Report Date: 09/11/13  
Customer #: 277310

**\*Laboratory Results\***

Sample No: **3083558-07**  
Sample Description: **Location 6**

Collect Date: **08/22/13 13:30**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b>General Chemistry - STL</b>					
Solids - total dissolved solids (TDS)	50000 mg/L		08/23/13 15:30	DAW	SM 2540C 18Ed*
Solids - total suspended solids (TSS)	23 mg/L		08/23/13 09:50	DAW	SM 2540D 18Ed 04KS
<b>Nutrients - PIA</b>					
Total Kjeldahl Nitrogen (TKN)	980 mg/L		08/28/13 17:00	lgthh	SM 4500-N B & NH3-H 18Ed MOD IL,IA,WI,AR
<b>Nutrients - STL</b>					
Ammonia-N	740 mg/L		08/26/13 11:30	ACV	SM(18) 4500 NH3 F 04KS
Phosphorus - ortho as P	< 5.0 mg/L	H	08/26/13 16:30	ACV	SM 4500P B E 18ed* 04KS
Phosphorus - total as P	< 5.0 mg/L		08/26/13 15:45	ACV	SM 4500P B E 18ed 04KS
<b>Semivolatile Organics - PIA</b>					
N-Nitrosodimethylamine	< 1000 ug/L		09/03/13 18:34	CAP	EPA 625 AR,IL,IA,KS,WI
Phenol	17000 ug/L		09/06/13 05:36	SNS	EPA 625 AR,IL,IA,KS,WI
Bis(2-chloroethyl) ether	< 1000 ug/L		09/03/13 18:34	CAP	EPA 625 AR,IL,IA,KS,WI
2-Chlorophenol	< 1000 ug/L		09/03/13 18:34	CAP	EPA 625 AR,IL,IA,KS,WI
1,3-Dichlorobenzene	< 1000 ug/L		09/03/13 18:34	CAP	EPA 625 AR,IL,IA,WI
1,4-Dichlorobenzene	< 1000 ug/L		09/03/13 18:34	CAP	EPA 625 AR,IL,IA,WI
1,2-Dichlorobenzene	< 1000 ug/L		09/03/13 18:34	CAP	EPA 625 AR,IL,IA,WI
Bis(2-chloroisopropyl) ether	< 1000 ug/L		09/03/13 18:34	CAP	EPA 625 AR,IL,IA,KS,WI
N-Nitrosodi-n-propylamine	< 1000 ug/L		09/03/13 18:34	CAP	EPA 625 AR,IL,IA,KS,WI
Hexachloroethane	< 1000 ug/L		09/03/13 18:34	CAP	EPA 625 AR,IL,IA,KS,WI
Nitrobenzene	< 1000 ug/L		09/03/13 18:34	CAP	EPA 625 AR,IL,IA,KS,WI
Isophorone	< 1000 ug/L		09/03/13 18:34	CAP	EPA 625 AR,IL,IA,KS,WI
2-Nitrophenol	< 1000 ug/L		09/03/13 18:34	CAP	EPA 625 AR,IL,IA,KS,WI
2,4-Dimethylphenol	< 1000 ug/L		09/03/13 18:34	CAP	EPA 625 AR,IL,IA,KS,WI
Bis(2-chloroethoxy) methane	< 1000 ug/L		09/03/13 18:34	CAP	EPA 625 AR,IL,IA,KS,WI

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Attn: Dan Feezor

Date Received: 08/22/13 15:55  
Report Date: 09/11/13  
Customer #: 277310

**\*Laboratory Results\***

Sample No: **3083558-07**  
Sample Description: **Location 6**

Collect Date: **08/22/13 13:30**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b>Semivolatile Organics - PIA</b>					
2,4-Dichlorophenol	< 1000 ug/L		09/03/13 18:34	CAP	EPA 625 AR,IL,IA,KS, WI
1,2,4-Trichlorobenzene	< 1000 ug/L		09/03/13 18:34	CAP	EPA 625 AR,IL,IA,KS, WI
Naphthalene	< 1000 ug/L		09/03/13 18:34	CAP	EPA 625 AR,IL,IA,KS, WI
Hexachlorobutadiene	< 1000 ug/L		09/03/13 18:34	CAP	EPA 625 AR,IL,IA,KS, WI
4-Chloro-3-methylphenol	< 1000 ug/L		09/03/13 18:34	CAP	EPA 625 AR,IL,IA,KS, WI
Hexachlorocyclopentadiene	< 5000 ug/L		09/03/13 18:34	CAP	EPA 625 AR,IL,IA,KS, WI
2,4,6-Trichlorophenol	< 5000 ug/L		09/03/13 18:34	CAP	EPA 625 AR,IL,IA,KS, WI
2-Chloronaphthalene	< 1000 ug/L		09/03/13 18:34	CAP	EPA 625 AR,IL,IA,KS, WI
Dimethyl phthalate	< 1000 ug/L		09/03/13 18:34	CAP	EPA 625 AR,IL,IA,KS, WI
2,6-Dinitrotoluene	< 1000 ug/L		09/03/13 18:34	CAP	EPA 625 AR,IL,IA,KS, WI
Acenaphthylene	< 1000 ug/L		09/03/13 18:34	CAP	EPA 625 AR,IL,IA,KS, WI
Acenaphthene	< 1000 ug/L		09/03/13 18:34	CAP	EPA 625 AR,IL,IA,KS, WI
2,4-Dinitrophenol	< 5000 ug/L		09/03/13 18:34	CAP	EPA 625 AR,IL,IA,KS, WI
4-Nitrophenol	< 5000 ug/L		09/03/13 18:34	CAP	EPA 625 AR,IL,IA,KS, WI
2,4-Dinitrotoluene	< 1000 ug/L		09/03/13 18:34	CAP	EPA 625 AR,IL,IA,KS, WI
Diethyl phthalate	< 1000 ug/L		09/03/13 18:34	CAP	EPA 625 AR,IL,IA,KS, WI
Fluorene	< 1000 ug/L		09/03/13 18:34	CAP	EPA 625 AR,IL,IA,KS, WI
4-Chlorophenylphenyl ether	< 1000 ug/L		09/03/13 18:34	CAP	EPA 625 AR,IL,IA,KS, WI
4,6-Dinitro-2-methylphenol	< 5000 ug/L		09/03/13 18:34	CAP	EPA 625 AR,IL,IA,KS, WI
N-Nitrosodiphenylamine	< 1000 ug/L		09/03/13 18:34	CAP	EPA 625 AR,IL,IA,KS, WI
1,2-Diphenylhydrazine	< 1000 ug/L		09/03/13 18:34	CAP	EPA 625 AR,IL
4-Bromophenyl phenyl ether	< 1000 ug/L		09/03/13 18:34	CAP	EPA 625 AR,IL,IA,KS, WI



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St. Louis, MO 63044  
Attn: Dan Feezor

Date Received: 08/22/13 15:55  
Report Date: 09/11/13  
Customer #: 277310

**\*Laboratory Results\***

Sample No: **3083558-07**  
Sample Description: **Location 6**

Collect Date: **08/22/13 13:30**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b>Semivolatile Organics - PIA</b>					
Hexachlorobenzene	< 1000 ug/L		09/03/13 18:34	CAP	EPA 625 AR,IL,IA,KS, WI
Pentachlorophenol	< 5000 ug/L		09/03/13 18:34	CAP	EPA 625 AR,IL,IA,KS, WI
Phenanthrene	< 1000 ug/L		09/03/13 18:34	CAP	EPA 625 AR,IL,IA,KS, WI
Anthracene	< 1000 ug/L		09/03/13 18:34	CAP	EPA 625 AR,IL,IA,KS, WI
Di-n-butyl phthalate	< 1000 ug/L		09/03/13 18:34	CAP	EPA 625 AR,IL,IA,KS, WI
Fluoranthene	< 1000 ug/L		09/03/13 18:34	CAP	EPA 625 AR,IL,IA,KS, WI
Benzidine	< 8000 ug/L		09/03/13 18:34	CAP	EPA 625 AR,IL,IA,KS, WI
Pyrene	< 1000 ug/L		09/03/13 18:34	CAP	EPA 625 AR,IL,IA,KS, WI
Butyl benzyl phthalate	< 1000 ug/L		09/03/13 18:34	CAP	EPA 625 AR,IL,IA,KS, WI
Benzo(a)anthracene	< 1000 ug/L		09/03/13 18:34	CAP	EPA 625 AR,IL,IA,KS, WI
3,3'-Dichlorobenzidine	< 2000 ug/L		09/03/13 18:34	CAP	EPA 625 AR,IL,IA,KS, WI
Chrysene	< 1000 ug/L		09/03/13 18:34	CAP	EPA 625 AR,IL,IA,KS, WI
Bis(2-ethylhexyl) phthalate	< 1000 ug/L		09/03/13 18:34	CAP	EPA 625 AR,IL,IA,KS, WI
Di-n-octyl phthalate	< 1000 ug/L		09/03/13 18:34	CAP	EPA 625 AR,IL,IA,KS, WI
Benzo(b)fluoranthene	< 1000 ug/L		09/03/13 18:34	CAP	EPA 625 AR,IL,IA,KS, WI
2,3,7,8-TCDD Screen	< 5000 ug/L		09/03/13 18:34	CAP	EPA 625*
Benzo(k)fluoranthene	< 1000 ug/L		09/03/13 18:34	CAP	EPA 625 AR,IL,IA,KS, WI
Benzo(a)pyrene	< 1000 ug/L		09/03/13 18:34	CAP	EPA 625 AR,IL,IA,KS, WI
Indeno(1,2,3-cd)pyrene	< 1000 ug/L		09/03/13 18:34	CAP	EPA 625 AR,IL,IA,KS, WI
Dibenzo(a,h)anthracene	< 1000 ug/L		09/03/13 18:34	CAP	EPA 625 AR,IL,IA,KS, WI
Benzo(g,h,i)perylene	< 1000 ug/L		09/03/13 18:34	CAP	EPA 625 AR,IL,IA,KS, WI
<b>Soluble Metals - STL</b>					
Silicon as SiO2	57 mg/L		08/27/13 14:01	WPS	EPA 200.7 R4.4

3083558



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Date Received: 08/22/13 15:55  
Report Date: 09/11/13  
Customer #: 277310

**\*Laboratory Results\***

Sample No: **3083558-07**  
Sample Description: **Location 6**

Collect Date: **08/22/13 13:30**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b><u>Soluble Metals - STL</u></b>					
Aluminum	0.27 mg/L		08/27/13 14:01	WPS	EPA 200.7 R4.4*
Mercury	< 0.0020 mg/L		08/27/13 12:17	WPS	EPA 245.1 R3.0 / SW 7470A 04KS
Antimony	0.11 mg/L		08/27/13 14:01	WPS	EPA 200.7 R4.4 04KS
Copper	< 0.020 mg/L		08/27/13 14:01	WPS	EPA 200.7 R4.4 04KS
Silver	< 0.020 mg/L		08/27/13 14:01	WPS	EPA 200.7 R4.4 04KS
Arsenic	0.68 mg/L		08/27/13 14:01	WPS	EPA 200.7 R4.4 04KS
Barium	1.9 mg/L		08/27/13 14:01	WPS	EPA 200.7 R4.4 04KS
Beryllium	< 0.010 mg/L		08/27/13 14:01	WPS	EPA 200.7 R4.4 04KS
Boron	13 mg/L		08/27/13 14:01	WPS	EPA 200.7 R4.4*
Cadmium	< 0.020 mg/L		08/27/13 14:01	WPS	EPA 200.7 R4.4 04KS
Calcium	5300 mg/L		08/27/13 10:06	WPS	EPA 200.7 R4.4 04KS
Chromium	0.10 mg/L		08/27/13 14:01	WPS	EPA 200.7 R4.4 04KS
Cobalt	0.020 mg/L		08/27/13 14:01	WPS	EPA 200.7 R4.4 04KS
Iron	7.2 mg/L		08/27/13 14:01	WPS	EPA 200.7 R4.4 04KS
Lead	< 0.10 mg/L		08/27/13 14:01	WPS	EPA 200.7 R4.4 04KS
Magnesium	83 mg/L		08/27/13 14:01	WPS	EPA 200.7 R4.4 04KS
Manganese	0.59 mg/L		08/27/13 14:01	WPS	EPA 200.7 R4.4 04KS
Molybdenum	< 0.12 mg/L		08/27/13 14:01	WPS	EPA 200.7 R4.4 04KS
Nickel	0.14 mg/L		08/27/13 14:01	WPS	EPA 200.7 R4.4 04KS
Potassium	590 mg/L		08/28/13 17:04	WPS	EPA 200.7 R4.4*
Selenium	0.22 mg/L		08/27/13 14:01	WPS	EPA 200.7 R4.4 04KS
Sodium	4300 mg/L		08/27/13 10:06	WPS	EPA 200.7 R4.4*
Thallium	< 0.20 mg/L		08/27/13 14:01	WPS	EPA 200.7 R4.4 04KS
Vanadium	< 0.020 mg/L		08/27/13 14:01	WPS	EPA 200.7 R4.4 04KS
Zinc	0.44 mg/L		08/27/13 14:01	WPS	EPA 200.7 R4.4 04KS
Silicon	26 mg/L		08/27/13 14:01	WPS	EPA 200.7 R4.4*
<b><u>Total Metals - STL</u></b>					
Silicon as SiO2	58 mg/L		08/27/13 14:05	WPS	EPA 200.7 R4.4
Aluminum	0.25 mg/L		08/27/13 14:05	WPS	EPA 200.7 R4.4*
Mercury	< 0.0020 mg/L		08/27/13 12:17	WPS	EPA 245.1 R3.0 / SW 7470A 04KS
Antimony	0.14 mg/L		08/27/13 14:05	WPS	EPA 200.7 R4.4 04KS
Silicon	27 mg/L		08/27/13 14:05	WPS	EPA 200.7 R4.4*



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Bridgeton Landfill  
13570 St Charles Rock Road  
St. Louis, MO 63044  
Attn: Dan Feezor

Date Received: 08/22/13 15:55  
Report Date: 09/11/13  
Customer #: 277310

**\*Laboratory Results\***

Sample No: **3083558-07**  
Sample Description: **Location 6**

Collect Date: **08/22/13 13:30**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b>Total Metals - STL</b>					
Arsenic	0.72 mg/L		08/27/13 14:05	WPS	EPA 200.7 R4.4 04KS
Barium	2.0 mg/L		08/27/13 14:05	WPS	EPA 200.7 R4.4 04KS
Beryllium	< 0.010 mg/L		08/27/13 14:05	WPS	EPA 200.7 R4.4 04KS
Hardness	13000 mg/L		08/27/13 14:05	WPS	SM 2340B
Boron	13 mg/L		08/27/13 14:05	WPS	EPA 200.7 R4.4*
Cadmium	< 0.020 mg/L		08/27/13 14:05	WPS	EPA 200.7 R4.4 04KS
Calcium	5200 mg/L		08/27/13 10:10	WPS	EPA 200.7 R4.4 04KS
Chromium	0.11 mg/L		08/27/13 14:05	WPS	EPA 200.7 R4.4 04KS
Cobalt	< 0.020 mg/L		08/27/13 14:05	WPS	EPA 200.7 R4.4 04KS
Copper	< 0.020 mg/L		08/27/13 14:05	WPS	EPA 200.7 R4.4 04KS
Iron	7.5 mg/L		08/27/13 14:05	WPS	EPA 200.7 R4.4 04KS
Lead	< 0.10 mg/L		08/27/13 14:05	WPS	EPA 200.7 R4.4 04KS
Magnesium	81 mg/L		08/27/13 14:05	WPS	EPA 200.7 R4.4 04KS
Manganese	0.92 mg/L		08/27/13 14:05	WPS	EPA 200.7 R4.4 04KS
Molybdenum	< 0.12 mg/L		08/27/13 14:05	WPS	EPA 200.7 R4.4 04KS
Nickel	0.15 mg/L		08/27/13 14:05	WPS	EPA 200.7 R4.4 04KS
Potassium	590 mg/L		08/28/13 17:08	WPS	EPA 200.7 R4.4*
Selenium	< 0.10 mg/L		08/27/13 14:05	WPS	EPA 200.7 R4.4 04KS
Silver	< 0.020 mg/L		08/27/13 14:05	WPS	EPA 200.7 R4.4 04KS
Sodium	4300 mg/L		08/27/13 10:10	WPS	EPA 200.7 R4.4*
Thallium	< 0.20 mg/L		08/27/13 14:05	WPS	EPA 200.7 R4.4 04KS
Vanadium	< 0.020 mg/L		08/27/13 14:05	WPS	EPA 200.7 R4.4 04KS
Zinc	0.46 mg/L		08/27/13 14:05	WPS	EPA 200.7 R4.4 04KS

Sample No: **3083558-08**  
Sample Description: **Field Blank**

Collect Date: **08/22/13 12:30**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b>Anions - STL</b>					
Chloride	< 0.50 mg/L		08/23/13 10:57	DWM	EPA 300.0 R2.1 04KS
Nitrate-N	< 0.50 mg/L		08/23/13 10:57	DWM	EPA 300.0 R2.1 04KS
Nitrite-N	< 0.50 mg/L		08/23/13 10:57	DWM	EPA 300.0 R2.1 04KS

3083558



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Attn: Dan Feezor

Date Received: 08/22/13 15:55  
Report Date: 09/11/13  
Customer #: 277310

**\*Laboratory Results\***

Sample No: **3083558-08**  
Sample Description: **Field Blank**

Collect Date: **08/22/13 12:30**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method	
<b><u>Anions - STL</u></b>						
Sulfate	< 0.50 mg/L		08/23/13 10:57	DWM	EPA 300.0 R2.1	04KS
<b><u>General Chemistry - PIA</u></b>						
Total Organic Carbon (TOC)	< 0.50 mg/L		08/27/13 20:26	lgsjw	5310C	KS,IL,IA,WI,AR
<b><u>General Chemistry - STL</u></b>						
Alkalinity - total as CaCO3	2.0 mg/L		08/23/13 10:00	ACV	SM 2320B 18Ed*	
BOD	< 6.0 mg/L		08/23/13 11:00	DAW	SM 5210B 18Ed	04KS
BOD - soluble	< 6.0 mg/L		08/23/13 11:00	DAW	SM 5210B 18Ed*	
COD	< 5.0 mg/L		08/23/13 10:15	DAW	SM 5220D 18Ed	04KS
Cyanide	< 0.0050 mg/L		08/29/13 12:00	DWM	SM 4500-CN C E 18Ed*	
Cyanide - amenable	< 0.0050 mg/L		08/28/13 10:00	DWM	SM 4500CN CG 18Ed*	
Cyanide - weak acid dissociable	< 0.0050 mg/L		08/26/13 15:30	DWM	ASTM 1310-86*	
Oil & Grease - total	< 5.2 mg/L		08/23/13 12:00	mep	EPA 1664A	04KS
Phenol	< 0.050 mg/L		08/26/13 12:00	DWM	EPA 420.1	04KS
Solids - total dissolved solids (TDS)	< 17 mg/L		08/23/13 15:30	DAW	SM 2540C 18Ed*	
Solids - total suspended solids (TSS)	< 2.0 mg/L		08/23/13 09:50	DAW	SM 2540D 18Ed	04KS
<b><u>Nutrients - PIA</u></b>						
Total Kjeldahl Nitrogen (TKN)	< 1.0 mg/L		08/28/13 16:50	lgth	SM 4500-N B & NH3-H 18Ed MOD	IL,IA,WI,AR
<b><u>Nutrients - STL</u></b>						
Ammonia-N	< 0.10 mg/L		08/26/13 11:30	ACV	SM(18) 4500 NH3 F	04KS
Phosphorus - ortho as P	< 0.050 mg/L	H	08/26/13 16:30	ACV	SM 4500P B E 18ed*	
Phosphorus - total as P	< 0.050 mg/L		08/26/13 15:45	ACV	SM 4500P B E 18ed	04KS
<b><u>Semivolatile Organics - PIA</u></b>						
N-Nitrosodimethylamine	< 200 ug/L		08/28/13 19:44	CAP	EPA 625	AR,IL,IA,KS,WI
Phenol	< 200 ug/L		08/28/13 19:44	CAP	EPA 625	AR,IL,IA,KS,WI
Bis(2-chloroethyl) ether	< 200 ug/L		08/28/13 19:44	CAP	EPA 625	AR,IL,IA,KS,WI
2-Chlorophenol	< 200 ug/L		08/28/13 19:44	CAP	EPA 625	AR,IL,IA,KS,WI



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Attn: Dan Feezor

Date Received: 08/22/13 15:55  
Report Date: 09/11/13  
Customer #: 277310

**\*Laboratory Results\***

Sample No: **3083558-08**  
Sample Description: **Field Blank**

Collect Date: **08/22/13 12:30**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b>Semivolatile Organics - PIA</b>					
1,3-Dichlorobenzene	< 200 ug/L		08/28/13 19:44	CAP	EPA 625 AR,IL,IA,WI
1,4-Dichlorobenzene	< 200 ug/L		08/28/13 19:44	CAP	EPA 625 AR,IL,IA,WI
1,2-Dichlorobenzene	< 200 ug/L		08/28/13 19:44	CAP	EPA 625 AR,IL,IA,WI
Bis(2-chloroisopropyl) ether	< 200 ug/L		08/28/13 19:44	CAP	EPA 625 AR,IL,IA,KS,WI
N-Nitrosodi-n-propylamine	< 200 ug/L		08/28/13 19:44	CAP	EPA 625 AR,IL,IA,KS,WI
Hexachloroethane	< 200 ug/L		08/28/13 19:44	CAP	EPA 625 AR,IL,IA,KS,WI
Nitrobenzene	< 200 ug/L		08/28/13 19:44	CAP	EPA 625 AR,IL,IA,KS,WI
Isophorone	< 200 ug/L		08/28/13 19:44	CAP	EPA 625 AR,IL,IA,KS,WI
2-Nitrophenol	< 200 ug/L		08/28/13 19:44	CAP	EPA 625 AR,IL,IA,KS,WI
2,4-Dimethylphenol	< 200 ug/L		08/28/13 19:44	CAP	EPA 625 AR,IL,IA,KS,WI
Bis(2-chloroethoxy) methane	< 200 ug/L		08/28/13 19:44	CAP	EPA 625 AR,IL,IA,KS,WI
2,4-Dichlorophenol	< 200 ug/L		08/28/13 19:44	CAP	EPA 625 AR,IL,IA,KS,WI
1,2,4-Trichlorobenzene	< 200 ug/L		08/28/13 19:44	CAP	EPA 625 AR,IL,IA,KS,WI
Naphthalene	< 200 ug/L		08/28/13 19:44	CAP	EPA 625 AR,IL,IA,KS,WI
Hexachlorobutadiene	< 200 ug/L		08/28/13 19:44	CAP	EPA 625 AR,IL,IA,KS,WI
4-Chloro-3-methylphenol	< 200 ug/L		08/28/13 19:44	CAP	EPA 625 AR,IL,IA,KS,WI
Hexachlorocyclopentadiene	< 1000 ug/L		08/28/13 19:44	CAP	EPA 625 AR,IL,IA,KS,WI
2,4,6-Trichlorophenol	< 1000 ug/L		08/28/13 19:44	CAP	EPA 625 AR,IL,IA,KS,WI
2-Chloronaphthalene	< 200 ug/L		08/28/13 19:44	CAP	EPA 625 AR,IL,IA,KS,WI
Dimethyl phthalate	< 200 ug/L		08/28/13 19:44	CAP	EPA 625 AR,IL,IA,KS,WI
2,6-Dinitrotoluene	< 200 ug/L		08/28/13 19:44	CAP	EPA 625 AR,IL,IA,KS,WI
Acenaphthylene	< 200 ug/L		08/28/13 19:44	CAP	EPA 625 AR,IL,IA,KS,WI
Acenaphthene	< 200 ug/L		08/28/13 19:44	CAP	EPA 625 AR,IL,IA,KS,WI

3083558



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Bridgeton Landfill  
13570 St Charles Rock Road  
St. Louis, MO 63044  
Attn: Dan Feezor

Date Received: 08/22/13 15:55  
Report Date: 09/11/13  
Customer #: 277310

**\*Laboratory Results\***

Sample No: **3083558-08**  
Sample Description: **Field Blank**

Collect Date: **08/22/13 12:30**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b>Semivolatile Organics - PIA</b>					
2,4-Dinitrophenol	< 1000 ug/L		08/28/13 19:44	CAP	EPA 625 AR,IL,IA,KS, WI
4-Nitrophenol	< 1000 ug/L		08/28/13 19:44	CAP	EPA 625 AR,IL,IA,KS, WI
2,4-Dinitrotoluene	< 200 ug/L		08/28/13 19:44	CAP	EPA 625 AR,IL,IA,KS, WI
Diethyl phthalate	< 200 ug/L		08/28/13 19:44	CAP	EPA 625 AR,IL,IA,KS, WI
Fluorene	< 200 ug/L		08/28/13 19:44	CAP	EPA 625 AR,IL,IA,KS, WI
4-Chlorophenylphenyl ether	< 200 ug/L		08/28/13 19:44	CAP	EPA 625 AR,IL,IA,KS, WI
4,6-Dinitro-2-methylphenol	< 1000 ug/L		08/28/13 19:44	CAP	EPA 625 AR,IL,IA,KS, WI
N-Nitrosodiphenylamine	< 200 ug/L		08/28/13 19:44	CAP	EPA 625 AR,IL,IA,KS, WI
1,2-Diphenylhydrazine	< 200 ug/L		08/28/13 19:44	CAP	EPA 625 AR,IL
4-Bromophenyl phenyl ether	< 200 ug/L		08/28/13 19:44	CAP	EPA 625 AR,IL,IA,KS, WI
Hexachlorobenzene	< 200 ug/L		08/28/13 19:44	CAP	EPA 625 AR,IL,IA,KS, WI
Pentachlorophenol	< 1000 ug/L		08/28/13 19:44	CAP	EPA 625 AR,IL,IA,KS, WI
Phenanthrene	< 200 ug/L		08/28/13 19:44	CAP	EPA 625 AR,IL,IA,KS, WI
Anthracene	< 200 ug/L		08/28/13 19:44	CAP	EPA 625 AR,IL,IA,KS, WI
Di-n-butyl phthalate	< 200 ug/L		08/28/13 19:44	CAP	EPA 625 AR,IL,IA,KS, WI
Fluoranthene	< 200 ug/L		08/28/13 19:44	CAP	EPA 625 AR,IL,IA,KS, WI
Benzidine	< 1600 ug/L		08/28/13 19:44	CAP	EPA 625 AR,IL,IA,KS, WI
Pyrene	< 200 ug/L		08/28/13 19:44	CAP	EPA 625 AR,IL,IA,KS, WI
Butyl benzyl phthalate	< 200 ug/L		08/28/13 19:44	CAP	EPA 625 AR,IL,IA,KS, WI
Benzo(a)anthracene	< 200 ug/L		08/28/13 19:44	CAP	EPA 625 AR,IL,IA,KS, WI
3,3'-Dichlorobenzidine	< 400 ug/L		08/28/13 19:44	CAP	EPA 625 AR,IL,IA,KS, WI
Chrysene	< 200 ug/L		08/28/13 19:44	CAP	EPA 625 AR,IL,IA,KS, WI

3083558





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Bridgeton Landfill  
13570 St Charles Rock Road  
St. Louis, MO 63044  
Attn: Dan Feezor

Date Received: 08/22/13 15:55  
Report Date: 09/11/13  
Customer #: 277310

**\*Laboratory Results\***

Sample No: **3083558-08**  
Sample Description: **Field Blank**

Collect Date: **08/22/13 12:30**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b><u>Semivolatile Organics - PIA</u></b>					
Bis(2-ethylhexyl) phthalate	< 200 ug/L		08/28/13 19:44	CAP	EPA 625 AR,IL,IA,KS, WI
Di-n-octyl phthalate	< 200 ug/L		08/28/13 19:44	CAP	EPA 625 AR,IL,IA,KS, WI
Benzo(b)fluoranthene	< 200 ug/L		08/28/13 19:44	CAP	EPA 625 AR,IL,IA,KS, WI
2,3,7,8-TCDD Screen	< 1000 ug/L		08/28/13 19:44	CAP	EPA 625*
Benzo(k)fluoranthene	< 200 ug/L		08/28/13 19:44	CAP	EPA 625 AR,IL,IA,KS, WI
Benzo(a)pyrene	< 200 ug/L		08/28/13 19:44	CAP	EPA 625 AR,IL,IA,KS, WI
Indeno(1,2,3-cd)pyrene	< 200 ug/L		08/28/13 19:44	CAP	EPA 625 AR,IL,IA,KS, WI
Dibenzo(a,h)anthracene	< 200 ug/L		08/28/13 19:44	CAP	EPA 625 AR,IL,IA,KS, WI
Benzo(g,h,i)perylene	< 200 ug/L		08/28/13 19:44	CAP	EPA 625 AR,IL,IA,KS, WI
<b><u>Soluble Metals - STL</u></b>					
Silicon as SiO2	< 0.11 mg/L		08/27/13 14:13	WPS	EPA 200.7 R4.4
Aluminum	< 0.015 mg/L		08/27/13 14:13	WPS	EPA 200.7 R4.4*
Mercury	< 0.0002 mg/L		08/27/13 12:17	WPS	EPA 245.1 R3.0 / SW 7470A 04KS
Antimony	< 0.010 mg/L		08/27/13 14:13	WPS	EPA 200.7 R4.4 04KS
Copper	< 0.0020 mg/L		08/27/13 14:13	WPS	EPA 200.7 R4.4 04KS
Silver	< 0.0020 mg/L		08/27/13 14:13	WPS	EPA 200.7 R4.4 04KS
Arsenic	< 0.015 mg/L		08/27/13 14:13	WPS	EPA 200.7 R4.4 04KS
Barium	< 0.010 mg/L		08/27/13 14:13	WPS	EPA 200.7 R4.4 04KS
Beryllium	< 0.0010 mg/L		08/27/13 14:13	WPS	EPA 200.7 R4.4 04KS
Boron	< 0.050 mg/L		08/27/13 14:13	WPS	EPA 200.7 R4.4*
Cadmium	< 0.0020 mg/L		08/27/13 14:13	WPS	EPA 200.7 R4.4 04KS
Calcium	< 0.095 mg/L		08/27/13 14:13	WPS	EPA 200.7 R4.4 04KS
Chromium	< 0.0020 mg/L		08/27/13 14:13	WPS	EPA 200.7 R4.4 04KS
Cobalt	< 0.0020 mg/L		08/27/13 14:13	WPS	EPA 200.7 R4.4 04KS
Iron	< 0.010 mg/L		08/27/13 14:13	WPS	EPA 200.7 R4.4 04KS
Lead	< 0.010 mg/L		08/27/13 14:13	WPS	EPA 200.7 R4.4 04KS
Magnesium	< 0.050 mg/L		08/27/13 14:13	WPS	EPA 200.7 R4.4 04KS
Manganese	< 0.0030 mg/L		08/27/13 14:13	WPS	EPA 200.7 R4.4 04KS



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Bridgeton Landfill  
13570 St Charles Rock Road  
St. Louis, MO 63044  
Attn: Dan Feezor

Date Received: 08/22/13 15:55  
Report Date: 09/11/13  
Customer #: 277310

**\*Laboratory Results\***

Sample No: **3083558-08**  
Sample Description: **Field Blank**

Collect Date: **08/22/13 12:30**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b><u>Soluble Metals - STL</u></b>					
Molybdenum	< 0.012 mg/L		08/27/13 14:13	WPS	EPA 200.7 R4.4 04KS
Nickel	< 0.0020 mg/L		08/27/13 14:13	WPS	EPA 200.7 R4.4 04KS
Potassium	< 0.050 mg/L		08/28/13 17:12	WPS	EPA 200.7 R4.4*
Selenium	< 0.010 mg/L		08/27/13 14:13	WPS	EPA 200.7 R4.4 04KS
Sodium	< 0.10 mg/L		08/27/13 14:13	WPS	EPA 200.7 R4.4*
Thallium	< 0.020 mg/L		08/27/13 14:13	WPS	EPA 200.7 R4.4 04KS
Vanadium	< 0.0020 mg/L		08/27/13 14:13	WPS	EPA 200.7 R4.4 04KS
Zinc	< 0.010 mg/L		08/27/13 14:13	WPS	EPA 200.7 R4.4 04KS
Silicon	< 0.050 mg/L		08/27/13 14:13	WPS	EPA 200.7 R4.4*
<b><u>Total Metals - STL</u></b>					
Silicon as SiO2	< 0.11 mg/L		08/27/13 14:17	WPS	EPA 200.7 R4.4
Aluminum	< 0.015 mg/L		08/27/13 14:17	WPS	EPA 200.7 R4.4*
Mercury	< 0.0002 mg/L		08/27/13 12:17	WPS	EPA 245.1 R3.0 / 04KS SW 7470A
Antimony	< 0.010 mg/L		08/27/13 14:17	WPS	EPA 200.7 R4.4 04KS
Silicon	< 0.050 mg/L		08/27/13 14:17	WPS	EPA 200.7 R4.4*
Arsenic	< 0.015 mg/L		08/27/13 14:17	WPS	EPA 200.7 R4.4 04KS
Barium	< 0.010 mg/L		08/27/13 14:17	WPS	EPA 200.7 R4.4 04KS
Beryllium	< 0.0010 mg/L		08/27/13 14:17	WPS	EPA 200.7 R4.4 04KS
Hardness	< 0.25 mg/L		08/27/13 14:17	WPS	SM 2340B
Boron	< 0.050 mg/L		08/27/13 14:17	WPS	EPA 200.7 R4.4*
Cadmium	< 0.0020 mg/L		08/27/13 14:17	WPS	EPA 200.7 R4.4 04KS
Calcium	< 0.095 mg/L		08/27/13 14:17	WPS	EPA 200.7 R4.4 04KS
Chromium	< 0.0020 mg/L		08/27/13 14:17	WPS	EPA 200.7 R4.4 04KS
Cobalt	< 0.0020 mg/L		08/27/13 14:17	WPS	EPA 200.7 R4.4 04KS
Copper	< 0.0020 mg/L		08/27/13 14:17	WPS	EPA 200.7 R4.4 04KS
Iron	< 0.010 mg/L		08/27/13 14:17	WPS	EPA 200.7 R4.4 04KS
Lead	< 0.010 mg/L		08/27/13 14:17	WPS	EPA 200.7 R4.4 04KS
Magnesium	< 0.050 mg/L		08/27/13 14:17	WPS	EPA 200.7 R4.4 04KS
Manganese	< 0.0030 mg/L		08/27/13 14:17	WPS	EPA 200.7 R4.4 04KS
Molybdenum	< 0.012 mg/L		08/27/13 14:17	WPS	EPA 200.7 R4.4 04KS
Nickel	< 0.0020 mg/L		08/27/13 14:17	WPS	EPA 200.7 R4.4 04KS
Potassium	< 0.050 mg/L		08/28/13 17:16	WPS	EPA 200.7 R4.4*
Selenium	< 0.010 mg/L		08/27/13 14:17	WPS	EPA 200.7 R4.4 04KS

3083558



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Bridgeton Landfill  
13570 St Charles Rock Road  
St. Louis, MO 63044  
Attn: Dan Feezor

Date Received: 08/22/13 15:55  
Report Date: 09/11/13  
Customer #: 277310

**\*Laboratory Results\***

Sample No: **3083558-08**  
Sample Description: **Field Blank**

Collect Date: **08/22/13 12:30**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b>Total Metals - STL</b>					
Silver	< 0.0020 mg/L		08/27/13 14:17	WPS	EPA 200.7 R4.4 04KS
Sodium	< 0.20 mg/L		08/27/13 14:17	WPS	EPA 200.7 R4.4*
Thallium	< 0.020 mg/L		08/27/13 14:17	WPS	EPA 200.7 R4.4 04KS
Vanadium	< 0.0020 mg/L		08/27/13 14:17	WPS	EPA 200.7 R4.4 04KS
Zinc	< 0.010 mg/L		08/27/13 14:17	WPS	EPA 200.7 R4.4 04KS

Sample No: **3083558-09**  
Sample Description: **Location 3**

Collect Date: **08/21/13 17:00**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b>General Chemistry - STL</b>					
Solids - total suspended solids (TSS)	33000 mg/L		08/23/13 09:50	DAW	SM 2540D 18Ed 04KS
Solids - total volatile suspended solids	17000 mg/L		08/23/13 09:50	DAW	SM 2540E 18Ed*



**PDC Laboratories, Inc.**

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Bridgeton Landfill  
13570 St Charles Rock Road  
St. Louis, MO 63044  
Attn: Dan Feezor

Date Received: 08/22/13 15:55  
Report Date: 09/11/13  
Customer #: 277310

**\*Laboratory Results\***

**Notes**

This report shall not be reproduced, except in full, without the written approval of the laboratory.

PDC Laboratories participates in the following accreditation/certification and proficiency programs at the following locations. Endorsement by Federal or State Governments or their agencies is not implied.

- PIA PDC Laboratories - Peoria, IL
  - TNI Accreditation for Drinking Water, Wastewater, Hazardous and Solid Wastes Fields of Testing through IL EPA Lab No. 100230
  - Illinois Department of Public Health Bacteriological Analysis in Drinking Water Approved Laboratory Registry No. 17553
  - Drinking Water Certifications: Kansas (E-10338); Missouri (870); Wisconsin (998284430); Indiana (C-IL-040); Iowa (240)
  - Wastewater Certifications: Arkansas (88-0677); Wisconsin (998284430); Iowa (240); Kansas (E-10335)
  - Hazardous/Solid Waste Certifications: Arkansas (88-0677); Wisconsin (998284430); Iowa (240); Kansas (E-10335)
  - UST Certification; Iowa (240)
- SPM PDC Laboratories - Springfield, MO
  - EPA DMR-QA Program
- STL PDC Laboratories - St. Louis, MO
  - TNI Accreditation for Wastewater, Hazardous and Solid Wastes Fields of Testing through KS Lab No. E-10389
- JER PDC Laboratories - Jerseyville, IL
  - Illinois Department of Public Health Bacteriological Analysis in Drinking Water Approved Laboratory Registry No. 17521
  - Drinking Water Certifications: Missouri (430)

\* Not a TNI accredited analyte

H Test performed after the expiration of the appropriate regulatory/advisory maximum allowable hold time.

Certified by: Roxann Shull, Client Services Supervisor



**PDC Laboratories, Inc. - St. Louis**  
**3278 N. Highway 67 (Lindbergh)**  
**Florissant, MO 63033**  
 www.pdclab.com

**CHAIN OF CUSTODY RECORD**  
 Phone (314) 432-0550 or (314) 921-4488  
 Fax (314) 432-4977

State where samples collected \_\_\_\_\_

(Instructions/Sample Acceptance Policy on Reverse)

ALL SHADED AREAS MUST BE COMPLETED BY CLIENT (PLEASE PRINT)

<b>1 CLIENT</b> SARR ENGINEERING L ADDRESS: 1001 DIAMOND RIDGE, SUITE 1100 CITY: JEFFERSON CITY, MO 65109 CONTACT PERSON: ED GALBRAITH 573-418-5562		PROJECT NUMBER P.O. NUMBER MEANS SHIPPED	PHONE NUMBER FAX NUMBER EMAIL ADDRESS: Egalbraith@sarr.com	<b>3 ANALYSIS REQUESTED</b> Phenols 420/700 4500 SVOCs 625 Total Metals Trace Metals LF 20.7 TDS 2540c/750 2040 AIK 2320 B Mn, Cl, SO4, PO4 300.0 O & G 616.64 BOD-5 2200/1450 4500 TKN 4500 MIB-D 4500/1450 4500 COD 5 2200/1450 4500 Total P 4500 P-E MLSS/MLVSS		<b>4 (FOR LAB USE ONLY)</b> LOGIN #: 3083558 LOGGED BY: HE LAB PROJ. # TEMPLATE: PROJ. MGR.:							
<b>2 SAMPLE DESCRIPTION</b> AS YOU WANT ON REPORT		DATE COLLECTED TIME COLLECTED SAMPLE TYPE MATRIX TYPE Bottle Count	MATRIX TYPES: WW-WASTEWATER DW-DRINKING WATER GW-GROUND WATER WWSL-SLUDGE NAS-SOLID L'CHT-LEACHATE NAL-NON-AQUEOUS SOIL-SOILS		REMARKS								
1A		8/22/13	11:40	✓	L'CHT	13	4	2	1	2	3	1	
1D		8/22/13	12:30	✓	L'CHT	13	4	2	1	2	3		
1E		8/22/13	12:15	✓	L'CHT	13	4	2	1	2	3		
2		8/22/13	12:00	✓	L'CHT	13	4	2	1	2	3		
3		8/22/13	12:00	✓	L'CHT	13	4	2	1	2	3		
4		8/22/13	12:10	✓	L'CHT	1							1
6		8/22/13	13:30	✓	L'CHT	13	4	2	1	2	3		
Field BLANK		8/22/13	12:30	✓	L'CHT	13	4	2	1	2	3		
3		8/21/13	17:00	✓	L'CHT	1							1
<b>5 TURNAROUND TIME</b> (RUSH TAT IS SUBJECT TO PDC LABS APPROVAL AND SURCHARGE) NORMAL (8-10 Bus. Days) <u>RUSH (5 Bus. Days)</u> <i>Fastrak™</i> (3 Bus. Days) 1-2 Bus. Days Same Day DATE DUE _____		The sample temperature will be measured upon receipt at the lab. By initialing this area, you request that the lab notify you, before proceeding with analysis, if the sample temperature is outside of the range of 0.1-6.0°C. By not initialing this area, you allow the lab to proceed with analytical testing regardless of the sample temperature.						<b>6</b>					
RESULTS BY: E-MAIL FAX PHONE CALL PHONE/FAX# IF DIFFERENT FROM ABOVE		<b>7 RELINQUISHED BY: (SIGNATURE)</b> <i>[Signature]</i>		DATE: 8/22/13 TIME: 14:25	RECEIVED BY: <i>Heather Carliant</i> DATE: 8/22/13 TIME: 14:25	<b>8 COMMENTS: (FOR LAB USE ONLY)</b> SAMPLE TEMPERATURE UPON RECEIPT: 18.9°C CHILL PROCESS STARTED PRIOR TO RECEIPT SAMPLE(S) RECEIVED ON ICE PROPER BOTTLES RECEIVED IN GOOD CONDITION BOTTLES FILLED WITH ADEQUATE VOLUME SAMPLES RECEIVED WITHIN HOLD TIME(S) (EXCLUDES TYPICAL FIELD PARAMETERS) DATE AND TIME TAKEN FROM SAMPLE BOTTLE							
RELINQUISHED BY: (SIGNATURE)		DATE	TIME	RECEIVED BY:	DATE	TIME							
RELINQUISHED BY: (SIGNATURE)		DATE	TIME	RECEIVED BY:	DATE	TIME							
RELINQUISHED BY: (SIGNATURE)		DATE	TIME	RECEIVED BY:	DATE	TIME							

Thank you for using PDC Laboratories, Inc. Locations in Peoria, IL; St. Louis, MO; and Springfield, MO



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Bridgeton Landfill  
13570 St Charles Rock Road  
St. Louis, MO 63044  
Attn: Dan Feezor

Date Received: 08/27/13 12:48  
Report Date: 09/12/13  
Customer #: 277310

**\*Laboratory Results\***

Sample No: **3083976-01**  
Sample Description: **Location 1A**

Collect Date: **08/26/13 08:51**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b>General Chemistry - STL</b>					
Solids - total dissolved solids (TDS)	48000 mg/L		08/28/13 16:00	DAW	SM 2540C 18Ed*

Sample No: **3083976-02**  
Sample Description: **Location 1D**

Collect Date: **08/26/13 10:26**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b>General Chemistry - STL</b>					
Solids - total dissolved solids (TDS)	48000 mg/L		08/28/13 16:00	DAW	SM 2540C 18Ed*

Sample No: **3083976-03**  
Sample Description: **Location 1E**

Collect Date: **08/26/13 09:47**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b>General Chemistry - STL</b>					
Solids - total dissolved solids (TDS)	59000 mg/L		08/28/13 16:00	DAW	SM 2540C 18Ed*

Sample No: **3083976-04**  
Sample Description: **Location 2**

Collect Date: **08/26/13 11:54**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b>General Chemistry - STL</b>					
Solids - total dissolved solids (TDS)	47000 mg/L		08/28/13 16:00	DAW	SM 2540C 18Ed*

Sample No: **3083976-06**  
Sample Description: **Location 4**

Collect Date: **08/26/13 12:31**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b>General Chemistry - STL</b>					

3083976



**PDC Laboratories, Inc.**

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Bridgeton Landfill  
13570 St Charles Rock Road  
St. Louis, MO 63044  
Attn: Dan Feezor

Date Received: 08/27/13 12:48  
Report Date: 09/12/13  
Customer #: 277310

**\*Laboratory Results\***

Sample No: **3083976-06**  
Sample Description: **Location 4**

Collect Date: **08/26/13 12:31**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b>General Chemistry - STL</b>					
Solids - total dissolved solids (TDS)	17000 mg/L		08/28/13 16:00	DAW	SM 2540C 18Ed*

Sample No: **3083976-07**  
Sample Description: **Field Blank**

Collect Date: **08/26/13 12:31**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b>General Chemistry - STL</b>					
Solids - total dissolved solids (TDS)	< 17 mg/L		08/28/13 16:00	DAW	SM 2540C 18Ed*

Sample No: **3083976-08**  
Sample Description: **Location 6**

Collect Date: **08/26/13 08:14**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b>General Chemistry - STL</b>					
Solids - total dissolved solids (TDS)	48000 mg/L		08/28/13 16:00	DAW	SM 2540C 18Ed*

Sample No: **3083976-09**  
Sample Description: **T2 EC**

Collect Date: **08/26/13 15:04**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b>General Chemistry - STL</b>					
Solids - total dissolved solids (TDS)	40000 mg/L		08/28/13 16:00	DAW	SM 2540C 18Ed*

Sample No: **3083976-10**  
Sample Description: **NP-INF**

Collect Date: **08/26/13 15:31**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b>General Chemistry - STL</b>					

3083976



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Bridgeton Landfill  
13570 St Charles Rock Road  
St. Louis, MO 63044  
Attn: Dan Feezor

Date Received: 08/27/13 12:48  
Report Date: 09/12/13  
Customer #: 277310

**\*Laboratory Results\***

Sample No: **3083976-10**  
Sample Description: **NP-INF**

Collect Date: **08/26/13 15:31**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b>General Chemistry - STL</b>					
Solids - total dissolved solids (TDS)	42000 mg/L		08/28/13 16:00	DAW	SM 2540C 18Ed*





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Attn: Dan Feezor

Date Received: 08/27/13 12:48  
Report Date: 09/12/13  
Customer #: 277310

**\*Laboratory Results\***

**Notes**

This report shall not be reproduced, except in full, without the written approval of the laboratory.

PDC Laboratories participates in the following accreditation/certification and proficiency programs at the following locations. Endorsement by Federal or State Governments or their agencies is not implied.

- PIA PDC Laboratories - Peoria, IL
  - TNI Accreditation for Drinking Water, Wastewater, Hazardous and Solid Wastes Fields of Testing through IL EPA Lab No. 100230
  - Illinois Department of Public Health Bacteriological Analysis in Drinking Water Approved Laboratory Registry No. 17553
  - Drinking Water Certifications: Kansas (E-10338); Missouri (870); Wisconsin (998284430); Indiana (C-IL-040); Iowa (240)
  - Wastewater Certifications: Arkansas (88-0677); Wisconsin (998284430); Iowa (240); Kansas (E-10335)
  - Hazardous/Solid Waste Certifications: Arkansas (88-0677); Wisconsin (998284430); Iowa (240); Kansas (E-10335)
  - UST Certification; Iowa (240)
- SPM PDC Laboratories - Springfield, MO
  - EPA DMR-QA Program
- STL PDC Laboratories - St. Louis, MO
  - TNI Accreditation for Wastewater, Hazardous and Solid Wastes Fields of Testing through KS Lab No. E-10389
- JER PDC Laboratories - Jerseyville, IL
  - Illinois Department of Public Health Bacteriological Analysis in Drinking Water Approved Laboratory Registry No. 17521
  - Drinking Water Certifications: Missouri (430)

\* Not a TNI accredited analyte

Certified by: Roxann Shull, Client Services Supervisor



**PDC Laboratories, Inc. – St. Louis**  
 3278 N. Highway 67 (Lindbergh)  
 Florissant, MO 63033  
 www.pdclab.com

**CHAIN OF CUSTODY RECORD**  
 Phone (314) 432-0550 or (314) 921-4488  
 Fax (314) 432-4977

State where samples collected MO

(Instructions/Sample Acceptance Policy on Reverse)

ALL SHADED AREAS MUST BE COMPLETED BY CLIENT (PLEASE PRINT)

<b>1 CLIENT</b> PROJECT NUMBER: <u>BARR ENGINEERING</u> P.O. NUMBER: _____ MEANS SHIPPED: _____ ADDRESS: <u>1001 DIAMOND RIDGE, SUITE 1100</u> PHONE NUMBER: _____ FAX NUMBER: _____ EMAIL ADDRESS: <u>egalbraith@barr.com</u> CITY: <u>JEFF CITY, MO</u> STATE: <u>MO</u> ZIP: <u>65109</u> CONTACT PERSON: <u>ED GALBRAITH 573-48-5562</u> SAMPLER: <u>WILLIAM ABERNATHY</u> SAMPLER'S SIGNATURE: <u>[Signature]</u> MATRIX TYPES: WW-WASTEWATER DW-DRINKING WATER GW-GROUND WATER WWSL-SLUDGE NAS-SOLID LCHT-LEACHATE NAL-NON-AQUEOUS SOIL-SOILS		<b>3 ANALYSIS REQUESTED</b> PHOSPHORUS 100-1/100-4500/ SYDCS 1025 TOTAL METALS + 0007 DISS. METALS LF TDS 2540/155 25400 ALK 23208 N-N CI, S04, PO4 300.0/ 0+G 1664 600-DISS BOD LF 52106 TKN 45000/3-2/100.CN 4500-2 COD 52000/NIB 45000/F/ TOTAL P 4500-P-E MLSS/MLVSS		<b>4 (FOR LAB USE ONLY)</b> LOGIN #: <u>30839714</u> LOGGED BY: <u>[Signature]</u> LAB PROJ. #: _____ TEMPLATE: _____ PROJ. MGR.: _____ REMARKS: _____									
<b>2 SAMPLE DESCRIPTION AS YOU WANT ON REPORT</b>		DATE COLLECTED		TIME COLLECTED		SAMPLE TYPE		MATRIX TYPE		Bottle Count		REMARKS	
1A		8/26/13		0851		✓		LCHT		13			
1D		8/26/13		1026		✓		LCHT		13			
1E		8/26/13		0947		✓		LCHT		13			
2		8/26/13		1154		✓		LCHT		13			
3		8/26/13		1218		✓		LCHT		1			
4		8/26/13		1231		✓		LCHT		13		1	
FIELD BLANK		8/26/13		1231		✓		DI		13			
6		8/26/13		0814		✓		LCHT		13			
T2 EC		8/26/13		1504		✓		LCHT		13			
NP-INF		8/26/13		1531		✓		LCHT		13			
EC CLARIFIED		8/22/13		—		✓		LCHT		1			
<b>5 TURNAROUND TIME</b> (RUSH TAT IS SUBJECT TO PDC LABS APPROVAL AND SURCHARGE) NORMAL (8-10 Bus. Days) <u>RUSH (5 Bus. Days)</u> <i>Fastrak™</i> (3 Bus. Days) 1-2 Bus. Days Same Day DATE DUE: _____		The sample temperature will be measured upon receipt at the lab. By initialing this area, you request that the lab notify you, before proceeding with analysis, if the sample temperature is outside of the range of 0.1-6.0°C. By not initialing this area, you allow the lab to proceed with analytical testing regardless of the sample temperature.											
RESULTS BY: <u>E-MAIL</u> FAX PHONE CALL PHONE/FAX# IF DIFFERENT FROM ABOVE		<b>7 RELINQUISHED BY: (SIGNATURE)</b> <u>[Signature]</u>		DATE: <u>8/27/13</u> TIME: <u>0911</u>		<b>RECEIVED BY:</b> <u>[Signature]</u>		DATE: <u>8/27/13</u> TIME: <u>09:18</u>		<b>8 COMMENTS: (FOR LAB USE ONLY)</b> SAMPLE TEMPERATURE UPON RECEIPT CHILL PROCESS STARTED PRIOR TO RECEIPT SAMPLE(S) RECEIVED ON ICE PROPER BOTTLES RECEIVED IN GOOD CONDITION BOTTLES FILLED WITH ADEQUATE VOLUME SAMPLES RECEIVED WITHIN HOLD TIME(S) (EXCLUDES TYPICAL FIELD PARAMETERS) DATE AND TIME TAKEN FROM SAMPLE BOTTLE <u>34</u> YORN YORN YORN YORN			
RELINQUISHED BY: (SIGNATURE) _____		DATE: _____ TIME: _____		RECEIVED BY: _____		DATE: _____ TIME: _____							
RELINQUISHED BY: (SIGNATURE) _____		DATE: _____ TIME: _____		RECEIVED BY: _____		DATE: _____ TIME: _____							
RELINQUISHED BY: (SIGNATURE) _____		DATE: _____ TIME: _____		RECEIVED BY: _____		DATE: _____ TIME: _____							

Thank you for using PDC Laboratories, Inc. Locations in Peoria, IL; St. Louis, MO; and Springfield, MO

**SUBCONTRACT ORDER**

**PDC Laboratories, Inc.**

**3083976**

*MS*

**SENDING LABORATORY:**

- PDC Laboratories, Inc, 2231 W Altorfer Peoria, IL 61615
- PDC Laboratories, Inc, 1805 W Sunset, Springfield, MO 65807
- PDC Laboratories, Inc, 3278 N Highway 67, Florissant, MO 63033

Project Manager: Roxann Shull

rshull@pdclab.com Phone: 314-595-7337

**RECEIVING LABORATORY:**

PDC Laboratories, Inc.  
 PO Box 9071  
 Peoria, IL 61612-9071  
 Phone :(309) 692-9688

Date Shipped 8/27/13  
 Sample Origin (State) MO  
 PO# \_\_\_\_\_  
 Total # of Containers 27

Analysis	Due	Expires	Comments
<b>Sample ID: 3083976-01    Water    Sampled:08/26/13 08:51</b>			
TKN	08/30/13 16:00	09/23/13 08:51	
TOC	08/30/13 16:00	09/23/13 08:51	
M625	08/30/13 16:00	09/02/13 08:51	
<b>Sample ID: 3083976-02    Water    Sampled:08/26/13 10:26</b>			
M625	08/30/13 16:00	09/02/13 10:26	
TKN	08/30/13 16:00	09/23/13 10:26	
TOC	08/30/13 16:00	09/23/13 10:26	
<b>Sample ID: 3083976-03    Water    Sampled:08/26/13 09:47</b>			
M625	08/30/13 16:00	09/02/13 09:47	
TKN	08/30/13 16:00	09/23/13 09:47	
TOC	08/30/13 16:00	09/23/13 09:47	

Turn-Around Time Requested (circle one): NORMAL  **RUSH**  Date Results Needed: 8/30/13

Relinquished By <u>Heather Coalhart</u> <u>8/27/13</u>		Received By <u>Melissa Sibley</u> <u>8/28/13</u>		Sample Temperature Upon Receipt <u>16c</u>
Date/Time	Date/Time	Date/Time	Date/Time	Sample(s) Received on Ice <input checked="" type="checkbox"/> Y or N
				Proper Bottles Received in Good Condition <input checked="" type="checkbox"/> Y or N
				Bottles Filled with Adequate Volume <input checked="" type="checkbox"/> Y or N
				Samples Received Within Hold Time <input checked="" type="checkbox"/> Y or N
				Date/Time Taken From Sample Bottle <u>9:00</u> Y or N

**SUBCONTRACT ORDER**

PDC Laboratories, Inc.

3083976

*MS*

Analysis	Due	Expires	Comments
<b>Sample ID: 3083976-04    Water    Sampled:08/26/13 11:54</b>			
M625	08/30/13 16:00	09/02/13 11:54	
TKN	08/30/13 16:00	09/23/13 11:54	
TOC	08/30/13 16:00	09/23/13 11:54	
<b>Sample ID: 3083976-06    Water    Sampled:08/26/13 12:31</b>			
TOC	08/30/13 16:00	09/23/13 12:31	
TKN	08/30/13 16:00	09/23/13 12:31	
M625	08/30/13 16:00	09/02/13 12:31	
<b>Sample ID: 3083976-07    Water    Sampled:08/26/13 12:31</b>			
M625	08/30/13 16:00	09/02/13 12:31	
TKN	08/30/13 16:00	09/23/13 12:31	
TOC	08/30/13 16:00	09/23/13 12:31	
<b>Sample ID: 3083976-08    Water    Sampled:08/26/13 08:14</b>			
M625	08/30/13 16:00	09/02/13 08:14	
TKN	08/30/13 16:00	09/23/13 08:14	
TOC	08/30/13 16:00	09/23/13 08:14	
<b>Sample ID: 3083976-09    Water    Sampled:08/26/13 15:04</b>			
M625	08/30/13 16:00	09/02/13 15:04	
TKN	08/30/13 16:00	09/23/13 15:04	
TOC	08/30/13 16:00	09/23/13 15:04	

Turn-Around Time Requested (circle one):    NORMAL    **RUSH**    Date Results Needed: 8/30/13

Relinquished By	Date/Time	Received By	Date/Time	Sample Temperature Upon Receipt	<u>16</u> C
<i>Heather Carlant</i>	<i>8/27/13</i>	<i>M. G. [Signature]</i>	<i>8/28/13</i>	Sample(s) Received on Ice	<input checked="" type="radio"/> Y or N
Relinquished By	Date/Time	Received By	Date/Time	Proper Bottles Received in Good Condition	<input checked="" type="radio"/> Y or N
		<i>[Signature]</i>	<i>8/28/13</i>	Bottles Filled with Adequate Volume	<input checked="" type="radio"/> Y or N
			<i>9:00</i>	Samples Received Within Hold Time	<input checked="" type="radio"/> Y or N
				Date/Time Taken From Sample Bottle	<input checked="" type="radio"/> Y or N

**SUBCONTRACT ORDER**

PDC Laboratories, Inc.

**3083976**

*MS*

Analysis	Due	Expires	Comments
<b>Sample ID: 3083976-10</b>	<b>Water</b>	<b>Sampled: 08/26/13 15:31</b>	
TOC	08/30/13 16:00	09/23/13 15:31	
M625	08/30/13 16:00	09/02/13 15:31	
TKN	08/30/13 16:00	09/23/13 15:31	

Turn-Around Time Requested (circle one): **NORMAL** RUSH Date Results Needed: 8/30/13

Relinquished By	Date/Time	Received By	Date/Time	Sample Temperature Upon Receipt	<u>16</u> C
<i>Heather Leubart</i>	<i>8/27/13</i>	<i>Melissa Sidney</i>	<i>8/28/13</i>	Sample(s) Received on Ice	<input checked="" type="radio"/> Y or N
Relinquished By	Date/Time	Received By	Date/Time	Proper Bottles Received in Good Condition	<input checked="" type="radio"/> Y or N
				Bottles Filled with Adequate Volume	<input checked="" type="radio"/> Y or N
				Samples Received Within Hold Time	<input checked="" type="radio"/> Y or N
				Date/Time Taken From Sample Bottle	<input checked="" type="radio"/> Y or N



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Bridgeton Landfill  
13570 St Charles Rock Road  
St. Louis, MO 63044  
Attn: Dan Feezor

Date Received: 08/29/13 15:47  
Report Date: 09/11/13  
Customer #: 277310

**\*Revised Laboratory Results\***

Sample No: **3084381-01**  
Sample Description: **Location 1A**

Collect Date: **08/29/13 11:15**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method	
<b><u>Anions - STL</u></b>						
Chloride	5600 mg/L		09/03/13 18:47	DWM	EPA 300.0 R2.1	04KS
Nitrate-N	< 50 mg/L	X	08/30/13 18:10	DWM	EPA 300.0 R2.1	04KS
Nitrite-N	< 50 mg/L	X	08/30/13 18:10	DWM	EPA 300.0 R2.1	04KS
Sulfate	740 mg/L		09/03/13 18:47	DWM	EPA 300.0 R2.1	04KS
<b><u>General Chemistry - PIA</u></b>						
Total Organic Carbon (TOC)	23000 mg/L		09/04/13 22:23	Igpi	5310C	KS,IL,IA,WI,AR
<b><u>General Chemistry - STL</u></b>						
Alkalinity - total as CaCO3	8400 mg/L		08/29/13 17:00	ACV	SM 2320B 18Ed*	
BOD	38000 mg/L		08/30/13 08:40	DAW	SM 5210B 18Ed	04KS
BOD - soluble	36000 mg/L		08/30/13 08:40	DAW	SM 5210B 18Ed*	
COD	62000 mg/L		08/30/13 11:00	DAW	SM 5220D 18Ed	04KS
Cyanide	0.010 mg/L		09/03/13 12:00	DWM	SM 4500-CN C E 18Ed*	
Cyanide - amenable	< 0.0050 mg/L		09/05/13 08:00	DWM	SM 4500CN CG 18Ed*	
Cyanide - weak acid dissociable	0.015 mg/L		09/05/13 11:00	DWM	ASTM 1310-86*	
Oil & Grease - total	15 mg/L		09/03/13 09:00	mep	EPA 1664A	04KS
Phenol	61 mg/L		09/03/13 07:26	DWM	EPA 420.1	04KS
Solids - total dissolved solids (TDS)	54000 mg/L		08/30/13 15:30	DAW	SM 2540C 18Ed*	
Solids - total suspended solids (TSS)	1300 mg/L		08/30/13 12:50	DAW	SM 2540D 18Ed	04KS
<b><u>Nutrients - PIA</u></b>						
Total Kjeldahl Nitrogen (TKN)	1200 mg/L		09/04/13 15:11	Igbrs	SM 4500-N B & NH3-H 18Ed MOD	IL,IA,WI,AR
<b><u>Nutrients - STL</u></b>						
Ammonia-N	880 mg/L		08/29/13 16:00	ACV	SM(18) 4500 NH3 F	04KS
Phosphorus - ortho as P	< 5.0 mg/L	H	09/04/13 11:00	ACV	SM 4500P B E 18ed*	
Phosphorus - total as P	< 5.0 mg/L		09/04/13 16:00	ACV	SM 4500P B E 18ed	04KS
<b><u>Semivolatile Organics - PIA</u></b>						
N-Nitrosodimethylamine	< 1000 ug/L		09/04/13 19:28	PSB	EPA 625	AR,IL,IA,KS,WI
Phenol	11000 ug/L		09/05/13 20:46	SNS	EPA 625	AR,IL,IA,KS,WI



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St. Louis, MO 63044  
Attn: Dan Feezor

Date Received: 08/29/13 15:47  
Report Date: 09/11/13  
Customer #: 277310

**\*Revised Laboratory Results\***

Sample No: **3084381-01**  
Sample Description: **Location 1A**

Collect Date: **08/29/13 11:15**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b>Semivolatile Organics - PIA</b>					
Bis(2-chloroethyl) ether	< 1000 ug/L		09/04/13 19:28	PSB	EPA 625 AR,IL,IA,KS, WI
2-Chlorophenol	< 1000 ug/L		09/04/13 19:28	PSB	EPA 625 AR,IL,IA,KS, WI
1,3-Dichlorobenzene	< 1000 ug/L		09/04/13 19:28	PSB	EPA 625 AR,IL,IA,WI
1,4-Dichlorobenzene	< 1000 ug/L		09/04/13 19:28	PSB	EPA 625 AR,IL,IA,WI
1,2-Dichlorobenzene	< 1000 ug/L		09/04/13 19:28	PSB	EPA 625 AR,IL,IA,WI
Bis(2-chloroisopropyl) ether	< 1000 ug/L		09/04/13 19:28	PSB	EPA 625 AR,IL,IA,KS, WI
N-Nitrosodi-n-propylamine	< 1000 ug/L		09/04/13 19:28	PSB	EPA 625 AR,IL,IA,KS, WI
Hexachloroethane	< 1000 ug/L		09/04/13 19:28	PSB	EPA 625 AR,IL,IA,KS, WI
Nitrobenzene	< 1000 ug/L		09/04/13 19:28	PSB	EPA 625 AR,IL,IA,KS, WI
Isophorone	< 1000 ug/L		09/04/13 19:28	PSB	EPA 625 AR,IL,IA,KS, WI
2-Nitrophenol	< 1000 ug/L		09/04/13 19:28	PSB	EPA 625 AR,IL,IA,KS, WI
2,4-Dimethylphenol	< 1000 ug/L		09/04/13 19:28	PSB	EPA 625 AR,IL,IA,KS, WI
Bis(2-chloroethoxy) methane	< 1000 ug/L		09/04/13 19:28	PSB	EPA 625 AR,IL,IA,KS, WI
2,4-Dichlorophenol	< 1000 ug/L		09/04/13 19:28	PSB	EPA 625 AR,IL,IA,KS, WI
1,2,4-Trichlorobenzene	< 1000 ug/L		09/04/13 19:28	PSB	EPA 625 AR,IL,IA,KS, WI
Naphthalene	< 1000 ug/L		09/04/13 19:28	PSB	EPA 625 AR,IL,IA,KS, WI
Hexachlorobutadiene	< 1000 ug/L		09/04/13 19:28	PSB	EPA 625 AR,IL,IA,KS, WI
4-Chloro-3-methylphenol	< 1000 ug/L		09/04/13 19:28	PSB	EPA 625 AR,IL,IA,KS, WI
Hexachlorocyclopentadiene	< 5000 ug/L		09/04/13 19:28	PSB	EPA 625 AR,IL,IA,KS, WI
2,4,6-Trichlorophenol	< 5000 ug/L		09/04/13 19:28	PSB	EPA 625 AR,IL,IA,KS, WI
2-Chloronaphthalene	< 1000 ug/L		09/04/13 19:28	PSB	EPA 625 AR,IL,IA,KS, WI
Dimethyl phthalate	< 1000 ug/L		09/04/13 19:28	PSB	EPA 625 AR,IL,IA,KS, WI
2,6-Dinitrotoluene	< 1000 ug/L		09/04/13 19:28	PSB	EPA 625 AR,IL,IA,KS, WI



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Bridgeton Landfill  
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St. Louis, MO 63044  
Attn: Dan Feezor

Date Received: 08/29/13 15:47  
Report Date: 09/11/13  
Customer #: 277310

**\*Revised Laboratory Results\***

Sample No: **3084381-01**  
Sample Description: **Location 1A**

Collect Date: **08/29/13 11:15**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b>Semivolatile Organics - PIA</b>					
Acenaphthylene	< 1000 ug/L		09/04/13 19:28	PSB	EPA 625 AR,IL,IA,KS, WI
Acenaphthene	< 1000 ug/L		09/04/13 19:28	PSB	EPA 625 AR,IL,IA,KS, WI
2,4-Dinitrophenol	< 5000 ug/L		09/04/13 19:28	PSB	EPA 625 AR,IL,IA,KS, WI
4-Nitrophenol	< 5000 ug/L		09/04/13 19:28	PSB	EPA 625 AR,IL,IA,KS, WI
2,4-Dinitrotoluene	< 1000 ug/L		09/04/13 19:28	PSB	EPA 625 AR,IL,IA,KS, WI
Diethyl phthalate	< 1000 ug/L		09/04/13 19:28	PSB	EPA 625 AR,IL,IA,KS, WI
Fluorene	< 1000 ug/L		09/04/13 19:28	PSB	EPA 625 AR,IL,IA,KS, WI
4-Chlorophenylphenyl ether	< 1000 ug/L		09/04/13 19:28	PSB	EPA 625 AR,IL,IA,KS, WI
4,6-Dinitro-2-methylphenol	< 5000 ug/L		09/04/13 19:28	PSB	EPA 625 AR,IL,IA,KS, WI
N-Nitrosodiphenylamine	< 1000 ug/L		09/04/13 19:28	PSB	EPA 625 AR,IL,IA,KS, WI
1,2-Diphenylhydrazine	< 1000 ug/L		09/04/13 19:28	PSB	EPA 625 AR,IL
4-Bromophenyl phenyl ether	< 1000 ug/L		09/04/13 19:28	PSB	EPA 625 AR,IL,IA,KS, WI
Hexachlorobenzene	< 1000 ug/L		09/04/13 19:28	PSB	EPA 625 AR,IL,IA,KS, WI
Pentachlorophenol	< 5000 ug/L		09/04/13 19:28	PSB	EPA 625 AR,IL,IA,KS, WI
Phenanthrene	< 1000 ug/L		09/04/13 19:28	PSB	EPA 625 AR,IL,IA,KS, WI
Anthracene	< 1000 ug/L		09/04/13 19:28	PSB	EPA 625 AR,IL,IA,KS, WI
Di-n-butyl phthalate	< 1000 ug/L		09/04/13 19:28	PSB	EPA 625 AR,IL,IA,KS, WI
Fluoranthene	< 1000 ug/L		09/04/13 19:28	PSB	EPA 625 AR,IL,IA,KS, WI
Benzydine	< 8000 ug/L		09/04/13 19:28	PSB	EPA 625 AR,IL,IA,KS, WI
Pyrene	< 1000 ug/L		09/04/13 19:28	PSB	EPA 625 AR,IL,IA,KS, WI
Butyl benzyl phthalate	< 1000 ug/L		09/04/13 19:28	PSB	EPA 625 AR,IL,IA,KS, WI
Benzo(a)anthracene	< 1000 ug/L		09/04/13 19:28	PSB	EPA 625 AR,IL,IA,KS, WI





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Bridgeton Landfill  
13570 St Charles Rock Road  
St. Louis, MO 63044  
Attn: Dan Feezor

Date Received: 08/29/13 15:47  
Report Date: 09/11/13  
Customer #: 277310

**\*Revised Laboratory Results\***

Sample No: **3084381-01**  
Sample Description: **Location 1A**

Collect Date: **08/29/13 11:15**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b>Semivolatile Organics - PIA</b>					
3,3'-Dichlorobenzidine	< 2000 ug/L		09/04/13 19:28	PSB	EPA 625 AR,IL,IA,KS, WI
Chrysene	< 1000 ug/L		09/04/13 19:28	PSB	EPA 625 AR,IL,IA,KS, WI
Bis(2-ethylhexyl) phthalate	< 1000 ug/L		09/04/13 19:28	PSB	EPA 625 AR,IL,IA,KS, WI
Di-n-octyl phthalate	< 1000 ug/L		09/04/13 19:28	PSB	EPA 625 AR,IL,IA,KS, WI
Benzo(b)fluoranthene	< 1000 ug/L		09/04/13 19:28	PSB	EPA 625 AR,IL,IA,KS, WI
2,3,7,8-TCDD Screen	< 5000 ug/L		09/04/13 19:28	PSB	EPA 625*
Benzo(k)fluoranthene	< 1000 ug/L		09/04/13 19:28	PSB	EPA 625 AR,IL,IA,KS, WI
Benzo(a)pyrene	< 1000 ug/L		09/04/13 19:28	PSB	EPA 625 AR,IL,IA,KS, WI
Indeno(1,2,3-cd)pyrene	< 1000 ug/L		09/04/13 19:28	PSB	EPA 625 AR,IL,IA,KS, WI
Dibenzo(a,h)anthracene	< 1000 ug/L		09/04/13 19:28	PSB	EPA 625 AR,IL,IA,KS, WI
Benzo(g,h,i)perylene	< 1000 ug/L		09/04/13 19:28	PSB	EPA 625 AR,IL,IA,KS, WI
<b>Soluble Metals - STL</b>					
Silicon as SiO2	92 mg/L		09/04/13 15:21	WPS	EPA 200.7 R4.4
Aluminum	2.0 mg/L		09/04/13 15:21	WPS	EPA 200.7 R4.4*
Mercury	0.011 mg/L		09/04/13 12:33	WPS	EPA 245.1 R3.0 / SW 7470A 04KS
Antimony	< 0.10 mg/L		09/04/13 15:21	WPS	EPA 200.7 R4.4 04KS
Copper	< 0.020 mg/L		09/04/13 15:21	WPS	EPA 200.7 R4.4 04KS
Silver	< 0.020 mg/L		09/04/13 15:21	WPS	EPA 200.7 R4.4 04KS
Arsenic	0.50 mg/L		09/04/13 15:21	WPS	EPA 200.7 R4.4 04KS
Barium	2.7 mg/L		09/04/13 15:21	WPS	EPA 200.7 R4.4 04KS
Beryllium	< 0.010 mg/L		09/04/13 15:21	WPS	EPA 200.7 R4.4 04KS
Boron	22 mg/L		09/04/13 15:21	WPS	EPA 200.7 R4.4*
Cadmium	0.062 mg/L		09/04/13 15:21	WPS	EPA 200.7 R4.4 04KS
Calcium	4000 mg/L		09/04/13 14:19	WPS	EPA 200.7 R4.4 04KS
Chromium	0.22 mg/L		09/04/13 15:21	WPS	EPA 200.7 R4.4 04KS
Cobalt	0.061 mg/L		09/04/13 15:21	WPS	EPA 200.7 R4.4 04KS
Iron	630 mg/L	B2	09/04/13 14:19	WPS	EPA 200.7 R4.4 04KS



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Date Received: 08/29/13 15:47  
Report Date: 09/11/13  
Customer #: 277310

**\*Revised Laboratory Results\***

Sample No: **3084381-01**  
Sample Description: **Location 1A**

Collect Date: **08/29/13 11:15**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b><u>Soluble Metals - STL</u></b>					
Lead	< 0.10 mg/L		09/04/13 15:21	WPS	EPA 200.7 R4.4 04KS
Magnesium	400 mg/L		09/04/13 14:19	WPS	EPA 200.7 R4.4 04KS
Manganese	46 mg/L		09/04/13 15:21	WPS	EPA 200.7 R4.4 04KS
Molybdenum	< 0.12 mg/L		09/04/13 15:21	WPS	EPA 200.7 R4.4 04KS
Nickel	0.18 mg/L		09/04/13 15:21	WPS	EPA 200.7 R4.4 04KS
Potassium	710 mg/L		09/04/13 14:19	WPS	EPA 200.7 R4.4*
Selenium	< 0.10 mg/L		09/04/13 15:21	WPS	EPA 200.7 R4.4 04KS
Sodium	3600 mg/L		09/04/13 14:19	WPS	EPA 200.7 R4.4*
Thallium	< 0.20 mg/L		09/04/13 15:21	WPS	EPA 200.7 R4.4 04KS
Vanadium	< 0.020 mg/L		09/04/13 15:21	WPS	EPA 200.7 R4.4 04KS
Zinc	12 mg/L		09/04/13 15:21	WPS	EPA 200.7 R4.4 04KS
Silicon	43 mg/L		09/04/13 15:21	WPS	EPA 200.7 R4.4*
<b><u>Total Metals - STL</u></b>					
Silicon as SiO2	140 mg/L		09/04/13 15:25	WPS	EPA 200.7 R4.4
Aluminum	7.0 mg/L	B2	09/04/13 15:25	WPS	EPA 200.7 R4.4*
Mercury	0.011 mg/L		09/04/13 12:33	WPS	EPA 245.1 R3.0 / SW 7470A 04KS
Antimony	0.14 mg/L		09/04/13 15:25	WPS	EPA 200.7 R4.4 04KS
Silicon	64 mg/L		09/04/13 15:25	WPS	EPA 200.7 R4.4*
Arsenic	0.63 mg/L		09/04/13 15:25	WPS	EPA 200.7 R4.4 04KS
Barium	3.5 mg/L		09/04/13 15:25	WPS	EPA 200.7 R4.4 04KS
Beryllium	< 0.010 mg/L		09/04/13 15:25	WPS	EPA 200.7 R4.4 04KS
Hardness	13000 mg/L		09/04/13 14:23	WPS	SM 2340B
Boron	27 mg/L		09/04/13 15:25	WPS	EPA 200.7 R4.4*
Cadmium	0.091 mg/L		09/04/13 15:25	WPS	EPA 200.7 R4.4 04KS
Calcium	4600 mg/L		09/04/13 14:23	WPS	EPA 200.7 R4.4 04KS
Chromium	0.30 mg/L		09/04/13 15:25	WPS	EPA 200.7 R4.4 04KS
Cobalt	0.092 mg/L		09/04/13 15:25	WPS	EPA 200.7 R4.4 04KS
Copper	0.060 mg/L		09/04/13 15:25	WPS	EPA 200.7 R4.4 04KS
Iron	900 mg/L	B2	09/04/13 14:23	WPS	EPA 200.7 R4.4 04KS
Lead	0.12 mg/L		09/04/13 15:25	WPS	EPA 200.7 R4.4 04KS
Magnesium	450 mg/L		09/04/13 14:23	WPS	EPA 200.7 R4.4 04KS
Manganese	54 mg/L		09/04/13 15:25	WPS	EPA 200.7 R4.4 04KS
Molybdenum	< 0.12 mg/L		09/04/13 15:25	WPS	EPA 200.7 R4.4 04KS



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Date Received: 08/29/13 15:47  
Report Date: 09/11/13  
Customer #: 277310

**\*Revised Laboratory Results\***

Sample No: **3084381-01**  
Sample Description: **Location 1A**

Collect Date: **08/29/13 11:15**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b>Total Metals - STL</b>					
Nickel	0.19 mg/L		09/04/13 15:25	WPS	EPA 200.7 R4.4 04KS
Potassium	820 mg/L		09/04/13 14:23	WPS	EPA 200.7 R4.4*
Selenium	< 0.10 mg/L		09/04/13 15:25	WPS	EPA 200.7 R4.4 04KS
Silver	< 0.020 mg/L		09/04/13 15:25	WPS	EPA 200.7 R4.4 04KS
Sodium	4000 mg/L		09/04/13 14:23	WPS	EPA 200.7 R4.4*
Thallium	< 0.20 mg/L		09/04/13 15:25	WPS	EPA 200.7 R4.4 04KS
Vanadium	0.034 mg/L		09/04/13 15:25	WPS	EPA 200.7 R4.4 04KS
Zinc	15 mg/L		09/04/13 15:25	WPS	EPA 200.7 R4.4 04KS

Sample No: **3084381-02**  
Sample Description: **Location 1D**

Collect Date: **08/29/13 12:04**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b>Anions - STL</b>					
Chloride	4900 mg/L		09/03/13 19:04	DWM	EPA 300.0 R2.1 04KS
Nitrate-N	< 50 mg/L	X	08/30/13 18:28	DWM	EPA 300.0 R2.1 04KS
Nitrite-N	< 50 mg/L	X	08/30/13 18:28	DWM	EPA 300.0 R2.1 04KS
Sulfate	600 mg/L		09/03/13 19:04	DWM	EPA 300.0 R2.1 04KS
<b>General Chemistry - PIA</b>					
Total Organic Carbon (TOC)	20000 mg/L		09/04/13 22:30	Igpi	5310C KS,IL,IA,WI,AR
<b>General Chemistry - STL</b>					
Alkalinity - total as CaCO3	9000 mg/L		08/29/13 17:00	ACV	SM 2320B 18Ed*
BOD	35000 mg/L		08/30/13 08:40	DAW	SM 5210B 18Ed 04KS
BOD - soluble	32000 mg/L		08/30/13 08:40	DAW	SM 5210B 18Ed*
COD	57000 mg/L		08/30/13 11:00	DAW	SM 5220D 18Ed 04KS
Cyanide	0.011 mg/L		09/03/13 12:00	DWM	SM 4500-CN C E 18Ed*
Cyanide - amenable	< 0.0050 mg/L		09/05/13 08:00	DWM	SM 4500CN CG 18Ed*
Cyanide - weak acid dissociable	0.015 mg/L		09/05/13 11:00	DWM	ASTM 1310-86*
Oil & Grease - total	< 5.1 mg/L		09/03/13 09:00	mep	EPA 1664A 04KS
Phenol	60 mg/L		09/03/13 07:26	DWM	EPA 420.1 04KS



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**\*Revised Laboratory Results\***

Sample No: **3084381-02**  
Sample Description: **Location 1D**

Collect Date: **08/29/13 12:04**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b><u>General Chemistry - STL</u></b>					
Solids - total dissolved solids (TDS)	52000 mg/L		08/30/13 15:30	DAW	SM 2540C 18Ed*
Solids - total suspended solids (TSS)	99 mg/L		08/30/13 12:50	DAW	SM 2540D 18Ed 04KS
<b><u>Nutrients - PIA</u></b>					
Total Kjeldahl Nitrogen (TKN)	1100 mg/L		09/04/13 15:15	Igbrs	SM 4500-N B & NH3-H 18Ed MOD IL,IA,WI,AR
<b><u>Nutrients - STL</u></b>					
Ammonia-N	760 mg/L		08/29/13 16:00	ACV	SM(18) 4500 NH3 F 04KS
Phosphorus - ortho as P	< 5.0 mg/L	H	09/04/13 11:00	ACV	SM 4500P B E 18ed* 04KS
Phosphorus - total as P	< 5.0 mg/L		09/04/13 16:00	ACV	SM 4500P B E 18ed 04KS
<b><u>Semivolatile Organics - PIA</u></b>					
N-Nitrosodimethylamine	< 1000 ug/L		09/04/13 19:57	PSB	EPA 625 AR,IL,IA,KS, WI
Phenol	11000 ug/L		09/05/13 21:16	SNS	EPA 625 AR,IL,IA,KS, WI
Bis(2-chloroethyl) ether	< 1000 ug/L		09/04/13 19:57	PSB	EPA 625 AR,IL,IA,KS, WI
2-Chlorophenol	< 1000 ug/L		09/04/13 19:57	PSB	EPA 625 AR,IL,IA,KS, WI
1,3-Dichlorobenzene	< 1000 ug/L		09/04/13 19:57	PSB	EPA 625 AR,IL,IA,WI
1,4-Dichlorobenzene	< 1000 ug/L		09/04/13 19:57	PSB	EPA 625 AR,IL,IA,WI
1,2-Dichlorobenzene	< 1000 ug/L		09/04/13 19:57	PSB	EPA 625 AR,IL,IA,WI
Bis(2-chloroisopropyl) ether	< 1000 ug/L		09/04/13 19:57	PSB	EPA 625 AR,IL,IA,KS, WI
N-Nitrosodi-n-propylamine	< 1000 ug/L		09/04/13 19:57	PSB	EPA 625 AR,IL,IA,KS, WI
Hexachloroethane	< 1000 ug/L		09/04/13 19:57	PSB	EPA 625 AR,IL,IA,KS, WI
Nitrobenzene	< 1000 ug/L		09/04/13 19:57	PSB	EPA 625 AR,IL,IA,KS, WI
Isophorone	< 1000 ug/L		09/04/13 19:57	PSB	EPA 625 AR,IL,IA,KS, WI
2-Nitrophenol	< 1000 ug/L		09/04/13 19:57	PSB	EPA 625 AR,IL,IA,KS, WI
2,4-Dimethylphenol	< 1000 ug/L		09/04/13 19:57	PSB	EPA 625 AR,IL,IA,KS, WI
Bis(2-chloroethoxy) methane	< 1000 ug/L		09/04/13 19:57	PSB	EPA 625 AR,IL,IA,KS, WI

3084381



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**\*Revised Laboratory Results\***

Sample No: **3084381-02**  
Sample Description: **Location 1D**

Collect Date: **08/29/13 12:04**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method	
<b>Semivolatile Organics - PIA</b>						
2,4-Dichlorophenol	< 1000 ug/L		09/04/13 19:57	PSB	EPA 625	AR,IL,IA,KS, WI
1,2,4-Trichlorobenzene	< 1000 ug/L		09/04/13 19:57	PSB	EPA 625	AR,IL,IA,KS, WI
Naphthalene	< 1000 ug/L		09/04/13 19:57	PSB	EPA 625	AR,IL,IA,KS, WI
Hexachlorobutadiene	< 1000 ug/L		09/04/13 19:57	PSB	EPA 625	AR,IL,IA,KS, WI
4-Chloro-3-methylphenol	< 1000 ug/L		09/04/13 19:57	PSB	EPA 625	AR,IL,IA,KS, WI
Hexachlorocyclopentadiene	< 5000 ug/L		09/04/13 19:57	PSB	EPA 625	AR,IL,IA,KS, WI
2,4,6-Trichlorophenol	< 5000 ug/L		09/04/13 19:57	PSB	EPA 625	AR,IL,IA,KS, WI
2-Chloronaphthalene	< 1000 ug/L		09/04/13 19:57	PSB	EPA 625	AR,IL,IA,KS, WI
Dimethyl phthalate	< 1000 ug/L		09/04/13 19:57	PSB	EPA 625	AR,IL,IA,KS, WI
2,6-Dinitrotoluene	< 1000 ug/L		09/04/13 19:57	PSB	EPA 625	AR,IL,IA,KS, WI
Acenaphthylene	< 1000 ug/L		09/04/13 19:57	PSB	EPA 625	AR,IL,IA,KS, WI
Acenaphthene	< 1000 ug/L		09/04/13 19:57	PSB	EPA 625	AR,IL,IA,KS, WI
2,4-Dinitrophenol	< 5000 ug/L		09/04/13 19:57	PSB	EPA 625	AR,IL,IA,KS, WI
4-Nitrophenol	< 5000 ug/L		09/04/13 19:57	PSB	EPA 625	AR,IL,IA,KS, WI
2,4-Dinitrotoluene	< 1000 ug/L		09/04/13 19:57	PSB	EPA 625	AR,IL,IA,KS, WI
Diethyl phthalate	< 1000 ug/L		09/04/13 19:57	PSB	EPA 625	AR,IL,IA,KS, WI
Fluorene	< 1000 ug/L		09/04/13 19:57	PSB	EPA 625	AR,IL,IA,KS, WI
4-Chlorophenylphenyl ether	< 1000 ug/L		09/04/13 19:57	PSB	EPA 625	AR,IL,IA,KS, WI
4,6-Dinitro-2-methylphenol	< 5000 ug/L		09/04/13 19:57	PSB	EPA 625	AR,IL,IA,KS, WI
N-Nitrosodiphenylamine	< 1000 ug/L		09/04/13 19:57	PSB	EPA 625	AR,IL,IA,KS, WI
1,2-Diphenylhydrazine	< 1000 ug/L		09/04/13 19:57	PSB	EPA 625	AR,IL
4-Bromophenyl phenyl ether	< 1000 ug/L		09/04/13 19:57	PSB	EPA 625	AR,IL,IA,KS, WI



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**\*Revised Laboratory Results\***

Sample No: **3084381-02**  
Sample Description: **Location 1D**

Collect Date: **08/29/13 12:04**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b><u>Semivolatile Organics - PIA</u></b>					
Hexachlorobenzene	< 1000 ug/L		09/04/13 19:57	PSB	EPA 625 AR,IL,IA,KS, WI
Pentachlorophenol	< 5000 ug/L		09/04/13 19:57	PSB	EPA 625 AR,IL,IA,KS, WI
Phenanthrene	< 1000 ug/L		09/04/13 19:57	PSB	EPA 625 AR,IL,IA,KS, WI
Anthracene	< 1000 ug/L		09/04/13 19:57	PSB	EPA 625 AR,IL,IA,KS, WI
Di-n-butyl phthalate	< 1000 ug/L		09/04/13 19:57	PSB	EPA 625 AR,IL,IA,KS, WI
Fluoranthene	< 1000 ug/L		09/04/13 19:57	PSB	EPA 625 AR,IL,IA,KS, WI
Benzidine	< 8000 ug/L		09/04/13 19:57	PSB	EPA 625 AR,IL,IA,KS, WI
Pyrene	< 1000 ug/L		09/04/13 19:57	PSB	EPA 625 AR,IL,IA,KS, WI
Butyl benzyl phthalate	< 1000 ug/L		09/04/13 19:57	PSB	EPA 625 AR,IL,IA,KS, WI
Benzo(a)anthracene	< 1000 ug/L		09/04/13 19:57	PSB	EPA 625 AR,IL,IA,KS, WI
3,3'-Dichlorobenzidine	< 2000 ug/L		09/04/13 19:57	PSB	EPA 625 AR,IL,IA,KS, WI
Chrysene	< 1000 ug/L		09/04/13 19:57	PSB	EPA 625 AR,IL,IA,KS, WI
Bis(2-ethylhexyl) phthalate	< 1000 ug/L		09/04/13 19:57	PSB	EPA 625 AR,IL,IA,KS, WI
Di-n-octyl phthalate	< 1000 ug/L		09/04/13 19:57	PSB	EPA 625 AR,IL,IA,KS, WI
Benzo(b)fluoranthene	< 1000 ug/L		09/04/13 19:57	PSB	EPA 625 AR,IL,IA,KS, WI
2,3,7,8-TCDD Screen	< 5000 ug/L		09/04/13 19:57	PSB	EPA 625*
Benzo(k)fluoranthene	< 1000 ug/L		09/04/13 19:57	PSB	EPA 625 AR,IL,IA,KS, WI
Benzo(a)pyrene	< 1000 ug/L		09/04/13 19:57	PSB	EPA 625 AR,IL,IA,KS, WI
Indeno(1,2,3-cd)pyrene	< 1000 ug/L		09/04/13 19:57	PSB	EPA 625 AR,IL,IA,KS, WI
Dibenzo(a,h)anthracene	< 1000 ug/L		09/04/13 19:57	PSB	EPA 625 AR,IL,IA,KS, WI
Benzo(g,h,i)perylene	< 1000 ug/L		09/04/13 19:57	PSB	EPA 625 AR,IL,IA,KS, WI
<b><u>Soluble Metals - STL</u></b>					
Silicon as SiO2	68 mg/L		09/04/13 15:29	WPS	EPA 200.7 R4.4



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**\*Revised Laboratory Results\***

Sample No: **3084381-02**  
Sample Description: **Location 1D**

Collect Date: **08/29/13 12:04**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b><u>Soluble Metals - STL</u></b>					
Aluminum	0.20 mg/L		09/04/13 15:29	WPS	EPA 200.7 R4.4*
Mercury	< 0.0020 mg/L		09/04/13 12:33	WPS	EPA 245.1 R3.0 / SW 7470A 04KS
Antimony	0.13 mg/L		09/04/13 15:29	WPS	EPA 200.7 R4.4 04KS
Copper	< 0.020 mg/L		09/04/13 15:29	WPS	EPA 200.7 R4.4 04KS
Silver	< 0.020 mg/L		09/04/13 15:29	WPS	EPA 200.7 R4.4 04KS
Arsenic	0.49 mg/L		09/04/13 15:29	WPS	EPA 200.7 R4.4 04KS
Barium	2.6 mg/L		09/04/13 15:29	WPS	EPA 200.7 R4.4 04KS
Beryllium	< 0.010 mg/L		09/04/13 15:29	WPS	EPA 200.7 R4.4 04KS
Boron	20 mg/L		09/04/13 15:29	WPS	EPA 200.7 R4.4*
Cadmium	< 0.020 mg/L		09/04/13 15:29	WPS	EPA 200.7 R4.4 04KS
Calcium	3700 mg/L		09/04/13 14:27	WPS	EPA 200.7 R4.4 04KS
Chromium	0.14 mg/L		09/04/13 15:29	WPS	EPA 200.7 R4.4 04KS
Cobalt	0.038 mg/L		09/04/13 15:29	WPS	EPA 200.7 R4.4 04KS
Iron	25 mg/L	B2	09/04/13 15:29	WPS	EPA 200.7 R4.4 04KS
Lead	< 0.10 mg/L		09/04/13 15:29	WPS	EPA 200.7 R4.4 04KS
Magnesium	310 mg/L		09/04/13 14:27	WPS	EPA 200.7 R4.4 04KS
Manganese	6.5 mg/L		09/04/13 15:29	WPS	EPA 200.7 R4.4 04KS
Molybdenum	< 0.12 mg/L		09/04/13 15:29	WPS	EPA 200.7 R4.4 04KS
Nickel	0.16 mg/L		09/04/13 15:29	WPS	EPA 200.7 R4.4 04KS
Potassium	740 mg/L		09/04/13 14:27	WPS	EPA 200.7 R4.4*
Selenium	< 0.10 mg/L		09/04/13 15:29	WPS	EPA 200.7 R4.4 04KS
Sodium	5100 mg/L		09/04/13 14:27	WPS	EPA 200.7 R4.4*
Thallium	< 0.20 mg/L		09/04/13 15:29	WPS	EPA 200.7 R4.4 04KS
Vanadium	< 0.020 mg/L		09/04/13 15:29	WPS	EPA 200.7 R4.4 04KS
Zinc	1.4 mg/L		09/04/13 15:29	WPS	EPA 200.7 R4.4 04KS
Silicon	32 mg/L		09/04/13 15:29	WPS	EPA 200.7 R4.4*
<b><u>Total Metals - STL</u></b>					
Silicon as SiO2	68 mg/L		09/04/13 15:33	WPS	EPA 200.7 R4.4
Aluminum	0.36 mg/L	B2	09/04/13 15:33	WPS	EPA 200.7 R4.4*
Mercury	< 0.0020 mg/L		09/04/13 12:33	WPS	EPA 245.1 R3.0 / SW 7470A 04KS
Antimony	< 0.10 mg/L		09/04/13 15:33	WPS	EPA 200.7 R4.4 04KS
Silicon	32 mg/L		09/04/13 15:33	WPS	EPA 200.7 R4.4*



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Bridgeton Landfill  
13570 St Charles Rock Road  
St. Louis, MO 63044  
Attn: Dan Feezor

Date Received: 08/29/13 15:47  
Report Date: 09/11/13  
Customer #: 277310

**\*Revised Laboratory Results\***

Sample No: **3084381-02**  
Sample Description: **Location 1D**

Collect Date: **08/29/13 12:04**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b><u>Total Metals - STL</u></b>					
Arsenic	0.56 mg/L		09/04/13 15:33	WPS	EPA 200.7 R4.4 04KS
Barium	2.6 mg/L		09/04/13 15:33	WPS	EPA 200.7 R4.4 04KS
Beryllium	< 0.010 mg/L		09/04/13 15:33	WPS	EPA 200.7 R4.4 04KS
Hardness	11000 mg/L		09/04/13 14:31	WPS	SM 2340B
Boron	21 mg/L		09/04/13 15:33	WPS	EPA 200.7 R4.4*
Cadmium	< 0.020 mg/L		09/04/13 15:33	WPS	EPA 200.7 R4.4 04KS
Calcium	3800 mg/L		09/04/13 14:31	WPS	EPA 200.7 R4.4 04KS
Chromium	0.14 mg/L		09/04/13 15:33	WPS	EPA 200.7 R4.4 04KS
Cobalt	0.029 mg/L		09/04/13 15:33	WPS	EPA 200.7 R4.4 04KS
Copper	< 0.020 mg/L		09/04/13 15:33	WPS	EPA 200.7 R4.4 04KS
Iron	26 mg/L	B2	09/04/13 15:33	WPS	EPA 200.7 R4.4 04KS
Lead	< 0.10 mg/L		09/04/13 15:33	WPS	EPA 200.7 R4.4 04KS
Magnesium	320 mg/L		09/04/13 14:31	WPS	EPA 200.7 R4.4 04KS
Manganese	6.6 mg/L		09/04/13 15:33	WPS	EPA 200.7 R4.4 04KS
Molybdenum	< 0.12 mg/L		09/04/13 15:33	WPS	EPA 200.7 R4.4 04KS
Nickel	0.14 mg/L		09/04/13 15:33	WPS	EPA 200.7 R4.4 04KS
Potassium	760 mg/L		09/04/13 14:31	WPS	EPA 200.7 R4.4*
Selenium	< 0.10 mg/L		09/04/13 15:33	WPS	EPA 200.7 R4.4 04KS
Silver	< 0.020 mg/L		09/04/13 15:33	WPS	EPA 200.7 R4.4 04KS
Sodium	5300 mg/L		09/04/13 14:31	WPS	EPA 200.7 R4.4*
Thallium	< 0.20 mg/L		09/04/13 15:33	WPS	EPA 200.7 R4.4 04KS
Vanadium	< 0.020 mg/L		09/04/13 15:33	WPS	EPA 200.7 R4.4 04KS
Zinc	1.5 mg/L		09/04/13 15:33	WPS	EPA 200.7 R4.4 04KS

Sample No: **3084381-03**  
Sample Description: **Location 1E**

Collect Date: **08/29/13 11:37**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b><u>Anions - STL</u></b>					
Chloride	5300 mg/L		09/03/13 19:22	DWM	EPA 300.0 R2.1 04KS
Nitrate-N	< 50 mg/L	X	08/30/13 18:45	DWM	EPA 300.0 R2.1 04KS
Nitrite-N	< 50 mg/L	X	08/30/13 18:45	DWM	EPA 300.0 R2.1 04KS

3084381





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Customer #: 277310

**\*Revised Laboratory Results\***

Sample No: **3084381-03**  
Sample Description: **Location 1E**

Collect Date: **08/29/13 11:37**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method	
<b><u>Anions - STL</u></b>						
Sulfate	750 mg/L		09/03/13 19:22	DWM	EPA 300.0 R2.1	04KS
<b><u>General Chemistry - PIA</u></b>						
Total Organic Carbon (TOC)	19000 mg/L		09/04/13 22:37	Igpi	5310C	KS,IL,IA,WI,AR
<b><u>General Chemistry - STL</u></b>						
Alkalinity - total as CaCO3	14000 mg/L		08/29/13 17:00	ACV	SM 2320B 18Ed*	
BOD	40000 mg/L		08/30/13 08:40	DAW	SM 5210B 18Ed	04KS
BOD - soluble	38000 mg/L		08/30/13 08:40	DAW	SM 5210B 18Ed*	
COD	61000 mg/L		08/30/13 11:00	DAW	SM 5220D 18Ed	04KS
Cyanide	0.016 mg/L		09/03/13 12:00	DWM	SM 4500-CN C E 18Ed*	
Cyanide - amenable	< 0.0050 mg/L		09/05/13 08:00	DWM	SM 4500CN CG 18Ed*	
Cyanide - weak acid dissociable	0.012 mg/L		09/05/13 11:00	DWM	ASTM 1310-86*	
Oil & Grease - total	17 mg/L		09/03/13 09:00	mep	EPA 1664A	04KS
Phenol	59 mg/L		09/03/13 07:26	DWM	EPA 420.1	04KS
Solids - total dissolved solids (TDS)	55000 mg/L		08/30/13 15:30	DAW	SM 2540C 18Ed*	
Solids - total suspended solids (TSS)	9900 mg/L		08/30/13 12:50	DAW	SM 2540D 18Ed	04KS
<b><u>Nutrients - PIA</u></b>						
Total Kjeldahl Nitrogen (TKN)	1200 mg/L		09/04/13 15:16	Igbrs	SM 4500-N B & NH3-H 18Ed MOD	IL,IA,WI,AR
<b><u>Nutrients - STL</u></b>						
Ammonia-N	770 mg/L		08/29/13 16:00	ACV	SM(18) 4500 NH3 F	04KS
Phosphorus - ortho as P	< 5.0 mg/L	H	09/04/13 11:00	ACV	SM 4500P B E 18ed*	
Phosphorus - total as P	< 5.0 mg/L		09/04/13 16:00	ACV	SM 4500P B E 18ed	04KS
<b><u>Semivolatile Organics - PIA</u></b>						
N-Nitrosodimethylamine	< 1000 ug/L		09/04/13 20:27	PSB	EPA 625	AR,IL,IA,KS,WI
Phenol	9000 ug/L		09/05/13 21:45	SNS	EPA 625	AR,IL,IA,KS,WI
Bis(2-chloroethyl) ether	< 1000 ug/L		09/04/13 20:27	PSB	EPA 625	AR,IL,IA,KS,WI
2-Chlorophenol	< 1000 ug/L		09/04/13 20:27	PSB	EPA 625	AR,IL,IA,KS,WI

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**\*Revised Laboratory Results\***

Sample No: **3084381-03**  
Sample Description: **Location 1E**

Collect Date: **08/29/13 11:37**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b>Semivolatile Organics - PIA</b>					
1,3-Dichlorobenzene	< 1000 ug/L		09/04/13 20:27	PSB	EPA 625 AR,IL,IA,WI
1,4-Dichlorobenzene	< 1000 ug/L		09/04/13 20:27	PSB	EPA 625 AR,IL,IA,WI
1,2-Dichlorobenzene	< 1000 ug/L		09/04/13 20:27	PSB	EPA 625 AR,IL,IA,WI
Bis(2-chloroisopropyl) ether	< 1000 ug/L		09/04/13 20:27	PSB	EPA 625 AR,IL,IA,KS,WI
N-Nitrosodi-n-propylamine	< 1000 ug/L		09/04/13 20:27	PSB	EPA 625 AR,IL,IA,KS,WI
Hexachloroethane	< 1000 ug/L		09/04/13 20:27	PSB	EPA 625 AR,IL,IA,KS,WI
Nitrobenzene	< 1000 ug/L		09/04/13 20:27	PSB	EPA 625 AR,IL,IA,KS,WI
Isophorone	< 1000 ug/L		09/04/13 20:27	PSB	EPA 625 AR,IL,IA,KS,WI
2-Nitrophenol	< 1000 ug/L		09/04/13 20:27	PSB	EPA 625 AR,IL,IA,KS,WI
2,4-Dimethylphenol	< 1000 ug/L		09/04/13 20:27	PSB	EPA 625 AR,IL,IA,KS,WI
Bis(2-chloroethoxy) methane	< 1000 ug/L		09/04/13 20:27	PSB	EPA 625 AR,IL,IA,KS,WI
2,4-Dichlorophenol	< 1000 ug/L		09/04/13 20:27	PSB	EPA 625 AR,IL,IA,KS,WI
1,2,4-Trichlorobenzene	< 1000 ug/L		09/04/13 20:27	PSB	EPA 625 AR,IL,IA,KS,WI
Naphthalene	< 1000 ug/L		09/04/13 20:27	PSB	EPA 625 AR,IL,IA,KS,WI
Hexachlorobutadiene	< 1000 ug/L		09/04/13 20:27	PSB	EPA 625 AR,IL,IA,KS,WI
4-Chloro-3-methylphenol	< 1000 ug/L		09/04/13 20:27	PSB	EPA 625 AR,IL,IA,KS,WI
Hexachlorocyclopentadiene	< 5000 ug/L		09/04/13 20:27	PSB	EPA 625 AR,IL,IA,KS,WI
2,4,6-Trichlorophenol	< 5000 ug/L		09/04/13 20:27	PSB	EPA 625 AR,IL,IA,KS,WI
2-Chloronaphthalene	< 1000 ug/L		09/04/13 20:27	PSB	EPA 625 AR,IL,IA,KS,WI
Dimethyl phthalate	< 1000 ug/L		09/04/13 20:27	PSB	EPA 625 AR,IL,IA,KS,WI
2,6-Dinitrotoluene	< 1000 ug/L		09/04/13 20:27	PSB	EPA 625 AR,IL,IA,KS,WI
Acenaphthylene	< 1000 ug/L		09/04/13 20:27	PSB	EPA 625 AR,IL,IA,KS,WI
Acenaphthene	< 1000 ug/L		09/04/13 20:27	PSB	EPA 625 AR,IL,IA,KS,WI

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**\*Revised Laboratory Results\***

Sample No: **3084381-03**  
Sample Description: **Location 1E**

Collect Date: **08/29/13 11:37**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b>Semivolatile Organics - PIA</b>					
2,4-Dinitrophenol	< 5000 ug/L		09/04/13 20:27	PSB	EPA 625 AR,IL,IA,KS, WI
4-Nitrophenol	< 5000 ug/L		09/04/13 20:27	PSB	EPA 625 AR,IL,IA,KS, WI
2,4-Dinitrotoluene	< 1000 ug/L		09/04/13 20:27	PSB	EPA 625 AR,IL,IA,KS, WI
Diethyl phthalate	< 1000 ug/L		09/04/13 20:27	PSB	EPA 625 AR,IL,IA,KS, WI
Fluorene	< 1000 ug/L		09/04/13 20:27	PSB	EPA 625 AR,IL,IA,KS, WI
4-Chlorophenylphenyl ether	< 1000 ug/L		09/04/13 20:27	PSB	EPA 625 AR,IL,IA,KS, WI
4,6-Dinitro-2-methylphenol	< 5000 ug/L		09/04/13 20:27	PSB	EPA 625 AR,IL,IA,KS, WI
N-Nitrosodiphenylamine	< 1000 ug/L		09/04/13 20:27	PSB	EPA 625 AR,IL,IA,KS, WI
1,2-Diphenylhydrazine	< 1000 ug/L		09/04/13 20:27	PSB	EPA 625 AR,IL
4-Bromophenyl phenyl ether	< 1000 ug/L		09/04/13 20:27	PSB	EPA 625 AR,IL,IA,KS, WI
Hexachlorobenzene	< 1000 ug/L		09/04/13 20:27	PSB	EPA 625 AR,IL,IA,KS, WI
Pentachlorophenol	< 5000 ug/L		09/04/13 20:27	PSB	EPA 625 AR,IL,IA,KS, WI
Phenanthrene	< 1000 ug/L		09/04/13 20:27	PSB	EPA 625 AR,IL,IA,KS, WI
Anthracene	< 1000 ug/L		09/04/13 20:27	PSB	EPA 625 AR,IL,IA,KS, WI
Di-n-butyl phthalate	< 1000 ug/L		09/04/13 20:27	PSB	EPA 625 AR,IL,IA,KS, WI
Fluoranthene	< 1000 ug/L		09/04/13 20:27	PSB	EPA 625 AR,IL,IA,KS, WI
Benzidine	< 8000 ug/L		09/04/13 20:27	PSB	EPA 625 AR,IL,IA,KS, WI
Pyrene	< 1000 ug/L		09/04/13 20:27	PSB	EPA 625 AR,IL,IA,KS, WI
Butyl benzyl phthalate	< 1000 ug/L		09/04/13 20:27	PSB	EPA 625 AR,IL,IA,KS, WI
Benzo(a)anthracene	< 1000 ug/L		09/04/13 20:27	PSB	EPA 625 AR,IL,IA,KS, WI
3,3'-Dichlorobenzidine	< 2000 ug/L		09/04/13 20:27	PSB	EPA 625 AR,IL,IA,KS, WI
Chrysene	< 1000 ug/L		09/04/13 20:27	PSB	EPA 625 AR,IL,IA,KS, WI



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**\*Revised Laboratory Results\***

Sample No: **3084381-03**  
Sample Description: **Location 1E**

Collect Date: **08/29/13 11:37**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b>Semivolatile Organics - PIA</b>					
Bis(2-ethylhexyl) phthalate	< 1000 ug/L		09/04/13 20:27	PSB	EPA 625 AR,IL,IA,KS, WI
Di-n-octyl phthalate	< 1000 ug/L		09/04/13 20:27	PSB	EPA 625 AR,IL,IA,KS, WI
Benzo(b)fluoranthene	< 1000 ug/L		09/04/13 20:27	PSB	EPA 625 AR,IL,IA,KS, WI
2,3,7,8-TCDD Screen	< 5000 ug/L		09/04/13 20:27	PSB	EPA 625*
Benzo(k)fluoranthene	< 1000 ug/L		09/04/13 20:27	PSB	EPA 625 AR,IL,IA,KS, WI
Benzo(a)pyrene	< 1000 ug/L		09/04/13 20:27	PSB	EPA 625 AR,IL,IA,KS, WI
Indeno(1,2,3-cd)pyrene	< 1000 ug/L		09/04/13 20:27	PSB	EPA 625 AR,IL,IA,KS, WI
Dibenzo(a,h)anthracene	< 1000 ug/L		09/04/13 20:27	PSB	EPA 625 AR,IL,IA,KS, WI
Benzo(g,h,i)perylene	< 1000 ug/L		09/04/13 20:27	PSB	EPA 625 AR,IL,IA,KS, WI
<b>Soluble Metals - STL</b>					
Silicon as SiO2	63 mg/L		09/04/13 15:49	WPS	EPA 200.7 R4.4
Aluminum	< 0.15 mg/L		09/04/13 15:49	WPS	EPA 200.7 R4.4*
Mercury	< 0.0020 mg/L		09/04/13 12:33	WPS	EPA 245.1 R3.0 / SW 7470A 04KS
Antimony	0.11 mg/L		09/04/13 15:49	WPS	EPA 200.7 R4.4 04KS
Copper	< 0.020 mg/L		09/04/13 15:49	WPS	EPA 200.7 R4.4 04KS
Silver	< 0.020 mg/L		09/04/13 15:49	WPS	EPA 200.7 R4.4 04KS
Arsenic	0.51 mg/L		09/04/13 15:49	WPS	EPA 200.7 R4.4 04KS
Barium	2.1 mg/L		09/04/13 15:49	WPS	EPA 200.7 R4.4 04KS
Beryllium	< 0.010 mg/L		09/04/13 15:49	WPS	EPA 200.7 R4.4 04KS
Boron	18 mg/L		09/04/13 15:49	WPS	EPA 200.7 R4.4*
Cadmium	< 0.020 mg/L		09/04/13 15:49	WPS	EPA 200.7 R4.4 04KS
Calcium	3600 mg/L		09/04/13 14:36	WPS	EPA 200.7 R4.4 04KS
Chromium	0.11 mg/L		09/04/13 15:49	WPS	EPA 200.7 R4.4 04KS
Cobalt	0.034 mg/L		09/04/13 15:49	WPS	EPA 200.7 R4.4 04KS
Iron	11 mg/L	B2	09/04/13 15:49	WPS	EPA 200.7 R4.4 04KS
Lead	< 0.10 mg/L		09/04/13 15:49	WPS	EPA 200.7 R4.4 04KS
Magnesium	180 mg/L		09/04/13 14:36	WPS	EPA 200.7 R4.4 04KS
Manganese	2.8 mg/L		09/04/13 15:49	WPS	EPA 200.7 R4.4 04KS



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Date Received: 08/29/13 15:47  
Report Date: 09/11/13  
Customer #: 277310

**\*Revised Laboratory Results\***

Sample No: **3084381-03**  
Sample Description: **Location 1E**

Collect Date: **08/29/13 11:37**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b><u>Soluble Metals - STL</u></b>					
Molybdenum	< 0.12 mg/L		09/04/13 15:49	WPS	EPA 200.7 R4.4 04KS
Nickel	0.13 mg/L		09/04/13 15:49	WPS	EPA 200.7 R4.4 04KS
Potassium	720 mg/L		09/04/13 14:36	WPS	EPA 200.7 R4.4*
Selenium	< 0.10 mg/L		09/04/13 15:49	WPS	EPA 200.7 R4.4 04KS
Sodium	5300 mg/L		09/04/13 14:36	WPS	EPA 200.7 R4.4*
Thallium	< 0.20 mg/L		09/04/13 15:49	WPS	EPA 200.7 R4.4 04KS
Vanadium	< 0.020 mg/L		09/04/13 15:49	WPS	EPA 200.7 R4.4 04KS
Zinc	1.2 mg/L		09/04/13 15:49	WPS	EPA 200.7 R4.4 04KS
Silicon	29 mg/L		09/04/13 15:49	WPS	EPA 200.7 R4.4*
<b><u>Total Metals - STL</u></b>					
Silicon as SiO2	190 mg/L		09/04/13 15:54	WPS	EPA 200.7 R4.4
Aluminum	43 mg/L	B2	09/04/13 15:54	WPS	EPA 200.7 R4.4*
Mercury	0.035 mg/L		09/04/13 12:33	WPS	EPA 245.1 R3.0 / SW 7470A 04KS
Antimony	< 0.10 mg/L		09/04/13 15:54	WPS	EPA 200.7 R4.4 04KS
Silicon	89 mg/L		09/04/13 15:54	WPS	EPA 200.7 R4.4*
Arsenic	0.57 mg/L		09/04/13 15:54	WPS	EPA 200.7 R4.4 04KS
Barium	5.2 mg/L		09/04/13 15:54	WPS	EPA 200.7 R4.4 04KS
Beryllium	< 0.010 mg/L		09/04/13 15:54	WPS	EPA 200.7 R4.4 04KS
Hardness	14000 mg/L		09/04/13 14:40	WPS	SM 2340B
Boron	28 mg/L		09/04/13 15:54	WPS	EPA 200.7 R4.4*
Cadmium	0.15 mg/L		09/04/13 15:54	WPS	EPA 200.7 R4.4 04KS
Calcium	4600 mg/L		09/04/13 14:40	WPS	EPA 200.7 R4.4 04KS
Chromium	0.39 mg/L		09/04/13 15:54	WPS	EPA 200.7 R4.4 04KS
Cobalt	0.12 mg/L		09/04/13 15:54	WPS	EPA 200.7 R4.4 04KS
Copper	< 0.020 mg/L		09/04/13 15:54	WPS	EPA 200.7 R4.4 04KS
Iron	1500 mg/L	B2	09/04/13 14:40	WPS	EPA 200.7 R4.4 04KS
Lead	0.24 mg/L		09/04/13 15:54	WPS	EPA 200.7 R4.4 04KS
Magnesium	470 mg/L		09/04/13 14:40	WPS	EPA 200.7 R4.4 04KS
Manganese	82 mg/L		09/04/13 15:54	WPS	EPA 200.7 R4.4 04KS
Molybdenum	< 0.12 mg/L		09/04/13 15:54	WPS	EPA 200.7 R4.4 04KS
Nickel	0.21 mg/L		09/04/13 15:54	WPS	EPA 200.7 R4.4 04KS
Potassium	750 mg/L		09/04/13 14:40	WPS	EPA 200.7 R4.4*
Selenium	< 0.10 mg/L		09/04/13 15:54	WPS	EPA 200.7 R4.4 04KS



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Date Received: 08/29/13 15:47  
Report Date: 09/11/13  
Customer #: 277310

**\*Revised Laboratory Results\***

Sample No: **3084381-03**  
Sample Description: **Location 1E**

Collect Date: **08/29/13 11:37**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b><u>Total Metals - STL</u></b>					
Silver	< 0.020 mg/L		09/04/13 15:54	WPS	EPA 200.7 R4.4 04KS
Sodium	5500 mg/L		09/04/13 14:40	WPS	EPA 200.7 R4.4*
Thallium	< 0.20 mg/L		09/04/13 15:54	WPS	EPA 200.7 R4.4 04KS
Vanadium	0.068 mg/L		09/04/13 15:54	WPS	EPA 200.7 R4.4 04KS
Zinc	22 mg/L		09/04/13 15:54	WPS	EPA 200.7 R4.4 04KS

Sample No: **3084381-04**  
Sample Description: **Location 2**

Collect Date: **08/29/13 11:50**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b><u>Anions - STL</u></b>					
Chloride	5500 mg/L		09/03/13 19:39	DWM	EPA 300.0 R2.1 04KS
Nitrate-N	< 50 mg/L	X	08/30/13 19:02	DWM	EPA 300.0 R2.1 04KS
Nitrite-N	< 50 mg/L	X	08/30/13 19:02	DWM	EPA 300.0 R2.1 04KS
Sulfate	690 mg/L		09/03/13 19:39	DWM	EPA 300.0 R2.1 04KS
<b><u>General Chemistry - PIA</u></b>					
Total Organic Carbon (TOC)	20000 mg/L		09/04/13 22:44	Igpi	5310C KS,IL,IA,WI,AR
<b><u>General Chemistry - STL</u></b>					
Alkalinity - total as CaCO3	11000 mg/L		08/29/13 17:00	ACV	SM 2320B 18Ed*
BOD	38000 mg/L		08/30/13 08:40	DAW	SM 5210B 18Ed 04KS
BOD - soluble	36000 mg/L		08/30/13 08:40	DAW	SM 5210B 18Ed*
COD	59000 mg/L		08/30/13 11:00	DAW	SM 5220D 18Ed 04KS
Cyanide	0.019 mg/L		09/03/13 12:00	DWM	SM 4500-CN C E 18Ed*
Cyanide - amenable	< 0.0050 mg/L		09/05/13 08:00	DWM	SM 4500CN CG 18Ed*
Cyanide - weak acid dissociable	0.015 mg/L		09/05/13 11:00	DWM	ASTM 1310-86*
Oil & Grease - total	< 14 mg/L		09/03/13 09:00	mep	EPA 1664A 04KS
Phenol	57 mg/L		09/03/13 07:26	DWM	EPA 420.1 04KS
Solids - total dissolved solids (TDS)	53000 mg/L		08/30/13 15:30	DAW	SM 2540C 18Ed*
Solids - total suspended solids (TSS)	110 mg/L		08/30/13 12:50	DAW	SM 2540D 18Ed 04KS

**Nutrients - PIA**

3084381



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Bridgeton Landfill  
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St. Louis, MO 63044  
Attn: Dan Feezor

Date Received: 08/29/13 15:47  
Report Date: 09/11/13  
Customer #: 277310

**\*Revised Laboratory Results\***

Sample No: **3084381-04**  
Sample Description: **Location 2**

Collect Date: **08/29/13 11:50**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b><u>Nutrients - PIA</u></b>					
Total Kjeldahl Nitrogen (TKN)	1300 mg/L		09/04/13 15:17	Igbrs	SM 4500-N B & NH3-H 18Ed MOD IL,IA,WI,AR
<b><u>Nutrients - STL</u></b>					
Ammonia-N	880 mg/L		08/29/13 16:00	ACV	SM(18) 4500 NH3 F 04KS
Phosphorus - ortho as P	< 5.0 mg/L	H	09/04/13 11:00	ACV	SM 4500P B E 18ed* 04KS
Phosphorus - total as P	< 5.0 mg/L		09/04/13 16:00	ACV	SM 4500P B E 18ed 04KS
<b><u>Semivolatile Organics - PIA</u></b>					
N-Nitrosodimethylamine	< 1000 ug/L		09/04/13 20:56	PSB	EPA 625 AR,IL,IA,KS, WI
Phenol	10000 ug/L		09/05/13 22:14	SNS	EPA 625 AR,IL,IA,KS, WI
Bis(2-chloroethyl) ether	< 1000 ug/L		09/04/13 20:56	PSB	EPA 625 AR,IL,IA,KS, WI
2-Chlorophenol	< 1000 ug/L		09/04/13 20:56	PSB	EPA 625 AR,IL,IA,KS, WI
1,3-Dichlorobenzene	< 1000 ug/L		09/04/13 20:56	PSB	EPA 625 AR,IL,IA,WI
1,4-Dichlorobenzene	< 1000 ug/L		09/04/13 20:56	PSB	EPA 625 AR,IL,IA,WI
1,2-Dichlorobenzene	< 1000 ug/L		09/04/13 20:56	PSB	EPA 625 AR,IL,IA,WI
Bis(2-chloroisopropyl) ether	< 1000 ug/L		09/04/13 20:56	PSB	EPA 625 AR,IL,IA,KS, WI
N-Nitrosodi-n-propylamine	< 1000 ug/L		09/04/13 20:56	PSB	EPA 625 AR,IL,IA,KS, WI
Hexachloroethane	< 1000 ug/L		09/04/13 20:56	PSB	EPA 625 AR,IL,IA,KS, WI
Nitrobenzene	< 1000 ug/L		09/04/13 20:56	PSB	EPA 625 AR,IL,IA,KS, WI
Isophorone	< 1000 ug/L		09/04/13 20:56	PSB	EPA 625 AR,IL,IA,KS, WI
2-Nitrophenol	< 1000 ug/L		09/04/13 20:56	PSB	EPA 625 AR,IL,IA,KS, WI
2,4-Dimethylphenol	< 1000 ug/L		09/04/13 20:56	PSB	EPA 625 AR,IL,IA,KS, WI
Bis(2-chloroethoxy) methane	< 1000 ug/L		09/04/13 20:56	PSB	EPA 625 AR,IL,IA,KS, WI
2,4-Dichlorophenol	< 1000 ug/L		09/04/13 20:56	PSB	EPA 625 AR,IL,IA,KS, WI
1,2,4-Trichlorobenzene	< 1000 ug/L		09/04/13 20:56	PSB	EPA 625 AR,IL,IA,KS, WI



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**\*Revised Laboratory Results\***

Sample No: **3084381-04**  
Sample Description: **Location 2**

Collect Date: **08/29/13 11:50**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b>Semivolatile Organics - PIA</b>					
Naphthalene	< 1000 ug/L		09/04/13 20:56	PSB	EPA 625 AR,IL,IA,KS, WI
Hexachlorobutadiene	< 1000 ug/L		09/04/13 20:56	PSB	EPA 625 AR,IL,IA,KS, WI
4-Chloro-3-methylphenol	< 1000 ug/L		09/04/13 20:56	PSB	EPA 625 AR,IL,IA,KS, WI
Hexachlorocyclopentadiene	< 5000 ug/L		09/04/13 20:56	PSB	EPA 625 AR,IL,IA,KS, WI
2,4,6-Trichlorophenol	< 5000 ug/L		09/04/13 20:56	PSB	EPA 625 AR,IL,IA,KS, WI
2-Chloronaphthalene	< 1000 ug/L		09/04/13 20:56	PSB	EPA 625 AR,IL,IA,KS, WI
Dimethyl phthalate	< 1000 ug/L		09/04/13 20:56	PSB	EPA 625 AR,IL,IA,KS, WI
2,6-Dinitrotoluene	< 1000 ug/L		09/04/13 20:56	PSB	EPA 625 AR,IL,IA,KS, WI
Acenaphthylene	< 1000 ug/L		09/04/13 20:56	PSB	EPA 625 AR,IL,IA,KS, WI
Acenaphthene	< 1000 ug/L		09/04/13 20:56	PSB	EPA 625 AR,IL,IA,KS, WI
2,4-Dinitrophenol	< 5000 ug/L		09/04/13 20:56	PSB	EPA 625 AR,IL,IA,KS, WI
4-Nitrophenol	< 5000 ug/L		09/04/13 20:56	PSB	EPA 625 AR,IL,IA,KS, WI
2,4-Dinitrotoluene	< 1000 ug/L		09/04/13 20:56	PSB	EPA 625 AR,IL,IA,KS, WI
Diethyl phthalate	< 1000 ug/L		09/04/13 20:56	PSB	EPA 625 AR,IL,IA,KS, WI
Fluorene	< 1000 ug/L		09/04/13 20:56	PSB	EPA 625 AR,IL,IA,KS, WI
4-Chlorophenylphenyl ether	< 1000 ug/L		09/04/13 20:56	PSB	EPA 625 AR,IL,IA,KS, WI
4,6-Dinitro-2-methylphenol	< 5000 ug/L		09/04/13 20:56	PSB	EPA 625 AR,IL,IA,KS, WI
N-Nitrosodiphenylamine	< 1000 ug/L		09/04/13 20:56	PSB	EPA 625 AR,IL,IA,KS, WI
1,2-Diphenylhydrazine	< 1000 ug/L		09/04/13 20:56	PSB	EPA 625 AR,IL
4-Bromophenyl phenyl ether	< 1000 ug/L		09/04/13 20:56	PSB	EPA 625 AR,IL,IA,KS, WI
Hexachlorobenzene	< 1000 ug/L		09/04/13 20:56	PSB	EPA 625 AR,IL,IA,KS, WI
Pentachlorophenol	< 5000 ug/L		09/04/13 20:56	PSB	EPA 625 AR,IL,IA,KS, WI





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**\*Revised Laboratory Results\***

Sample No: **3084381-04**  
Sample Description: **Location 2**

Collect Date: **08/29/13 11:50**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b><u>Semivolatile Organics - PIA</u></b>					
Phenanthrene	< 1000 ug/L		09/04/13 20:56	PSB	EPA 625 AR,IL,IA,KS, WI
Anthracene	< 1000 ug/L		09/04/13 20:56	PSB	EPA 625 AR,IL,IA,KS, WI
Di-n-butyl phthalate	< 1000 ug/L		09/04/13 20:56	PSB	EPA 625 AR,IL,IA,KS, WI
Fluoranthene	< 1000 ug/L		09/04/13 20:56	PSB	EPA 625 AR,IL,IA,KS, WI
Benzdine	< 8000 ug/L		09/04/13 20:56	PSB	EPA 625 AR,IL,IA,KS, WI
Pyrene	< 1000 ug/L		09/04/13 20:56	PSB	EPA 625 AR,IL,IA,KS, WI
Butyl benzyl phthalate	< 1000 ug/L		09/04/13 20:56	PSB	EPA 625 AR,IL,IA,KS, WI
Benzo(a)anthracene	< 1000 ug/L		09/04/13 20:56	PSB	EPA 625 AR,IL,IA,KS, WI
3,3'-Dichlorobenzidine	< 2000 ug/L		09/04/13 20:56	PSB	EPA 625 AR,IL,IA,KS, WI
Chrysene	< 1000 ug/L		09/04/13 20:56	PSB	EPA 625 AR,IL,IA,KS, WI
Bis(2-ethylhexyl) phthalate	< 1000 ug/L		09/04/13 20:56	PSB	EPA 625 AR,IL,IA,KS, WI
Di-n-octyl phthalate	< 1000 ug/L		09/04/13 20:56	PSB	EPA 625 AR,IL,IA,KS, WI
Benzo(b)fluoranthene	< 1000 ug/L		09/04/13 20:56	PSB	EPA 625 AR,IL,IA,KS, WI
2,3,7,8-TCDD Screen	< 5000 ug/L		09/04/13 20:56	PSB	EPA 625*
Benzo(k)fluoranthene	< 1000 ug/L		09/04/13 20:56	PSB	EPA 625 AR,IL,IA,KS, WI
Benzo(a)pyrene	< 1000 ug/L		09/04/13 20:56	PSB	EPA 625 AR,IL,IA,KS, WI
Indeno(1,2,3-cd)pyrene	< 1000 ug/L		09/04/13 20:56	PSB	EPA 625 AR,IL,IA,KS, WI
Dibenzo(a,h)anthracene	< 1000 ug/L		09/04/13 20:56	PSB	EPA 625 AR,IL,IA,KS, WI
Benzo(g,h,i)perylene	< 1000 ug/L		09/04/13 20:56	PSB	EPA 625 AR,IL,IA,KS, WI
<b><u>Soluble Metals - STL</u></b>					
Silicon as SiO2	72 mg/L		09/04/13 15:58	WPS	EPA 200.7 R4.4
Aluminum	0.16 mg/L		09/04/13 15:58	WPS	EPA 200.7 R4.4*
Mercury	< 0.0020 mg/L		09/04/13 12:33	WPS	EPA 245.1 R3.0 / 04KS SW 7470A



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**\*Revised Laboratory Results\***

Sample No: **3084381-04**  
Sample Description: **Location 2**

Collect Date: **08/29/13 11:50**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b><u>Soluble Metals - STL</u></b>					
Antimony	< 0.10 mg/L		09/04/13 15:58	WPS	EPA 200.7 R4.4 04KS
Copper	< 0.020 mg/L		09/04/13 15:58	WPS	EPA 200.7 R4.4 04KS
Silver	< 0.020 mg/L		09/04/13 15:58	WPS	EPA 200.7 R4.4 04KS
Arsenic	0.46 mg/L		09/04/13 15:58	WPS	EPA 200.7 R4.4 04KS
Barium	2.5 mg/L		09/04/13 15:58	WPS	EPA 200.7 R4.4 04KS
Beryllium	< 0.010 mg/L		09/04/13 15:58	WPS	EPA 200.7 R4.4 04KS
Boron	21 mg/L		09/04/13 15:58	WPS	EPA 200.7 R4.4*
Cadmium	< 0.020 mg/L		09/04/13 15:58	WPS	EPA 200.7 R4.4 04KS
Calcium	4100 mg/L		09/04/13 14:57	WPS	EPA 200.7 R4.4 04KS
Chromium	0.13 mg/L		09/04/13 15:58	WPS	EPA 200.7 R4.4 04KS
Cobalt	0.029 mg/L		09/04/13 15:58	WPS	EPA 200.7 R4.4 04KS
Iron	14 mg/L	B2	09/04/13 15:58	WPS	EPA 200.7 R4.4 04KS
Lead	< 0.10 mg/L		09/04/13 15:58	WPS	EPA 200.7 R4.4 04KS
Magnesium	200 mg/L		09/04/13 14:57	WPS	EPA 200.7 R4.4 04KS
Manganese	3.9 mg/L		09/04/13 15:58	WPS	EPA 200.7 R4.4 04KS
Molybdenum	< 0.12 mg/L		09/04/13 15:58	WPS	EPA 200.7 R4.4 04KS
Nickel	0.14 mg/L		09/04/13 15:58	WPS	EPA 200.7 R4.4 04KS
Potassium	790 mg/L		09/04/13 14:57	WPS	EPA 200.7 R4.4*
Selenium	< 0.10 mg/L		09/04/13 15:58	WPS	EPA 200.7 R4.4 04KS
Sodium	5700 mg/L		09/04/13 14:57	WPS	EPA 200.7 R4.4*
Thallium	< 0.20 mg/L		09/04/13 15:58	WPS	EPA 200.7 R4.4 04KS
Vanadium	< 0.020 mg/L		09/04/13 15:58	WPS	EPA 200.7 R4.4 04KS
Zinc	1.7 mg/L		09/04/13 15:58	WPS	EPA 200.7 R4.4 04KS
Silicon	34 mg/L		09/04/13 15:58	WPS	EPA 200.7 R4.4*
<b><u>Total Metals - STL</u></b>					
Silicon as SiO2	120 mg/L		09/04/13 16:02	WPS	EPA 200.7 R4.4
Aluminum	23 mg/L	B2	09/04/13 16:02	WPS	EPA 200.7 R4.4*
Mercury	0.020 mg/L		09/04/13 12:33	WPS	EPA 245.1 R3.0 / SW 7470A 04KS
Antimony	< 0.10 mg/L		09/04/13 16:02	WPS	EPA 200.7 R4.4 04KS
Silicon	57 mg/L		09/04/13 16:02	WPS	EPA 200.7 R4.4*
Arsenic	0.52 mg/L		09/04/13 16:02	WPS	EPA 200.7 R4.4 04KS
Barium	4.0 mg/L		09/04/13 16:02	WPS	EPA 200.7 R4.4 04KS
Beryllium	< 0.010 mg/L		09/04/13 16:02	WPS	EPA 200.7 R4.4 04KS



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Bridgeton Landfill  
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St. Louis, MO 63044  
Attn: Dan Feezor

Date Received: 08/29/13 15:47  
Report Date: 09/11/13  
Customer #: 277310

**\*Revised Laboratory Results\***

Sample No: **3084381-04**  
Sample Description: **Location 2**

Collect Date: **08/29/13 11:50**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b><u>Total Metals - STL</u></b>					
Hardness	12000 mg/L		09/04/13 15:01	WPS	SM 2340B
Boron	24 mg/L		09/04/13 16:02	WPS	EPA 200.7 R4.4*
Cadmium	0.056 mg/L		09/04/13 16:02	WPS	EPA 200.7 R4.4 04KS
Calcium	4200 mg/L		09/04/13 15:01	WPS	EPA 200.7 R4.4 04KS
Chromium	0.23 mg/L		09/04/13 16:02	WPS	EPA 200.7 R4.4 04KS
Cobalt	0.057 mg/L		09/04/13 16:02	WPS	EPA 200.7 R4.4 04KS
Copper	0.91 mg/L		09/04/13 16:02	WPS	EPA 200.7 R4.4 04KS
Iron	580 mg/L	B2	09/04/13 15:01	WPS	EPA 200.7 R4.4 04KS
Lead	< 0.10 mg/L		09/04/13 16:02	WPS	EPA 200.7 R4.4 04KS
Magnesium	340 mg/L		09/04/13 15:01	WPS	EPA 200.7 R4.4 04KS
Manganese	36 mg/L		09/04/13 16:02	WPS	EPA 200.7 R4.4 04KS
Molybdenum	< 0.12 mg/L		09/04/13 16:02	WPS	EPA 200.7 R4.4 04KS
Nickel	0.17 mg/L		09/04/13 16:02	WPS	EPA 200.7 R4.4 04KS
Potassium	770 mg/L		09/04/13 15:01	WPS	EPA 200.7 R4.4*
Selenium	< 0.10 mg/L		09/04/13 16:02	WPS	EPA 200.7 R4.4 04KS
Silver	< 0.020 mg/L		09/04/13 16:02	WPS	EPA 200.7 R4.4 04KS
Sodium	5600 mg/L		09/04/13 15:01	WPS	EPA 200.7 R4.4*
Thallium	< 0.20 mg/L		09/04/13 16:02	WPS	EPA 200.7 R4.4 04KS
Vanadium	0.034 mg/L		09/04/13 16:02	WPS	EPA 200.7 R4.4 04KS
Zinc	11 mg/L		09/04/13 16:02	WPS	EPA 200.7 R4.4 04KS

Sample No: **3084381-05**  
Sample Description: **Location 3**

Collect Date: **08/29/13 12:15**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b><u>General Chemistry - STL</u></b>					
Solids - total suspended solids (TSS)	30000 mg/L		08/30/13 12:50	DAW	SM 2540D 18Ed 04KS
Solids - total volatile suspended solids	9900 mg/L		08/30/13 12:50	DAW	SM 2540E 18Ed*



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Date Received: 08/29/13 15:47  
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Customer #: 277310

**\*Revised Laboratory Results\***

Sample No: **3084381-06**  
Sample Description: **Location 4**

Collect Date: **08/29/13 12:10**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method	
<b><u>Anions - STL</u></b>						
Chloride	3900 mg/L		09/03/13 19:57	DWM	EPA 300.0 R2.1	04KS
Nitrate-N	< 50 mg/L	X	08/30/13 19:20	DWM	EPA 300.0 R2.1	04KS
Nitrite-N	< 50 mg/L	X	08/30/13 19:20	DWM	EPA 300.0 R2.1	04KS
Sulfate	2800 mg/L		09/03/13 19:57	DWM	EPA 300.0 R2.1	04KS
<b><u>General Chemistry - PIA</u></b>						
Total Organic Carbon (TOC)	1900 mg/L		09/04/13 22:51	Igpi	5310C	KS,IL,IA,WI,AR
<b><u>General Chemistry - STL</u></b>						
Alkalinity - total as CaCO3	660 mg/L		08/29/13 17:00	ACV	SM 2320B 18Ed*	
BOD	80 mg/L		08/30/13 08:40	DAW	SM 5210B 18Ed	04KS
BOD - soluble	58 mg/L		08/30/13 08:40	DAW	SM 5210B 18Ed*	
COD	4100 mg/L		08/30/13 11:00	DAW	SM 5220D 18Ed	04KS
Cyanide	0.0090 mg/L		09/03/13 12:00	DWM	SM 4500-CN C E 18Ed*	
Cyanide - amenable	< 0.0050 mg/L		09/05/13 08:00	DWM	SM 4500CN CG 18Ed*	
Cyanide - weak acid dissociable	0.013 mg/L		09/05/13 11:00	DWM	ASTM 1310-86*	
Oil & Grease - total	16 mg/L		09/03/13 09:00	mep	EPA 1664A	04KS
Phenol	< 0.50 mg/L		09/03/13 07:26	DWM	EPA 420.1	04KS
Solids - total dissolved solids (TDS)	14000 mg/L		08/30/13 15:30	DAW	SM 2540C 18Ed*	
Solids - total suspended solids (TSS)	11 mg/L		08/30/13 12:50	DAW	SM 2540D 18Ed	04KS
<b><u>Nutrients - PIA</u></b>						
Total Kjeldahl Nitrogen (TKN)	260 mg/L		09/04/13 15:18	Igbrs	SM 4500-N B & NH3-H 18Ed MOD	IL,IA,WI,AR
<b><u>Nutrients - STL</u></b>						
Ammonia-N	180 mg/L		08/29/13 16:00	ACV	SM(18) 4500 NH3 F	04KS
Phosphorus - ortho as P	18 mg/L	H	09/04/13 11:00	ACV	SM 4500P B E 18ed*	
Phosphorus - total as P	12 mg/L		09/04/13 16:00	ACV	SM 4500P B E 18ed	04KS
<b><u>Semivolatile Organics - PIA</u></b>						
N-Nitrosodimethylamine	< 200 ug/L		09/04/13 21:55	PSB	EPA 625	AR,IL,IA,KS,WI
Phenol	< 200 ug/L		09/04/13 21:55	PSB	EPA 625	AR,IL,IA,KS,WI



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Customer #: 277310

**\*Revised Laboratory Results\***

Sample No: **3084381-06**  
Sample Description: **Location 4**

Collect Date: **08/29/13 12:10**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b>Semivolatile Organics - PIA</b>					
Bis(2-chloroethyl) ether	< 200 ug/L		09/04/13 21:55	PSB	EPA 625 AR,IL,IA,KS, WI
2-Chlorophenol	< 200 ug/L		09/04/13 21:55	PSB	EPA 625 AR,IL,IA,KS, WI
1,3-Dichlorobenzene	< 200 ug/L		09/04/13 21:55	PSB	EPA 625 AR,IL,IA,WI
1,4-Dichlorobenzene	< 200 ug/L		09/04/13 21:55	PSB	EPA 625 AR,IL,IA,WI
1,2-Dichlorobenzene	< 200 ug/L		09/04/13 21:55	PSB	EPA 625 AR,IL,IA,WI
Bis(2-chloroisopropyl) ether	< 200 ug/L		09/04/13 21:55	PSB	EPA 625 AR,IL,IA,KS, WI
N-Nitrosodi-n-propylamine	< 200 ug/L		09/04/13 21:55	PSB	EPA 625 AR,IL,IA,KS, WI
Hexachloroethane	< 200 ug/L		09/04/13 21:55	PSB	EPA 625 AR,IL,IA,KS, WI
Nitrobenzene	< 200 ug/L		09/04/13 21:55	PSB	EPA 625 AR,IL,IA,KS, WI
Isophorone	< 200 ug/L		09/04/13 21:55	PSB	EPA 625 AR,IL,IA,KS, WI
2-Nitrophenol	< 200 ug/L		09/04/13 21:55	PSB	EPA 625 AR,IL,IA,KS, WI
2,4-Dimethylphenol	< 200 ug/L		09/04/13 21:55	PSB	EPA 625 AR,IL,IA,KS, WI
Bis(2-chloroethoxy) methane	< 200 ug/L		09/04/13 21:55	PSB	EPA 625 AR,IL,IA,KS, WI
2,4-Dichlorophenol	< 200 ug/L		09/04/13 21:55	PSB	EPA 625 AR,IL,IA,KS, WI
1,2,4-Trichlorobenzene	< 200 ug/L		09/04/13 21:55	PSB	EPA 625 AR,IL,IA,KS, WI
Naphthalene	< 200 ug/L		09/04/13 21:55	PSB	EPA 625 AR,IL,IA,KS, WI
Hexachlorobutadiene	< 200 ug/L		09/04/13 21:55	PSB	EPA 625 AR,IL,IA,KS, WI
4-Chloro-3-methylphenol	< 200 ug/L		09/04/13 21:55	PSB	EPA 625 AR,IL,IA,KS, WI
Hexachlorocyclopentadiene	< 1000 ug/L		09/04/13 21:55	PSB	EPA 625 AR,IL,IA,KS, WI
2,4,6-Trichlorophenol	< 1000 ug/L		09/04/13 21:55	PSB	EPA 625 AR,IL,IA,KS, WI
2-Chloronaphthalene	< 200 ug/L		09/04/13 21:55	PSB	EPA 625 AR,IL,IA,KS, WI
Dimethyl phthalate	< 200 ug/L		09/04/13 21:55	PSB	EPA 625 AR,IL,IA,KS, WI
2,6-Dinitrotoluene	< 200 ug/L		09/04/13 21:55	PSB	EPA 625 AR,IL,IA,KS, WI



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Bridgeton Landfill  
13570 St Charles Rock Road  
St. Louis, MO 63044  
Attn: Dan Feezor

Date Received: 08/29/13 15:47  
Report Date: 09/11/13  
Customer #: 277310

**\*Revised Laboratory Results\***

Sample No: **3084381-06**  
Sample Description: **Location 4**

Collect Date: **08/29/13 12:10**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b>Semivolatile Organics - PIA</b>					
Acenaphthylene	< 200 ug/L		09/04/13 21:55	PSB	EPA 625 AR,IL,IA,KS, WI
Acenaphthene	< 200 ug/L		09/04/13 21:55	PSB	EPA 625 AR,IL,IA,KS, WI
2,4-Dinitrophenol	< 1000 ug/L		09/04/13 21:55	PSB	EPA 625 AR,IL,IA,KS, WI
4-Nitrophenol	< 1000 ug/L		09/04/13 21:55	PSB	EPA 625 AR,IL,IA,KS, WI
2,4-Dinitrotoluene	< 200 ug/L		09/04/13 21:55	PSB	EPA 625 AR,IL,IA,KS, WI
Diethyl phthalate	< 200 ug/L		09/04/13 21:55	PSB	EPA 625 AR,IL,IA,KS, WI
Fluorene	< 200 ug/L		09/04/13 21:55	PSB	EPA 625 AR,IL,IA,KS, WI
4-Chlorophenylphenyl ether	< 200 ug/L		09/04/13 21:55	PSB	EPA 625 AR,IL,IA,KS, WI
4,6-Dinitro-2-methylphenol	< 1000 ug/L		09/04/13 21:55	PSB	EPA 625 AR,IL,IA,KS, WI
N-Nitrosodiphenylamine	< 200 ug/L		09/04/13 21:55	PSB	EPA 625 AR,IL,IA,KS, WI
1,2-Diphenylhydrazine	< 200 ug/L		09/04/13 21:55	PSB	EPA 625 AR,IL
4-Bromophenyl phenyl ether	< 200 ug/L		09/04/13 21:55	PSB	EPA 625 AR,IL,IA,KS, WI
Hexachlorobenzene	< 200 ug/L		09/04/13 21:55	PSB	EPA 625 AR,IL,IA,KS, WI
Pentachlorophenol	< 1000 ug/L		09/04/13 21:55	PSB	EPA 625 AR,IL,IA,KS, WI
Phenanthrene	< 200 ug/L		09/04/13 21:55	PSB	EPA 625 AR,IL,IA,KS, WI
Anthracene	< 200 ug/L		09/04/13 21:55	PSB	EPA 625 AR,IL,IA,KS, WI
Di-n-butyl phthalate	< 200 ug/L		09/04/13 21:55	PSB	EPA 625 AR,IL,IA,KS, WI
Fluoranthene	< 200 ug/L		09/04/13 21:55	PSB	EPA 625 AR,IL,IA,KS, WI
Benzydine	< 1600 ug/L		09/04/13 21:55	PSB	EPA 625 AR,IL,IA,KS, WI
Pyrene	< 200 ug/L		09/04/13 21:55	PSB	EPA 625 AR,IL,IA,KS, WI
Butyl benzyl phthalate	< 200 ug/L		09/04/13 21:55	PSB	EPA 625 AR,IL,IA,KS, WI
Benzo(a)anthracene	< 200 ug/L		09/04/13 21:55	PSB	EPA 625 AR,IL,IA,KS, WI



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Date Received: 08/29/13 15:47  
Report Date: 09/11/13  
Customer #: 277310

**\*Revised Laboratory Results\***

Sample No: **3084381-06**  
Sample Description: **Location 4**

Collect Date: **08/29/13 12:10**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b>Semivolatile Organics - PIA</b>					
3,3'-Dichlorobenzidine	< 400 ug/L		09/04/13 21:55	PSB	EPA 625 AR,IL,IA,KS, WI
Chrysene	< 200 ug/L		09/04/13 21:55	PSB	EPA 625 AR,IL,IA,KS, WI
Bis(2-ethylhexyl) phthalate	< 200 ug/L		09/04/13 21:55	PSB	EPA 625 AR,IL,IA,KS, WI
Di-n-octyl phthalate	< 200 ug/L		09/04/13 21:55	PSB	EPA 625 AR,IL,IA,KS, WI
Benzo(b)fluoranthene	< 200 ug/L		09/04/13 21:55	PSB	EPA 625 AR,IL,IA,KS, WI
2,3,7,8-TCDD Screen	< 1000 ug/L		09/04/13 21:55	PSB	EPA 625*
Benzo(k)fluoranthene	< 200 ug/L		09/04/13 21:55	PSB	EPA 625 AR,IL,IA,KS, WI
Benzo(a)pyrene	< 200 ug/L		09/04/13 21:55	PSB	EPA 625 AR,IL,IA,KS, WI
Indeno(1,2,3-cd)pyrene	< 200 ug/L		09/04/13 21:55	PSB	EPA 625 AR,IL,IA,KS, WI
Dibenzo(a,h)anthracene	< 200 ug/L		09/04/13 21:55	PSB	EPA 625 AR,IL,IA,KS, WI
Benzo(g,h,i)perylene	< 200 ug/L		09/04/13 21:55	PSB	EPA 625 AR,IL,IA,KS, WI
<b>Soluble Metals - STL</b>					
Silicon as SiO2	71 mg/L		09/04/13 16:06	WPS	EPA 200.7 R4.4
Aluminum	< 0.15 mg/L		09/04/13 16:06	WPS	EPA 200.7 R4.4*
Mercury	< 0.0020 mg/L		09/04/13 12:33	WPS	EPA 245.1 R3.0 / SW 7470A 04KS
Antimony	< 0.10 mg/L		09/04/13 16:06	WPS	EPA 200.7 R4.4 04KS
Copper	0.020 mg/L		09/04/13 16:06	WPS	EPA 200.7 R4.4 04KS
Silver	< 0.020 mg/L		09/04/13 16:06	WPS	EPA 200.7 R4.4 04KS
Arsenic	0.26 mg/L		09/04/13 16:06	WPS	EPA 200.7 R4.4 04KS
Barium	< 0.10 mg/L		09/04/13 16:06	WPS	EPA 200.7 R4.4 04KS
Beryllium	< 0.010 mg/L		09/04/13 16:06	WPS	EPA 200.7 R4.4 04KS
Boron	13 mg/L		09/04/13 16:06	WPS	EPA 200.7 R4.4*
Cadmium	< 0.020 mg/L		09/04/13 16:06	WPS	EPA 200.7 R4.4 04KS
Calcium	220 mg/L		09/04/13 15:05	WPS	EPA 200.7 R4.4 04KS
Chromium	0.049 mg/L		09/04/13 16:06	WPS	EPA 200.7 R4.4 04KS
Cobalt	< 0.020 mg/L		09/04/13 16:06	WPS	EPA 200.7 R4.4 04KS
Iron	0.63 mg/L	B2	09/04/13 16:06	WPS	EPA 200.7 R4.4 04KS



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Date Received: 08/29/13 15:47  
Report Date: 09/11/13  
Customer #: 277310

**\*Revised Laboratory Results\***

Sample No: **3084381-06**  
Sample Description: **Location 4**

Collect Date: **08/29/13 12:10**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b><u>Soluble Metals - STL</u></b>					
Lead	< 0.10 mg/L		09/04/13 16:06	WPS	EPA 200.7 R4.4 04KS
Magnesium	87 mg/L		09/04/13 16:06	WPS	EPA 200.7 R4.4 04KS
Manganese	0.46 mg/L		09/04/13 16:06	WPS	EPA 200.7 R4.4 04KS
Molybdenum	< 0.12 mg/L		09/04/13 16:06	WPS	EPA 200.7 R4.4 04KS
Nickel	0.13 mg/L		09/04/13 16:06	WPS	EPA 200.7 R4.4 04KS
Potassium	480 mg/L		09/04/13 15:05	WPS	EPA 200.7 R4.4*
Selenium	< 0.10 mg/L		09/04/13 16:06	WPS	EPA 200.7 R4.4 04KS
Sodium	3600 mg/L		09/04/13 15:05	WPS	EPA 200.7 R4.4*
Thallium	< 0.20 mg/L		09/04/13 16:06	WPS	EPA 200.7 R4.4 04KS
Vanadium	< 0.020 mg/L		09/04/13 16:06	WPS	EPA 200.7 R4.4 04KS
Zinc	0.13 mg/L		09/04/13 16:06	WPS	EPA 200.7 R4.4 04KS
Silicon	33 mg/L		09/04/13 16:06	WPS	EPA 200.7 R4.4*
<b><u>Total Metals - STL</u></b>					
Silicon as SiO2	71 mg/L		09/04/13 16:10	WPS	EPA 200.7 R4.4
Aluminum	< 0.15 mg/L	B1	09/04/13 16:10	WPS	EPA 200.7 R4.4*
Mercury	< 0.0020 mg/L		09/04/13 12:33	WPS	EPA 245.1 R3.0 / SW 7470A 04KS
Antimony	< 0.10 mg/L		09/04/13 16:10	WPS	EPA 200.7 R4.4 04KS
Silicon	33 mg/L		09/04/13 16:10	WPS	EPA 200.7 R4.4*
Arsenic	0.19 mg/L		09/04/13 16:10	WPS	EPA 200.7 R4.4 04KS
Barium	< 0.10 mg/L		09/04/13 16:10	WPS	EPA 200.7 R4.4 04KS
Beryllium	< 0.010 mg/L		09/04/13 16:10	WPS	EPA 200.7 R4.4 04KS
Hardness	1100 mg/L		09/04/13 15:09	WPS	SM 2340B
Boron	13 mg/L		09/04/13 16:10	WPS	EPA 200.7 R4.4*
Cadmium	< 0.020 mg/L		09/04/13 16:10	WPS	EPA 200.7 R4.4 04KS
Calcium	220 mg/L		09/04/13 15:09	WPS	EPA 200.7 R4.4 04KS
Chromium	0.052 mg/L		09/04/13 16:10	WPS	EPA 200.7 R4.4 04KS
Cobalt	< 0.020 mg/L		09/04/13 16:10	WPS	EPA 200.7 R4.4 04KS
Copper	0.022 mg/L		09/04/13 16:10	WPS	EPA 200.7 R4.4 04KS
Iron	0.49 mg/L	B2	09/04/13 16:10	WPS	EPA 200.7 R4.4 04KS
Lead	< 0.10 mg/L		09/04/13 16:10	WPS	EPA 200.7 R4.4 04KS
Magnesium	140 mg/L		09/04/13 15:09	WPS	EPA 200.7 R4.4 04KS
Manganese	0.43 mg/L		09/04/13 16:10	WPS	EPA 200.7 R4.4 04KS
Molybdenum	< 0.12 mg/L		09/04/13 16:10	WPS	EPA 200.7 R4.4 04KS





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Bridgeton Landfill  
13570 St Charles Rock Road  
St. Louis, MO 63044  
Attn: Dan Feezor

Date Received: 08/29/13 15:47  
Report Date: 09/11/13  
Customer #: 277310

**\*Revised Laboratory Results\***

Sample No: **3084381-06**  
Sample Description: **Location 4**

Collect Date: **08/29/13 12:10**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b>Total Metals - STL</b>					
Nickel	0.11 mg/L		09/04/13 16:10	WPS	EPA 200.7 R4.4 04KS
Potassium	490 mg/L		09/04/13 15:09	WPS	EPA 200.7 R4.4*
Selenium	< 0.10 mg/L		09/04/13 16:10	WPS	EPA 200.7 R4.4 04KS
Silver	< 0.020 mg/L		09/04/13 16:10	WPS	EPA 200.7 R4.4 04KS
Sodium	3600 mg/L		09/04/13 15:09	WPS	EPA 200.7 R4.4*
Thallium	< 0.20 mg/L		09/04/13 16:10	WPS	EPA 200.7 R4.4 04KS
Vanadium	< 0.020 mg/L		09/04/13 16:10	WPS	EPA 200.7 R4.4 04KS
Zinc	0.13 mg/L		09/04/13 16:10	WPS	EPA 200.7 R4.4 04KS

Sample No: **3084381-07**  
Sample Description: **Field Blank**

Collect Date: **08/29/13 12:15**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b>Anions - STL</b>					
Chloride	< 0.50 mg/L		09/03/13 20:14	DWM	EPA 300.0 R2.1 04KS
Nitrate-N	< 0.50 mg/L	X	08/30/13 19:37	DWM	EPA 300.0 R2.1 04KS
Nitrite-N	< 0.50 mg/L	X	08/30/13 19:37	DWM	EPA 300.0 R2.1 04KS
Sulfate	< 0.50 mg/L		09/03/13 20:14	DWM	EPA 300.0 R2.1 04KS
<b>General Chemistry - PIA</b>					
Total Organic Carbon (TOC)	< 0.50 mg/L		09/04/13 22:59	Igpi	5310C KS,IL,IA,WI,AR
<b>General Chemistry - STL</b>					
Alkalinity - total as CaCO3	2.0 mg/L		08/29/13 17:00	ACV	SM 2320B 18Ed*
BOD	< 6.0 mg/L		08/30/13 08:40	DAW	SM 5210B 18Ed 04KS
BOD - soluble	< 6.0 mg/L		08/30/13 08:40	DAW	SM 5210B 18Ed*
COD	< 5.0 mg/L		08/30/13 11:00	DAW	SM 5220D 18Ed 04KS
Cyanide	< 0.0050 mg/L		09/03/13 12:00	DWM	SM 4500-CN C E 18Ed*
Cyanide - amenable	< 0.0050 mg/L		09/05/13 08:00	DWM	SM 4500CN CG 18Ed*
Cyanide - weak acid dissociable	< 0.0050 mg/L		09/05/13 11:00	DWM	ASTM 1310-86*
Oil & Grease - total	< 5.1 mg/L		09/03/13 09:00	mep	EPA 1664A 04KS
Phenol	< 0.050 mg/L		09/03/13 07:26	DWM	EPA 420.1 04KS



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**\*Revised Laboratory Results\***

Sample No: **3084381-07**  
Sample Description: **Field Blank**

Collect Date: **08/29/13 12:15**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b><u>General Chemistry - STL</u></b>					
Solids - total dissolved solids (TDS)	< 17 mg/L		08/30/13 15:30	DAW	SM 2540C 18Ed*
Solids - total suspended solids (TSS)	< 2.0 mg/L		08/30/13 12:50	DAW	SM 2540D 18Ed 04KS
<b><u>Nutrients - PIA</u></b>					
Total Kjeldahl Nitrogen (TKN)	< 1.0 mg/L		09/04/13 15:08	Igbrs	SM 4500-N B & NH3-H 18Ed MOD IL,IA,WI,AR
<b><u>Nutrients - STL</u></b>					
Ammonia-N	< 0.10 mg/L		08/29/13 16:00	ACV	SM(18) 4500 NH3 F 04KS
Phosphorus - ortho as P	< 0.050 mg/L	H	09/04/13 11:00	ACV	SM 4500P B E 18ed* 04KS
Phosphorus - total as P	< 0.050 mg/L		09/04/13 16:00	ACV	SM 4500P B E 18ed 04KS
<b><u>Semivolatile Organics - PIA</u></b>					
N-Nitrosodimethylamine	< 200 ug/L		09/04/13 22:54	PSB	EPA 625 AR,IL,IA,KS, WI
Phenol	< 200 ug/L		09/04/13 22:54	PSB	EPA 625 AR,IL,IA,KS, WI
Bis(2-chloroethyl) ether	< 200 ug/L		09/04/13 22:54	PSB	EPA 625 AR,IL,IA,KS, WI
2-Chlorophenol	< 200 ug/L		09/04/13 22:54	PSB	EPA 625 AR,IL,IA,KS, WI
1,3-Dichlorobenzene	< 200 ug/L		09/04/13 22:54	PSB	EPA 625 AR,IL,IA,WI
1,4-Dichlorobenzene	< 200 ug/L		09/04/13 22:54	PSB	EPA 625 AR,IL,IA,WI
1,2-Dichlorobenzene	< 200 ug/L		09/04/13 22:54	PSB	EPA 625 AR,IL,IA,WI
Bis(2-chloroisopropyl) ether	< 200 ug/L		09/04/13 22:54	PSB	EPA 625 AR,IL,IA,KS, WI
N-Nitrosodi-n-propylamine	< 200 ug/L		09/04/13 22:54	PSB	EPA 625 AR,IL,IA,KS, WI
Hexachloroethane	< 200 ug/L		09/04/13 22:54	PSB	EPA 625 AR,IL,IA,KS, WI
Nitrobenzene	< 200 ug/L		09/04/13 22:54	PSB	EPA 625 AR,IL,IA,KS, WI
Isophorone	< 200 ug/L		09/04/13 22:54	PSB	EPA 625 AR,IL,IA,KS, WI
2-Nitrophenol	< 200 ug/L		09/04/13 22:54	PSB	EPA 625 AR,IL,IA,KS, WI
2,4-Dimethylphenol	< 200 ug/L		09/04/13 22:54	PSB	EPA 625 AR,IL,IA,KS, WI
Bis(2-chloroethoxy) methane	< 200 ug/L		09/04/13 22:54	PSB	EPA 625 AR,IL,IA,KS, WI



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Customer #: 277310

**\*Revised Laboratory Results\***

Sample No: **3084381-07**  
Sample Description: **Field Blank**

Collect Date: **08/29/13 12:15**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b>Semivolatile Organics - PIA</b>					
2,4-Dichlorophenol	< 200 ug/L		09/04/13 22:54	PSB	EPA 625 AR,IL,IA,KS, WI
1,2,4-Trichlorobenzene	< 200 ug/L		09/04/13 22:54	PSB	EPA 625 AR,IL,IA,KS, WI
Naphthalene	< 200 ug/L		09/04/13 22:54	PSB	EPA 625 AR,IL,IA,KS, WI
Hexachlorobutadiene	< 200 ug/L		09/04/13 22:54	PSB	EPA 625 AR,IL,IA,KS, WI
4-Chloro-3-methylphenol	< 200 ug/L		09/04/13 22:54	PSB	EPA 625 AR,IL,IA,KS, WI
Hexachlorocyclopentadiene	< 1000 ug/L		09/04/13 22:54	PSB	EPA 625 AR,IL,IA,KS, WI
2,4,6-Trichlorophenol	< 1000 ug/L		09/04/13 22:54	PSB	EPA 625 AR,IL,IA,KS, WI
2-Chloronaphthalene	< 200 ug/L		09/04/13 22:54	PSB	EPA 625 AR,IL,IA,KS, WI
Dimethyl phthalate	< 200 ug/L		09/04/13 22:54	PSB	EPA 625 AR,IL,IA,KS, WI
2,6-Dinitrotoluene	< 200 ug/L		09/04/13 22:54	PSB	EPA 625 AR,IL,IA,KS, WI
Acenaphthylene	< 200 ug/L		09/04/13 22:54	PSB	EPA 625 AR,IL,IA,KS, WI
Acenaphthene	< 200 ug/L		09/04/13 22:54	PSB	EPA 625 AR,IL,IA,KS, WI
2,4-Dinitrophenol	< 1000 ug/L		09/04/13 22:54	PSB	EPA 625 AR,IL,IA,KS, WI
4-Nitrophenol	< 1000 ug/L		09/04/13 22:54	PSB	EPA 625 AR,IL,IA,KS, WI
2,4-Dinitrotoluene	< 200 ug/L		09/04/13 22:54	PSB	EPA 625 AR,IL,IA,KS, WI
Diethyl phthalate	< 200 ug/L		09/04/13 22:54	PSB	EPA 625 AR,IL,IA,KS, WI
Fluorene	< 200 ug/L		09/04/13 22:54	PSB	EPA 625 AR,IL,IA,KS, WI
4-Chlorophenylphenyl ether	< 200 ug/L		09/04/13 22:54	PSB	EPA 625 AR,IL,IA,KS, WI
4,6-Dinitro-2-methylphenol	< 1000 ug/L		09/04/13 22:54	PSB	EPA 625 AR,IL,IA,KS, WI
N-Nitrosodiphenylamine	< 200 ug/L		09/04/13 22:54	PSB	EPA 625 AR,IL,IA,KS, WI
1,2-Diphenylhydrazine	< 200 ug/L		09/04/13 22:54	PSB	EPA 625 AR,IL
4-Bromophenyl phenyl ether	< 200 ug/L		09/04/13 22:54	PSB	EPA 625 AR,IL,IA,KS, WI



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(314) 432-0550 • (800) 333-FAST • FAX (314) 432-4977



Bridgeton Landfill  
13570 St Charles Rock Road  
St. Louis, MO 63044  
Attn: Dan Feezor

Date Received: 08/29/13 15:47  
Report Date: 09/11/13  
Customer #: 277310

**\*Revised Laboratory Results\***

Sample No: **3084381-07**  
Sample Description: **Field Blank**

Collect Date: **08/29/13 12:15**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b><u>Semivolatile Organics - PIA</u></b>					
Hexachlorobenzene	< 200 ug/L		09/04/13 22:54	PSB	EPA 625 AR,IL,IA,KS, WI
Pentachlorophenol	< 1000 ug/L		09/04/13 22:54	PSB	EPA 625 AR,IL,IA,KS, WI
Phenanthrene	< 200 ug/L		09/04/13 22:54	PSB	EPA 625 AR,IL,IA,KS, WI
Anthracene	< 200 ug/L		09/04/13 22:54	PSB	EPA 625 AR,IL,IA,KS, WI
Di-n-butyl phthalate	< 200 ug/L		09/04/13 22:54	PSB	EPA 625 AR,IL,IA,KS, WI
Fluoranthene	< 200 ug/L		09/04/13 22:54	PSB	EPA 625 AR,IL,IA,KS, WI
Benzidine	< 1600 ug/L		09/04/13 22:54	PSB	EPA 625 AR,IL,IA,KS, WI
Pyrene	< 200 ug/L		09/04/13 22:54	PSB	EPA 625 AR,IL,IA,KS, WI
Butyl benzyl phthalate	< 200 ug/L		09/04/13 22:54	PSB	EPA 625 AR,IL,IA,KS, WI
Benzo(a)anthracene	< 200 ug/L		09/04/13 22:54	PSB	EPA 625 AR,IL,IA,KS, WI
3,3'-Dichlorobenzidine	< 400 ug/L		09/04/13 22:54	PSB	EPA 625 AR,IL,IA,KS, WI
Chrysene	< 200 ug/L		09/04/13 22:54	PSB	EPA 625 AR,IL,IA,KS, WI
Bis(2-ethylhexyl) phthalate	< 200 ug/L		09/04/13 22:54	PSB	EPA 625 AR,IL,IA,KS, WI
Di-n-octyl phthalate	< 200 ug/L		09/04/13 22:54	PSB	EPA 625 AR,IL,IA,KS, WI
Benzo(b)fluoranthene	< 200 ug/L		09/04/13 22:54	PSB	EPA 625 AR,IL,IA,KS, WI
2,3,7,8-TCDD Screen	< 1000 ug/L		09/04/13 22:54	PSB	EPA 625*
Benzo(k)fluoranthene	< 200 ug/L		09/04/13 22:54	PSB	EPA 625 AR,IL,IA,KS, WI
Benzo(a)pyrene	< 200 ug/L		09/04/13 22:54	PSB	EPA 625 AR,IL,IA,KS, WI
Indeno(1,2,3-cd)pyrene	< 200 ug/L		09/04/13 22:54	PSB	EPA 625 AR,IL,IA,KS, WI
Dibenzo(a,h)anthracene	< 200 ug/L		09/04/13 22:54	PSB	EPA 625 AR,IL,IA,KS, WI
Benzo(g,h,i)perylene	< 200 ug/L		09/04/13 22:54	PSB	EPA 625 AR,IL,IA,KS, WI
<b><u>Soluble Metals - STL</u></b>					
Silicon as SiO2	< 0.11 mg/L		09/04/13 14:11	WPS	EPA 200.7 R4.4

3084381



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Customer #: 277310

**\*Revised Laboratory Results\***

Sample No: **3084381-07**  
Sample Description: **Field Blank**

Collect Date: **08/29/13 12:15**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b><u>Soluble Metals - STL</u></b>					
Aluminum	< 0.015 mg/L		09/04/13 14:11	WPS	EPA 200.7 R4.4*
Mercury	< 0.0002 mg/L		09/04/13 12:33	WPS	EPA 245.1 R3.0 / SW 7470A 04KS
Antimony	< 0.010 mg/L		09/04/13 14:11	WPS	EPA 200.7 R4.4 04KS
Copper	< 0.0020 mg/L		09/04/13 14:11	WPS	EPA 200.7 R4.4 04KS
Silver	< 0.0020 mg/L		09/04/13 14:11	WPS	EPA 200.7 R4.4 04KS
Arsenic	< 0.015 mg/L		09/04/13 14:11	WPS	EPA 200.7 R4.4 04KS
Barium	< 0.010 mg/L		09/04/13 14:11	WPS	EPA 200.7 R4.4 04KS
Beryllium	< 0.0010 mg/L		09/04/13 14:11	WPS	EPA 200.7 R4.4 04KS
Boron	< 0.050 mg/L		09/04/13 14:11	WPS	EPA 200.7 R4.4*
Cadmium	< 0.0020 mg/L		09/04/13 14:11	WPS	EPA 200.7 R4.4 04KS
Calcium	< 0.095 mg/L		09/04/13 14:11	WPS	EPA 200.7 R4.4 04KS
Chromium	< 0.0020 mg/L		09/04/13 14:11	WPS	EPA 200.7 R4.4 04KS
Cobalt	< 0.0020 mg/L		09/04/13 14:11	WPS	EPA 200.7 R4.4 04KS
Iron	< 0.010 mg/L	B1	09/04/13 14:11	WPS	EPA 200.7 R4.4 04KS
Lead	< 0.010 mg/L		09/04/13 14:11	WPS	EPA 200.7 R4.4 04KS
Magnesium	< 0.050 mg/L		09/04/13 14:11	WPS	EPA 200.7 R4.4 04KS
Manganese	< 0.0030 mg/L		09/04/13 14:11	WPS	EPA 200.7 R4.4 04KS
Molybdenum	< 0.012 mg/L		09/04/13 14:11	WPS	EPA 200.7 R4.4 04KS
Nickel	< 0.0020 mg/L		09/04/13 14:11	WPS	EPA 200.7 R4.4 04KS
Potassium	< 0.050 mg/L		09/04/13 14:11	WPS	EPA 200.7 R4.4*
Selenium	< 0.010 mg/L		09/04/13 14:11	WPS	EPA 200.7 R4.4 04KS
Sodium	< 0.10 mg/L		09/04/13 14:11	WPS	EPA 200.7 R4.4*
Thallium	< 0.020 mg/L		09/04/13 14:11	WPS	EPA 200.7 R4.4 04KS
Vanadium	< 0.0020 mg/L		09/04/13 14:11	WPS	EPA 200.7 R4.4 04KS
Zinc	< 0.010 mg/L		09/04/13 14:11	WPS	EPA 200.7 R4.4 04KS
Silicon	< 0.050 mg/L		09/04/13 14:11	WPS	EPA 200.7 R4.4*
<b><u>Total Metals - STL</u></b>					
Silicon as SiO2	< 0.11 mg/L		09/04/13 14:15	WPS	EPA 200.7 R4.4
Aluminum	< 0.015 mg/L	B1	09/04/13 14:15	WPS	EPA 200.7 R4.4*
Mercury	< 0.0002 mg/L		09/04/13 12:33	WPS	EPA 245.1 R3.0 / SW 7470A 04KS
Antimony	< 0.010 mg/L		09/04/13 14:15	WPS	EPA 200.7 R4.4 04KS
Silicon	< 0.050 mg/L		09/04/13 14:15	WPS	EPA 200.7 R4.4*



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Attn: Dan Feezor

Date Received: 08/29/13 15:47  
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Customer #: 277310

**\*Revised Laboratory Results\***

Sample No: **3084381-07**  
Sample Description: **Field Blank**

Collect Date: **08/29/13 12:15**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b>Total Metals - STL</b>					
Arsenic	< 0.015 mg/L		09/04/13 14:15	WPS	EPA 200.7 R4.4 04KS
Barium	< 0.010 mg/L		09/04/13 14:15	WPS	EPA 200.7 R4.4 04KS
Beryllium	< 0.0010 mg/L		09/04/13 14:15	WPS	EPA 200.7 R4.4 04KS
Hardness	< 0.25 mg/L		09/04/13 14:15	WPS	SM 2340B
Boron	< 0.050 mg/L		09/04/13 14:15	WPS	EPA 200.7 R4.4*
Cadmium	< 0.0020 mg/L		09/04/13 14:15	WPS	EPA 200.7 R4.4 04KS
Calcium	< 0.095 mg/L		09/04/13 14:15	WPS	EPA 200.7 R4.4 04KS
Chromium	< 0.0020 mg/L		09/04/13 14:15	WPS	EPA 200.7 R4.4 04KS
Cobalt	< 0.0020 mg/L		09/04/13 14:15	WPS	EPA 200.7 R4.4 04KS
Copper	< 0.0020 mg/L		09/04/13 14:15	WPS	EPA 200.7 R4.4 04KS
Iron	< 0.010 mg/L	B1	09/04/13 14:15	WPS	EPA 200.7 R4.4 04KS
Lead	< 0.010 mg/L		09/04/13 14:15	WPS	EPA 200.7 R4.4 04KS
Magnesium	< 0.050 mg/L		09/04/13 14:15	WPS	EPA 200.7 R4.4 04KS
Manganese	< 0.0030 mg/L		09/04/13 14:15	WPS	EPA 200.7 R4.4 04KS
Molybdenum	< 0.012 mg/L		09/04/13 14:15	WPS	EPA 200.7 R4.4 04KS
Nickel	< 0.0020 mg/L		09/04/13 14:15	WPS	EPA 200.7 R4.4 04KS
Potassium	< 0.050 mg/L		09/04/13 14:15	WPS	EPA 200.7 R4.4*
Selenium	< 0.010 mg/L		09/04/13 14:15	WPS	EPA 200.7 R4.4 04KS
Silver	< 0.0020 mg/L		09/04/13 14:15	WPS	EPA 200.7 R4.4 04KS
Sodium	< 0.20 mg/L		09/04/13 14:15	WPS	EPA 200.7 R4.4*
Thallium	< 0.020 mg/L		09/04/13 14:15	WPS	EPA 200.7 R4.4 04KS
Vanadium	< 0.0020 mg/L		09/04/13 14:15	WPS	EPA 200.7 R4.4 04KS
Zinc	< 0.010 mg/L		09/04/13 14:15	WPS	EPA 200.7 R4.4 04KS

Sample No: **3084381-08**  
Sample Description: **Location 6**

Collect Date: **08/29/13 11:22**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b>Anions - STL</b>					
Chloride	5200 mg/L		09/03/13 20:31	DWM	EPA 300.0 R2.1 04KS
Nitrate-N	< 50 mg/L	X	08/30/13 19:55	DWM	EPA 300.0 R2.1 04KS
Nitrite-N	< 50 mg/L	X	08/30/13 19:55	DWM	EPA 300.0 R2.1 04KS

3084381



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Customer #: 277310

**\*Revised Laboratory Results\***

Sample No: **3084381-08**  
Sample Description: **Location 6**

Collect Date: **08/29/13 11:22**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method	
<b><u>Anions - STL</u></b>						
Sulfate	630 mg/L		09/03/13 20:31	DWM	EPA 300.0 R2.1	04KS
<b><u>General Chemistry - PIA</u></b>						
Total Organic Carbon (TOC)	17000 mg/L		09/04/13 23:05	Igpi	5310C	KS,IL,IA,WI,AR
<b><u>General Chemistry - STL</u></b>						
Alkalinity - total as CaCO3	9500 mg/L		08/29/13 17:00	ACV	SM 2320B 18Ed*	
BOD	30000 mg/L		08/30/13 08:40	DAW	SM 5210B 18Ed	04KS
BOD - soluble	28000 mg/L		08/30/13 08:40	DAW	SM 5210B 18Ed*	
COD	52000 mg/L		08/30/13 11:00	DAW	SM 5220D 18Ed	04KS
Cyanide	0.0090 mg/L		09/03/13 12:00	DWM	SM 4500-CN C E 18Ed*	
Cyanide - amenable	< 0.0050 mg/L		09/05/13 08:00	DWM	SM 4500CN CG 18Ed*	
Cyanide - weak acid dissociable	0.010 mg/L		09/05/13 11:00	DWM	ASTM 1310-86*	
Oil & Grease - total	< 5.1 mg/L		09/03/13 09:00	mep	EPA 1664A	04KS
Phenol	61 mg/L		09/03/13 07:26	DWM	EPA 420.1	04KS
Solids - total dissolved solids (TDS)	49000 mg/L		08/30/13 15:30	DAW	SM 2540C 18Ed*	
Solids - total suspended solids (TSS)	32 mg/L		08/30/13 12:50	DAW	SM 2540D 18Ed	04KS
<b><u>Nutrients - PIA</u></b>						
Total Kjeldahl Nitrogen (TKN)	1200 mg/L		09/04/13 15:19	Igbrs	SM 4500-N B & NH3-H 18Ed MOD	IL,IA,WI,AR
<b><u>Nutrients - STL</u></b>						
Ammonia-N	880 mg/L		08/29/13 16:00	ACV	SM(18) 4500 NH3 F	04KS
Phosphorus - ortho as P	< 5.0 mg/L	H	09/04/13 11:00	ACV	SM 4500P B E 18ed*	
Phosphorus - total as P	< 5.0 mg/L		09/04/13 16:00	ACV	SM 4500P B E 18ed	04KS
<b><u>Semivolatile Organics - PIA</u></b>						
N-Nitrosodimethylamine	< 1000 ug/L		09/04/13 23:23	PSB	EPA 625	AR,IL,IA,KS,WI
Phenol	10000 ug/L		09/05/13 22:44	SNS	EPA 625	AR,IL,IA,KS,WI
Bis(2-chloroethyl) ether	< 1000 ug/L		09/04/13 23:23	PSB	EPA 625	AR,IL,IA,KS,WI
2-Chlorophenol	< 1000 ug/L		09/04/13 23:23	PSB	EPA 625	AR,IL,IA,KS,WI



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**\*Revised Laboratory Results\***

Sample No: **3084381-08**  
Sample Description: **Location 6**

Collect Date: **08/29/13 11:22**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method	
<b>Semivolatile Organics - PIA</b>						
1,3-Dichlorobenzene	< 1000 ug/L		09/04/13 23:23	PSB	EPA 625	AR,IL,IA,WI
1,4-Dichlorobenzene	< 1000 ug/L		09/04/13 23:23	PSB	EPA 625	AR,IL,IA,WI
1,2-Dichlorobenzene	< 1000 ug/L		09/04/13 23:23	PSB	EPA 625	AR,IL,IA,WI
Bis(2-chloroisopropyl) ether	< 1000 ug/L		09/04/13 23:23	PSB	EPA 625	AR,IL,IA,KS, WI
N-Nitrosodi-n-propylamine	< 1000 ug/L		09/04/13 23:23	PSB	EPA 625	AR,IL,IA,KS, WI
Hexachloroethane	< 1000 ug/L		09/04/13 23:23	PSB	EPA 625	AR,IL,IA,KS, WI
Nitrobenzene	< 1000 ug/L		09/04/13 23:23	PSB	EPA 625	AR,IL,IA,KS, WI
Isophorone	< 1000 ug/L		09/04/13 23:23	PSB	EPA 625	AR,IL,IA,KS, WI
2-Nitrophenol	< 1000 ug/L		09/04/13 23:23	PSB	EPA 625	AR,IL,IA,KS, WI
2,4-Dimethylphenol	< 1000 ug/L		09/04/13 23:23	PSB	EPA 625	AR,IL,IA,KS, WI
Bis(2-chloroethoxy) methane	< 1000 ug/L		09/04/13 23:23	PSB	EPA 625	AR,IL,IA,KS, WI
2,4-Dichlorophenol	< 1000 ug/L		09/04/13 23:23	PSB	EPA 625	AR,IL,IA,KS, WI
1,2,4-Trichlorobenzene	< 1000 ug/L		09/04/13 23:23	PSB	EPA 625	AR,IL,IA,KS, WI
Naphthalene	< 1000 ug/L		09/04/13 23:23	PSB	EPA 625	AR,IL,IA,KS, WI
Hexachlorobutadiene	< 1000 ug/L		09/04/13 23:23	PSB	EPA 625	AR,IL,IA,KS, WI
4-Chloro-3-methylphenol	< 1000 ug/L		09/04/13 23:23	PSB	EPA 625	AR,IL,IA,KS, WI
Hexachlorocyclopentadiene	< 5000 ug/L		09/04/13 23:23	PSB	EPA 625	AR,IL,IA,KS, WI
2,4,6-Trichlorophenol	< 5000 ug/L		09/04/13 23:23	PSB	EPA 625	AR,IL,IA,KS, WI
2-Chloronaphthalene	< 1000 ug/L		09/04/13 23:23	PSB	EPA 625	AR,IL,IA,KS, WI
Dimethyl phthalate	< 1000 ug/L		09/04/13 23:23	PSB	EPA 625	AR,IL,IA,KS, WI
2,6-Dinitrotoluene	< 1000 ug/L		09/04/13 23:23	PSB	EPA 625	AR,IL,IA,KS, WI
Acenaphthylene	< 1000 ug/L		09/04/13 23:23	PSB	EPA 625	AR,IL,IA,KS, WI
Acenaphthene	< 1000 ug/L		09/04/13 23:23	PSB	EPA 625	AR,IL,IA,KS, WI

3084381





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Sample Description: **Location 6**

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Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b>Semivolatile Organics - PIA</b>					
2,4-Dinitrophenol	< 5000 ug/L		09/04/13 23:23	PSB	EPA 625 AR,IL,IA,KS, WI
4-Nitrophenol	< 5000 ug/L		09/04/13 23:23	PSB	EPA 625 AR,IL,IA,KS, WI
2,4-Dinitrotoluene	< 1000 ug/L		09/04/13 23:23	PSB	EPA 625 AR,IL,IA,KS, WI
Diethyl phthalate	< 1000 ug/L		09/04/13 23:23	PSB	EPA 625 AR,IL,IA,KS, WI
Fluorene	< 1000 ug/L		09/04/13 23:23	PSB	EPA 625 AR,IL,IA,KS, WI
4-Chlorophenylphenyl ether	< 1000 ug/L		09/04/13 23:23	PSB	EPA 625 AR,IL,IA,KS, WI
4,6-Dinitro-2-methylphenol	< 5000 ug/L		09/04/13 23:23	PSB	EPA 625 AR,IL,IA,KS, WI
N-Nitrosodiphenylamine	< 1000 ug/L		09/04/13 23:23	PSB	EPA 625 AR,IL,IA,KS, WI
1,2-Diphenylhydrazine	< 1000 ug/L		09/04/13 23:23	PSB	EPA 625 AR,IL
4-Bromophenyl phenyl ether	< 1000 ug/L		09/04/13 23:23	PSB	EPA 625 AR,IL,IA,KS, WI
Hexachlorobenzene	< 1000 ug/L		09/04/13 23:23	PSB	EPA 625 AR,IL,IA,KS, WI
Pentachlorophenol	< 5000 ug/L		09/04/13 23:23	PSB	EPA 625 AR,IL,IA,KS, WI
Phenanthrene	< 1000 ug/L		09/04/13 23:23	PSB	EPA 625 AR,IL,IA,KS, WI
Anthracene	< 1000 ug/L		09/04/13 23:23	PSB	EPA 625 AR,IL,IA,KS, WI
Di-n-butyl phthalate	< 1000 ug/L		09/04/13 23:23	PSB	EPA 625 AR,IL,IA,KS, WI
Fluoranthene	< 1000 ug/L		09/04/13 23:23	PSB	EPA 625 AR,IL,IA,KS, WI
Benzidine	< 8000 ug/L		09/04/13 23:23	PSB	EPA 625 AR,IL,IA,KS, WI
Pyrene	< 1000 ug/L		09/04/13 23:23	PSB	EPA 625 AR,IL,IA,KS, WI
Butyl benzyl phthalate	< 1000 ug/L		09/04/13 23:23	PSB	EPA 625 AR,IL,IA,KS, WI
Benzo(a)anthracene	< 1000 ug/L		09/04/13 23:23	PSB	EPA 625 AR,IL,IA,KS, WI
3,3'-Dichlorobenzidine	< 2000 ug/L		09/04/13 23:23	PSB	EPA 625 AR,IL,IA,KS, WI
Chrysene	< 1000 ug/L		09/04/13 23:23	PSB	EPA 625 AR,IL,IA,KS, WI



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Sample No: **3084381-08**  
Sample Description: **Location 6**

Collect Date: **08/29/13 11:22**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b><u>Semivolatile Organics - PIA</u></b>					
Bis(2-ethylhexyl) phthalate	< 1000 ug/L		09/04/13 23:23	PSB	EPA 625 AR,IL,IA,KS, WI
Di-n-octyl phthalate	< 1000 ug/L		09/04/13 23:23	PSB	EPA 625 AR,IL,IA,KS, WI
Benzo(b)fluoranthene	< 1000 ug/L		09/04/13 23:23	PSB	EPA 625 AR,IL,IA,KS, WI
2,3,7,8-TCDD Screen	< 5000 ug/L		09/04/13 23:23	PSB	EPA 625*
Benzo(k)fluoranthene	< 1000 ug/L		09/04/13 23:23	PSB	EPA 625 AR,IL,IA,KS, WI
Benzo(a)pyrene	< 1000 ug/L		09/04/13 23:23	PSB	EPA 625 AR,IL,IA,KS, WI
Indeno(1,2,3-cd)pyrene	< 1000 ug/L		09/04/13 23:23	PSB	EPA 625 AR,IL,IA,KS, WI
Dibenzo(a,h)anthracene	< 1000 ug/L		09/04/13 23:23	PSB	EPA 625 AR,IL,IA,KS, WI
Benzo(g,h,i)perylene	< 1000 ug/L		09/04/13 23:23	PSB	EPA 625 AR,IL,IA,KS, WI
<b><u>Soluble Metals - STL</u></b>					
Silicon as SiO2	63 mg/L		09/04/13 16:14	WPS	EPA 200.7 R4.4
Aluminum	< 0.15 mg/L		09/04/13 16:14	WPS	EPA 200.7 R4.4*
Mercury	< 0.0020 mg/L		09/04/13 12:33	WPS	EPA 245.1 R3.0 / SW 7470A 04KS
Antimony	0.10 mg/L		09/04/13 16:14	WPS	EPA 200.7 R4.4 04KS
Copper	0.033 mg/L		09/04/13 16:14	WPS	EPA 200.7 R4.4 04KS
Silver	< 0.020 mg/L		09/04/13 16:14	WPS	EPA 200.7 R4.4 04KS
Arsenic	0.39 mg/L		09/04/13 16:14	WPS	EPA 200.7 R4.4 04KS
Barium	1.6 mg/L		09/04/13 16:14	WPS	EPA 200.7 R4.4 04KS
Beryllium	< 0.010 mg/L		09/04/13 16:14	WPS	EPA 200.7 R4.4 04KS
Boron	18 mg/L		09/04/13 16:14	WPS	EPA 200.7 R4.4*
Cadmium	< 0.020 mg/L		09/04/13 16:14	WPS	EPA 200.7 R4.4 04KS
Calcium	3800 mg/L		09/04/13 15:13	WPS	EPA 200.7 R4.4 04KS
Chromium	0.11 mg/L		09/04/13 16:14	WPS	EPA 200.7 R4.4 04KS
Cobalt	0.027 mg/L		09/04/13 16:14	WPS	EPA 200.7 R4.4 04KS
Iron	6.3 mg/L	B2	09/04/13 16:14	WPS	EPA 200.7 R4.4 04KS
Lead	< 0.10 mg/L		09/04/13 16:14	WPS	EPA 200.7 R4.4 04KS
Magnesium	190 mg/L		09/04/13 15:13	WPS	EPA 200.7 R4.4 04KS
Manganese	1.2 mg/L		09/04/13 16:14	WPS	EPA 200.7 R4.4 04KS



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Bridgeton Landfill  
13570 St Charles Rock Road  
St. Louis, MO 63044  
Attn: Dan Feezor

Date Received: 08/29/13 15:47  
Report Date: 09/11/13  
Customer #: 277310

**\*Revised Laboratory Results\***

Sample No: **3084381-08**  
Sample Description: **Location 6**

Collect Date: **08/29/13 11:22**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b><u>Soluble Metals - STL</u></b>					
Molybdenum	< 0.12 mg/L		09/04/13 16:14	WPS	EPA 200.7 R4.4 04KS
Nickel	0.17 mg/L		09/04/13 16:14	WPS	EPA 200.7 R4.4 04KS
Potassium	700 mg/L		09/04/13 15:13	WPS	EPA 200.7 R4.4*
Selenium	< 0.10 mg/L		09/04/13 16:14	WPS	EPA 200.7 R4.4 04KS
Sodium	4800 mg/L		09/04/13 15:13	WPS	EPA 200.7 R4.4*
Thallium	< 0.20 mg/L		09/04/13 16:14	WPS	EPA 200.7 R4.4 04KS
Vanadium	< 0.020 mg/L		09/04/13 16:14	WPS	EPA 200.7 R4.4 04KS
Zinc	0.45 mg/L		09/04/13 16:14	WPS	EPA 200.7 R4.4 04KS
Silicon	29 mg/L		09/04/13 16:14	WPS	EPA 200.7 R4.4*
<b><u>Total Metals - STL</u></b>					
Silicon as SiO2	66 mg/L		09/04/13 16:18	WPS	EPA 200.7 R4.4
Aluminum	0.15 mg/L	B1	09/04/13 16:18	WPS	EPA 200.7 R4.4*
Mercury	< 0.0020 mg/L		09/04/13 12:33	WPS	EPA 245.1 R3.0 / SW 7470A 04KS
Antimony	< 0.10 mg/L		09/04/13 16:18	WPS	EPA 200.7 R4.4 04KS
Silicon	31 mg/L		09/04/13 16:18	WPS	EPA 200.7 R4.4*
Arsenic	0.59 mg/L		09/04/13 16:18	WPS	EPA 200.7 R4.4 04KS
Barium	1.7 mg/L		09/04/13 16:18	WPS	EPA 200.7 R4.4 04KS
Beryllium	< 0.010 mg/L		09/04/13 16:18	WPS	EPA 200.7 R4.4 04KS
Hardness	11000 mg/L		09/04/13 15:17	WPS	SM 2340B
Boron	19 mg/L		09/04/13 16:18	WPS	EPA 200.7 R4.4*
Cadmium	< 0.020 mg/L		09/04/13 16:18	WPS	EPA 200.7 R4.4 04KS
Calcium	4000 mg/L		09/04/13 15:17	WPS	EPA 200.7 R4.4 04KS
Chromium	0.12 mg/L		09/04/13 16:18	WPS	EPA 200.7 R4.4 04KS
Cobalt	0.039 mg/L		09/04/13 16:18	WPS	EPA 200.7 R4.4 04KS
Copper	0.030 mg/L		09/04/13 16:18	WPS	EPA 200.7 R4.4 04KS
Iron	6.8 mg/L	B2	09/04/13 16:18	WPS	EPA 200.7 R4.4 04KS
Lead	< 0.10 mg/L		09/04/13 16:18	WPS	EPA 200.7 R4.4 04KS
Magnesium	210 mg/L		09/04/13 15:17	WPS	EPA 200.7 R4.4 04KS
Manganese	1.3 mg/L		09/04/13 16:18	WPS	EPA 200.7 R4.4 04KS
Molybdenum	< 0.12 mg/L		09/04/13 16:18	WPS	EPA 200.7 R4.4 04KS
Nickel	0.17 mg/L		09/04/13 16:18	WPS	EPA 200.7 R4.4 04KS
Potassium	740 mg/L		09/04/13 15:17	WPS	EPA 200.7 R4.4*
Selenium	< 0.10 mg/L		09/04/13 16:18	WPS	EPA 200.7 R4.4 04KS



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Bridgeton Landfill  
13570 St Charles Rock Road  
St. Louis, MO 63044  
Attn: Dan Feezor

Date Received: 08/29/13 15:47  
Report Date: 09/11/13  
Customer #: 277310

**\*Revised Laboratory Results\***

Sample No: **3084381-08**  
Sample Description: **Location 6**

Collect Date: **08/29/13 11:22**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b><u>Total Metals - STL</u></b>					
Silver	< 0.020 mg/L		09/04/13 16:18	WPS	EPA 200.7 R4.4 04KS
Sodium	5100 mg/L		09/04/13 15:17	WPS	EPA 200.7 R4.4*
Thallium	< 0.20 mg/L		09/04/13 16:18	WPS	EPA 200.7 R4.4 04KS
Vanadium	< 0.020 mg/L		09/04/13 16:18	WPS	EPA 200.7 R4.4 04KS
Zinc	0.50 mg/L		09/04/13 16:18	WPS	EPA 200.7 R4.4 04KS



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Date Received: 08/29/13 15:47  
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Customer #: 277310

\*Revised Laboratory Results\*

**Notes**

This report shall not be reproduced, except in full, without the written approval of the laboratory.

PDC Laboratories participates in the following accreditation/certification and proficiency programs at the following locations. Endorsement by Federal or State Governments or their agencies is not implied.

- PIA PDC Laboratories - Peoria, IL
  - TNI Accreditation for Drinking Water, Wastewater, Hazardous and Solid Wastes Fields of Testing through IL EPA Lab No. 100230
  - Illinois Department of Public Health Bacteriological Analysis in Drinking Water Approved Laboratory Registry No. 17553
  - Drinking Water Certifications: Kansas (E-10338); Missouri (870); Wisconsin (998284430); Indiana (C-IL-040); Iowa (240)
  - Wastewater Certifications: Arkansas (88-0677); Wisconsin (998284430); Iowa (240); Kansas (E-10335)
  - Hazardous/Solid Waste Certifications: Arkansas (88-0677); Wisconsin (998284430); Iowa (240); Kansas (E-10335)
  - UST Certification; Iowa (240)
- SPM PDC Laboratories - Springfield, MO
  - EPA DMR-QA Program
- STL PDC Laboratories - St. Louis, MO
  - TNI Accreditation for Wastewater, Hazardous and Solid Wastes Fields of Testing through KS Lab No. E-10389

\* Not a TNI accredited analyte

- X CCV failed % recovery
- H Test performed after the expiration of the appropriate regulatory/advisory maximum allowable hold time.
- B2 Contamination does not impact data since sample result is greater than ten times the contamination level.
- B1 Blank contamination suspected and the sample result is less than MRL.

Certified by: Roxann Shull, Client Services Supervisor



**PDC Laboratories, Inc. – St. Louis**  
**3278 N. Highway 67 (Lindbergh)**  
**Florissant, MO 63033**  
 www.pdcclab.com

**CHAIN OF CUSTODY RECORD**  
 Phone (314) 432-0550 or (314) 921-4488  
 Fax (314) 432-4977

State where samples collected MO

(Instructions/Sample Acceptance Policy on Reverse)

ALL SHADED AREAS MUST BE COMPLETED BY CLIENT (PLEASE PRINT)

<b>1 CLIENT</b> <b>BARR ENGINEERING</b>		PROJECT NUMBER	P.O. NUMBER	MEANS SHIPPED										
ADDRESS <b>1001 DIAMOND RIDGE, SUITE 1100</b>		PHONE NUMBER	FAX NUMBER	EMAIL ADDRESS <b>egalbra@barr.com</b>										
CITY STATE ZIP <b>JEFF CITY, MO 65109</b>		SAMPLER <b>WILLIAM ABERNATHY</b>		MATRIX TYPES: WW-WASTEWATER DW-DRINKING WATER GW-GROUND WATER WW-SLUDGE NAS-SOLID LCHT-LEACHATE NAL-NON-AQUEOUS SOIL-SOILS										
CONTACT PERSON <b>ED GALBRATH 573-418-5562</b>		SAMPLER'S SIGNATURE <i>[Signature]</i>		ANALYSIS REQUESTED PHENOLS 420.1/DOC 4500B / SVOCs 6025 TOTAL METALS + 2007 DISS METALS LE 2007 TDS 2540C/133 2540D ALK 2300B N-N CL 504 P04 300.0 / DOC 1664 BOD-5SS 800 LF 5/100/ TKN 4500 NH3-D / AM CN 4500 C.Y.G COD 5200D / NH3 4500NH3-F TOTAL P 4500P-E MLSS / MLVSS										
<b>2 SAMPLE DESCRIPTION AS YOU WANT ON REPORT</b>		DATE COLLECTED	TIME COLLECTED	SAMPLE TYPE GRAB	MATRIX COMP	Bottle Count	<b>3 (FOR LAB USE ONLY)</b> LOGIN # <b>3084381</b> LOGGED BY: <b>HS</b> LAB PROJ. # TEMPLATE: PROJ. MGR.:							
							REMARKS							
12	1A	8/29/13	1115	✓	LCHT	12	3	2	1	2	3	1		
12	1D	8/29/13	1204	✓	LCHT	12	3	2	1	2	3	1		
12	1E	8/29/13	1137	✓	LCHT	12	3	2	1	2	3	1		
13	2	8/29/13	1150	✓	LCHT	13	4	2	1	2	3	1		
1	3	8/29/13	1215	✓	LCHT	1								
13	4	8/29/13	1210	✓	LCHT	13	4	2	1	2	3	1	1	
12	FIELD BLANK	8/29/13	1215	✓	DI	12	3	2	1	2	3	1		
12	6	8/29/13	1122	✓	LCHT	12	3	2	1	2	3	1		
12														
12														
<b>5 TURNAROUND TIME (RUSH TAT IS SUBJECT TO PDC LABS APPROVAL AND SURCHARGE)</b> NORMAL (8-10 Bus. Days) <u>RUSH (5 Bus. Days)</u> Fastrak™ (3 Bus. Days) 1-2 Bus. Days Same Day DATE DUE _____				The sample temperature will be measured upon receipt at the lab. By initialing this area, you request that the lab notify you, before proceeding with analysis, if the sample temperature is outside of the range of 0.1-6.0°C. By not initialing this area, you allow the lab to proceed with analytical testing regardless of the sample temperature.										
RESULTS BY: <u>E-MAIL</u> FAX PHONE CALL PHONE/FAX# IF DIFFERENT FROM ABOVE				<b>6</b>										
<b>7 RELINQUISHED BY: (SIGNATURE)</b> <i>[Signature]</i>		DATE	TIME	RECEIVED BY:		DATE	TIME	<b>8 COMMENTS: (FOR LAB USE ONLY)</b>						
RELINQUISHED BY: (SIGNATURE)		DATE	TIME	RECEIVED BY:		DATE	TIME	SAMPLE TEMPERATURE UPON RECEIPT CHILL PROCESS STARTED PRIOR TO RECEIPT SAMPLE(S) RECEIVED ON ICE PROPER BOTTLES RECEIVED IN GOOD CONDITION BOTTLES FILLED WITH ADEQUATE VOLUME SAMPLES RECEIVED WITHIN HOLD TIME(S) (EXCLUDES TYPICAL FIELD PARAMETERS) DATE AND TIME TAKEN FROM SAMPLE BOTTLE						
RELINQUISHED BY: (SIGNATURE)		DATE	TIME	RECEIVED BY:		DATE	TIME	FOR N YOR N YOR N YOR N						
RELINQUISHED BY: (SIGNATURE)		DATE	TIME	RECEIVED BY:		DATE	TIME	202						

Thank you for using PDC Laboratories, Inc. Locations in Peoria, IL; St. Louis, MO; and Springfield, MO

**SUBCONTRACT ORDER**

**PDC Laboratories, Inc.**

**3084381**

3084381-7 *RH*

**SENDING LABORATORY:**

- PDC Laboratories, Inc, 2231 W Altorfer Peoria, IL 61615
- PDC Laboratories, Inc, 1805 W Sunset, Springfield, MO 65807
- PDC Laboratories, Inc, 3278 N Highway 67, Florissant, MO 63033

Project Manager: Roxann Shull

rshull@pdclab.com Phone: 314-595-7337

Date Shipped 8/30/13

**RECEIVING LABORATORY:**

PDC Laboratories, Inc.  
PO Box 9071  
Peoria, IL 61612-9071  
Phone :(309) 692-9688

Sample Origin (State) MO

PO# \_\_\_\_\_

Total # of Containers 21

Analysis	Due	Expires	Comments
<b>Sample ID: 3084381-01    Water    Sampled:08/29/13 11:15</b>			
TKN	09/04/13 16:00	09/26/13 11:15	
TOC	09/04/13 16:00	09/26/13 11:15	
M625	09/04/13 16:00	09/05/13 11:15	
<b>Sample ID: 3084381-02    Water    Sampled:08/29/13 12:04</b>			
M625	09/04/13 16:00	09/05/13 12:04	
TKN	09/04/13 16:00	09/26/13 12:04	
TOC	09/04/13 16:00	09/26/13 12:04	
<b>Sample ID: 3084381-03    Water    Sampled:08/29/13 11:37</b>			
M625	09/04/13 16:00	09/05/13 11:37	
TKN	09/04/13 16:00	09/26/13 11:37	
TOC	09/04/13 16:00	09/26/13 11:37	

Turn-Around Time Requested (circle one): NORMAL **RUSH** Date Results Needed: 9/4/13

Relinquished By	Date/Time	Received By	Date/Time	Sample Temperature Upon Receipt	<u>9</u> C
<i>Heather Carhart</i>	<u>8/29/13</u>	<i>[Signature]</i>	<u>8/31/13 820</u>	Sample(s) Received on Ice	<input checked="" type="checkbox"/> or N
Relinquished By	Date/Time	Received By	Date/Time	Proper Bottles Received in Good Condition	<input checked="" type="checkbox"/> or N
				Bottles Filled with Adequate Volume	<input checked="" type="checkbox"/> or N
				Samples Received Within Hold Time	<input checked="" type="checkbox"/> or N
				Date/Time Taken From Sample Bottle	<input checked="" type="checkbox"/> or N

**SUBCONTRACT ORDER**

PDC Laboratories, Inc.

**3084381**

Analysis	Due	Expires	Comments
<b>Sample ID: 3084381-04      Water      Sampled:08/29/13 11:50</b>			
TOC	09/04/13 16:00	09/26/13 11:50	
TKN	09/04/13 16:00	09/26/13 11:50	
M625	09/04/13 16:00	09/05/13 11:50	
<b>Sample ID: 3084381-06      Water      Sampled:08/29/13 12:10</b>			
M625	09/04/13 16:00	09/05/13 12:10	
TKN	09/04/13 16:00	09/26/13 12:10	
TOC	09/04/13 16:00	09/26/13 12:10	
<b>Sample ID: 3084381-07      Water      Sampled:08/29/13 12:15</b>			
M625	09/04/13 16:00	09/05/13 12:15	
TKN	09/04/13 16:00	09/26/13 12:15	
TOC	09/04/13 16:00	09/26/13 12:15	
<b>Sample ID: 3084381-08      Water      Sampled:08/29/13 11:22</b>			
TOC	09/04/13 16:00	09/26/13 11:22	
M625	09/04/13 16:00	09/05/13 11:22	
TKN	09/04/13 16:00	09/26/13 11:22	

Turn-Around Time Requested (circle one):    NORMAL    **RUSH**    Date Results Needed: 9/4/13

<i>Heather Coalcut 8/29/13</i>		Sample Temperature Upon Receipt	___ C
Relinquished By	Date/Time	Received By	Date/Time
Relinquished By	Date/Time	Received By	Date/Time
		Sample(s) Received on Ice	Y or N
		Proper Bottles Received in Good Condition	Y or N
		Bottles Filled with Adequate Volume	Y or N
		Samples Received Within Hold Time	Y or N
		Date/Time Taken From Sample Bottle	Y or N





**PDC Laboratories, Inc.**

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Bridgeton Landfill  
13570 St Charles Rock Road  
St. Louis, MO 63044  
Attn: Ed Galbraith

Date Received: 08/29/13 14:56  
Report Date: 09/11/13  
Customer #: 277310

**\*Laboratory Results\***

Sample No: **3084458-01**  
Sample Description: **TCLP I/IV A**

Collect Date: **08/27/13 12:15**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method	
<b>General Chemistry - PIA</b>						
Total Organic Carbon (TOC)	22000 mg/L		09/04/13 23:13	Igpi	5310C	KS,IL,IA,WI,AR
<b>General Chemistry - STL</b>						
Solids - total solids (TS)	61000 mg/L		08/30/13 13:15	ACV	SM 2540B 18Ed*	
<b>Semivolatile Organics - PIA</b>						
N-Nitrosodimethylamine	33000 ug/L		09/06/13 16:03	SNS	SW 8270C	IL,AR,IA,KS,WI
Pyridine	< 2000 ug/L		09/06/13 16:03	SNS	SW 8270C	IL,AR,IA,KS,WI
Phenol	19000 ug/L		09/06/13 16:03	SNS	SW 8270C	IL,AR,IA,KS,WI
Aniline	< 2000 ug/L		09/06/13 16:03	SNS	SW 8270C	IL,AR,KS,WI
Bis(2-chloroethyl) ether	< 2000 ug/L		09/06/13 16:03	SNS	SW 8270C	IL,AR,IA,KS,WI
2-Chlorophenol	< 2000 ug/L		09/06/13 16:03	SNS	SW 8270C	IL,AR,IA,KS,WI
1,3-Dichlorobenzene	< 2000 ug/L		09/06/13 16:03	SNS	SW 8270C	IL,AR,IA,KS,WI
1,4-Dichlorobenzene	< 2000 ug/L		09/06/13 16:03	SNS	SW 8270C	IL,AR,IA,KS,WI
Benzyl alcohol	7600 ug/L		09/06/13 16:03	SNS	SW 8270C	IL,AR,IA,KS,WI
1,2-Dichlorobenzene	< 2000 ug/L		09/06/13 16:03	SNS	SW 8270C	IL,AR,IA,KS,WI
2-Methylphenol	< 2000 ug/L		09/06/13 16:03	SNS	SW 8270C	IL,AR,IA,KS,WI
Bis(2-chloroisopropyl) ether	< 2000 ug/L		09/06/13 16:03	SNS	SW 8270C	IL,AR,IA,KS,WI
N-Nitrosodi-n-propylamine	< 2000 ug/L		09/06/13 16:03	SNS	SW 8270C	IL,AR,IA,KS,WI
3- & 4-Methylphenol	11000 ug/L		09/06/13 16:03	SNS	SW 8270C	IL,AR,IA,KS,WI
Hexachloroethane	< 2000 ug/L		09/06/13 16:03	SNS	SW 8270C	IL,AR,IA,KS,WI
Nitrobenzene	< 2000 ug/L		09/06/13 16:03	SNS	SW 8270C	IL,AR,IA,KS,WI
Isophorone	< 2000 ug/L		09/06/13 16:03	SNS	SW 8270C	IL,AR,IA,KS,WI
2-Nitrophenol	< 2000 ug/L		09/06/13 16:03	SNS	SW 8270C	IL,AR,IA,KS,WI
2,4-Dimethylphenol	< 2000 ug/L		09/06/13 16:03	SNS	SW 8270C	IL,AR,IA,KS,WI

3084458



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Date Received: 08/29/13 14:56  
Report Date: 09/11/13  
Customer #: 277310

**\*Laboratory Results\***

Sample No: **3084458-01**  
Sample Description: **TCLP I/IV A**

Collect Date: **08/27/13 12:15**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b>Semivolatile Organics - PIA</b>					
Bis(2-chloroethoxy) methane	< 2000 ug/L		09/06/13 16:03	SNS	SW 8270C IL,AR,IA,KS, WI
2,4-Dichlorophenol	< 2000 ug/L		09/06/13 16:03	SNS	SW 8270C IL,AR,IA,KS, WI
1,2,4-Trichlorobenzene	< 2000 ug/L		09/06/13 16:03	SNS	SW 8270C IL,AR,IA,KS, WI
1,2,4,5-Tetrachlorobenzene	< 2000 ug/L		09/06/13 16:03	SNS	SW 8270C IL,AR,KS,WI
Naphthalene	< 2000 ug/L		09/06/13 16:03	SNS	SW 8270C IL,AR,IA,KS, WI
4-Chloroaniline	< 2000 ug/L		09/06/13 16:03	SNS	SW 8270C IL,AR,IA,KS, WI
2,6-Dichlorophenol	< 2000 ug/L		09/06/13 16:03	SNS	SW 8270C IL,AR,IA,KS, WI
Hexachlorobutadiene	< 2000 ug/L		09/06/13 16:03	SNS	SW 8270C IL,AR,IA,KS, WI
4-Chloro-3-methylphenol	< 2000 ug/L		09/06/13 16:03	SNS	SW 8270C IL,AR,IA,KS, WI
2-Methylnaphthalene	< 2000 ug/L		09/06/13 16:03	SNS	SW 8270C IL,AR,IA,KS, WI
Hexachlorocyclopentadiene	< 2000 ug/L		09/06/13 16:03	SNS	SW 8270C IL,AR,IA,KS, WI
2,4,6-Trichlorophenol	< 10000 ug/L		09/06/13 16:03	SNS	SW 8270C IL,AR,IA,KS, WI
2,4,5-Trichlorophenol	< 10000 ug/L		09/06/13 16:03	SNS	SW 8270C IL,AR,IA,KS, WI
2-Chloronaphthalene	< 2000 ug/L		09/06/13 16:03	SNS	SW 8270C IL,AR,IA,KS, WI
2-Nitroaniline	< 10000 ug/L		09/06/13 16:03	SNS	SW 8270C IL,AR,IA,KS, WI
Dimethyl phthalate	< 2000 ug/L		09/06/13 16:03	SNS	SW 8270C IL,AR,IA,KS, WI
2,6-Dinitrotoluene	< 2000 ug/L		09/06/13 16:03	SNS	SW 8270C IL,AR,IA,KS, WI
Acenaphthylene	< 2000 ug/L		09/06/13 16:03	SNS	SW 8270C IL,AR,IA,KS, WI
3-Nitroaniline	< 10000 ug/L		09/06/13 16:03	SNS	SW 8270C IL,AR,IA,KS, WI
Acenaphthene	< 2000 ug/L		09/06/13 16:03	SNS	SW 8270C IL,AR,IA,KS, WI
2,4-Dinitrophenol	< 10000 ug/L		09/06/13 16:03	SNS	SW 8270C IL,AR,IA,KS, WI
4-Nitrophenol	< 10000 ug/L		09/06/13 16:03	SNS	SW 8270C IL,AR,IA,KS, WI



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Date Received: 08/29/13 14:56  
Report Date: 09/11/13  
Customer #: 277310

**\*Laboratory Results\***

Sample No: **3084458-01**  
Sample Description: **TCLP I/IV A**

Collect Date: **08/27/13 12:15**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b>Semivolatile Organics - PIA</b>					
Dibenzofuran	< 2000 ug/L		09/06/13 16:03	SNS	SW 8270C IL,AR,IA,KS, WI
2,4-Dinitrotoluene	< 2000 ug/L		09/06/13 16:03	SNS	SW 8270C IL,AR,IA,KS, WI
2,3,4,6-Tetrachlorophenol	< 2000 ug/L		09/06/13 16:03	SNS	SW 8270C IL,AR,KS,WI
Diethyl phthalate	< 2000 ug/L		09/06/13 16:03	SNS	SW 8270C IL,AR,IA,KS, WI
Fluorene	< 2000 ug/L		09/06/13 16:03	SNS	SW 8270C IL,AR,IA,KS, WI
4-Chlorophenylphenyl ether	< 2000 ug/L		09/06/13 16:03	SNS	SW 8270C IL,AR,IA,KS, WI
4-Nitroaniline	< 10000 ug/L		09/06/13 16:03	SNS	SW 8270C IL,AR,IA,KS, WI
4,6-Dinitro-2-methylphenol	< 10000 ug/L		09/06/13 16:03	SNS	SW 8270C IL,AR,IA,KS, WI
N-Nitrosodiphenylamine	< 2000 ug/L		09/06/13 16:03	SNS	SW 8270C IL,AR,KS,WI
Diphenylamine	< 2000 ug/L		09/06/13 16:03	SNS	SW 8270C IL,AR
1,2-Diphenylhydrazine	< 2000 ug/L		09/06/13 16:03	SNS	SW 8270C IL,AR,KS
4-Bromophenyl phenyl ether	< 2000 ug/L		09/06/13 16:03	SNS	SW 8270C IL,AR,IA,KS, WI
Hexachlorobenzene	< 2000 ug/L		09/06/13 16:03	SNS	SW 8270C IL,AR,IA,KS, WI
Pentachlorophenol	< 10000 ug/L		09/06/13 16:03	SNS	SW 8270C IL,AR,IA,KS, WI
Phenanthrene	< 2000 ug/L		09/06/13 16:03	SNS	SW 8270C IL,AR,IA,KS, WI
Anthracene	< 2000 ug/L		09/06/13 16:03	SNS	SW 8270C IL,AR,IA,KS, WI
Di-n-butyl phthalate	< 2000 ug/L		09/06/13 16:03	SNS	SW 8270C IL,AR,IA,KS, WI
Fluoranthene	< 2000 ug/L		09/06/13 16:03	SNS	SW 8270C IL,AR,IA,KS, WI
Benzidine	< 16000 ug/L		09/06/13 16:03	SNS	SW 8270C IL,AR,KS,WI
Pyrene	< 2000 ug/L		09/06/13 16:03	SNS	SW 8270C IL,AR,IA,KS, WI
Butyl benzyl phthalate	< 2000 ug/L		09/06/13 16:03	SNS	SW 8270C IL,AR,IA,KS, WI
Benzo(a)anthracene	< 2000 ug/L		09/06/13 16:03	SNS	SW 8270C IL,AR,IA,KS, WI
3,3'-Dichlorobenzidine	< 4000 ug/L		09/06/13 16:03	SNS	SW 8270C IL,AR,IA,KS, WI



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Bridgeton Landfill  
13570 St Charles Rock Road  
St. Louis, MO 63044  
Attn: Ed Galbraith

Date Received: 08/29/13 14:56  
Report Date: 09/11/13  
Customer #: 277310

**\*Laboratory Results\***

Sample No: **3084458-01**  
Sample Description: **TCLP I/IV A**

Collect Date: **08/27/13 12:15**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b><u>Semivolatile Organics - PIA</u></b>					
Chrysene	< 2000 ug/L		09/06/13 16:03	SNS	SW 8270C IL,AR,IA,KS, WI
Bis(2-ethylhexyl) phthalate	< 2000 ug/L		09/06/13 16:03	SNS	SW 8270C IL,AR,IA,KS, WI
Di-n-octyl phthalate	< 2000 ug/L		09/06/13 16:03	SNS	SW 8270C IL,AR,IA,KS, WI
Benzo(b)fluoranthene	< 2000 ug/L		09/06/13 16:03	SNS	SW 8270C IL,AR,IA,KS, WI
Benzo(k)fluoranthene	< 2000 ug/L		09/06/13 16:03	SNS	SW 8270C IL,AR,IA,KS, WI
Benzo(a)pyrene	< 2000 ug/L		09/06/13 16:03	SNS	SW 8270C IL,AR,IA,KS, WI
Cresols- Total	< 4000 ug/L		09/06/13 16:03	SNS	SW 8270C*
3-Methylcholanthrene	< 2000 ug/L		09/06/13 16:03	SNS	SW 8270C IL,AR,KS,WI
Indeno(1,2,3-cd)pyrene	< 2000 ug/L		09/06/13 16:03	SNS	SW 8270C IL,AR,IA,KS, WI
Dibenzo(a,h)anthracene	< 2000 ug/L		09/06/13 16:03	SNS	SW 8270C IL,AR,IA,KS, WI
Benzo(g,h,i)perylene	< 2000 ug/L		09/06/13 16:03	SNS	SW 8270C IL,AR,IA,KS, WI
<b><u>Volatile Organics - STL</u></b>					
1,1,1,2-Tetrachloroethane	< 120 ug/L		09/06/13 01:10	BP	SW 8260B 04KS
1,1,1-Trichloroethane	< 120 ug/L		09/06/13 01:10	BP	SW 8260B 04KS
1,1,2,2-Tetrachloroethane	< 120 ug/L		09/06/13 01:10	BP	SW 8260B 04KS
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon)	< 250 ug/L		09/06/13 01:10	BP	SW 8260B*
1,1,2-Trichloroethane	< 120 ug/L		09/06/13 01:10	BP	SW 8260B 04KS
1,1-Dichloroethane	< 120 ug/L	Q3	09/06/13 01:10	BP	SW 8260B 04KS
1,1-Dichloroethene	< 120 ug/L	Q3	09/06/13 01:10	BP	SW 8260B 04KS
1,1-Dichloropropene	< 120 ug/L		09/06/13 01:10	BP	SW 8260B 04KS
1,2,3-Trichlorobenzene	< 120 ug/L		09/06/13 01:10	BP	SW 8260B 04KS
1,2,3-Trichloropropane	< 120 ug/L		09/06/13 01:10	BP	SW 8260B 04KS
1,2,4-Trichlorobenzene	< 120 ug/L		09/06/13 01:10	BP	SW 8260B 04KS
1,2,4-Trimethylbenzene	< 120 ug/L		09/06/13 01:10	BP	SW 8260B 04KS
1,2-Dibromo-3-chloropropane	< 120 ug/L		09/06/13 01:10	BP	SW 8260B*
1,2-Dibromoethane	< 120 ug/L		09/06/13 01:10	BP	SW 8260B*
1,2-Dichloroethene- Total	< 250 ug/L		09/06/13 01:10	BP	SW 8260B*
1,2-Dichlorobenzene	< 120 ug/L		09/06/13 01:10	BP	SW 8260B 04KS



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13570 St Charles Rock Road  
St. Louis, MO 63044  
Attn: Ed Galbraith

Date Received: 08/29/13 14:56  
Report Date: 09/11/13  
Customer #: 277310

**\*Laboratory Results\***

Sample No: **3084458-01**  
Sample Description: **TCLP I/IV A**

Collect Date: **08/27/13 12:15**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b>Volatile Organics - STL</b>					
1,2-Dichloroethane	< 120 ug/L		09/06/13 01:10	BP	SW 8260B 04KS
1,2-Dichloropropane	< 120 ug/L		09/06/13 01:10	BP	SW 8260B 04KS
1,3,5-Trimethylbenzene	< 120 ug/L		09/06/13 01:10	BP	SW 8260B 04KS
1,3-Dichlorobenzene	< 120 ug/L		09/06/13 01:10	BP	SW 8260B 04KS
1,3-Dichloropropane	< 120 ug/L		09/06/13 01:10	BP	SW 8260B 04KS
1,3-Dichloropropene - Total	< 250 ug/L		09/06/13 01:10	BP	SW 8260B*
1,4-Dichlorobenzene	120 ug/L	Q2	09/06/13 01:10	BP	SW 8260B 04KS
1,4-Dioxane	< 1200 ug/L		09/06/13 01:10	BP	SW 8260B*
2,2-Dichloropropane	< 120 ug/L		09/06/13 01:10	BP	SW 8260B 04KS
2-Butanone	46000 ug/L		09/05/13 21:08	BP	SW 8260B 04KS
2-Chloroethylvinyl ether	< 120 ug/L		09/06/13 01:10	BP	SW 8260B 04KS
2-Chlorotoluene	< 120 ug/L		09/06/13 01:10	BP	SW 8260B 04KS
2-Hexanone	760 ug/L		09/06/13 01:10	BP	SW 8260B 04KS
2-Nitropropane	< 250 ug/L		09/06/13 01:10	BP	SW 8260B 04KS
4-Chlorotoluene	< 120 ug/L		09/06/13 01:10	BP	SW 8260B 04KS
4-Methyl-2-pentanone (MIBK)	1200 ug/L		09/06/13 01:10	BP	SW 8260B 04KS
Acetone	81000 ug/L		09/05/13 21:08	BP	SW 8260B 04KS
Acetonitrile	< 1200 ug/L		09/06/13 01:10	BP	SW 8260B 04KS
Acrolein	< 1200 ug/L		09/06/13 01:10	BP	SW 8260B 04KS
Acrylonitrile	< 250 ug/L		09/06/13 01:10	BP	SW 8260B 04KS
Allyl Chloride	< 120 ug/L		09/06/13 01:10	BP	SW 8260B 04KS
Benzene	890 ug/L	Q3	09/06/13 01:10	BP	SW 8260B 04KS
Bromobenzene	< 120 ug/L		09/06/13 01:10	BP	SW 8260B 04KS
Bromochloromethane	< 120 ug/L		09/06/13 01:10	BP	SW 8260B 04KS
Bromodichloromethane	< 120 ug/L	Q2	09/06/13 01:10	BP	SW 8260B 04KS
Bromoform	< 120 ug/L		09/06/13 01:10	BP	SW 8260B 04KS
Bromomethane	< 250 ug/L		09/06/13 01:10	BP	SW 8260B 04KS
Carbon disulfide	< 120 ug/L		09/06/13 01:10	BP	SW 8260B 04KS
Carbon tetrachloride	< 120 ug/L	Q3	09/06/13 01:10	BP	SW 8260B 04KS
Chlorobenzene	< 120 ug/L	Q3	09/06/13 01:10	BP	SW 8260B 04KS
Chloroethane	< 250 ug/L	Q3	09/06/13 01:10	BP	SW 8260B 04KS
Chloroform	< 120 ug/L		09/06/13 01:10	BP	SW 8260B 04KS
Chloromethane	< 250 ug/L	Q3	09/06/13 01:10	BP	SW 8260B 04KS



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St. Louis, MO 63044  
Attn: Ed Galbraith

Date Received: 08/29/13 14:56  
Report Date: 09/11/13  
Customer #: 277310

**\*Laboratory Results\***

Sample No: **3084458-01**  
Sample Description: **TCLP I/IV A**

Collect Date: **08/27/13 12:15**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b>Volatile Organics - STL</b>					
cis-1,2-Dichloroethene	< 120 ug/L	Q3	09/06/13 01:10	BP	SW 8260B 04KS
cis-1,3-Dichloropropene	< 120 ug/L	Q3	09/06/13 01:10	BP	SW 8260B 04KS
Dibromochloromethane	< 120 ug/L		09/06/13 01:10	BP	SW 8260B 04KS
Dibromomethane	< 120 ug/L		09/06/13 01:10	BP	SW 8260B 04KS
Dichlorodifluoromethane	< 250 ug/L		09/06/13 01:10	BP	SW 8260B 04KS
Ethyl methacrylate	< 120 ug/L		09/06/13 01:10	BP	SW 8260B*
Ethylbenzene	< 120 ug/L	Q2	09/06/13 01:10	BP	SW 8260B 04KS
Hexachlorobutadiene	< 120 ug/L		09/06/13 01:10	BP	SW 8260B 04KS
Iodomethane	< 250 ug/L		09/06/13 01:10	BP	SW 8260B 04KS
Isobutanol	100000 ug/L		09/05/13 21:08	BP	SW 8260B*
Isopropylbenzene	< 120 ug/L		09/06/13 01:10	BP	SW 8260B 04KS
m,p-Xylene	< 250 ug/L		09/06/13 01:10	BP	SW 8260B 04KS
Methacrylonitrile	< 120 ug/L		09/06/13 01:10	BP	SW 8260B*
Methyl methacrylate	< 120 ug/L		09/06/13 01:10	BP	SW 8260B 04KS
Methylene chloride	< 120 ug/L	Q2	09/06/13 01:10	BP	SW 8260B 04KS
MTBE	< 120 ug/L		09/06/13 01:10	BP	SW 8260B 04KS
Naphthalene	140 ug/L		09/06/13 01:10	BP	SW 8260B 04KS
n-Butylbenzene	< 120 ug/L		09/06/13 01:10	BP	SW 8260B 04KS
n-Propylbenzene	< 120 ug/L		09/06/13 01:10	BP	SW 8260B 04KS
o-Xylene	< 120 ug/L		09/06/13 01:10	BP	SW 8260B 04KS
p-Isopropyl toluene	250 ug/L		09/06/13 01:10	BP	SW 8260B 04KS
Propionitrile	< 250 ug/L		09/06/13 01:10	BP	SW 8260B 04KS
sec-Butylbenzene	< 120 ug/L		09/06/13 01:10	BP	SW 8260B 04KS
Styrene	< 120 ug/L		09/06/13 01:10	BP	SW 8260B 04KS
tert-Butylbenzene	< 120 ug/L		09/06/13 01:10	BP	SW 8260B 04KS
Tetrachloroethene	< 120 ug/L		09/06/13 01:10	BP	SW 8260B 04KS
Toluene	160 ug/L		09/06/13 01:10	BP	SW 8260B 04KS
trans-1,2-Dichloroethene	< 120 ug/L		09/06/13 01:10	BP	SW 8260B 04KS
trans-1,3-Dichloropropene	< 120 ug/L		09/06/13 01:10	BP	SW 8260B 04KS
trans-1,4-Dichloro-2-butene	< 120 ug/L		09/06/13 01:10	BP	SW 8260B*
Trichloroethene	< 120 ug/L	Q3	09/06/13 01:10	BP	SW 8260B 04KS
Trichlorofluoromethane	< 120 ug/L	Q3	09/06/13 01:10	BP	SW 8260B 04KS
Vinyl acetate	< 250 ug/L		09/06/13 01:10	BP	SW 8260B 04KS



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St. Louis, MO 63044  
Attn: Ed Galbraith

Date Received: 08/29/13 14:56  
Report Date: 09/11/13  
Customer #: 277310

**\*Laboratory Results\***

Sample No: **3084458-01**  
Sample Description: **TCLP I/IV A**

Collect Date: **08/27/13 12:15**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b><u>Volatile Organics - STL</u></b>					
Vinyl chloride	< 120 ug/L	Q3	09/06/13 01:10	BP	SW 8260B 04KS
Xylenes- Total	< 380 ug/L		09/06/13 01:10	BP	SW 8260B*
Surrogate: 1,2-Dichloroethane-d4	85 % 65.6-134		09/06/13 01:10	BP	SW 8260B
Surrogate: Bromofluorobenzene	96 % 61-140		09/06/13 01:10	BP	SW 8260B
Surrogate: Toluene-d8	89 % 75.4-120		09/06/13 01:10	BP	SW 8260B
<b><u>Volatile Organics - TCLP - STL</u></b>					
1,1-Dichloroethene	< 200 ug/L		09/05/13 14:06	BP	SW 8260B*
1,2-Dichloroethane	< 200 ug/L		09/05/13 14:06	BP	SW 8260B*
1,4-Dichlorobenzene	< 200 ug/L		09/05/13 14:06	BP	SW 8260B*
2-Butanone	2500 ug/L		09/05/13 14:06	BP	SW 8260B*
Benzene	< 200 ug/L		09/05/13 14:06	BP	SW 8260B*
Carbon tetrachloride	< 200 ug/L		09/05/13 14:06	BP	SW 8260B*
Chlorobenzene	< 200 ug/L		09/05/13 14:06	BP	SW 8260B*
Chloroform	< 200 ug/L		09/05/13 14:06	BP	SW 8260B*
Tetrachloroethene	< 200 ug/L		09/05/13 14:06	BP	SW 8260B*
Trichloroethene	< 200 ug/L		09/05/13 14:06	BP	SW 8260B*
Vinyl chloride	< 200 ug/L		09/05/13 14:06	BP	SW 8260B*
Surrogate: 1,2-Dichloroethane-d4	85 % 56.1-142		09/05/13 14:06	BP	SW 8260B
Surrogate: Toluene-d8	86 % 68.1-121		09/05/13 14:06	BP	SW 8260B
Surrogate: Bromofluorobenzene	96 % 64.1-128		09/05/13 14:06	BP	SW 8260B

Sample No: **3084458-02**  
Sample Description: **TCLP I/IV B**

Collect Date: **08/27/13 12:25**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b><u>Semivolatile Organics - PIA</u></b>					
N-Nitrosodimethylamine	3700 ug/L		09/06/13 16:29	SNS	SW 8270C IL,AR,IA,KS, WI
Pyridine	< 2000 ug/L		09/06/13 16:29	SNS	SW 8270C IL,AR,IA,KS, WI
Phenol	17000 ug/L		09/06/13 16:29	SNS	SW 8270C IL,AR,IA,KS, WI
Aniline	< 2000 ug/L		09/06/13 16:29	SNS	SW 8270C IL,AR,KS,WI

3084458



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Date Received: 08/29/13 14:56  
Report Date: 09/11/13  
Customer #: 277310

**\*Laboratory Results\***

Sample No: **3084458-02**  
Sample Description: **TCLP I/IV B**

Collect Date: **08/27/13 12:25**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b>Semivolatile Organics - PIA</b>					
Bis(2-chloroethyl) ether	< 2000 ug/L		09/06/13 16:29	SNS	SW 8270C IL,AR,IA,KS, WI
2-Chlorophenol	< 2000 ug/L		09/06/13 16:29	SNS	SW 8270C IL,AR,IA,KS, WI
1,3-Dichlorobenzene	< 2000 ug/L		09/06/13 16:29	SNS	SW 8270C IL,AR,IA,KS, WI
1,4-Dichlorobenzene	< 2000 ug/L		09/06/13 16:29	SNS	SW 8270C IL,AR,IA,KS, WI
Benzyl alcohol	7200 ug/L		09/06/13 16:29	SNS	SW 8270C IL,AR,IA,KS, WI
1,2-Dichlorobenzene	< 2000 ug/L		09/06/13 16:29	SNS	SW 8270C IL,AR,IA,KS, WI
2-Methylphenol	< 2000 ug/L		09/06/13 16:29	SNS	SW 8270C IL,AR,IA,KS, WI
Bis(2-chloroisopropyl) ether	< 2000 ug/L		09/06/13 16:29	SNS	SW 8270C IL,AR,IA,KS, WI
N-Nitrosodi-n-propylamine	< 2000 ug/L		09/06/13 16:29	SNS	SW 8270C IL,AR,IA,KS, WI
3- & 4-Methylphenol	11000 ug/L		09/06/13 16:29	SNS	SW 8270C IL,AR,IA,KS, WI
Hexachloroethane	< 2000 ug/L		09/06/13 16:29	SNS	SW 8270C IL,AR,IA,KS, WI
Nitrobenzene	< 2000 ug/L		09/06/13 16:29	SNS	SW 8270C IL,AR,IA,KS, WI
Isophorone	< 2000 ug/L		09/06/13 16:29	SNS	SW 8270C IL,AR,IA,KS, WI
2-Nitrophenol	< 2000 ug/L		09/06/13 16:29	SNS	SW 8270C IL,AR,IA,KS, WI
2,4-Dimethylphenol	< 2000 ug/L		09/06/13 16:29	SNS	SW 8270C IL,AR,IA,KS, WI
Bis(2-chloroethoxy) methane	< 2000 ug/L		09/06/13 16:29	SNS	SW 8270C IL,AR,IA,KS, WI
2,4-Dichlorophenol	< 2000 ug/L		09/06/13 16:29	SNS	SW 8270C IL,AR,IA,KS, WI
1,2,4-Trichlorobenzene	< 2000 ug/L		09/06/13 16:29	SNS	SW 8270C IL,AR,IA,KS, WI
1,2,4,5-Tetrachlorobenzene	< 2000 ug/L		09/06/13 16:29	SNS	SW 8270C IL,AR,KS,WI
Naphthalene	< 2000 ug/L		09/06/13 16:29	SNS	SW 8270C IL,AR,IA,KS, WI
4-Chloroaniline	< 2000 ug/L		09/06/13 16:29	SNS	SW 8270C IL,AR,IA,KS, WI
2,6-Dichlorophenol	< 2000 ug/L		09/06/13 16:29	SNS	SW 8270C IL,AR,IA,KS, WI





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Customer #: 277310

**\*Laboratory Results\***

Sample No: **3084458-02**  
Sample Description: **TCLP I/IV B**

Collect Date: **08/27/13 12:25**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b>Semivolatile Organics - PIA</b>					
Hexachlorobutadiene	< 2000 ug/L		09/06/13 16:29	SNS	SW 8270C IL,AR,IA,KS, WI
4-Chloro-3-methylphenol	< 2000 ug/L		09/06/13 16:29	SNS	SW 8270C IL,AR,IA,KS, WI
2-Methylnaphthalene	< 2000 ug/L		09/06/13 16:29	SNS	SW 8270C IL,AR,IA,KS, WI
Hexachlorocyclopentadiene	< 2000 ug/L		09/06/13 16:29	SNS	SW 8270C IL,AR,IA,KS, WI
2,4,6-Trichlorophenol	< 10000 ug/L		09/06/13 16:29	SNS	SW 8270C IL,AR,IA,KS, WI
2,4,5-Trichlorophenol	< 10000 ug/L		09/06/13 16:29	SNS	SW 8270C IL,AR,IA,KS, WI
2-Chloronaphthalene	< 2000 ug/L		09/06/13 16:29	SNS	SW 8270C IL,AR,IA,KS, WI
2-Nitroaniline	< 10000 ug/L		09/06/13 16:29	SNS	SW 8270C IL,AR,IA,KS, WI
Dimethyl phthalate	< 2000 ug/L		09/06/13 16:29	SNS	SW 8270C IL,AR,IA,KS, WI
2,6-Dinitrotoluene	< 2000 ug/L		09/06/13 16:29	SNS	SW 8270C IL,AR,IA,KS, WI
Acenaphthylene	< 2000 ug/L		09/06/13 16:29	SNS	SW 8270C IL,AR,IA,KS, WI
3-Nitroaniline	< 10000 ug/L		09/06/13 16:29	SNS	SW 8270C IL,AR,IA,KS, WI
Acenaphthene	< 2000 ug/L		09/06/13 16:29	SNS	SW 8270C IL,AR,IA,KS, WI
2,4-Dinitrophenol	< 10000 ug/L		09/06/13 16:29	SNS	SW 8270C IL,AR,IA,KS, WI
4-Nitrophenol	< 10000 ug/L		09/06/13 16:29	SNS	SW 8270C IL,AR,IA,KS, WI
Dibenzofuran	< 2000 ug/L		09/06/13 16:29	SNS	SW 8270C IL,AR,IA,KS, WI
2,4-Dinitrotoluene	< 2000 ug/L		09/06/13 16:29	SNS	SW 8270C IL,AR,IA,KS, WI
2,3,4,6-Tetrachlorophenol	< 2000 ug/L		09/06/13 16:29	SNS	SW 8270C IL,AR,KS,WI
Diethyl phthalate	< 2000 ug/L		09/06/13 16:29	SNS	SW 8270C IL,AR,IA,KS, WI
Fluorene	< 2000 ug/L		09/06/13 16:29	SNS	SW 8270C IL,AR,IA,KS, WI
4-Chlorophenylphenyl ether	< 2000 ug/L		09/06/13 16:29	SNS	SW 8270C IL,AR,IA,KS, WI
4-Nitroaniline	< 10000 ug/L		09/06/13 16:29	SNS	SW 8270C IL,AR,IA,KS, WI



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Bridgeton Landfill  
13570 St Charles Rock Road  
St. Louis, MO 63044  
Attn: Ed Galbraith

Date Received: 08/29/13 14:56  
Report Date: 09/11/13  
Customer #: 277310

**\*Laboratory Results\***

Sample No: **3084458-02**  
Sample Description: **TCLP I/IV B**

Collect Date: **08/27/13 12:25**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b>Semivolatile Organics - PIA</b>					
4,6-Dinitro-2-methylphenol	< 10000 ug/L		09/06/13 16:29	SNS	SW 8270C IL,AR,IA,KS, WI
N-Nitrosodiphenylamine	< 2000 ug/L		09/06/13 16:29	SNS	SW 8270C IL,AR,KS,WI
Diphenylamine	< 2000 ug/L		09/06/13 16:29	SNS	SW 8270C IL,AR
1,2-Diphenylhydrazine	< 2000 ug/L		09/06/13 16:29	SNS	SW 8270C IL,AR,KS
4-Bromophenyl phenyl ether	< 2000 ug/L		09/06/13 16:29	SNS	SW 8270C IL,AR,IA,KS, WI
Hexachlorobenzene	< 2000 ug/L		09/06/13 16:29	SNS	SW 8270C IL,AR,IA,KS, WI
Pentachlorophenol	< 10000 ug/L		09/06/13 16:29	SNS	SW 8270C IL,AR,IA,KS, WI
Phenanthrene	< 2000 ug/L		09/06/13 16:29	SNS	SW 8270C IL,AR,IA,KS, WI
Anthracene	< 2000 ug/L		09/06/13 16:29	SNS	SW 8270C IL,AR,IA,KS, WI
Di-n-butyl phthalate	< 2000 ug/L		09/06/13 16:29	SNS	SW 8270C IL,AR,IA,KS, WI
Fluoranthene	< 2000 ug/L		09/06/13 16:29	SNS	SW 8270C IL,AR,IA,KS, WI
Benzidine	< 16000 ug/L		09/06/13 16:29	SNS	SW 8270C IL,AR,KS,WI
Pyrene	< 2000 ug/L		09/06/13 16:29	SNS	SW 8270C IL,AR,IA,KS, WI
Butyl benzyl phthalate	< 2000 ug/L		09/06/13 16:29	SNS	SW 8270C IL,AR,IA,KS, WI
Benzo(a)anthracene	< 2000 ug/L		09/06/13 16:29	SNS	SW 8270C IL,AR,IA,KS, WI
3,3'-Dichlorobenzidine	< 4000 ug/L		09/06/13 16:29	SNS	SW 8270C IL,AR,IA,KS, WI
Chrysene	< 2000 ug/L		09/06/13 16:29	SNS	SW 8270C IL,AR,IA,KS, WI
Bis(2-ethylhexyl) phthalate	< 2000 ug/L		09/06/13 16:29	SNS	SW 8270C IL,AR,IA,KS, WI
Di-n-octyl phthalate	< 2000 ug/L		09/06/13 16:29	SNS	SW 8270C IL,AR,IA,KS, WI
Benzo(b)fluoranthene	< 2000 ug/L		09/06/13 16:29	SNS	SW 8270C IL,AR,IA,KS, WI
Benzo(k)fluoranthene	< 2000 ug/L		09/06/13 16:29	SNS	SW 8270C IL,AR,IA,KS, WI
Benzo(a)pyrene	< 2000 ug/L		09/06/13 16:29	SNS	SW 8270C IL,AR,IA,KS, WI
Cresols- Total	< 4000 ug/L		09/06/13 16:29	SNS	SW 8270C*
3-Methylcholanthrene	< 2000 ug/L		09/06/13 16:29	SNS	SW 8270C IL,AR,KS,WI



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**\*Laboratory Results\***

Sample No: **3084458-02**  
Sample Description: **TCLP I/IV B**

Collect Date: **08/27/13 12:25**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b><u>Semivolatile Organics - PIA</u></b>					
Indeno(1,2,3-cd)pyrene	< 2000 ug/L		09/06/13 16:29	SNS	SW 8270C IL,AR,IA,KS, WI
Dibenzo(a,h)anthracene	< 2000 ug/L		09/06/13 16:29	SNS	SW 8270C IL,AR,IA,KS, WI
Benzo(g,h,i)perylene	< 2000 ug/L		09/06/13 16:29	SNS	SW 8270C IL,AR,IA,KS, WI
<b><u>Volatile Organics - STL</u></b>					
1,1,1,2-Tetrachloroethane	< 120 ug/L		09/06/13 01:34	BP	SW 8260B 04KS
1,1,1-Trichloroethane	< 120 ug/L		09/06/13 01:34	BP	SW 8260B 04KS
1,1,2,2-Tetrachloroethane	< 120 ug/L		09/06/13 01:34	BP	SW 8260B 04KS
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon)	< 250 ug/L		09/06/13 01:34	BP	SW 8260B*
1,1,2-Trichloroethane	< 120 ug/L		09/06/13 01:34	BP	SW 8260B 04KS
1,1-Dichloroethane	< 120 ug/L		09/06/13 01:34	BP	SW 8260B 04KS
1,1-Dichloroethene	< 120 ug/L		09/06/13 01:34	BP	SW 8260B 04KS
1,1-Dichloropropene	< 120 ug/L		09/06/13 01:34	BP	SW 8260B 04KS
1,2,3-Trichlorobenzene	< 120 ug/L		09/06/13 01:34	BP	SW 8260B 04KS
1,2,3-Trichloropropane	< 120 ug/L		09/06/13 01:34	BP	SW 8260B 04KS
1,2,4-Trichlorobenzene	< 120 ug/L		09/06/13 01:34	BP	SW 8260B 04KS
1,2,4-Trimethylbenzene	< 120 ug/L		09/06/13 01:34	BP	SW 8260B 04KS
1,2-Dibromo-3-chloropropane	< 120 ug/L		09/06/13 01:34	BP	SW 8260B*
1,2-Dibromoethane	< 120 ug/L		09/06/13 01:34	BP	SW 8260B*
1,2-Dichloroethene- Total	< 250 ug/L		09/06/13 01:34	BP	SW 8260B*
1,2-Dichlorobenzene	< 120 ug/L		09/06/13 01:34	BP	SW 8260B 04KS
1,2-Dichloroethane	< 120 ug/L		09/06/13 01:34	BP	SW 8260B 04KS
1,2-Dichloropropane	< 120 ug/L		09/06/13 01:34	BP	SW 8260B 04KS
1,3,5-Trimethylbenzene	< 120 ug/L		09/06/13 01:34	BP	SW 8260B 04KS
1,3-Dichlorobenzene	< 120 ug/L		09/06/13 01:34	BP	SW 8260B 04KS
1,3-Dichloropropane	< 120 ug/L		09/06/13 01:34	BP	SW 8260B 04KS
1,3-Dichloropropene - Total	< 250 ug/L		09/06/13 01:34	BP	SW 8260B*
1,4-Dichlorobenzene	< 120 ug/L		09/06/13 01:34	BP	SW 8260B 04KS
1,4-Dioxane	< 1200 ug/L		09/06/13 01:34	BP	SW 8260B*
2,2-Dichloropropane	< 120 ug/L		09/06/13 01:34	BP	SW 8260B 04KS
2-Butanone	27000 ug/L		09/05/13 21:32	BP	SW 8260B 04KS
2-Chloroethylvinyl ether	< 120 ug/L		09/06/13 01:34	BP	SW 8260B 04KS



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Bridgeton Landfill  
13570 St Charles Rock Road  
St. Louis, MO 63044  
Attn: Ed Galbraith

Date Received: 08/29/13 14:56  
Report Date: 09/11/13  
Customer #: 277310

**\*Laboratory Results\***

Sample No: **3084458-02**  
Sample Description: **TCLP I/IV B**

Collect Date: **08/27/13 12:25**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b><u>Volatile Organics - STL</u></b>					
2-Chlorotoluene	< 120 ug/L		09/06/13 01:34	BP	SW 8260B 04KS
2-Hexanone	630 ug/L		09/06/13 01:34	BP	SW 8260B 04KS
2-Nitropropane	< 250 ug/L		09/06/13 01:34	BP	SW 8260B 04KS
4-Chlorotoluene	< 120 ug/L		09/06/13 01:34	BP	SW 8260B 04KS
4-Methyl-2-pentanone (MIBK)	970 ug/L		09/06/13 01:34	BP	SW 8260B 04KS
Acetone	81000 ug/L		09/05/13 21:32	BP	SW 8260B 04KS
Acetonitrile	< 1200 ug/L		09/06/13 01:34	BP	SW 8260B 04KS
Acrolein	< 1200 ug/L		09/06/13 01:34	BP	SW 8260B 04KS
Acrylonitrile	< 250 ug/L		09/06/13 01:34	BP	SW 8260B 04KS
Allyl Chloride	< 120 ug/L		09/06/13 01:34	BP	SW 8260B 04KS
Benzene	630 ug/L		09/06/13 01:34	BP	SW 8260B 04KS
Bromobenzene	< 120 ug/L		09/06/13 01:34	BP	SW 8260B 04KS
Bromochloromethane	< 120 ug/L		09/06/13 01:34	BP	SW 8260B 04KS
Bromodichloromethane	< 120 ug/L		09/06/13 01:34	BP	SW 8260B 04KS
Bromoform	< 120 ug/L		09/06/13 01:34	BP	SW 8260B 04KS
Bromomethane	< 250 ug/L		09/06/13 01:34	BP	SW 8260B 04KS
Carbon disulfide	< 120 ug/L		09/06/13 01:34	BP	SW 8260B 04KS
Carbon tetrachloride	< 120 ug/L		09/06/13 01:34	BP	SW 8260B 04KS
Chlorobenzene	< 120 ug/L		09/06/13 01:34	BP	SW 8260B 04KS
Chloroethane	< 250 ug/L		09/06/13 01:34	BP	SW 8260B 04KS
Chloroform	< 120 ug/L		09/06/13 01:34	BP	SW 8260B 04KS
Chloromethane	< 250 ug/L		09/06/13 01:34	BP	SW 8260B 04KS
cis-1,2-Dichloroethene	< 120 ug/L		09/06/13 01:34	BP	SW 8260B 04KS
cis-1,3-Dichloropropene	< 120 ug/L		09/06/13 01:34	BP	SW 8260B 04KS
Dibromochloromethane	< 120 ug/L		09/06/13 01:34	BP	SW 8260B 04KS
Dibromomethane	< 120 ug/L		09/06/13 01:34	BP	SW 8260B 04KS
Dichlorodifluoromethane	< 250 ug/L		09/06/13 01:34	BP	SW 8260B 04KS
Ethyl methacrylate	< 120 ug/L		09/06/13 01:34	BP	SW 8260B*
Ethylbenzene	< 120 ug/L		09/06/13 01:34	BP	SW 8260B 04KS
Hexachlorobutadiene	< 120 ug/L		09/06/13 01:34	BP	SW 8260B 04KS
Iodomethane	< 250 ug/L		09/06/13 01:34	BP	SW 8260B 04KS
Isobutanol	85000 ug/L		09/05/13 21:32	BP	SW 8260B*
Isopropylbenzene	< 120 ug/L		09/06/13 01:34	BP	SW 8260B 04KS



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Attn: Ed Galbraith

Date Received: 08/29/13 14:56  
Report Date: 09/11/13  
Customer #: 277310

**\*Laboratory Results\***

Sample No: **3084458-02**  
Sample Description: **TCLP I/IV B**

Collect Date: **08/27/13 12:25**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b>Volatile Organics - STL</b>					
m,p-Xylene	< 250 ug/L		09/06/13 01:34	BP	SW 8260B 04KS
Methacrylonitrile	< 120 ug/L		09/06/13 01:34	BP	SW 8260B*
Methyl methacrylate	< 120 ug/L		09/06/13 01:34	BP	SW 8260B 04KS
Methylene chloride	< 120 ug/L		09/06/13 01:34	BP	SW 8260B 04KS
MTBE	< 120 ug/L		09/06/13 01:34	BP	SW 8260B 04KS
Naphthalene	120 ug/L		09/06/13 01:34	BP	SW 8260B 04KS
n-Butylbenzene	< 120 ug/L		09/06/13 01:34	BP	SW 8260B 04KS
n-Propylbenzene	< 120 ug/L		09/06/13 01:34	BP	SW 8260B 04KS
o-Xylene	< 120 ug/L		09/06/13 01:34	BP	SW 8260B 04KS
p-Isopropyl toluene	< 120 ug/L		09/06/13 01:34	BP	SW 8260B 04KS
Propionitrile	< 250 ug/L		09/06/13 01:34	BP	SW 8260B 04KS
sec-Butylbenzene	< 120 ug/L		09/06/13 01:34	BP	SW 8260B 04KS
Styrene	< 120 ug/L		09/06/13 01:34	BP	SW 8260B 04KS
tert-Butylbenzene	< 120 ug/L		09/06/13 01:34	BP	SW 8260B 04KS
Tetrachloroethene	< 120 ug/L		09/06/13 01:34	BP	SW 8260B 04KS
Toluene	< 120 ug/L		09/06/13 01:34	BP	SW 8260B 04KS
trans-1,2-Dichloroethene	< 120 ug/L		09/06/13 01:34	BP	SW 8260B 04KS
trans-1,3-Dichloropropene	< 120 ug/L		09/06/13 01:34	BP	SW 8260B 04KS
trans-1,4-Dichloro-2-butene	< 120 ug/L		09/06/13 01:34	BP	SW 8260B*
Trichloroethene	< 120 ug/L		09/06/13 01:34	BP	SW 8260B 04KS
Trichlorofluoromethane	< 120 ug/L		09/06/13 01:34	BP	SW 8260B 04KS
Vinyl acetate	< 250 ug/L		09/06/13 01:34	BP	SW 8260B 04KS
Vinyl chloride	< 120 ug/L		09/06/13 01:34	BP	SW 8260B 04KS
Xylenes- Total	< 380 ug/L		09/06/13 01:34	BP	SW 8260B*
Surrogate: 1,2-Dichloroethane-d4	86 % 65.6-134		09/06/13 01:34	BP	SW 8260B
Surrogate: Bromofluorobenzene	96 % 61-140		09/06/13 01:34	BP	SW 8260B
Surrogate: Toluene-d8	91 % 75.4-120		09/06/13 01:34	BP	SW 8260B

Sample No: **3084458-03**  
Sample Description: **TCLP I/IV C**

Collect Date: **08/27/13 12:35**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
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3084458



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Date Received: 08/29/13 14:56  
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Customer #: 277310

**\*Laboratory Results\***

Sample No: **3084458-03**  
Sample Description: **TCLP I/IV C**

Collect Date: **08/27/13 12:35**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b>Semivolatile Organics - PIA</b>					
N-Nitrosodimethylamine	5200 ug/L		09/06/13 16:58	SNS	SW 8270C IL,AR,IA,KS, WI
Pyridine	< 2000 ug/L		09/06/13 16:58	SNS	SW 8270C IL,AR,IA,KS, WI
Phenol	19000 ug/L		09/06/13 16:58	SNS	SW 8270C IL,AR,IA,KS, WI
Aniline	< 2000 ug/L		09/06/13 16:58	SNS	SW 8270C IL,AR,KS,WI
Bis(2-chloroethyl) ether	< 2000 ug/L		09/06/13 16:58	SNS	SW 8270C IL,AR,IA,KS, WI
2-Chlorophenol	< 2000 ug/L		09/06/13 16:58	SNS	SW 8270C IL,AR,IA,KS, WI
1,3-Dichlorobenzene	< 2000 ug/L		09/06/13 16:58	SNS	SW 8270C IL,AR,IA,KS, WI
1,4-Dichlorobenzene	< 2000 ug/L		09/06/13 16:58	SNS	SW 8270C IL,AR,IA,KS, WI
Benzyl alcohol	7200 ug/L		09/06/13 16:58	SNS	SW 8270C IL,AR,IA,KS, WI
1,2-Dichlorobenzene	< 2000 ug/L		09/06/13 16:58	SNS	SW 8270C IL,AR,IA,KS, WI
2-Methylphenol	< 2000 ug/L		09/06/13 16:58	SNS	SW 8270C IL,AR,IA,KS, WI
Bis(2-chloroisopropyl) ether	< 2000 ug/L		09/06/13 16:58	SNS	SW 8270C IL,AR,IA,KS, WI
N-Nitrosodi-n-propylamine	< 2000 ug/L		09/06/13 16:58	SNS	SW 8270C IL,AR,IA,KS, WI
3- & 4-Methylphenol	9800 ug/L		09/06/13 16:58	SNS	SW 8270C IL,AR,IA,KS, WI
Hexachloroethane	< 2000 ug/L		09/06/13 16:58	SNS	SW 8270C IL,AR,IA,KS, WI
Nitrobenzene	< 2000 ug/L		09/06/13 16:58	SNS	SW 8270C IL,AR,IA,KS, WI
Isophorone	< 2000 ug/L		09/06/13 16:58	SNS	SW 8270C IL,AR,IA,KS, WI
2-Nitrophenol	< 2000 ug/L		09/06/13 16:58	SNS	SW 8270C IL,AR,IA,KS, WI
2,4-Dimethylphenol	< 2000 ug/L		09/06/13 16:58	SNS	SW 8270C IL,AR,IA,KS, WI
Bis(2-chloroethoxy) methane	< 2000 ug/L		09/06/13 16:58	SNS	SW 8270C IL,AR,IA,KS, WI
2,4-Dichlorophenol	< 2000 ug/L		09/06/13 16:58	SNS	SW 8270C IL,AR,IA,KS, WI
1,2,4-Trichlorobenzene	< 2000 ug/L		09/06/13 16:58	SNS	SW 8270C IL,AR,IA,KS, WI



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**\*Laboratory Results\***

Sample No: **3084458-03**  
Sample Description: **TCLP I/IV C**

Collect Date: **08/27/13 12:35**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b>Semivolatile Organics - PIA</b>					
1,2,4,5-Tetrachlorobenzene	< 2000 ug/L		09/06/13 16:58	SNS	SW 8270C IL,AR,KS,WI
Naphthalene	< 2000 ug/L		09/06/13 16:58	SNS	SW 8270C IL,AR,IA,KS,WI
4-Chloroaniline	< 2000 ug/L		09/06/13 16:58	SNS	SW 8270C IL,AR,IA,KS,WI
2,6-Dichlorophenol	< 2000 ug/L		09/06/13 16:58	SNS	SW 8270C IL,AR,IA,KS,WI
Hexachlorobutadiene	< 2000 ug/L		09/06/13 16:58	SNS	SW 8270C IL,AR,IA,KS,WI
4-Chloro-3-methylphenol	< 2000 ug/L		09/06/13 16:58	SNS	SW 8270C IL,AR,IA,KS,WI
2-Methylnaphthalene	< 2000 ug/L		09/06/13 16:58	SNS	SW 8270C IL,AR,IA,KS,WI
Hexachlorocyclopentadiene	< 2000 ug/L		09/06/13 16:58	SNS	SW 8270C IL,AR,IA,KS,WI
2,4,6-Trichlorophenol	< 10000 ug/L		09/06/13 16:58	SNS	SW 8270C IL,AR,IA,KS,WI
2,4,5-Trichlorophenol	< 10000 ug/L		09/06/13 16:58	SNS	SW 8270C IL,AR,IA,KS,WI
2-Chloronaphthalene	< 2000 ug/L		09/06/13 16:58	SNS	SW 8270C IL,AR,IA,KS,WI
2-Nitroaniline	< 10000 ug/L		09/06/13 16:58	SNS	SW 8270C IL,AR,IA,KS,WI
Dimethyl phthalate	< 2000 ug/L		09/06/13 16:58	SNS	SW 8270C IL,AR,IA,KS,WI
2,6-Dinitrotoluene	< 2000 ug/L		09/06/13 16:58	SNS	SW 8270C IL,AR,IA,KS,WI
Acenaphthylene	< 2000 ug/L		09/06/13 16:58	SNS	SW 8270C IL,AR,IA,KS,WI
3-Nitroaniline	< 10000 ug/L		09/06/13 16:58	SNS	SW 8270C IL,AR,IA,KS,WI
Acenaphthene	< 2000 ug/L		09/06/13 16:58	SNS	SW 8270C IL,AR,IA,KS,WI
2,4-Dinitrophenol	< 10000 ug/L		09/06/13 16:58	SNS	SW 8270C IL,AR,IA,KS,WI
4-Nitrophenol	< 10000 ug/L		09/06/13 16:58	SNS	SW 8270C IL,AR,IA,KS,WI
Dibenzofuran	< 2000 ug/L		09/06/13 16:58	SNS	SW 8270C IL,AR,IA,KS,WI
2,4-Dinitrotoluene	< 2000 ug/L		09/06/13 16:58	SNS	SW 8270C IL,AR,IA,KS,WI
2,3,4,6-Tetrachlorophenol	< 2000 ug/L		09/06/13 16:58	SNS	SW 8270C IL,AR,KS,WI



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Date Received: 08/29/13 14:56  
Report Date: 09/11/13  
Customer #: 277310

**\*Laboratory Results\***

Sample No: **3084458-03**  
Sample Description: **TCLP I/IV C**

Collect Date: **08/27/13 12:35**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b>Semivolatile Organics - PIA</b>					
Diethyl phthalate	< 2000 ug/L		09/06/13 16:58	SNS	SW 8270C IL,AR,IA,KS, WI
Fluorene	< 2000 ug/L		09/06/13 16:58	SNS	SW 8270C IL,AR,IA,KS, WI
4-Chlorophenylphenyl ether	< 2000 ug/L		09/06/13 16:58	SNS	SW 8270C IL,AR,IA,KS, WI
4-Nitroaniline	< 10000 ug/L		09/06/13 16:58	SNS	SW 8270C IL,AR,IA,KS, WI
4,6-Dinitro-2-methylphenol	< 10000 ug/L		09/06/13 16:58	SNS	SW 8270C IL,AR,IA,KS, WI
N-Nitrosodiphenylamine	< 2000 ug/L		09/06/13 16:58	SNS	SW 8270C IL,AR,KS,WI
Diphenylamine	< 2000 ug/L		09/06/13 16:58	SNS	SW 8270C IL,AR
1,2-Diphenylhydrazine	< 2000 ug/L		09/06/13 16:58	SNS	SW 8270C IL,AR,KS
4-Bromophenyl phenyl ether	< 2000 ug/L		09/06/13 16:58	SNS	SW 8270C IL,AR,IA,KS, WI
Hexachlorobenzene	< 2000 ug/L		09/06/13 16:58	SNS	SW 8270C IL,AR,IA,KS, WI
Pentachlorophenol	< 10000 ug/L		09/06/13 16:58	SNS	SW 8270C IL,AR,IA,KS, WI
Phenanthrene	< 2000 ug/L		09/06/13 16:58	SNS	SW 8270C IL,AR,IA,KS, WI
Anthracene	< 2000 ug/L		09/06/13 16:58	SNS	SW 8270C IL,AR,IA,KS, WI
Di-n-butyl phthalate	< 2000 ug/L		09/06/13 16:58	SNS	SW 8270C IL,AR,IA,KS, WI
Fluoranthene	< 2000 ug/L		09/06/13 16:58	SNS	SW 8270C IL,AR,IA,KS, WI
Benzidine	< 16000 ug/L		09/06/13 16:58	SNS	SW 8270C IL,AR,KS,WI
Pyrene	< 2000 ug/L		09/06/13 16:58	SNS	SW 8270C IL,AR,IA,KS, WI
Butyl benzyl phthalate	< 2000 ug/L		09/06/13 16:58	SNS	SW 8270C IL,AR,IA,KS, WI
Benzo(a)anthracene	< 2000 ug/L		09/06/13 16:58	SNS	SW 8270C IL,AR,IA,KS, WI
3,3'-Dichlorobenzidine	< 4000 ug/L		09/06/13 16:58	SNS	SW 8270C IL,AR,IA,KS, WI
Chrysene	< 2000 ug/L		09/06/13 16:58	SNS	SW 8270C IL,AR,IA,KS, WI
Bis(2-ethylhexyl) phthalate	< 2000 ug/L		09/06/13 16:58	SNS	SW 8270C IL,AR,IA,KS, WI
Di-n-octyl phthalate	< 2000 ug/L		09/06/13 16:58	SNS	SW 8270C IL,AR,IA,KS, WI





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Bridgeton Landfill  
13570 St Charles Rock Road  
St. Louis, MO 63044  
Attn: Ed Galbraith

Date Received: 08/29/13 14:56  
Report Date: 09/11/13  
Customer #: 277310

**\*Laboratory Results\***

Sample No: **3084458-03**  
Sample Description: **TCLP I/IV C**

Collect Date: **08/27/13 12:35**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b>Semivolatile Organics - PIA</b>					
Benzo(b)fluoranthene	< 2000 ug/L		09/06/13 16:58	SNS	SW 8270C IL,AR,IA,KS, WI
Benzo(k)fluoranthene	< 2000 ug/L		09/06/13 16:58	SNS	SW 8270C IL,AR,IA,KS, WI
Benzo(a)pyrene	< 2000 ug/L		09/06/13 16:58	SNS	SW 8270C IL,AR,IA,KS, WI
Cresols- Total	< 4000 ug/L		09/06/13 16:58	SNS	SW 8270C*
3-Methylcholanthrene	< 2000 ug/L		09/06/13 16:58	SNS	SW 8270C IL,AR,KS,WI
Indeno(1,2,3-cd)pyrene	< 2000 ug/L		09/06/13 16:58	SNS	SW 8270C IL,AR,IA,KS, WI
Dibenzo(a,h)anthracene	< 2000 ug/L		09/06/13 16:58	SNS	SW 8270C IL,AR,IA,KS, WI
Benzo(g,h,i)perylene	< 2000 ug/L		09/06/13 16:58	SNS	SW 8270C IL,AR,IA,KS, WI
<b>Volatile Organics - STL</b>					
1,1,1,2-Tetrachloroethane	< 120 ug/L		09/06/13 01:58	BP	SW 8260B 04KS
1,1,1-Trichloroethane	< 120 ug/L		09/06/13 01:58	BP	SW 8260B 04KS
1,1,2,2-Tetrachloroethane	< 120 ug/L		09/06/13 01:58	BP	SW 8260B 04KS
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon)	< 250 ug/L		09/06/13 01:58	BP	SW 8260B*
1,1,2-Trichloroethane	< 120 ug/L		09/06/13 01:58	BP	SW 8260B 04KS
1,1-Dichloroethane	< 120 ug/L		09/06/13 01:58	BP	SW 8260B 04KS
1,1-Dichloroethene	< 120 ug/L		09/06/13 01:58	BP	SW 8260B 04KS
1,1-Dichloropropene	< 120 ug/L		09/06/13 01:58	BP	SW 8260B 04KS
1,2,3-Trichlorobenzene	< 120 ug/L		09/06/13 01:58	BP	SW 8260B 04KS
1,2,3-Trichloropropane	< 120 ug/L		09/06/13 01:58	BP	SW 8260B 04KS
1,2,4-Trichlorobenzene	< 120 ug/L		09/06/13 01:58	BP	SW 8260B 04KS
1,2,4-Trimethylbenzene	< 120 ug/L		09/06/13 01:58	BP	SW 8260B 04KS
1,2-Dibromo-3-chloropropane	< 120 ug/L		09/06/13 01:58	BP	SW 8260B*
1,2-Dibromoethane	< 120 ug/L		09/06/13 01:58	BP	SW 8260B*
1,2-Dichloroethene- Total	< 250 ug/L		09/06/13 01:58	BP	SW 8260B*
1,2-Dichlorobenzene	< 120 ug/L		09/06/13 01:58	BP	SW 8260B 04KS
1,2-Dichloroethane	< 120 ug/L		09/06/13 01:58	BP	SW 8260B 04KS
1,2-Dichloropropane	< 120 ug/L		09/06/13 01:58	BP	SW 8260B 04KS
1,3,5-Trimethylbenzene	< 120 ug/L		09/06/13 01:58	BP	SW 8260B 04KS
1,3-Dichlorobenzene	< 120 ug/L		09/06/13 01:58	BP	SW 8260B 04KS
1,3-Dichloropropane	< 120 ug/L		09/06/13 01:58	BP	SW 8260B 04KS

3084458



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Bridgeton Landfill  
13570 St Charles Rock Road  
St. Louis, MO 63044  
Attn: Ed Galbraith

Date Received: 08/29/13 14:56  
Report Date: 09/11/13  
Customer #: 277310

**\*Laboratory Results\***

Sample No: **3084458-03**  
Sample Description: **TCLP I/IV C**

Collect Date: **08/27/13 12:35**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b>Volatile Organics - STL</b>					
1,3-Dichloropropene - Total	< 250 ug/L		09/06/13 01:58	BP	SW 8260B*
1,4-Dichlorobenzene	< 120 ug/L		09/06/13 01:58	BP	SW 8260B 04KS
1,4-Dioxane	< 1200 ug/L		09/06/13 01:58	BP	SW 8260B*
2,2-Dichloropropane	< 120 ug/L		09/06/13 01:58	BP	SW 8260B 04KS
2-Butanone	36000 ug/L		09/05/13 21:56	BP	SW 8260B 04KS
2-Chloroethylvinyl ether	< 120 ug/L		09/06/13 01:58	BP	SW 8260B 04KS
2-Chlorotoluene	< 120 ug/L		09/06/13 01:58	BP	SW 8260B 04KS
2-Hexanone	810 ug/L		09/06/13 01:58	BP	SW 8260B 04KS
2-Nitropropane	< 250 ug/L		09/06/13 01:58	BP	SW 8260B 04KS
4-Chlorotoluene	< 120 ug/L		09/06/13 01:58	BP	SW 8260B 04KS
4-Methyl-2-pentanone (MIBK)	970 ug/L		09/06/13 01:58	BP	SW 8260B 04KS
Acetone	79000 ug/L		09/05/13 21:56	BP	SW 8260B 04KS
Acetonitrile	< 1200 ug/L		09/06/13 01:58	BP	SW 8260B 04KS
Acrolein	< 1200 ug/L		09/06/13 01:58	BP	SW 8260B 04KS
Acrylonitrile	< 250 ug/L		09/06/13 01:58	BP	SW 8260B 04KS
Allyl Chloride	< 120 ug/L		09/06/13 01:58	BP	SW 8260B 04KS
Benzene	610 ug/L		09/06/13 01:58	BP	SW 8260B 04KS
Bromobenzene	< 120 ug/L		09/06/13 01:58	BP	SW 8260B 04KS
Bromochloromethane	< 120 ug/L		09/06/13 01:58	BP	SW 8260B 04KS
Bromodichloromethane	< 120 ug/L		09/06/13 01:58	BP	SW 8260B 04KS
Bromoform	< 120 ug/L		09/06/13 01:58	BP	SW 8260B 04KS
Bromomethane	< 250 ug/L		09/06/13 01:58	BP	SW 8260B 04KS
Carbon disulfide	< 120 ug/L		09/06/13 01:58	BP	SW 8260B 04KS
Carbon tetrachloride	< 120 ug/L		09/06/13 01:58	BP	SW 8260B 04KS
Chlorobenzene	< 120 ug/L		09/06/13 01:58	BP	SW 8260B 04KS
Chloroethane	< 250 ug/L		09/06/13 01:58	BP	SW 8260B 04KS
Chloroform	< 120 ug/L		09/06/13 01:58	BP	SW 8260B 04KS
Chloromethane	< 250 ug/L		09/06/13 01:58	BP	SW 8260B 04KS
cis-1,2-Dichloroethene	< 120 ug/L		09/06/13 01:58	BP	SW 8260B 04KS
cis-1,3-Dichloropropene	< 120 ug/L		09/06/13 01:58	BP	SW 8260B 04KS
Dibromochloromethane	< 120 ug/L		09/06/13 01:58	BP	SW 8260B 04KS
Dibromomethane	< 120 ug/L		09/06/13 01:58	BP	SW 8260B 04KS
Dichlorodifluoromethane	< 250 ug/L		09/06/13 01:58	BP	SW 8260B 04KS



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St. Louis, MO 63044  
Attn: Ed Galbraith

Date Received: 08/29/13 14:56  
Report Date: 09/11/13  
Customer #: 277310

**\*Laboratory Results\***

Sample No: **3084458-03**  
Sample Description: **TCLP I/IV C**

Collect Date: **08/27/13 12:35**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b><u>Volatile Organics - STL</u></b>					
Ethyl methacrylate	< 120 ug/L		09/06/13 01:58	BP	SW 8260B*
Ethylbenzene	< 120 ug/L		09/06/13 01:58	BP	SW 8260B 04KS
Hexachlorobutadiene	< 120 ug/L		09/06/13 01:58	BP	SW 8260B 04KS
Iodomethane	< 250 ug/L		09/06/13 01:58	BP	SW 8260B 04KS
Isobutanol	87000 ug/L		09/05/13 21:56	BP	SW 8260B*
Isopropylbenzene	< 120 ug/L		09/06/13 01:58	BP	SW 8260B 04KS
m,p-Xylene	< 250 ug/L		09/06/13 01:58	BP	SW 8260B 04KS
Methacrylonitrile	< 120 ug/L		09/06/13 01:58	BP	SW 8260B*
Methyl methacrylate	< 120 ug/L		09/06/13 01:58	BP	SW 8260B 04KS
Methylene chloride	< 120 ug/L		09/06/13 01:58	BP	SW 8260B 04KS
MTBE	< 120 ug/L		09/06/13 01:58	BP	SW 8260B 04KS
Naphthalene	130 ug/L		09/06/13 01:58	BP	SW 8260B 04KS
n-Butylbenzene	< 120 ug/L		09/06/13 01:58	BP	SW 8260B 04KS
n-Propylbenzene	< 120 ug/L		09/06/13 01:58	BP	SW 8260B 04KS
o-Xylene	< 120 ug/L		09/06/13 01:58	BP	SW 8260B 04KS
p-Isopropyl toluene	160 ug/L		09/06/13 01:58	BP	SW 8260B 04KS
Propionitrile	< 250 ug/L		09/06/13 01:58	BP	SW 8260B 04KS
sec-Butylbenzene	< 120 ug/L		09/06/13 01:58	BP	SW 8260B 04KS
Styrene	< 120 ug/L		09/06/13 01:58	BP	SW 8260B 04KS
tert-Butylbenzene	< 120 ug/L		09/06/13 01:58	BP	SW 8260B 04KS
Tetrachloroethene	< 120 ug/L		09/06/13 01:58	BP	SW 8260B 04KS
Toluene	< 120 ug/L		09/06/13 01:58	BP	SW 8260B 04KS
trans-1,2-Dichloroethene	< 120 ug/L		09/06/13 01:58	BP	SW 8260B 04KS
trans-1,3-Dichloropropene	< 120 ug/L		09/06/13 01:58	BP	SW 8260B 04KS
trans-1,4-Dichloro-2-butene	< 120 ug/L		09/06/13 01:58	BP	SW 8260B*
Trichloroethene	< 120 ug/L		09/06/13 01:58	BP	SW 8260B 04KS
Trichlorofluoromethane	< 120 ug/L		09/06/13 01:58	BP	SW 8260B 04KS
Vinyl acetate	< 250 ug/L		09/06/13 01:58	BP	SW 8260B 04KS
Vinyl chloride	< 120 ug/L		09/06/13 01:58	BP	SW 8260B 04KS
Xylenes- Total	< 380 ug/L		09/06/13 01:58	BP	SW 8260B*
Surrogate: 1,2-Dichloroethane-d4	90 % 65.6-134		09/06/13 01:58	BP	SW 8260B
Surrogate: Bromofluorobenzene	93 % 61-140		09/06/13 01:58	BP	SW 8260B
Surrogate: Toluene-d8	92 % 75.4-120		09/06/13 01:58	BP	SW 8260B



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Bridgeton Landfill  
13570 St Charles Rock Road  
St. Louis, MO 63044  
Attn: Ed Galbraith

Date Received: 08/29/13 14:56  
Report Date: 09/11/13  
Customer #: 277310

**\*Laboratory Results\***

Sample No: **3084458-04**  
Sample Description: **TCLP I/IV D**

Collect Date: **08/27/13 12:45**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b>Semivolatile Organics - PIA</b>					
N-Nitrosodimethylamine	4300 ug/L		09/06/13 17:27	SNS	SW 8270C IL,AR,IA,KS, WI
Pyridine	< 2000 ug/L		09/06/13 17:27	SNS	SW 8270C IL,AR,IA,KS, WI
Phenol	19000 ug/L		09/06/13 17:27	SNS	SW 8270C IL,AR,IA,KS, WI
Aniline	< 2000 ug/L		09/06/13 17:27	SNS	SW 8270C IL,AR,KS,WI
Bis(2-chloroethyl) ether	< 2000 ug/L		09/06/13 17:27	SNS	SW 8270C IL,AR,IA,KS, WI
2-Chlorophenol	< 2000 ug/L		09/06/13 17:27	SNS	SW 8270C IL,AR,IA,KS, WI
1,3-Dichlorobenzene	< 2000 ug/L		09/06/13 17:27	SNS	SW 8270C IL,AR,IA,KS, WI
1,4-Dichlorobenzene	< 2000 ug/L		09/06/13 17:27	SNS	SW 8270C IL,AR,IA,KS, WI
Benzyl alcohol	7400 ug/L		09/06/13 17:27	SNS	SW 8270C IL,AR,IA,KS, WI
1,2-Dichlorobenzene	< 2000 ug/L		09/06/13 17:27	SNS	SW 8270C IL,AR,IA,KS, WI
2-Methylphenol	< 2000 ug/L		09/06/13 17:27	SNS	SW 8270C IL,AR,IA,KS, WI
Bis(2-chloroisopropyl) ether	< 2000 ug/L		09/06/13 17:27	SNS	SW 8270C IL,AR,IA,KS, WI
N-Nitrosodi-n-propylamine	< 2000 ug/L		09/06/13 17:27	SNS	SW 8270C IL,AR,IA,KS, WI
3- & 4-Methylphenol	11000 ug/L		09/06/13 17:27	SNS	SW 8270C IL,AR,IA,KS, WI
Hexachloroethane	< 2000 ug/L		09/06/13 17:27	SNS	SW 8270C IL,AR,IA,KS, WI
Nitrobenzene	< 2000 ug/L		09/06/13 17:27	SNS	SW 8270C IL,AR,IA,KS, WI
Isophorone	< 2000 ug/L		09/06/13 17:27	SNS	SW 8270C IL,AR,IA,KS, WI
2-Nitrophenol	< 2000 ug/L		09/06/13 17:27	SNS	SW 8270C IL,AR,IA,KS, WI
2,4-Dimethylphenol	< 2000 ug/L		09/06/13 17:27	SNS	SW 8270C IL,AR,IA,KS, WI
Bis(2-chloroethoxy) methane	< 2000 ug/L		09/06/13 17:27	SNS	SW 8270C IL,AR,IA,KS, WI
2,4-Dichlorophenol	< 2000 ug/L		09/06/13 17:27	SNS	SW 8270C IL,AR,IA,KS, WI
1,2,4-Trichlorobenzene	< 2000 ug/L		09/06/13 17:27	SNS	SW 8270C IL,AR,IA,KS, WI



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**\*Laboratory Results\***

Sample No: **3084458-04**  
Sample Description: **TCLP I/IV D**

Collect Date: **08/27/13 12:45**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b>Semivolatile Organics - PIA</b>					
1,2,4,5-Tetrachlorobenzene	< 2000 ug/L		09/06/13 17:27	SNS	SW 8270C IL,AR,KS,WI
Naphthalene	< 2000 ug/L		09/06/13 17:27	SNS	SW 8270C IL,AR,IA,KS,WI
4-Chloroaniline	< 2000 ug/L		09/06/13 17:27	SNS	SW 8270C IL,AR,IA,KS,WI
2,6-Dichlorophenol	< 2000 ug/L		09/06/13 17:27	SNS	SW 8270C IL,AR,IA,KS,WI
Hexachlorobutadiene	< 2000 ug/L		09/06/13 17:27	SNS	SW 8270C IL,AR,IA,KS,WI
4-Chloro-3-methylphenol	< 2000 ug/L		09/06/13 17:27	SNS	SW 8270C IL,AR,IA,KS,WI
2-Methylnaphthalene	< 2000 ug/L		09/06/13 17:27	SNS	SW 8270C IL,AR,IA,KS,WI
Hexachlorocyclopentadiene	< 2000 ug/L		09/06/13 17:27	SNS	SW 8270C IL,AR,IA,KS,WI
2,4,6-Trichlorophenol	< 10000 ug/L		09/06/13 17:27	SNS	SW 8270C IL,AR,IA,KS,WI
2,4,5-Trichlorophenol	< 10000 ug/L		09/06/13 17:27	SNS	SW 8270C IL,AR,IA,KS,WI
2-Chloronaphthalene	< 2000 ug/L		09/06/13 17:27	SNS	SW 8270C IL,AR,IA,KS,WI
2-Nitroaniline	< 10000 ug/L		09/06/13 17:27	SNS	SW 8270C IL,AR,IA,KS,WI
Dimethyl phthalate	< 2000 ug/L		09/06/13 17:27	SNS	SW 8270C IL,AR,IA,KS,WI
2,6-Dinitrotoluene	< 2000 ug/L		09/06/13 17:27	SNS	SW 8270C IL,AR,IA,KS,WI
Acenaphthylene	< 2000 ug/L		09/06/13 17:27	SNS	SW 8270C IL,AR,IA,KS,WI
3-Nitroaniline	< 10000 ug/L		09/06/13 17:27	SNS	SW 8270C IL,AR,IA,KS,WI
Acenaphthene	< 2000 ug/L		09/06/13 17:27	SNS	SW 8270C IL,AR,IA,KS,WI
2,4-Dinitrophenol	< 10000 ug/L		09/06/13 17:27	SNS	SW 8270C IL,AR,IA,KS,WI
4-Nitrophenol	< 10000 ug/L		09/06/13 17:27	SNS	SW 8270C IL,AR,IA,KS,WI
Dibenzofuran	< 2000 ug/L		09/06/13 17:27	SNS	SW 8270C IL,AR,IA,KS,WI
2,4-Dinitrotoluene	< 2000 ug/L		09/06/13 17:27	SNS	SW 8270C IL,AR,IA,KS,WI
2,3,4,6-Tetrachlorophenol	< 2000 ug/L		09/06/13 17:27	SNS	SW 8270C IL,AR,KS,WI



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**\*Laboratory Results\***

Sample No: **3084458-04**  
Sample Description: **TCLP I/IV D**

Collect Date: **08/27/13 12:45**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b>Semivolatile Organics - PIA</b>					
Diethyl phthalate	< 2000 ug/L		09/06/13 17:27	SNS	SW 8270C IL,AR,IA,KS, WI
Fluorene	< 2000 ug/L		09/06/13 17:27	SNS	SW 8270C IL,AR,IA,KS, WI
4-Chlorophenylphenyl ether	< 2000 ug/L		09/06/13 17:27	SNS	SW 8270C IL,AR,IA,KS, WI
4-Nitroaniline	< 10000 ug/L		09/06/13 17:27	SNS	SW 8270C IL,AR,IA,KS, WI
4,6-Dinitro-2-methylphenol	< 10000 ug/L		09/06/13 17:27	SNS	SW 8270C IL,AR,IA,KS, WI
N-Nitrosodiphenylamine	< 2000 ug/L		09/06/13 17:27	SNS	SW 8270C IL,AR,KS,WI
Diphenylamine	< 2000 ug/L		09/06/13 17:27	SNS	SW 8270C IL,AR
1,2-Diphenylhydrazine	< 2000 ug/L		09/06/13 17:27	SNS	SW 8270C IL,AR,KS
4-Bromophenyl phenyl ether	< 2000 ug/L		09/06/13 17:27	SNS	SW 8270C IL,AR,IA,KS, WI
Hexachlorobenzene	< 2000 ug/L		09/06/13 17:27	SNS	SW 8270C IL,AR,IA,KS, WI
Pentachlorophenol	< 10000 ug/L		09/06/13 17:27	SNS	SW 8270C IL,AR,IA,KS, WI
Phenanthrene	< 2000 ug/L		09/06/13 17:27	SNS	SW 8270C IL,AR,IA,KS, WI
Anthracene	< 2000 ug/L		09/06/13 17:27	SNS	SW 8270C IL,AR,IA,KS, WI
Di-n-butyl phthalate	< 2000 ug/L		09/06/13 17:27	SNS	SW 8270C IL,AR,IA,KS, WI
Fluoranthene	< 2000 ug/L		09/06/13 17:27	SNS	SW 8270C IL,AR,IA,KS, WI
Benzidine	< 16000 ug/L		09/06/13 17:27	SNS	SW 8270C IL,AR,KS,WI
Pyrene	< 2000 ug/L		09/06/13 17:27	SNS	SW 8270C IL,AR,IA,KS, WI
Butyl benzyl phthalate	< 2000 ug/L		09/06/13 17:27	SNS	SW 8270C IL,AR,IA,KS, WI
Benzo(a)anthracene	< 2000 ug/L		09/06/13 17:27	SNS	SW 8270C IL,AR,IA,KS, WI
3,3'-Dichlorobenzidine	< 4000 ug/L		09/06/13 17:27	SNS	SW 8270C IL,AR,IA,KS, WI
Chrysene	< 2000 ug/L		09/06/13 17:27	SNS	SW 8270C IL,AR,IA,KS, WI
Bis(2-ethylhexyl) phthalate	< 2000 ug/L		09/06/13 17:27	SNS	SW 8270C IL,AR,IA,KS, WI
Di-n-octyl phthalate	< 2000 ug/L		09/06/13 17:27	SNS	SW 8270C IL,AR,IA,KS, WI



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Bridgeton Landfill  
13570 St Charles Rock Road  
St. Louis, MO 63044  
Attn: Ed Galbraith

Date Received: 08/29/13 14:56  
Report Date: 09/11/13  
Customer #: 277310

**\*Laboratory Results\***

Sample No: **3084458-04**  
Sample Description: **TCLP I/IV D**

Collect Date: **08/27/13 12:45**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b>Semivolatile Organics - PIA</b>					
Benzo(b)fluoranthene	< 2000 ug/L		09/06/13 17:27	SNS	SW 8270C IL,AR,IA,KS, WI
Benzo(k)fluoranthene	< 2000 ug/L		09/06/13 17:27	SNS	SW 8270C IL,AR,IA,KS, WI
Benzo(a)pyrene	< 2000 ug/L		09/06/13 17:27	SNS	SW 8270C IL,AR,IA,KS, WI
Cresols- Total	< 4000 ug/L		09/06/13 17:27	SNS	SW 8270C*
3-Methylcholanthrene	< 2000 ug/L		09/06/13 17:27	SNS	SW 8270C IL,AR,KS,WI
Indeno(1,2,3-cd)pyrene	< 2000 ug/L		09/06/13 17:27	SNS	SW 8270C IL,AR,IA,KS, WI
Dibenzo(a,h)anthracene	< 2000 ug/L		09/06/13 17:27	SNS	SW 8270C IL,AR,IA,KS, WI
Benzo(g,h,i)perylene	< 2000 ug/L		09/06/13 17:27	SNS	SW 8270C IL,AR,IA,KS, WI
<b>Volatile Organics - STL</b>					
1,1,1,2-Tetrachloroethane	< 120 ug/L		09/06/13 02:22	BP	SW 8260B 04KS
1,1,1-Trichloroethane	< 120 ug/L		09/06/13 02:22	BP	SW 8260B 04KS
1,1,2,2-Tetrachloroethane	< 120 ug/L		09/06/13 02:22	BP	SW 8260B 04KS
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon)	< 250 ug/L		09/06/13 02:22	BP	SW 8260B*
1,1,2-Trichloroethane	< 120 ug/L		09/06/13 02:22	BP	SW 8260B 04KS
1,1-Dichloroethane	< 120 ug/L		09/06/13 02:22	BP	SW 8260B 04KS
1,1-Dichloroethene	< 120 ug/L		09/06/13 02:22	BP	SW 8260B 04KS
1,1-Dichloropropene	< 120 ug/L		09/06/13 02:22	BP	SW 8260B 04KS
1,2,3-Trichlorobenzene	< 120 ug/L		09/06/13 02:22	BP	SW 8260B 04KS
1,2,3-Trichloropropane	< 120 ug/L		09/06/13 02:22	BP	SW 8260B 04KS
1,2,4-Trichlorobenzene	< 120 ug/L		09/06/13 02:22	BP	SW 8260B 04KS
1,2,4-Trimethylbenzene	< 120 ug/L		09/06/13 02:22	BP	SW 8260B 04KS
1,2-Dibromo-3-chloropropane	< 120 ug/L		09/06/13 02:22	BP	SW 8260B*
1,2-Dibromoethane	< 120 ug/L		09/06/13 02:22	BP	SW 8260B*
1,2-Dichloroethene- Total	< 250 ug/L		09/06/13 02:22	BP	SW 8260B*
1,2-Dichlorobenzene	< 120 ug/L		09/06/13 02:22	BP	SW 8260B 04KS
1,2-Dichloroethane	< 120 ug/L		09/06/13 02:22	BP	SW 8260B 04KS
1,2-Dichloropropane	< 120 ug/L		09/06/13 02:22	BP	SW 8260B 04KS
1,3,5-Trimethylbenzene	< 120 ug/L		09/06/13 02:22	BP	SW 8260B 04KS
1,3-Dichlorobenzene	< 120 ug/L		09/06/13 02:22	BP	SW 8260B 04KS
1,3-Dichloropropane	< 120 ug/L		09/06/13 02:22	BP	SW 8260B 04KS



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Bridgeton Landfill  
13570 St Charles Rock Road  
St. Louis, MO 63044  
Attn: Ed Galbraith

Date Received: 08/29/13 14:56  
Report Date: 09/11/13  
Customer #: 277310

**\*Laboratory Results\***

Sample No: **3084458-04**  
Sample Description: **TCLP I/IV D**

Collect Date: **08/27/13 12:45**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b>Volatile Organics - STL</b>					
1,3-Dichloropropene - Total	< 250 ug/L		09/06/13 02:22	BP	SW 8260B*
1,4-Dichlorobenzene	< 120 ug/L		09/06/13 02:22	BP	SW 8260B 04KS
1,4-Dioxane	< 1200 ug/L		09/06/13 02:22	BP	SW 8260B*
2,2-Dichloropropane	< 120 ug/L		09/06/13 02:22	BP	SW 8260B 04KS
2-Butanone	32000 ug/L		09/05/13 22:20	BP	SW 8260B 04KS
2-Chloroethylvinyl ether	< 120 ug/L		09/06/13 02:22	BP	SW 8260B 04KS
2-Chlorotoluene	< 120 ug/L		09/06/13 02:22	BP	SW 8260B 04KS
2-Hexanone	610 ug/L		09/06/13 02:22	BP	SW 8260B 04KS
2-Nitropropane	< 250 ug/L		09/06/13 02:22	BP	SW 8260B 04KS
4-Chlorotoluene	< 120 ug/L		09/06/13 02:22	BP	SW 8260B 04KS
4-Methyl-2-pentanone (MIBK)	940 ug/L		09/06/13 02:22	BP	SW 8260B 04KS
Acetone	63000 ug/L		09/05/13 22:20	BP	SW 8260B 04KS
Acetonitrile	< 1200 ug/L		09/06/13 02:22	BP	SW 8260B 04KS
Acrolein	< 1200 ug/L		09/06/13 02:22	BP	SW 8260B 04KS
Acrylonitrile	< 250 ug/L		09/06/13 02:22	BP	SW 8260B 04KS
Allyl Chloride	< 120 ug/L		09/06/13 02:22	BP	SW 8260B 04KS
Benzene	510 ug/L		09/06/13 02:22	BP	SW 8260B 04KS
Bromobenzene	< 120 ug/L		09/06/13 02:22	BP	SW 8260B 04KS
Bromochloromethane	< 120 ug/L		09/06/13 02:22	BP	SW 8260B 04KS
Bromodichloromethane	< 120 ug/L		09/06/13 02:22	BP	SW 8260B 04KS
Bromoform	< 120 ug/L		09/06/13 02:22	BP	SW 8260B 04KS
Bromomethane	< 250 ug/L		09/06/13 02:22	BP	SW 8260B 04KS
Carbon disulfide	< 120 ug/L		09/06/13 02:22	BP	SW 8260B 04KS
Carbon tetrachloride	< 120 ug/L		09/06/13 02:22	BP	SW 8260B 04KS
Chlorobenzene	< 120 ug/L		09/06/13 02:22	BP	SW 8260B 04KS
Chloroethane	< 250 ug/L		09/06/13 02:22	BP	SW 8260B 04KS
Chloroform	< 120 ug/L		09/06/13 02:22	BP	SW 8260B 04KS
Chloromethane	< 250 ug/L		09/06/13 02:22	BP	SW 8260B 04KS
cis-1,2-Dichloroethene	< 120 ug/L		09/06/13 02:22	BP	SW 8260B 04KS
cis-1,3-Dichloropropene	< 120 ug/L		09/06/13 02:22	BP	SW 8260B 04KS
Dibromochloromethane	< 120 ug/L		09/06/13 02:22	BP	SW 8260B 04KS
Dibromomethane	< 120 ug/L		09/06/13 02:22	BP	SW 8260B 04KS
Dichlorodifluoromethane	< 250 ug/L		09/06/13 02:22	BP	SW 8260B 04KS





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St. Louis, MO 63044  
Attn: Ed Galbraith

Date Received: 08/29/13 14:56  
Report Date: 09/11/13  
Customer #: 277310

**\*Laboratory Results\***

Sample No: **3084458-04**  
Sample Description: **TCLP I/IV D**

Collect Date: **08/27/13 12:45**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b>Volatile Organics - STL</b>					
Ethyl methacrylate	< 120 ug/L		09/06/13 02:22	BP	SW 8260B*
Ethylbenzene	< 120 ug/L		09/06/13 02:22	BP	SW 8260B 04KS
Hexachlorobutadiene	< 120 ug/L		09/06/13 02:22	BP	SW 8260B 04KS
Iodomethane	< 250 ug/L		09/06/13 02:22	BP	SW 8260B 04KS
Isobutanol	86000 ug/L		09/05/13 22:20	BP	SW 8260B*
Isopropylbenzene	< 120 ug/L		09/06/13 02:22	BP	SW 8260B 04KS
m,p-Xylene	< 250 ug/L		09/06/13 02:22	BP	SW 8260B 04KS
Methacrylonitrile	< 120 ug/L		09/06/13 02:22	BP	SW 8260B*
Methyl methacrylate	< 120 ug/L		09/06/13 02:22	BP	SW 8260B 04KS
Methylene chloride	< 120 ug/L		09/06/13 02:22	BP	SW 8260B 04KS
MTBE	< 120 ug/L		09/06/13 02:22	BP	SW 8260B 04KS
Naphthalene	130 ug/L		09/06/13 02:22	BP	SW 8260B 04KS
n-Butylbenzene	< 120 ug/L		09/06/13 02:22	BP	SW 8260B 04KS
n-Propylbenzene	< 120 ug/L		09/06/13 02:22	BP	SW 8260B 04KS
o-Xylene	< 120 ug/L		09/06/13 02:22	BP	SW 8260B 04KS
p-Isopropyl toluene	120 ug/L		09/06/13 02:22	BP	SW 8260B 04KS
Propionitrile	< 250 ug/L		09/06/13 02:22	BP	SW 8260B 04KS
sec-Butylbenzene	< 120 ug/L		09/06/13 02:22	BP	SW 8260B 04KS
Styrene	< 120 ug/L		09/06/13 02:22	BP	SW 8260B 04KS
tert-Butylbenzene	< 120 ug/L		09/06/13 02:22	BP	SW 8260B 04KS
Tetrachloroethene	< 120 ug/L		09/06/13 02:22	BP	SW 8260B 04KS
Toluene	< 120 ug/L		09/06/13 02:22	BP	SW 8260B 04KS
trans-1,2-Dichloroethene	< 120 ug/L		09/06/13 02:22	BP	SW 8260B 04KS
trans-1,3-Dichloropropene	< 120 ug/L		09/06/13 02:22	BP	SW 8260B 04KS
trans-1,4-Dichloro-2-butene	< 120 ug/L		09/06/13 02:22	BP	SW 8260B*
Trichloroethene	< 120 ug/L		09/06/13 02:22	BP	SW 8260B 04KS
Trichlorofluoromethane	< 120 ug/L		09/06/13 02:22	BP	SW 8260B 04KS
Vinyl acetate	< 250 ug/L		09/06/13 02:22	BP	SW 8260B 04KS
Vinyl chloride	< 120 ug/L		09/06/13 02:22	BP	SW 8260B 04KS
Xylenes- Total	< 380 ug/L		09/06/13 02:22	BP	SW 8260B*
Surrogate: 1,2-Dichloroethane-d4	86 % 65.6-134		09/06/13 02:22	BP	SW 8260B
Surrogate: Bromofluorobenzene	95 % 61-140		09/06/13 02:22	BP	SW 8260B
Surrogate: Toluene-d8	87 % 75.4-120		09/06/13 02:22	BP	SW 8260B



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St. Louis, MO 63044  
Attn: Ed Galbraith

Date Received: 08/29/13 14:56  
Report Date: 09/11/13  
Customer #: 277310

**\*Laboratory Results\***

Sample No: **3084458-05**  
Sample Description: **Trip Blank**

Collect Date: **08/27/13 00:00**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b>Volatile Organics - STL</b>					
1,1,1,2-Tetrachloroethane	< 5.0 ug/L		09/05/13 22:45	BP	SW 8260B 04KS
1,1,1-Trichloroethane	< 5.0 ug/L		09/05/13 22:45	BP	SW 8260B 04KS
1,1,2,2-Tetrachloroethane	< 5.0 ug/L		09/05/13 22:45	BP	SW 8260B 04KS
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon)	< 10 ug/L		09/05/13 22:45	BP	SW 8260B*
1,1,2-Trichloroethane	< 5.0 ug/L		09/05/13 22:45	BP	SW 8260B 04KS
1,1-Dichloroethane	< 5.0 ug/L		09/05/13 22:45	BP	SW 8260B 04KS
1,1-Dichloroethene	< 5.0 ug/L		09/05/13 22:45	BP	SW 8260B 04KS
1,1-Dichloropropene	< 5.0 ug/L		09/05/13 22:45	BP	SW 8260B 04KS
1,2,3-Trichlorobenzene	< 5.0 ug/L		09/05/13 22:45	BP	SW 8260B 04KS
1,2,3-Trichloropropane	< 5.0 ug/L		09/05/13 22:45	BP	SW 8260B 04KS
1,2,4-Trichlorobenzene	< 5.0 ug/L		09/05/13 22:45	BP	SW 8260B 04KS
1,2,4-Trimethylbenzene	< 5.0 ug/L		09/05/13 22:45	BP	SW 8260B 04KS
1,2-Dibromo-3-chloropropane	< 5.0 ug/L		09/05/13 22:45	BP	SW 8260B*
1,2-Dibromoethane	< 5.0 ug/L		09/05/13 22:45	BP	SW 8260B*
1,2-Dichloroethene- Total	< 10 ug/L		09/05/13 22:45	BP	SW 8260B*
1,2-Dichlorobenzene	< 5.0 ug/L		09/05/13 22:45	BP	SW 8260B 04KS
1,2-Dichloroethane	< 5.0 ug/L		09/05/13 22:45	BP	SW 8260B 04KS
1,2-Dichloropropane	< 5.0 ug/L		09/05/13 22:45	BP	SW 8260B 04KS
1,3,5-Trimethylbenzene	< 5.0 ug/L		09/05/13 22:45	BP	SW 8260B 04KS
1,3-Dichlorobenzene	< 5.0 ug/L		09/05/13 22:45	BP	SW 8260B 04KS
1,3-Dichloropropane	< 5.0 ug/L		09/05/13 22:45	BP	SW 8260B 04KS
1,3-Dichloropropene - Total	< 10 ug/L		09/05/13 22:45	BP	SW 8260B*
1,4-Dichlorobenzene	< 5.0 ug/L		09/05/13 22:45	BP	SW 8260B 04KS
1,4-Dioxane	< 50 ug/L		09/05/13 22:45	BP	SW 8260B*
2,2-Dichloropropane	< 5.0 ug/L		09/05/13 22:45	BP	SW 8260B 04KS
2-Butanone	< 10 ug/L		09/05/13 22:45	BP	SW 8260B 04KS
2-Chloroethylvinyl ether	< 5.0 ug/L		09/05/13 22:45	BP	SW 8260B 04KS
2-Chlorotoluene	< 5.0 ug/L		09/05/13 22:45	BP	SW 8260B 04KS
2-Hexanone	< 10 ug/L		09/05/13 22:45	BP	SW 8260B 04KS
2-Nitropropane	< 10 ug/L		09/05/13 22:45	BP	SW 8260B 04KS
4-Chlorotoluene	< 5.0 ug/L		09/05/13 22:45	BP	SW 8260B 04KS
4-Methyl-2-pentanone (MIBK)	< 10 ug/L		09/05/13 22:45	BP	SW 8260B 04KS
Acetone	< 10 ug/L		09/05/13 22:45	BP	SW 8260B 04KS

3084458



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Bridgeton Landfill  
13570 St Charles Rock Road  
St. Louis, MO 63044  
Attn: Ed Galbraith

Date Received: 08/29/13 14:56  
Report Date: 09/11/13  
Customer #: 277310

**\*Laboratory Results\***

Sample No: **3084458-05**  
Sample Description: **Trip Blank**

Collect Date: **08/27/13 00:00**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b><u>Volatile Organics - STL</u></b>					
Acetonitrile	< 50 ug/L		09/05/13 22:45	BP	SW 8260B 04KS
Acrolein	< 50 ug/L		09/05/13 22:45	BP	SW 8260B 04KS
Acrylonitrile	< 10 ug/L		09/05/13 22:45	BP	SW 8260B 04KS
Allyl Chloride	< 5.0 ug/L		09/05/13 22:45	BP	SW 8260B 04KS
Benzene	< 5.0 ug/L		09/05/13 22:45	BP	SW 8260B 04KS
Bromobenzene	< 5.0 ug/L		09/05/13 22:45	BP	SW 8260B 04KS
Bromochloromethane	< 5.0 ug/L		09/05/13 22:45	BP	SW 8260B 04KS
Bromodichloromethane	< 5.0 ug/L		09/05/13 22:45	BP	SW 8260B 04KS
Bromoform	< 5.0 ug/L		09/05/13 22:45	BP	SW 8260B 04KS
Bromomethane	< 10 ug/L		09/05/13 22:45	BP	SW 8260B 04KS
Carbon disulfide	< 5.0 ug/L		09/05/13 22:45	BP	SW 8260B 04KS
Carbon tetrachloride	< 5.0 ug/L		09/05/13 22:45	BP	SW 8260B 04KS
Chlorobenzene	< 5.0 ug/L		09/05/13 22:45	BP	SW 8260B 04KS
Chloroethane	< 10 ug/L		09/05/13 22:45	BP	SW 8260B 04KS
Chloroform	< 5.0 ug/L		09/05/13 22:45	BP	SW 8260B 04KS
Chloromethane	< 10 ug/L		09/05/13 22:45	BP	SW 8260B 04KS
cis-1,2-Dichloroethene	< 5.0 ug/L		09/05/13 22:45	BP	SW 8260B 04KS
cis-1,3-Dichloropropene	< 5.0 ug/L		09/05/13 22:45	BP	SW 8260B 04KS
Dibromochloromethane	< 5.0 ug/L		09/05/13 22:45	BP	SW 8260B 04KS
Dibromomethane	< 5.0 ug/L		09/05/13 22:45	BP	SW 8260B 04KS
Dichlorodifluoromethane	< 10 ug/L		09/05/13 22:45	BP	SW 8260B 04KS
Ethyl methacrylate	< 5.0 ug/L		09/05/13 22:45	BP	SW 8260B*
Ethylbenzene	< 5.0 ug/L		09/05/13 22:45	BP	SW 8260B 04KS
Hexachlorobutadiene	< 5.0 ug/L		09/05/13 22:45	BP	SW 8260B 04KS
Iodomethane	< 10 ug/L		09/05/13 22:45	BP	SW 8260B 04KS
Isobutanol	< 50 ug/L		09/05/13 22:45	BP	SW 8260B*
Isopropylbenzene	< 5.0 ug/L		09/05/13 22:45	BP	SW 8260B 04KS
m,p-Xylene	< 10 ug/L		09/05/13 22:45	BP	SW 8260B 04KS
Methacrylonitrile	< 5.0 ug/L		09/05/13 22:45	BP	SW 8260B*
Methyl methacrylate	< 5.0 ug/L		09/05/13 22:45	BP	SW 8260B 04KS
Methylene chloride	< 5.0 ug/L		09/05/13 22:45	BP	SW 8260B 04KS
MTBE	< 5.0 ug/L		09/05/13 22:45	BP	SW 8260B 04KS
Naphthalene	< 5.0 ug/L		09/05/13 22:45	BP	SW 8260B 04KS



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Date Received: 08/29/13 14:56  
Report Date: 09/11/13  
Customer #: 277310

**\*Laboratory Results\***

Sample No: **3084458-05**  
Sample Description: **Trip Blank**

Collect Date: **08/27/13 00:00**  
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<b><u>Volatile Organics - STL</u></b>					
n-Butylbenzene	< 5.0 ug/L		09/05/13 22:45	BP	SW 8260B 04KS
n-Propylbenzene	< 5.0 ug/L		09/05/13 22:45	BP	SW 8260B 04KS
o-Xylene	< 5.0 ug/L		09/05/13 22:45	BP	SW 8260B 04KS
p-Isopropyl toluene	< 5.0 ug/L		09/05/13 22:45	BP	SW 8260B 04KS
Propionitrile	< 10 ug/L		09/05/13 22:45	BP	SW 8260B 04KS
sec-Butylbenzene	< 5.0 ug/L		09/05/13 22:45	BP	SW 8260B 04KS
Styrene	< 5.0 ug/L		09/05/13 22:45	BP	SW 8260B 04KS
tert-Butylbenzene	< 5.0 ug/L		09/05/13 22:45	BP	SW 8260B 04KS
Tetrachloroethene	< 5.0 ug/L		09/05/13 22:45	BP	SW 8260B 04KS
Toluene	< 5.0 ug/L		09/05/13 22:45	BP	SW 8260B 04KS
trans-1,2-Dichloroethene	< 5.0 ug/L		09/05/13 22:45	BP	SW 8260B 04KS
trans-1,3-Dichloropropene	< 5.0 ug/L		09/05/13 22:45	BP	SW 8260B 04KS
trans-1,4-Dichloro-2-butene	< 5.0 ug/L		09/05/13 22:45	BP	SW 8260B*
Trichloroethene	< 5.0 ug/L		09/05/13 22:45	BP	SW 8260B 04KS
Trichlorofluoromethane	< 5.0 ug/L		09/05/13 22:45	BP	SW 8260B 04KS
Vinyl acetate	< 10 ug/L		09/05/13 22:45	BP	SW 8260B 04KS
Vinyl chloride	< 5.0 ug/L		09/05/13 22:45	BP	SW 8260B 04KS
Xylenes- Total	< 15 ug/L		09/05/13 22:45	BP	SW 8260B*
Surrogate: 1,2-Dichloroethane-d4	83 % 65.6-134		09/05/13 22:45	BP	SW 8260B
Surrogate: Bromofluorobenzene	83 % 61-140		09/05/13 22:45	BP	SW 8260B
Surrogate: Toluene-d8	86 % 75.4-120		09/05/13 22:45	BP	SW 8260B



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Attn: Ed Galbraith

Date Received: 08/29/13 14:56  
Report Date: 09/11/13  
Customer #: 277310

**\*Laboratory Results\***

**General Chemistry - Quality Control**

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
---------	--------	-------	-------------	---------------	------	-------------	-----	-----------

**Batch B314834 - 04-No Prep WC**

<b>Duplicate (B314834-DUP1)</b>	<b>Source: 3084458-01</b>	Prepared & Analyzed: 08/30/13						
Solids - total solids (TS)	59400	mg/L		61200			3	5

**Volatile Organics - Quality Control**

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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**Batch B315016 - 04-No Prep VOA**

<b>Blank (B315016-BLK1)</b>	Prepared & Analyzed: 09/05/13							
1,1,1,2-Tetrachloroethane	< 5.0	ug/L						
1,1,1-Trichloroethane	< 5.0	ug/L						
1,1,2,2-Tetrachloroethane	< 5.0	ug/L						
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon)	< 10	ug/L						
1,1,2-Trichloroethane	< 5.0	ug/L						
1,1-Dichloroethane	< 5.0	ug/L						
1,1-Dichloroethene	< 5.0	ug/L						
1,1-Dichloropropene	< 5.0	ug/L						
1,2,3-Trichlorobenzene	< 5.0	ug/L						
1,2,3-Trichloropropane	< 5.0	ug/L						
1,2,4-Trichlorobenzene	< 5.0	ug/L						
1,2,4-Trimethylbenzene	< 5.0	ug/L						
1,2-Dibromo-3-chloropropane	< 5.0	ug/L						
1,2-Dibromoethane	< 5.0	ug/L						
1,2-Dichloroethene- Total	< 10	ug/L						
1,2-Dichlorobenzene	< 5.0	ug/L						
1,2-Dichloroethane	< 5.0	ug/L						
1,2-Dichloropropane	< 5.0	ug/L						
1,3,5-Trimethylbenzene	< 5.0	ug/L						
1,3-Dichlorobenzene	< 5.0	ug/L						
1,3-Dichloropropane	< 5.0	ug/L						
1,3-Dichloropropene - Total	< 10	ug/L						
1,4-Dichlorobenzene	< 5.0	ug/L						
1,4-Dioxane	< 50	ug/L						
2,2-Dichloropropane	< 5.0	ug/L						
2-Butanone	< 10	ug/L						
2-Chloroethylvinyl ether	< 5.0	ug/L						
2-Chlorotoluene	< 5.0	ug/L						
2-Hexanone	< 10	ug/L						



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Bridgeton Landfill  
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St. Louis, MO 63044  
Attn: Ed Galbraith

Date Received: 08/29/13 14:56  
Report Date: 09/11/13  
Customer #: 277310

**\*Laboratory Results\***

**Volatile Organics - Quality Control**

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>Batch B315016 - 04-No Prep VOA</b>								
<b>Blank (B315016-BLK1)</b>			Prepared & Analyzed: 09/05/13					
2-Nitropropane	< 10	ug/L						
4-Chlorotoluene	< 5.0	ug/L						
4-Methyl-2-pentanone (MIBK)	< 10	ug/L						
Acetone	< 10	ug/L						
Acetonitrile	< 50	ug/L						
Acrolein	< 50	ug/L						
Acrylonitrile	< 10	ug/L						
Allyl Chloride	< 5.0	ug/L						
Benzene	< 5.0	ug/L						
Bromobenzene	< 5.0	ug/L						
Bromochloromethane	< 5.0	ug/L						
Bromodichloromethane	< 5.0	ug/L						
Bromoform	< 5.0	ug/L						
Bromomethane	< 10	ug/L						
Carbon disulfide	< 5.0	ug/L						
Carbon tetrachloride	< 5.0	ug/L						
Chlorobenzene	< 5.0	ug/L						
Chloroethane	< 10	ug/L						
Chloroform	< 5.0	ug/L						
Chloromethane	< 10	ug/L						
cis-1,2-Dichloroethene	< 5.0	ug/L						
cis-1,3-Dichloropropene	< 5.0	ug/L						
Dibromochloromethane	< 5.0	ug/L						
Dibromomethane	< 5.0	ug/L						
Dichlorodifluoromethane	< 10	ug/L						
Ethyl methacrylate	< 5.0	ug/L						
Ethylbenzene	< 5.0	ug/L						
Hexachlorobutadiene	< 5.0	ug/L						
Iodomethane	< 10	ug/L						
Isobutanol	< 50	ug/L						
Isopropylbenzene	< 5.0	ug/L						
m,p-Xylene	< 10	ug/L						
Methacrylonitrile	< 5.0	ug/L						
Methyl methacrylate	< 5.0	ug/L						
Methylene chloride	< 5.0	ug/L						
MTBE	< 5.0	ug/L						
Naphthalene	< 5.0	ug/L						
n-Butylbenzene	< 5.0	ug/L						
n-Propylbenzene	< 5.0	ug/L						



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**Volatile Organics - Quality Control**

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>Batch B315016 - 04-No Prep VOA</b>								
<b>Blank (B315016-BLK1)</b>			Prepared & Analyzed: 09/05/13					
o-Xylene	< 5.0	ug/L						
p-Isopropyl toluene	< 5.0	ug/L						
Propionitrile	< 10	ug/L						
sec-Butylbenzene	< 5.0	ug/L						
Styrene	< 5.0	ug/L						
tert-Butylbenzene	< 5.0	ug/L						
Tetrachloroethene	< 5.0	ug/L						
Toluene	< 5.0	ug/L						
trans-1,2-Dichloroethene	< 5.0	ug/L						
trans-1,3-Dichloropropene	< 5.0	ug/L						
trans-1,4-Dichloro-2-butene	< 5.0	ug/L						
Trichloroethene	< 5.0	ug/L						
Trichlorofluoromethane	< 5.0	ug/L						
Vinyl acetate	< 10	ug/L						
Vinyl chloride	< 5.0	ug/L						
Xylenes- Total	< 15	ug/L						
<i>Surrogate: 1,2-Dichloroethane-d4</i>	28.5	ug/L	30.00		95	65.6-134		
<i>Surrogate: Bromofluorobenzene</i>	26.4	ug/L	30.00		88	61-140		
<i>Surrogate: Toluene-d8</i>	27.7	ug/L	30.00		92	75.4-120		
<b>LCS (B315016-BS1)</b>			Prepared & Analyzed: 09/05/13					
1,1,1-Trichloroethane	17	ug/L	20.00		85	75-125		
1,1,1,2-Tetrachloroethane	18	ug/L	20.00		89	73-129		
1,1,2-Trichloroethane	19	ug/L	20.00		93	73-129		
1,1-Dichloroethane	18	ug/L	20.00		88	75-140		
1,1-Dichloroethene	17	ug/L	20.00		85	71-136		
1,2-Dichlorobenzene	18	ug/L	20.00		92	70-122		
1,2-Dichloroethane	19	ug/L	20.00		97	77-126		
1,2-Dichloropropane	19	ug/L	20.00		93	80-126		
1,3-Dichlorobenzene	22	ug/L	20.00		109	77-125		
1,4-Dichlorobenzene	19	ug/L	20.00		94	74-119		
2-Chloroethylvinyl ether	20	ug/L	20.00		100	59-127		
Acrolein	120	ug/L	200.0		60	36-139		
Acrylonitrile	15	ug/L	20.00		77	43-133		
Benzene	19	ug/L	20.00		96	75-123		
Bromodichloromethane	19	ug/L	20.00		97	72-126		
Bromoform	20	ug/L	20.00		98	50-121		
Bromomethane	20	ug/L	20.00		98	19-149		
Carbon tetrachloride	16	ug/L	20.00		81	75-123		
Chlorobenzene	19	ug/L	20.00		96	76-121		



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**Volatile Organics - Quality Control**

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>Batch B315016 - 04-No Prep VOA</b>								
<b>LCS (B315016-BS1)</b>			Prepared & Analyzed: 09/05/13					
Chloroethane	21	ug/L	20.00		104	24-151		
Chloroform	19	ug/L	20.00		93	73-136		
Chloromethane	21	ug/L	20.00		105	44-126		
cis-1,3-Dichloropropene	19	ug/L	20.00		96	79-121		
Dibromochloromethane	19	ug/L	20.00		94	73-122		
Ethylbenzene	19	ug/L	20.00		95	76-129		
m,p-Xylene	39	ug/L	40.00		96	71-123		
Methylene chloride	18	ug/L	20.00		89	76-143		
o-Xylene	20	ug/L	20.00		100	72-123		
Tetrachloroethene	C, X 31	ug/L	20.00		156	53-147		
Toluene	19	ug/L	20.00		97	75-128		
trans-1,2-Dichloroethene	18	ug/L	20.00		92	72-136		
trans-1,3-Dichloropropene	20	ug/L	20.00		100	72-120		
Trichloroethene	18	ug/L	20.00		88	74-131		
Trichlorofluoromethane	21	ug/L	20.00		103	68-134		
Vinyl chloride	20	ug/L	20.00		102	48-129		
Surrogate: 1,2-Dichloroethane-d4	26.3	ug/L	30.00		88	60.5-136		
Surrogate: Bromofluorobenzene	26.7	ug/L	30.00		89	71.3-122		
Surrogate: Toluene-d8	25.8	ug/L	30.00		86	71.9-118		
<b>Matrix Spike (B315016-MS1)</b>			<b>Source: 3084458-01</b>			Prepared: 09/05/13 Analyzed: 09/06/13		
1,1,1-Trichloroethane	177	ug/L	500.0	ND	35	27-153		
1,1,2,2-Tetrachloroethane	465	ug/L	500.0	ND	93	32-186		
1,1,2-Trichloroethane	509	ug/L	500.0	ND	102	38-171		
1,1-Dichloroethane	Q3 187	ug/L	500.0	ND	37	39-162		
1,1-Dichloroethene	Q3 94	ug/L	500.0	ND	19	25-172		
1,2-Dichlorobenzene	382	ug/L	500.0	ND	76	57-129		
1,2-Dichloroethane	315	ug/L	500.0	ND	63	60-135		
1,2-Dichloropropane	280	ug/L	500.0	ND	56	55-140		
1,3-Dichlorobenzene	341	ug/L	500.0	ND	68	53-133		
1,4-Dichlorobenzene	425	ug/L	500.0	120	61	61-125		
Acrolein	3490	ug/L	5000	ND	70	25-187		
Acrylonitrile	423	ug/L	500.0	ND	85	39-135		
Benzene	Q3 1050	ug/L	500.0	894	31	39-150		
Bromodichloromethane	291	ug/L	500.0	ND	58	58-135		
Bromoform	385	ug/L	500.0	ND	77	34-123		
Bromomethane	168	ug/L	500.0	ND	34	25-148		
Carbon tetrachloride	Q3 103	ug/L	500.0	ND	21	25-157		
Chlorobenzene	Q3 267	ug/L	500.0	ND	53	59-131		
Chloroethane	Q3 112	ug/L	500.0	ND	22	25-154		





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**\*Laboratory Results\***

**Volatile Organics - Quality Control**

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>Batch B315016 - 04-No Prep VOA</b>								
<b>Matrix Spike (B315016-MS1)</b>		<b>Source: 3084458-01</b>		Prepared: 09/05/13 Analyzed: 09/06/13				
Chloroform	272	ug/L	500.0	ND	54	48-153		
Chloromethane	Q3 < 250	ug/L	500.0	ND		25-150		
cis-1,3-Dichloropropene	Q3 277	ug/L	500.0	ND	55	60-131		
Dibromochloromethane	303	ug/L	500.0	ND	61	57-130		
Ethylbenzene	327	ug/L	500.0	113	43	42-146		
m,p-Xylene	584	ug/L	1000	125	46	37-143		
Methylene chloride	268	ug/L	500.0	ND	54	52-162		
o-Xylene	351	ug/L	500.0	72	56	46-139		
Tetrachloroethene	175	ug/L	500.0	ND	35	25-134		
Toluene	369	ug/L	500.0	159	42	25-167		
trans-1,2-Dichloroethene	161	ug/L	500.0	ND	32	29-156		
trans-1,3-Dichloropropene	351	ug/L	500.0	ND	70	57-123		
Trichloroethene	Q3 169	ug/L	500.0	ND	34	38-149		
Trichlorofluoromethane	Q3 82	ug/L	500.0	ND	16	25-176		
Vinyl chloride	Q3 93	ug/L	500.0	ND	19	25-156		
Surrogate: 1,2-Dichloroethane-d4	24.5	ug/L	30.00		82	58.5-136		
Surrogate: Bromofluorobenzene	29.9	ug/L	30.00		100	56.9-139		
Surrogate: Toluene-d8	26.3	ug/L	30.00		88	72.4-120		
<b>Matrix Spike Dup (B315016-MSD1)</b>		<b>Source: 3084458-01</b>		Prepared: 09/05/13 Analyzed: 09/06/13				
1,1,1-Trichloroethane	168	ug/L	500.0	ND	34	27-153	5	40
1,1,2,2-Tetrachloroethane	427	ug/L	500.0	ND	85	32-186	8	40
1,1,2-Trichloroethane	454	ug/L	500.0	ND	91	38-171	12	40
1,1-Dichloroethane	Q3 160	ug/L	500.0	ND	32	39-162	16	40
1,1-Dichloroethene	Q3 87	ug/L	500.0	ND	17	25-172	8	40
1,2-Dichlorobenzene	342	ug/L	500.0	ND	68	57-129	11	40
1,2-Dichloroethane	309	ug/L	500.0	ND	62	60-135	2	40
1,2-Dichloropropane	281	ug/L	500.0	ND	56	55-140	0.2	40
1,3-Dichlorobenzene	319	ug/L	500.0	ND	64	53-133	7	40
1,4-Dichlorobenzene	Q2 403	ug/L	500.0	120	57	61-125	5	40
Acrolein	3460	ug/L	5000	ND	69	25-187	0.9	40
Acrylonitrile	407	ug/L	500.0	ND	81	39-135	4	40
Benzene	Q3 1020	ug/L	500.0	894	26	39-150	2	40
Bromodichloromethane	Q2 284	ug/L	500.0	ND	57	58-135	3	40
Bromoform	356	ug/L	500.0	ND	71	34-123	8	40
Bromomethane	165	ug/L	500.0	ND	33	25-148	2	40
Carbon tetrachloride	Q3 101	ug/L	500.0	ND	20	25-157	1	40
Chlorobenzene	Q3 246	ug/L	500.0	ND	49	59-131	8	40
Chloroethane	Q3 97	ug/L	500.0	ND	19	25-154	14	40
Chloroform	262	ug/L	500.0	ND	52	48-153	4	40

3084458



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**\*Laboratory Results\***

**Volatile Organics - Quality Control**

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>Batch B315016 - 04-No Prep VOA</b>								
<b>Matrix Spike Dup (B315016-MSD1)</b>		<b>Source: 3084458-01</b>		Prepared: 09/05/13 Analyzed: 09/06/13				
Chloromethane	Q3 < 250	ug/L	500.0	ND		25-150		40
cis-1,3-Dichloropropene	Q3 279	ug/L	500.0	ND	56	60-131	0.6	40
Dibromochloromethane	288	ug/L	500.0	ND	58	57-130	5	40
Ethylbenzene	Q2 298	ug/L	500.0	113	37	42-146	9	40
m,p-Xylene	530	ug/L	1000	125	41	37-143	10	40
Methylene chloride	Q2 246	ug/L	500.0	ND	49	52-162	9	40
o-Xylene	327	ug/L	500.0	72	51	46-139	7	40
Tetrachloroethene	158	ug/L	500.0	ND	32	25-134	10	40
Toluene	343	ug/L	500.0	159	37	25-167	7	40
trans-1,2-Dichloroethene	155	ug/L	500.0	ND	31	29-156	4	40
trans-1,3-Dichloropropene	333	ug/L	500.0	ND	67	57-123	5	40
Trichloroethene	Q3 158	ug/L	500.0	ND	32	38-149	7	40
Trichlorofluoromethane	Q3 74	ug/L	500.0	ND	15	25-176	11	40
Vinyl chloride	Q3 89	ug/L	500.0	ND	18	25-156	4	40
Surrogate: 1,2-Dichloroethane-d4	25.6	ug/L	30.00		85	58.5-136		
Surrogate: Bromofluorobenzene	29.4	ug/L	30.00		98	56.9-139		
Surrogate: Toluene-d8	26.5	ug/L	30.00		88	72.4-120		

**Volatile Organics - TCLP - Quality Control**

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>Batch B315096 - 04-No Prep VOA</b>								
<b>Blank (B315096-BLK1)</b>		Prepared & Analyzed: 09/05/13						
1,1-Dichloroethene	< 5.0	ug/L						
1,2-Dichloroethane	< 5.0	ug/L						
1,4-Dichlorobenzene	< 5.0	ug/L						
2-Butanone	< 10	ug/L						
Benzene	< 5.0	ug/L						
Carbon tetrachloride	< 5.0	ug/L						
Chlorobenzene	< 5.0	ug/L						
Chloroform	< 5.0	ug/L						
Tetrachloroethene	< 5.0	ug/L						
Trichloroethene	< 5.0	ug/L						
Vinyl chloride	< 5.0	ug/L						
Surrogate: 1,2-Dichloroethane-d4	23.8	ug/L	30.00		79	56.1-142		
Surrogate: Toluene-d8	26.0	ug/L	30.00		87	68.1-121		
Surrogate: Bromofluorobenzene	26.8	ug/L	30.00		89	64.1-128		



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**Volatile Organics - TCLP - Quality Control**

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>Batch B315096 - 04-No Prep VOA</b>								
<b>LCS (B315096-BS1)</b>			Prepared & Analyzed: 09/05/13					
1,1-Dichloroethene	19	ug/L	20.00		95	83-127		
1,2-Dichloroethane	19	ug/L	20.00		97	82-120		
1,4-Dichlorobenzene	17	ug/L	20.00		86	72-122		
2-Butanone	19	ug/L	20.00		95	49-139		
Benzene	18	ug/L	20.00		89	76-121		
Carbon tetrachloride	18	ug/L	20.00		89	86-120		
Chlorobenzene	19	ug/L	20.00		94	78-116		
Chloroform	18	ug/L	20.00		89	80-125		
Tetrachloroethene	20	ug/L	20.00		99	55-134		
Trichloroethene	17	ug/L	20.00		87	78-128		
Vinyl chloride	20	ug/L	20.00		101	50-141		
Surrogate: 1,2-Dichloroethane-d4	25.5	ug/L	30.00		85	64.1-142		
Surrogate: Toluene-d8	25.0	ug/L	30.00		83	73.2-121		
Surrogate: Bromofluorobenzene	26.4	ug/L	30.00		88	70.8-124		
<b>Matrix Spike (B315096-MS1)</b>			<b>Source: 3084458-01</b>		Prepared & Analyzed: 09/05/13			
1,1-Dichloroethene	250	ug/L	800.0	ND	31	25-155		
1,2-Dichloroethane	659	ug/L	800.0	ND	82	72-122		
1,4-Dichlorobenzene	534	ug/L	800.0	ND	67	59-119		
2-Butanone	3620	ug/L	800.0	2460	146	25-232		
Benzene	456	ug/L	800.0	ND	57	33-127		
Carbon tetrachloride	226	ug/L	800.0	ND	28	25-148		
Chlorobenzene	499	ug/L	800.0	ND	62	53-119		
Chloroform	485	ug/L	800.0	ND	61	50-129		
Tetrachloroethene	342	ug/L	800.0	ND	43	25-142		
Trichloroethene	375	ug/L	800.0	ND	47	25-157		
Vinyl chloride	303	ug/L	800.0	ND	38	25-147		
Surrogate: 1,2-Dichloroethane-d4	25.4	ug/L	30.00		85	55.8-141		
Surrogate: Toluene-d8	25.8	ug/L	30.00		86	68.5-119		
Surrogate: Bromofluorobenzene	27.6	ug/L	30.00		92	62.3-130		
<b>Matrix Spike (B315096-MS2)</b>			<b>Source: 3084520-01</b>		Prepared & Analyzed: 09/05/13			
1,1-Dichloroethene	302	ug/L	800.0	ND	38	25-155		
1,2-Dichloroethane	738	ug/L	800.0	ND	92	72-122		
1,4-Dichlorobenzene	625	ug/L	800.0	ND	78	59-119		
2-Butanone	2470	ug/L	800.0	1220	157	25-232		
Benzene	570	ug/L	800.0	ND	71	33-127		
Carbon tetrachloride	257	ug/L	800.0	ND	32	25-148		
Chlorobenzene	633	ug/L	800.0	ND	79	53-119		
Chloroform	614	ug/L	800.0	ND	77	50-129		
Tetrachloroethene	445	ug/L	800.0	ND	56	25-142		

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**Volatile Organics - TCLP - Quality Control**

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>Batch B315096 - 04-No Prep VOA</b>								
<b>Matrix Spike (B315096-MS2)</b>		<b>Source: 3084520-01</b>		Prepared & Analyzed: 09/05/13				
Trichloroethene	461	ug/L	800.0	ND	58	25-157		
Vinyl chloride	364	ug/L	800.0	ND	45	25-147		
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>26.5</i>	<i>ug/L</i>	<i>30.00</i>		<i>88</i>	<i>55.8-141</i>		
<i>Surrogate: Toluene-d8</i>	<i>25.0</i>	<i>ug/L</i>	<i>30.00</i>		<i>83</i>	<i>68.5-119</i>		
<i>Surrogate: Bromofluorobenzene</i>	<i>27.5</i>	<i>ug/L</i>	<i>30.00</i>		<i>92</i>	<i>62.3-130</i>		
<b>Matrix Spike (B315096-MS3)</b>		<b>Source: 3084528-01</b>		Prepared & Analyzed: 09/05/13				
1,1-Dichloroethene	Q1 42	ug/L	200.0	ND	21	25-155		
1,2-Dichloroethane	163	ug/L	200.0	ND	81	72-122		
1,4-Dichlorobenzene	124	ug/L	200.0	ND	62	59-119		
2-Butanone	259	ug/L	200.0	58	100	25-232		
Benzene	98	ug/L	200.0	ND	49	33-127		
Carbon tetrachloride	Q1 36	ug/L	200.0	ND	18	25-148		
Chlorobenzene	121	ug/L	200.0	ND	60	53-119		
Chloroform	118	ug/L	200.0	ND	59	50-129		
Tetrachloroethene	65	ug/L	200.0	ND	33	25-142		
Trichloroethene	77	ug/L	200.0	ND	39	25-157		
Vinyl chloride	50	ug/L	200.0	ND	25	25-147		
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>23.9</i>	<i>ug/L</i>	<i>30.00</i>		<i>80</i>	<i>55.8-141</i>		
<i>Surrogate: Toluene-d8</i>	<i>25.1</i>	<i>ug/L</i>	<i>30.00</i>		<i>84</i>	<i>68.5-119</i>		
<i>Surrogate: Bromofluorobenzene</i>	<i>26.9</i>	<i>ug/L</i>	<i>30.00</i>		<i>90</i>	<i>62.3-130</i>		
<b>Matrix Spike (B315096-MS4)</b>		<b>Source: 3090049-01</b>		Prepared & Analyzed: 09/05/13				
1,1-Dichloroethene	68	ug/L	200.0	ND	34	25-155		
1,2-Dichloroethane	181	ug/L	200.0	ND	90	72-122		
1,4-Dichlorobenzene	155	ug/L	200.0	ND	77	59-119		
2-Butanone	210	ug/L	200.0	ND	105	25-232		
Benzene	139	ug/L	200.0	ND	70	33-127		
Carbon tetrachloride	56	ug/L	200.0	ND	28	25-148		
Chlorobenzene	157	ug/L	200.0	ND	78	53-119		
Chloroform	150	ug/L	200.0	ND	75	50-129		
Tetrachloroethene	102	ug/L	200.0	ND	51	25-142		
Trichloroethene	127	ug/L	200.0	ND	64	25-157		
Vinyl chloride	86	ug/L	200.0	ND	43	25-147		
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>25.6</i>	<i>ug/L</i>	<i>30.00</i>		<i>85</i>	<i>55.8-141</i>		
<i>Surrogate: Toluene-d8</i>	<i>25.2</i>	<i>ug/L</i>	<i>30.00</i>		<i>84</i>	<i>68.5-119</i>		
<i>Surrogate: Bromofluorobenzene</i>	<i>26.9</i>	<i>ug/L</i>	<i>30.00</i>		<i>90</i>	<i>62.3-130</i>		
<b>Matrix Spike (B315096-MS5)</b>		<b>Source: 3090114-01</b>		Prepared & Analyzed: 09/05/13				
1,1-Dichloroethene	316	ug/L	800.0	ND	40	25-155		
1,2-Dichloroethane	789	ug/L	800.0	ND	99	72-122		

3084458



**PDC Laboratories, Inc.**

3278 N Highway 67 • Florissant, MO 63033  
(314) 432-0550 • (800) 333-FAST • FAX (314) 432-4977



Bridgeton Landfill  
13570 St Charles Rock Road  
St. Louis, MO 63044  
Attn: Ed Galbraith

Date Received: 08/29/13 14:56  
Report Date: 09/11/13  
Customer #: 277310

**\*Laboratory Results\***

**Volatile Organics - TCLP - Quality Control**

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>Batch B315096 - 04-No Prep VOA</b>								
<b>Matrix Spike (B315096-MS5)</b>				<b>Source: 3090114-01</b>				<b>Prepared &amp; Analyzed: 09/05/13</b>
1,4-Dichlorobenzene	Q1 467	ug/L	800.0	ND	58	59-119		
2-Butanone	3800	ug/L	800.0	2400	175	25-232		
Benzene	654	ug/L	800.0	ND	82	33-127		
Carbon tetrachloride	268	ug/L	800.0	ND	33	25-148		
Chlorobenzene	583	ug/L	800.0	ND	73	53-119		
Chloroform	631	ug/L	800.0	ND	79	50-129		
Tetrachloroethene	403	ug/L	800.0	ND	50	25-142		
Trichloroethene	569	ug/L	800.0	ND	71	25-157		
Vinyl chloride	386	ug/L	800.0	ND	48	25-147		
Surrogate: 1,2-Dichloroethane-d4	26.8	ug/L	30.00		89	55.8-141		
Surrogate: Toluene-d8	25.6	ug/L	30.00		85	68.5-119		
Surrogate: Bromofluorobenzene	26.3	ug/L	30.00		88	62.3-130		



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**\*Laboratory Results\***

**Notes**

This report shall not be reproduced, except in full, without the written approval of the laboratory.

PDC Laboratories participates in the following accreditation/certification and proficiency programs at the following locations. Endorsement by Federal or State Governments or their agencies is not implied.

- PIA PDC Laboratories - Peoria, IL  
NELAC Accreditation for Drinking Water, Wastewater, Hazardous and Solid Wastes Fields of Testing through IL EPA Lab No. 100230  
Illinois Department of Public Health Bacteriological Analysis in Drinking Water Approved Laboratory Registry No. 17553  
Drinking Water Certifications: Kansas (E-10338); Missouri (870); Wisconsin (998284430); Indiana (C-IL-040); Iowa (240)  
Wastewater Certifications: Arkansas (88-0677); Wisconsin (998284430); Iowa (240); Kansas (E-10335)  
Hazardous/Solid Waste Certifications: Arkansas (88-0677); Wisconsin (998284430); Iowa (240); Kansas (E-10335)  
UST Certification; Iowa (240)
- SPM PDC Laboratories - Springfield, MO  
EPA DMR-QA Program
- STL PDC Laboratories - St. Louis, MO  
NELAC Accreditation for Wastewater, Hazardous and Solid Wastes Fields of Testing  
Drinking Water Certifications: Kansas (E-10389)

- X Analyte failed blank spike recovery limits with high bias; undetected in all samples.
- Q3 MS/MSD both failed %R
- Q2 MSD failed %R
- Q1 MS Failed %R
- C The blank spike failed to meet the required acceptance criteria.

Certified by: Roxann Shull, Client Services Supervisor



**PDC Laboratories, Inc. – St. Louis**  
**3278 N. Highway 67 (Lindbergh)**  
**Florissant, MO 63033**  
 www.pdclab.com

**CHAIN OF CUSTODY RECORD**  
 Phone (314) 432-0550 or (314) 921-4488  
 Fax (314) 432-4977

State where samples collected MO  
 (Instructions/Sample Acceptance Policy on Reverse)

ALL SHADED AREAS MUST BE COMPLETED BY CLIENT (PLEASE PRINT)

<b>1</b> CLIENT <u>BARR ENGINEERING</u>		PROJECT NUMBER	P.O. NUMBER	MEANS SHIPPED		<b>3</b> ANALYSIS REQUESTED					<b>4</b> (FOR LAB USE ONLY) LOGIN # <u>3084458</u> LOGGED BY: <u>HE</u> LAB PROJ. # TEMPLATE: PROJ. MGR.:	
ADDRESS <u>1001 DIAMOND RIDGE, SUITE 1100</u>		PHONE NUMBER	FAX NUMBER	EMAIL ADDRESS <u>egalbraith@barr.com</u>		TOTAL SVOC'S	TOTAL VOC'S	TCLP VOC'S	TOC	% SOLIDS	REMARKS	
CITY STATE ZIP <u>JEFF CITY, MO 65109</u>	SAMPLER <u>WILLIAM ABERNATHY</u>		MATRIX TYPES: WW-WASTEWATER DW-DRINKING WATER GW-GROUND WATER WWSL-SLUDGE NAS-SOLID L'CHT-LEACHATE NAL-NONAQUEOUS SOIL-SOILS									
CONTACT PERSON <u>ED GALBRAITH 523-418-5562</u>		SAMPLER'S SIGNATURE <u>[Signature]</u>										
<b>2</b> SAMPLE DESCRIPTION AS YOU WANT ON REPORT		DATE COLLECTED	TIME COLLECTED	SAMPLE TYPE	MATRIX TYPE	Bottle Count						
<u>TCLP 1/IV A</u>		<u>8/27/13</u>	<u>1215</u>	<input checked="" type="checkbox"/>	<u>LCHT</u>	<u>8</u>	<u>2</u>	<u>2</u>	<u>2</u>	<u>1</u>	<u>1</u>	
<u>TCLP 1/IV B</u>		<u>8/27/13</u>	<u>1225</u>	<input checked="" type="checkbox"/>	<u>LCHT</u>	<u>4</u>	<u>2</u>	<u>2</u>				
<u>TCLP 1/IV C</u>		<u>8/27/13</u>	<u>1235</u>	<input checked="" type="checkbox"/>	<u>LCHT</u>	<u>4</u>	<u>2</u>	<u>2</u>				
<u>TCLP 1/IV D</u>		<u>8/27/13</u>	<u>1245</u>	<input checked="" type="checkbox"/>	<u>LCHT</u>	<u>4</u>	<u>2</u>	<u>2</u>				
<u>TRIP BLANK</u>		<u>—</u>	<u>—</u>	<u>—</u>	<u>DI</u>	<u>2</u>	<u>2</u>					
<b>5</b> TURNAROUND TIME (RUSH TAT IS SUBJECT TO PDC LABS APPROVAL AND SURCHARGE) NORMAL (8-10 Bus. Days) <u>RUSH (5 Bus. Days)</u> <i>Fastrak<sub>™</sub></i> (3 Bus. Days) 1-2 Bus. Days Same Day DATE DUE _____		<b>6</b> The sample temperature will be measured upon receipt at the lab. By initialing this area, you request that the lab notify you, before proceeding with analysis, if the sample temperature is outside of the range of 0.1-6.0°C. By not initialing this area, you allow the lab to proceed with analytical testing regardless of the sample temperature. _____										
RESULTS BY: <input checked="" type="checkbox"/> E-MAIL <input type="checkbox"/> FAX <input type="checkbox"/> PHONE CALL <input type="checkbox"/> PHONE/FAX# IF DIFFERENT FROM ABOVE												
<b>7</b> RELINQUISHED BY: (SIGNATURE) <u>[Signature]</u>		DATE	TIME	RECEIVED BY:	DATE	TIME	<b>8</b> COMMENTS:(FOR LAB USE ONLY)					
RELINQUISHED BY: (SIGNATURE)		DATE	TIME	RECEIVED BY:	DATE	TIME	SAMPLE TEMPERATURE UPON RECEIPT CHILL PROCESS STARTED PRIOR TO RECEIPT SAMPLE(S) RECEIVED ON ICE PROPER BOTTLES RECEIVED IN GOOD CONDITION BOTTLES FILLED WITH ADEQUATE VOLUME SAMPLES RECEIVED WITHIN HOLD TIME(S) (EXCLUDES TYPICAL FIELD PARAMETERS) DATE AND TIME TAKEN FROM SAMPLE BOTTLE					
RELINQUISHED BY: (SIGNATURE)		DATE	TIME	RECEIVED BY:	DATE	TIME						
RELINQUISHED BY: (SIGNATURE)		DATE	TIME	RECEIVED BY:	DATE	TIME						

Thank you for using PDC Laboratories, Inc. Locations in Peoria, IL; St. Louis, MO; and Springfield, MO

**SUBCONTRACT ORDER**

**PDC Laboratories, Inc.**

**3084458**

3084458-4 *WA*

**SENDING LABORATORY:**

- PDC Laboratories, Inc, 2231 W Altorfer Peoria, IL 61615
- PDC Laboratories, Inc, 1805 W Sunset, Springfield, MO 65807
- PDC Laboratories, Inc, 3278 N Highway 67, Florissant, MO 63033

Project Manager: Roxann Shull

rshull@pdclab.com Phone: 314-595-7337

Date Shipped 8/30/13

Sample Origin (State) MO

PO# \_\_\_\_\_

Total # of Containers 5

**RECEIVING LABORATORY:**

PDC Laboratories, Inc.  
 PO Box 9071  
 Peoria, IL 61612-9071  
 Phone :(309) 692-9688

Analysis	Due	Expires	Comments
<b>Sample ID: 3084458-01</b>	<b>Water</b>	<b>Sampled:08/27/13 12:15</b>	
TOC	09/04/13 16:00	09/24/13 12:15	
M8270	09/04/13 16:00	09/03/13 12:15	
<b>Sample ID: 3084458-02</b>	<b>Water</b>	<b>Sampled:08/27/13 12:25</b>	
M8270	09/04/13 16:00	09/03/13 12:25	
<b>Sample ID: 3084458-03</b>	<b>Water</b>	<b>Sampled:08/27/13 12:35</b>	
M8270	09/04/13 16:00	09/03/13 12:35	
<b>Sample ID: 3084458-04</b>	<b>Water</b>	<b>Sampled:08/27/13 12:45</b>	
M8270	09/04/13 16:00	09/03/13 12:45	

Turn-Around Time Requested (circle one): NORMAL **RUSH** Date Results Needed: 9/4/13

Relinquished By		Date/Time	Received By	Date/Time	Sample Temperature Upon Receipt	C
<i>H. Carter</i>		<u>8/30/13</u>	<i>[Signature]</i>	<u>8/31/13</u>	Sample(s) Received on Ice	<i>[Signature]</i> Y or N
Relinquished By		Date/Time	Received By	Date/Time	Proper Bottles Received in Good Condition	<i>[Signature]</i> Y or N
<i>[Signature]</i>		<u>8/31/13</u>	<i>[Signature]</i>	<u>8/31/13</u>	Bottles Filled with Adequate Volume	<i>[Signature]</i> Y or N
Relinquished By		Date/Time	Received By	Date/Time	Samples Received Within Hold Time	<i>[Signature]</i> Y or N
<i>[Signature]</i>		<u>8/31/13</u>	<i>[Signature]</i>	<u>8/31/13</u>	Date/Time Taken From Sample Bottle	<i>[Signature]</i> Y or N