



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: Bill Abernathy

Date Received: 05/17/14 8:50
Report Date: 05/20/14
Customer #: 277310

Laboratory Results

Sample No: **4052596-01**
Sample Description: **Tank 3 Start-Up**

Collect Date: **05/17/14 09:25**
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<u>General Chemistry - STL</u>					
COD	850 mg/L		05/18/14 11:35	KAE	SM 5220D 18Ed 04KS
Solids - total suspended solids (TSS)	170 mg/L		05/18/14 09:44	KAE	SM 2540D 18Ed 04KS
Solids - total volatile suspended solids	93 mg/L		05/18/14 10:11	KAE	SM 2540E 18Ed*
<u>Nutrients - STL</u>					
Ammonia-N	< 0.10 mg/L		05/19/14 12:00	ACV	SM(18) 4500 NH3 04KS F
Phosphorus - total as P	10 mg/L		05/20/14 14:00	ACV	SM 4500P B E 04KS 18ed

Sample No: **4052596-02**
Sample Description: **Tank 2 Start-Up**

Collect Date: **05/17/14 09:30**
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<u>General Chemistry - STL</u>					
COD	58000 mg/L		05/18/14 11:35	KAE	SM 5220D 18Ed 04KS
Solids - total suspended solids (TSS)	3100 mg/L		05/18/14 09:44	KAE	SM 2540D 18Ed 04KS
Solids - total volatile suspended solids	1600 mg/L		05/18/14 10:11	KAE	SM 2540E 18Ed*
<u>Nutrients - STL</u>					
Ammonia-N	570 mg/L		05/19/14 12:00	ACV	SM(18) 4500 NH3 04KS F



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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); 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



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 www.pdclab.com

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 Fax (314) 432-4977

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

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

1 CLIENT Bridgeton LF	PROJECT NUMBER	P.O. NUMBER	MEANS SHIPPED		3 ANALYSIS REQUESTED COO MVSS/MVSS Total Phosphorus Ammonia Nitrogen	4 (FOR LAB USE ONLY) LOGIN # 405256 LOGGED BY: HE LAB PROJ. # TEMPLATE: PROJ. MGR.:						
	ADDRESS	PHONE NUMBER	FAX NUMBER	EMAIL ADDRESS								
	CITY STATE ZIP	SAMPLER: Hunter King		MATRIX TYPES: WW-WASTEWATER DW-DRINKING WATER GW-GROUND WATER WWSL-SLUDGE NAS-SOLID LICHLEACHATE NAL-NONAQUEOUS SOIL-SOILS								
CONTACT PERSON	SAMPLER'S SIGNATURE Hunter King											
2 SAMPLE DESCRIPTION AS YOU WANT ON REPORT		DATE COLLECTED	TIME COLLECTED	SAMPLE TYPE GRAB	MATRIX COMP	Bottle TYPE	Count	REMARKS				
Tank 3 start-up 5-17-14		5/17/14	925	G	LCHT	4	4	X	X	X	X	
Tank 2 start-up 5-17-14		5/17/14	930	G	LCHT	3	3	X	X			
5 TURNAROUND TIME (RUSH TAT IS SUBJECT TO PDC LABS APPROVAL AND SURCHARGE)		NORMAL (8-10 Bus. Days) RUSH (5 Bus. Days) Fastrak™ (3 Bus. Days) 1-2 Bus. Days Same Day		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.		6						
DATE DUE 5/18/14		RESULTS BY: E-MAIL FAX PHONE CALL PHONE/FAX# IF DIFFERENT FROM ABOVE										
7 RELINQUISHED BY: (SIGNATURE) Hunter King		DATE 5/17/14	TIME 1540	RECEIVED BY: [Signature]	DATE 5/17/14	TIME 15340	8 COMMENTS:(FOR LAB USE ONLY)					
RELINQUISHED BY: (SIGNATURE)		DATE 5/17/14	TIME 16:00	RECEIVED BY: Hunter King	DATE 5/17/14	TIME 16:00	SAMPLE TEMPERATURE UPON RECEIPT 20.3°C					
RELINQUISHED BY: (SIGNATURE)		DATE	TIME	RECEIVED BY:	DATE	TIME	CHILL PROCESS STARTED PRIOR TO RECEIPT Y OR N					
RELINQUISHED BY: (SIGNATURE)		DATE	TIME	RECEIVED BY:	DATE	TIME	SAMPLES(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(S) Y OR N					
							DATE AND TIME TAKEN FROM SAMPLE BOTTLE					



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Bridgeton Landfill
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St. Louis, MO 63044
Attn: Bill Abernathy

Date Received: 05/19/14 11:09
Report Date: 05/20/14
Customer #: 277310

Laboratory Results

Sample No: **4052628-01**
Sample Description: **Tank 3 Start-Up**

Collect Date: **05/19/14 09:35**
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<u>General Chemistry - STL</u>					
COD	1700 mg/L		05/20/14 08:02	DAW	SM 5220D 18Ed 04KS
Solids - total suspended solids (TSS)	740 mg/L		05/19/14 12:20	DAW	SM 2540D 18Ed 04KS
Solids - total volatile suspended solids	460 mg/L		05/20/14 08:45	DAW	SM 2540E 18Ed*
<u>Nutrients - STL</u>					
Ammonia-N	< 0.10 mg/L		05/19/14 12:00	ACV	SM(18) 4500 NH3 04KS F
<u>Total Metals - STL</u>					
Phosphorus	23 mg/L		05/20/14 13:11	WPS	EPA 200.7 R4.4*

Sample No: **4052628-02**
Sample Description: **Tank 2 Start-Up**

Collect Date: **05/19/14 09:45**
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<u>General Chemistry - STL</u>					
COD	56000 mg/L		05/20/14 08:02	DAW	SM 5220D 18Ed 04KS
Solids - total suspended solids (TSS)	3700 mg/L		05/19/14 12:20	DAW	SM 2540D 18Ed 04KS
<u>Nutrients - STL</u>					
Ammonia-N	590 mg/L		05/19/14 12:00	ACV	SM(18) 4500 NH3 04KS F



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 - 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
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Attn: Bill Abernathy

Date Received: 05/20/14 15:36
Report Date: 05/21/14
Customer #: 277310

Laboratory Results

Sample No: **4052894-01**
Sample Description: **Tank 3 Start-Up**

Collect Date: **05/20/14 09:30**
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<u>General Chemistry - STL</u>					
COD	1400 mg/L		05/21/14 07:52	DAW	SM 5220D 18Ed 04KS
Solids - total suspended solids (TSS)	840 mg/L		05/20/14 16:00	DAW	SM 2540D 18Ed 04KS
Solids - total volatile suspended solids	540 mg/L		05/21/14 08:45	DAW	SM 2540E 18Ed*
<u>Total Metals - STL</u>					
Phosphorus	21 mg/L		05/21/14 13:17	WPS	EPA 200.7 R4.4*

Sample No: **4052894-02**
Sample Description: **Tank 2 Start-Up**

Collect Date: **05/20/14 09:36**
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<u>General Chemistry - STL</u>					
COD	55000 mg/L		05/21/14 07:52	DAW	SM 5220D 18Ed 04KS
Solids - total suspended solids (TSS)	4000 mg/L		05/20/14 16:00	DAW	SM 2540D 18Ed 04KS
<u>Nutrients - STL</u>					
Ammonia-N	630 mg/L		05/21/14 11:00	ACV	SM(18) 4500 NH3 04KS F



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Laboratory Results

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 - UST Certification; Iowa (240)
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- JER PDC Laboratories - Jerseyville, IL
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State where samples collected _____

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1 CLIENT <i>Barr/Bridgeton LF</i>	PROJECT NUMBER	P. O. NUMBER	MEANS SHIPPED		3 ANALYSIS REQUESTED	4 (FOR LAB USE ONLY) LOGIN # <i>4052894</i> LOGGED BY: <i>HQ</i> LAB PROJ. # TEMPLATE: PROJ. MGR.:	
	ADDRESS	PHONE NUMBER	FAX NUMBER	EMAIL ADDRESS			
	CITY STATE ZIP	SAMPLER <i>Hunter King</i>	MATRIX TYPES: <input type="checkbox"/> WW-WASTEWATER <input type="checkbox"/> DW-DRINKING WATER <input type="checkbox"/> GW-GROUND WATER <input type="checkbox"/> WWSL-SLUDGE <input type="checkbox"/> NAS-SOLID <input type="checkbox"/> LCH-LEACHATE <input type="checkbox"/> NAL-NON-AQUEOUS <input type="checkbox"/> SOIL-SOILS				
CONTACT PERSON	SAMPLER'S SIGNATURE <i>Hunter King</i>						
2 SAMPLE DESCRIPTION AS YOU WANT ON REPORT		DATE COLLECTED	TIME COLLECTED	SAMPLE TYPE	MATRIX TYPE	Bottle Count	REMARKS
				GRAB	COMP		
<i>Tank 3 startup 5-20-14</i>		<i>5/20/14</i>	<i>930</i>	<i>6</i>	<i>LWT</i>	<i>2</i>	<i>See R. Russo & Bell A perform what is per BID</i> <i>TANK 3 - COD, TSS, VSS, TP, NH3</i> <i>TANK 2 - COD, NH3, TSS</i> <i>NO NH3 on this sample</i>
<i>Tank 2 startup 5-20-14</i>		<i>5/20/14</i>	<i>936</i>	<i>6</i>	<i>LWT</i>	<i>2</i>	
5 TURNAROUND TIME (RUSH TAT IS SUBJECT TO PDC LABS APPROVAL AND SURCHARGE)		6 The sample temperature will be measured upon receipt at the lab. By initiating 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 initiating 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) <i>Fastrak™</i> (3 Bus. Days) <u>1-2 Bus. Days</u> Same Day DATE DUE <i>5/21/14</i>		RESULTS BY: E-MAIL FAX PHONE CALL PHONE/FAX# IF DIFFERENT FROM ABOVE					
7 RELINQUISHED BY: (SIGNATURE)		DATE	TIME	RECEIVED BY:	DATE	TIME	8 COMMENTS:(FOR LAB USE ONLY) SAMPLE TEMPERATURE UPON RECEIPT <i>13.1</i> °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
<i>Hunter King</i>		<i>5/20/14</i>	<i>14:20</i>	<i>Mark Schuch</i>	<i>5/20/14</i>	<i>14:20</i>	
RELINQUISHED BY: (SIGNATURE)		DATE	TIME	RECEIVED BY:	DATE	TIME	
<i>Hunter King</i>		<i>5-20-14</i>	<i>14:50</i>	<i>H. Cotton</i>	<i>5/20/14</i>	<i>14:50</i>	
RELINQUISHED BY: (SIGNATURE)		DATE	TIME	RECEIVED BY:	DATE	TIME	
RELINQUISHED BY: (SIGNATURE)		DATE	TIME	RECEIVED BY:	DATE	TIME	

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Attn: Bill Abernathy

Date Received: 05/21/14 10:35
Report Date: 05/22/14
Customer #: 277310

Laboratory Results

Sample No: **4052918-01**
Sample Description: **Tank 3 Start-Up**

Collect Date: **05/21/14 09:35**
Matrix: **Waste Water Grab**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<u>General Chemistry - STL</u>					
COD	1200 mg/L		05/22/14 11:36	DAW	SM 5220D 18Ed 04KS
Solids - total suspended solids (TSS)	840 mg/L		05/21/14 11:20	DAW	SM 2540D 18Ed 04KS
Solids - total volatile suspended solids	520 mg/L		05/22/14 10:00	DAW	SM 2540E 18Ed*
<u>Total Metals - STL</u>					
Phosphorus	23 mg/L	Q4	05/22/14 09:05	WPS	EPA 200.7 R4.4*

Sample No: **4052918-02**
Sample Description: **Tank 2 Start-Up**

Collect Date: **05/21/14 09:46**
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<u>General Chemistry - STL</u>					
COD	65000 mg/L		05/22/14 11:36	DAW	SM 5220D 18Ed 04KS
Solids - total suspended solids (TSS)	4300 mg/L		05/21/14 11:20	DAW	SM 2540D 18Ed 04KS
<u>Nutrients - STL</u>					
Ammonia-N	640 mg/L		05/21/14 11:00	ACV	SM(18) 4500 NH3 04KS F



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Laboratory Results

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 - Drinking Water Certifications: Missouri (430)

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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



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

1 CLIENT <i>Buss/Bridgeton LF</i> ADDRESS CITY STATE ZIP CONTACT PERSON			PROJECT NUMBER PHONE NUMBER SAMPLER SAMPLER'S SIGNATURE	P.O. NUMBER FAX NUMBER Hester K/S Hester K/S	MEANS SHIPPED EMAIL ADDRESS MATRIX TYPES: WW-WASTEWATER DW-DRINKING WATER GW-GROUND WATER WWSL-SLUDGE NAS-SOLID L'CHT-LEACHATE NAL-NONAQUEOUS SOIL-SOILS	3 ANALYSIS REQUESTED: COD MESS/MCVSS Total phosphorus Ammonia N TSS			4 (FOR LAB USE ONLY) LOGIN # <i>4052918</i> LOGGED BY: <i>HSE</i> LAB PROJ. # TEMPLATE: PROJ. MGR.: REMARKS		
2 SAMPLE DESCRIPTION AS YOU WANT ON REPORT DATE COLLECTED TIME COLLECTED SAMPLE TYPE GRAB MATRIX COMP Bottle Count			Tank 3 startup 5-21-14 5-21-14 935 6 LCHT 3 Tank 2 startup 5-21-14 5-21-14 946 6 LCHT 2								
5 TURNAROUND TIME (RUSH TAT IS SUBJECT TO PDC LABS APPROVAL AND SURCHARGE) NORMAL (8-10 Bus. Days) RUSH (5 Bus. Days) <i>Fastrak™</i> (3 Bus. Days) 1-2 Bus. Days Same Day DATE DUE _____ RESULTS BY: E-MAIL 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.				6			
7 RELINQUISHED BY: (SIGNATURE) <i>Hester K/S</i> RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i> RELINQUISHED BY: (SIGNATURE) RELINQUISHED BY: (SIGNATURE)		DATE 5/21/14 DATE 5/21/14 DATE	TIME 9:58 10:30 TIME	RECEIVED BY: <i>[Signature]</i> RECEIVED BY: <i>[Signature]</i> RECEIVED BY:	DATE 5/21/14 DATE 5/21/14 DATE	TIME 9:58 10:30 TIME	8 COMMENTS:(FOR LAB USE ONLY) SAMPLE TEMPERATURE UPON RECEIPT <i>23.6</i> 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				

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Attn: Bill Abernathy

Date Received: 05/22/14 10:47
Report Date: 05/23/14
Customer #: 277310
PO#: 4167739

Laboratory Results

Sample No: **4053163-01**
Sample Description: **Tank 3 Start-Up**

Collect Date: **05/22/14 09:30**
Matrix: **Waste Water Grab**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<u>General Chemistry - STL</u>					
COD	1600 mg/L		05/23/14 13:16	DAW	SM 5220D 18Ed 04KS
Solids - total suspended solids (TSS)	900 mg/L		05/22/14 12:15	DAW	SM 2540D 18Ed 04KS
Solids - total volatile suspended solids	620 mg/L		05/23/14 13:00	DAW	SM 2540E 18Ed*
<u>Total Metals - STL</u>					
Phosphorus	28 mg/L		05/23/14 12:49	WPS	EPA 200.7 R4.4*

Sample No: **4053163-02**
Sample Description: **Tank 2 Start-Up**

Collect Date: **05/22/14 09:37**
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<u>General Chemistry - STL</u>					
COD	55000 mg/L		05/23/14 13:16	DAW	SM 5220D 18Ed 04KS
Solids - total suspended solids (TSS)	4400 mg/L		05/22/14 12:15	DAW	SM 2540D 18Ed 04KS
<u>Nutrients - STL</u>					
Ammonia-N	570 mg/L		05/22/14 12:00	ACV	SM(18) 4500 NH3 04KS F



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Report Date: 05/23/14
Customer #: 277310
PO#: 4167739

Laboratory Results

General Chemistry - Quality Control

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B408337 - 04-No Prep WC								
Blank (B408337-BLK1)			Prepared & Analyzed: 05/22/14					
Solids - total suspended solids (TSS)	< 2.0	mg/L						
LCS (B408337-BS1)			Prepared & Analyzed: 05/22/14					
Solids - total suspended solids (TSS)	99.0	mg/L	100.0		99	82.9-110		
Duplicate (B408337-DUP1)			Source: 4053088-01 Prepared & Analyzed: 05/22/14					
Solids - total suspended solids (TSS)	4.80	mg/L		5.20			8	5
Duplicate (B408337-DUP2)			Source: 4053163-01 Prepared & Analyzed: 05/22/14					
Solids - total suspended solids (TSS)	920	mg/L		900			2	5
Batch B408429 - 04-No Prep WC								
Calibration Blank (B408429-CCB1)			Prepared & Analyzed: 05/23/14					
COD	-0.788	mg/L						
Calibration Blank (B408429-CCB2)			Prepared & Analyzed: 05/23/14					
COD	-5.07	mg/L						
Calibration Check (B408429-CCV1)			Prepared & Analyzed: 05/23/14					
COD	100	mg/L	100.0		100	95-105		
Calibration Check (B408429-CCV2)			Prepared & Analyzed: 05/23/14					
COD	493	mg/L	500.0		99	95-105		
Duplicate (B408429-DUP1)			Source: 4053250-02 Prepared & Analyzed: 05/23/14					
COD	8.35	mg/L		8.61			3	20
Duplicate (B408429-DUP2)			Source: 4053163-02 Prepared & Analyzed: 05/23/14					
COD	55200	mg/L		55400			0.4	20
Batch B408448 - 04-No Prep WC								
Duplicate (B408448-DUP1)			Source: 4053163-01 Prepared & Analyzed: 05/23/14					
Solids - total volatile suspended solids	600	mg/L		620			3	5
Duplicate (B408448-DUP2)			Source: 4053359-01 Prepared & Analyzed: 05/23/14					
Solids - total volatile suspended solids	660	mg/L		640			3	5
Nutrients - Quality Control								
Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B408372 - 04-No Prep WC								



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St. Louis, MO 63044
Attn: Bill Abernathy

Date Received: 05/22/14 10:47
Report Date: 05/23/14
Customer #: 277310
PO#: 4167739

Laboratory Results

Nutrients - Quality Control

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B408372 - 04-No Prep WC								
Calibration Blank (B408372-CCB1)			Prepared & Analyzed: 05/22/14					
Ammonia-N	0.00	mg/L						
Calibration Check (B408372-CCV1)			Prepared & Analyzed: 05/22/14					
Ammonia-N	10.1	mg/L	10.00		101	90-110		
Matrix Spike (B408372-MS1)			Prepared & Analyzed: 05/22/14					
Ammonia-N	10.2	mg/L	10.00	0.320	99	80-120		
Matrix Spike Dup (B408372-MSD1)			Prepared & Analyzed: 05/22/14					
Ammonia-N	10.3	mg/L	10.00	0.320	100	80-120	1	20

Total Metals - Quality Control

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B408348 - 04 EPA 200.2 R2.8								
Blank (B408348-BLK1)			Prepared: 05/22/14 Analyzed: 05/23/14					
Phosphorus	< 0.10	mg/L						
LCS (B408348-BS1)			Prepared: 05/22/14 Analyzed: 05/23/14					
Phosphorus	0.997	mg/L	1.000		100	85-115		
Matrix Spike (B408348-MS1)			Prepared: 05/22/14 Analyzed: 05/23/14					
Phosphorus	34.4	mg/L	5.000	27.9	130	70-130		
Matrix Spike Dup (B408348-MSD1)			Prepared: 05/22/14 Analyzed: 05/23/14					
Phosphorus	34.2	mg/L	5.000	27.9	126	70-130	0.6	20



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Date Received: 05/22/14 10:47
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Customer #: 277310
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Laboratory Results

Notes

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- 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); 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)

Certified by: Roxann Shull, Client Services Supervisor



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

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

1	CLIENT <i>Barr / Bridgeton LF</i>	PROJECT NUMBER	P.O. NUMBER	MEANS SHIPPED	3	ANALYSIS REQUESTED					4 (FOR LAB USE ONLY)	
	ADDRESS	PHONE NUMBER	FAX NUMBER	EMAIL ADDRESS		<i>107</i> <i>MLVSS/MLSS</i> <i>Total Phosphorus</i> <i>Ammonia N</i> <i>TSS</i>	LOG IN # <i>4053163</i>					
	CITY STATE ZIP	SAMPLER	MATRIX TYPES: WW-WASTEWATER DW-DRINKING WATER GW-GROUND WATER WWSL-SLUDGE NAS-SOLID L'CHT-LEACHATE NAL-NONAQUEOUS SOIL-SOILS				LOGGED BY: <i>HE</i>					
CONTACT PERSON	SAMPLER'S SIGNATURE			LAB PROJ. #	TEMPLATE:	PROJ. MGR.:						
2	SAMPLE DESCRIPTION AS YOU WANT ON REPORT	DATE COLLECTED	TIME COLLECTED	SAMPLE TYPE GRAB	MATRIX COMP	Bottle TYPE	Count	REMARKS				
	<i>Tank 3 startup</i>	<i>5-22-14</i>	<i>9:30</i>	<i>6</i>	<i>LCWT</i>	<i>→</i>	<i>3</i>	<i>X</i>	<i>X</i>	<i>X</i>		
	<i>Tank 2 startup</i>	<i>5-22-14</i>	<i>9:37</i>	<i>6</i>	<i>LCWT</i>	<i>→</i>	<i>2</i>	<i>X</i>		<i>X</i>	<i>X</i>	
5		TURNAROUND TIME (RUSH TAT IS SUBJECT TO PDC LABS APPROVAL AND SURCHARGE)			6							
NORMAL (8-10 Bus. Days) RUSH (5 Bus. Days) <i>Fastrak™</i> (3 Bus. Days) <u>1-2 Bus. Days</u> Same Day DATE DUE <i>5-22-14</i>		RESULTS BY: E-MAIL 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.							
7	RELINQUISHED BY: (SIGNATURE) <i>Heather K...</i>	DATE <i>5-22-14</i>	TIME <i>10:00</i>	RECEIVED BY: <i>Heather K...</i>	DATE <i>5-22-14</i>	TIME <i>10:00</i>	8					
	RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i>	DATE <i>5-22-14</i>	TIME <i>10:30</i>	RECEIVED BY: <i>Heather K...</i>	DATE <i>5/22/14</i>	TIME <i>10:30</i>	COMMENTS: (FOR LAB USE ONLY) SAMPLE TEMPERATURE UPON RECEIPT _____ °C CHILL PROCESS STARTED PRIOR TO RECEIPT <input checked="" type="checkbox"/> Y <input type="checkbox"/> N SAMPLE(S) RECEIVED ON ICE <input checked="" type="checkbox"/> Y <input type="checkbox"/> N PROPER BOTTLES RECEIVED IN GOOD CONDITION <input checked="" type="checkbox"/> Y <input type="checkbox"/> N BOTTLES FILLED WITH ADEQUATE VOLUME <input checked="" type="checkbox"/> Y <input type="checkbox"/> N SAMPLES RECEIVED WITHIN HOLD TIME(S) <input checked="" type="checkbox"/> Y <input type="checkbox"/> N (EXCLUDES TYPICAL FIELD PARAMETERS) DATE AND TIME TAKEN FROM SAMPLE BOTTLE					



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Bridgeton Landfill
13570 St Charles Rock Road
St. Louis, MO 63044
Attn: Bill Abernathy

Date Received: 05/23/14 10:31
Report Date: 05/23/14
Customer #: 277310
PO#: 4167739

Laboratory Results

Sample No: **4053359-01**
Sample Description: **Tank 3 Start-Up**

Collect Date: **05/23/14 09:28**
Matrix: **Waste Water Grab**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<u>General Chemistry - STL</u>					
COD	1700 mg/L		05/23/14 13:17	DAW	SM 5220D 18Ed 04KS
Solids - total suspended solids (TSS)	1100 mg/L		05/23/14 11:00	DAW	SM 2540D 18Ed 04KS
Solids - total volatile suspended solids	640 mg/L		05/23/14 13:00	DAW	SM 2540E 18Ed*
<u>Total Metals - STL</u>					
Phosphorus	27 mg/L		05/23/14 15:32	DAW	EPA 200.7 R4.4*

Sample No: **4053359-02**
Sample Description: **Tank 2 Start-Up**

Collect Date: **05/23/14 09:39**
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<u>General Chemistry - STL</u>					
COD	59000 mg/L		05/23/14 13:17	DAW	SM 5220D 18Ed 04KS
Solids - total suspended solids (TSS)	3900 mg/L		05/23/14 11:00	DAW	SM 2540D 18Ed 04KS
<u>Nutrients - STL</u>					
Ammonia-N	590 mg/L		05/23/14 12:00	ACV	SM(18) 4500 NH3 04KS F



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Attn: Bill Abernathy

Date Received: 05/23/14 10:31
Report Date: 05/23/14
Customer #: 277310
PO#: 4167739

Laboratory Results

General Chemistry - Quality Control

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B408414 - 04-No Prep WC								
Blank (B408414-BLK1)			Prepared & Analyzed: 05/23/14					
Solids - total suspended solids (TSS)	< 2.0	mg/L						
LCS (B408414-BS1)			Prepared & Analyzed: 05/23/14					
Solids - total suspended solids (TSS)	101	mg/L	100.0	101	82.9-110			
Duplicate (B408414-DUP1)			Source: 4053359-01 Prepared & Analyzed: 05/23/14					
Solids - total suspended solids (TSS)	1060	mg/L		1100			4	5
Batch B408429 - 04-No Prep WC								
Calibration Blank (B408429-CCB1)			Prepared & Analyzed: 05/23/14					
COD	-0.788	mg/L						
Calibration Blank (B408429-CCB2)			Prepared & Analyzed: 05/23/14					
COD	-5.07	mg/L						
Calibration Check (B408429-CCV1)			Prepared & Analyzed: 05/23/14					
COD	100	mg/L	100.0	100	95-105			
Calibration Check (B408429-CCV2)			Prepared & Analyzed: 05/23/14					
COD	493	mg/L	500.0	99	95-105			
Duplicate (B408429-DUP1)			Source: 4053250-02 Prepared & Analyzed: 05/23/14					
COD	8.35	mg/L		8.61			3	20
Duplicate (B408429-DUP2)			Source: 4053163-02 Prepared & Analyzed: 05/23/14					
COD	55200	mg/L		55400			0.4	20
Batch B408448 - 04-No Prep WC								
Duplicate (B408448-DUP1)			Source: 4053163-01 Prepared & Analyzed: 05/23/14					
Solids - total volatile suspended solids	600	mg/L		620			3	5
Duplicate (B408448-DUP2)			Source: 4053359-01 Prepared & Analyzed: 05/23/14					
Solids - total volatile suspended solids	660	mg/L		640			3	5
Nutrients - Quality Control								
Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B408465 - 04-No Prep WC								
Blank (B408465-BLK1)			Prepared & Analyzed: 05/23/14					
Ammonia-N	< 0.10	mg/L						



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Report Date: 05/23/14
Customer #: 277310
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Laboratory Results

Nutrients - Quality Control

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B408465 - 04-No Prep WC								
LCS (B408465-BS1)			Prepared & Analyzed: 05/23/14					
Ammonia-N	9.92	mg/L	10.00		99	80-120		
Matrix Spike (B408465-MS1)			Source: 4053277-01 Prepared & Analyzed: 05/23/14					
Ammonia-N	1000	mg/L	1000	0.128	100	80-120		
Matrix Spike Dup (B408465-MSD1)			Source: 4053277-01 Prepared & Analyzed: 05/23/14					
Ammonia-N	1010	mg/L	1000	0.128	101	80-120	1	20

Total Metals - Quality Control

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B408419 - 04 EPA 200.2 R2.8								
Blank (B408419-BLK1)			Prepared & Analyzed: 05/23/14					
Phosphorus	< 0.10	mg/L						
LCS (B408419-BS1)			Prepared & Analyzed: 05/23/14					
Phosphorus	0.937	mg/L	1.000		94	85-115		
Matrix Spike (B408419-MS1)			Source: 4053359-01 Prepared & Analyzed: 05/23/14					
Phosphorus	33.2	mg/L	5.000	27.1	122	70-130		
Matrix Spike Dup (B408419-MSD1)			Source: 4053359-01 Prepared & Analyzed: 05/23/14					
Phosphorus	31.9	mg/L	5.000	27.1	95	70-130	4	20



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Customer #: 277310
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Laboratory Results

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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); 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)

Certified by: Roxann Shull, Client Services Supervisor



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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)

1 CLIENT <u>Burr/Bridgeton LF</u>		PROJECT NUMBER	P.O. NUMBER	MEANS SHIPPED	3 ANALYSIS REQUESTED					4 (FOR LAB USE ONLY) LOGIN # <u>4053359</u> LOGGED BY: <u>HE</u> LAB PROJ. # TEMPLATE: PROJ. MGR.:		
ADDRESS		PHONE NUMBER	FAX NUMBER	EMAIL ADDRESS	CO ₂ NH ₃ /NO ₃ Total Phosphorus Ammonia N TSS							REMARKS
CITY STATE ZIP		SAMPLER <u>Hunter King</u>		MATRIX TYPES: WW-WASTEWATER DW-DRINKING WATER GW-GROUND WATER WWSL-SLUDGE NAS-SOLID L'CHT-LEACHATE NAL-NONAQUEOUS SOIL-SOILS								
CONTACT PERSON		SAMPLER'S SIGNATURE <u>Hunter King</u>										
2 SAMPLE DESCRIPTION AS YOU WANT ON REPORT		DATE COLLECTED	TIME COLLECTED	SAMPLE TYPE	MATRIX TYPE	Bottle Count						
<u>Tank 3 startup 5-23-14</u>		<u>5/23/14</u>	<u>928</u>	<u>6</u>	<u>LC/HT</u>	<u>3</u>	X	X	X			
<u>Tank 2 startup 5-23-14</u>		<u>5/23/14</u>	<u>939</u>	<u>6</u>	<u>LC/HT</u>	<u>2</u>	X			X	X	
5 TURNAROUND TIME (RUSH TAT IS SUBJECT TO PDC LABS APPROVAL AND SURCHARGE) NORMAL (8-10 Bus. Days) RUSH (5 Bus. Days) Fastrak™ (3 Bus. Days) <u>1-2 Bus. Days</u> Same Day DATE DUE <u>5/24/14</u>		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: E-MAIL FAX PHONE CALL PHONE/FAX# IF DIFFERENT FROM ABOVE		6										
7 RELINQUISHED BY: (SIGNATURE) <u>Hunter King</u>		DATE	TIME	RECEIVED BY:	DATE	TIME	8 COMMENTS: (FOR LAB USE ONLY)					
RELINQUISHED BY: (SIGNATURE) <u>[Signature]</u>		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 21.0 °C Y OR N Y OR N Y OR N Y OR N Y OR N Y OR N 5-23-14 10:15					
RELINQUISHED BY: (SIGNATURE)		DATE	TIME	RECEIVED BY:	DATE	TIME						
RELINQUISHED BY: (SIGNATURE)		DATE	TIME	RECEIVED BY:	DATE	TIME						



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Bridgeton Landfill
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St. Louis, MO 63044
Attn: Bill Abernathy

Date Received: 05/27/14 9:03
Report Date: 05/28/14
Customer #: 277310
PO#: 4167739

Laboratory Results

Sample No: **4053490-01**
Sample Description: **Tank 3 Start-Up**

Collect Date: **05/24/14 09:30**
Matrix: **Waste Water Grab**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<u>General Chemistry - STL</u>					
COD	1700 mg/L		05/27/14 13:23	DAW	SM 5220D 18Ed 04KS
Solids - total suspended solids (TSS)	1300 mg/L		05/24/14 11:20	DAW	SM 2540D 18Ed 04KS
Solids - total volatile suspended solids	720 mg/L		05/27/14 08:00	DAW	SM 2540E 18Ed*
<u>Nutrients - STL</u>					
Ammonia-N	0.24 mg/L		05/27/14 11:00	ACV	SM(18) 4500 NH3 04KS F
<u>Total Metals - STL</u>					
Phosphorus	35 mg/L		05/24/14 14:20	DAW	EPA 200.7 R4.4*

Sample No: **4053490-02**
Sample Description: **Tank 2 Start-Up**

Collect Date: **05/24/14 09:35**
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<u>General Chemistry - STL</u>					
COD	56000 mg/L		05/27/14 13:23	DAW	SM 5220D 18Ed 04KS
Solids - total suspended solids (TSS)	3700 mg/L		05/24/14 11:20	DAW	SM 2540D 18Ed 04KS
<u>Nutrients - STL</u>					
Ammonia-N	610 mg/L		05/27/14 11:00	ACV	SM(18) 4500 NH3 04KS F



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Attn: Bill Abernathy

Date Received: 05/27/14 9:03
Report Date: 05/28/14
Customer #: 277310
PO#: 4167739

Laboratory Results

General Chemistry - Quality Control

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B408446 - 04-No Prep WC								
Calibration Blank (B408446-CCB1)			Prepared: 05/23/14 Analyzed: 05/24/14					
COD	-0.00477	mg/L						
Calibration Blank (B408446-CCB2)			Prepared: 05/23/14 Analyzed: 05/24/14					
COD	-5.07	mg/L						
Calibration Check (B408446-CCV1)			Prepared: 05/23/14 Analyzed: 05/24/14					
COD	103	mg/L	100.0		103	95-105		
Calibration Check (B408446-CCV2)			Prepared: 05/23/14 Analyzed: 05/24/14					
COD	498	mg/L	500.0		100	95-105		
Duplicate (B408446-DUP1)			Source: 4053377-02 Prepared: 05/23/14 Analyzed: 05/24/14					
COD	20.9	mg/L		20.1			4	20
Duplicate (B408446-DUP2)			Source: 4053377-01 Prepared: 05/23/14 Analyzed: 05/24/14					
COD	493	mg/L		498			0.9	20
Batch B408476 - 04-No Prep WC								
Blank (B408476-BLK1)			Prepared & Analyzed: 05/24/14					
Solids - total suspended solids (TSS)	< 2.0	mg/L						
LCS (B408476-BS1)			Prepared & Analyzed: 05/24/14					
Solids - total suspended solids (TSS)	100	mg/L	100.0		100	82.9-110		
Duplicate (B408476-DUP1)			Source: 4053402-01 Prepared & Analyzed: 05/24/14					
Solids - total suspended solids (TSS)	1620	mg/L		1620			0	5
Duplicate (B408476-DUP2)			Source: 4053413-01 Prepared & Analyzed: 05/24/14					
Solids - total suspended solids (TSS)	2.80	mg/L		2.80			0	5
Duplicate (B408476-DUP3)			Source: 4053490-01 Prepared: 05/24/14 Analyzed: 05/27/14					
Solids - total suspended solids (TSS)	1320	mg/L		1300			2	5
Batch B408523 - 04-No Prep WC								
Duplicate (B408523-DUP1)			Source: 4053490-01 Prepared & Analyzed: 05/27/14					
Solids - total volatile suspended solids	740	mg/L		720			3	5
Nutrients - Quality Control								
Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B408574 - 04-No Prep WC								
Calibration Blank (B408574-CCB1)			Prepared & Analyzed: 05/27/14					

4053490



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Attn: Bill Abernathy

Date Received: 05/27/14 9:03
Report Date: 05/28/14
Customer #: 277310
PO#: 4167739

Laboratory Results

Nutrients - Quality Control

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B408574 - 04-No Prep WC								
Calibration Blank (B408574-CCB1)			Prepared & Analyzed: 05/27/14					
Ammonia-N	0.00	mg/L						
Calibration Check (B408574-CCV1)			Prepared & Analyzed: 05/27/14					
Ammonia-N	10.1	mg/L	10.00	101	90-110			
Matrix Spike (B408574-MS1)			Prepared & Analyzed: 05/27/14					
Ammonia-N	692	mg/L	100.0	598	94	80-120		
Matrix Spike Dup (B408574-MSD1)			Prepared & Analyzed: 05/27/14					
Ammonia-N	693	mg/L	100.0	598	95	80-120	0.1	20

Total Metals - Quality Control

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B408537 - 04 EPA 200.2 R2.8								
Blank (B408537-BLK1)			Prepared & Analyzed: 05/24/14					
Phosphorus	< 0.10	mg/L						
LCS (B408537-BS1)			Prepared & Analyzed: 05/24/14					
Phosphorus	0.976	mg/L	1.000	98	85-115			
Matrix Spike (B408537-MS1)			Prepared & Analyzed: 05/24/14					
Phosphorus	40.4	mg/L	5.000	35.0	107	70-130		
Matrix Spike Dup (B408537-MSD1)			Prepared & Analyzed: 05/24/14					
Phosphorus	39.9	mg/L	5.000	35.0	98	70-130	1	20



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Laboratory Results

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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); Iowa (240)
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Certified by: Barb Pandolfo For Roxann Shull, Client Services Supervisor



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CHAIN OF CUSTODY RECORD
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State where samples collected _____
 (Instructions/Sample Acceptance Policy on Reverse)

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

1 CLIENT <i>Barr / Bridgeton WF</i>	PROJECT NUMBER	P. O. NUMBER	MEANS SHIPPED		3 ANALYSIS REQUESTED <i>COD MSS/MVSS Total Phosphorus Ammonia N TSS</i>	4 (FOR LAB USE ONLY) LOGIN # <i>4053490</i> LOGGED BY: <i>HG</i> LAB PROJ. # TEMPLATE: PROJ. MGR.:
	PHONE NUMBER	FAX NUMBER	EMAIL ADDRESS			
	CITY STATE ZIP	SAMPLER <i>Hunter King</i>	MATRIX TYPES: WW-WASTEWATER DW-DRINKING WATER GW-GROUND WATER WWSL-SLUDGE NAS-SOLID LCH-LEACHATE NAL-NONAQUEOUS SOIL SOILS			
CONTACT PERSON	SAMPLER'S SIGNATURE <i>Hunter King</i>					
2 SAMPLE DESCRIPTION AS YOU WANT ON REPORT	DATE COLLECTED	TIME COLLECTED	SAMPLE TYPE	MATRIX COMP	Bottle Count	REMARKS
<i>Tank 3 startup 5-24-14</i>	<i>5/24/14</i>	<i>930</i>	<i>6</i>	<i>LCHT</i>	<i>3</i>	
<i>Tank 2 startup 5-24-14</i>	<i>5/24/14</i>	<i>935</i>	<i>6</i>	<i>LCHT</i>	<i>2</i>	
5 TURNAROUND TIME (RUSH TAT IS SUBJECT TO PDC LABS APPROVAL AND SURCHARGE) NORMAL (8-10 Bus. Days) RUSH (5 Bus. Days) <i>Fastrak™ (3 Bus. Days)</i> 1-2 Bus. Days Same Day DATE DUE <i>5/25/14</i>						6 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: E-MAIL FAX PHONE CALL PHONE/FAX# IF DIFFERENT FROM ABOVE						
7 RELINQUISHED BY: (SIGNATURE) <i>Hunter King</i>	DATE <i>5/24/14</i>	TIME <i>10:10</i>	RECEIVED BY: <i>[Signature]</i>	DATE <i>5/24/14</i>	TIME <i>10:10</i>	8 COMMENTS: (FOR LAB USE ONLY) 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 <i>31°C</i> YOR N YOR N YOR N YOR N
RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i>	DATE <i>5/24/14</i>	TIME <i>10:32</i>	RECEIVED BY: <i>H Carter</i>	DATE <i>5/24/14</i>	TIME <i>08:50</i>	
RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY:	DATE	TIME	
RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY:	DATE	TIME	

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Bridgeton Landfill
13570 St Charles Rock Road
St. Louis, MO 63044
Attn: Bill Abernathy

Date Received: 05/27/14 9:13
Report Date: 05/28/14
Customer #: 277310
PO#: 4167739

Laboratory Results

Sample No: **4053494-01**
Sample Description: **Tank 3 Start-Up**

Collect Date: **05/25/14 09:34**
Matrix: **Waste Water Grab**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<u>General Chemistry - STL</u>					
COD	1700 mg/L		05/26/14 13:00	DWM	SM 5220D 18Ed 04KS
Solids - total suspended solids (TSS)	1300 mg/L		05/26/14 12:00	DWM	SM 2540D 18Ed 04KS
Solids - total volatile suspended solids	680 mg/L		05/27/14 08:00	DAW	SM 2540E 18Ed*
<u>Total Metals - STL</u>					
Phosphorus	31 mg/L		05/26/14 15:20	DWM	EPA 200.7 R4.4*

Sample No: **4053494-02**
Sample Description: **Tank 2 Start-Up**

Collect Date: **05/25/14 09:31**
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<u>General Chemistry - STL</u>					
COD	56000 mg/L		05/26/14 13:00	DWM	SM 5220D 18Ed 04KS
Solids - total suspended solids (TSS)	3500 mg/L		05/26/14 12:00	DWM	SM 2540D 18Ed 04KS
<u>Nutrients - STL</u>					
Ammonia-N	610 mg/L		05/27/14 11:00	ACV	SM(18) 4500 NH3 04KS F



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Report Date: 05/28/14
Customer #: 277310
PO#: 4167739

Laboratory Results

General Chemistry - Quality Control

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B408446 - 04-No Prep WC								
Calibration Blank (B408446-CCB1)			Prepared: 05/23/14 Analyzed: 05/24/14					
COD	-0.00477	mg/L						
Calibration Blank (B408446-CCB2)			Prepared: 05/23/14 Analyzed: 05/24/14					
COD	-5.07	mg/L						
Calibration Check (B408446-CCV1)			Prepared: 05/23/14 Analyzed: 05/24/14					
COD	103	mg/L	100.0		103	95-105		
Calibration Check (B408446-CCV2)			Prepared: 05/23/14 Analyzed: 05/24/14					
COD	498	mg/L	500.0		100	95-105		
Duplicate (B408446-DUP1)			Prepared: 05/23/14 Analyzed: 05/24/14					
COD	20.9	mg/L		20.1			4	20
Duplicate (B408446-DUP2)			Prepared: 05/23/14 Analyzed: 05/24/14					
COD	493	mg/L		498			0.9	20

Batch B408519 - 04-No Prep WC

Blank (B408519-BLK1)			Prepared & Analyzed: 05/26/14					
Solids - total suspended solids (TSS)	< 2.0	mg/L						
LCS (B408519-BS1)			Prepared & Analyzed: 05/26/14					
Solids - total suspended solids (TSS)	94.0	mg/L	100.0		94	82.9-110		

Batch B408523 - 04-No Prep WC

Duplicate (B408523-DUP1)			Prepared & Analyzed: 05/27/14					
Solids - total volatile suspended solids	740	mg/L		720			3	5

Nutrients - Quality Control

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B408574 - 04-No Prep WC								
Calibration Blank (B408574-CCB1)			Prepared & Analyzed: 05/27/14					
Ammonia-N	0.00	mg/L						
Calibration Check (B408574-CCV1)			Prepared & Analyzed: 05/27/14					
Ammonia-N	10.1	mg/L	10.00		101	90-110		
Matrix Spike (B408574-MS1)			Prepared & Analyzed: 05/27/14					
Ammonia-N	692	mg/L	100.0	598	94	80-120		
Matrix Spike Dup (B408574-MSD1)			Prepared & Analyzed: 05/27/14					

4053494



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Laboratory Results

Nutrients - Quality Control

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B408574 - 04-No Prep WC								
Matrix Spike Dup (B408574-MSD1)			Source: 4053523-02		Prepared & Analyzed: 05/27/14			
Ammonia-N	693	mg/L	100.0	598	95	80-120	0.1	20

Total Metals - Quality Control

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B408540 - 04 EPA 200.2 R2.8								
Blank (B408540-BLK1)			Prepared & Analyzed: 05/26/14					
Phosphorus	< 0.10	mg/L						
LCS (B408540-BS1)			Prepared & Analyzed: 05/26/14					
Phosphorus	1.03	mg/L	1.000		103	85-115		
Matrix Spike (B408540-MS1)			Prepared & Analyzed: 05/26/14					
Phosphorus	34.9	mg/L	5.000	29.1	115	70-130		
Matrix Spike Dup (B408540-MSD1)			Prepared & Analyzed: 05/26/14					
Phosphorus	35.2	mg/L	5.000	29.1	121	70-130	0.9	20



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Laboratory Results

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UST Certification; Iowa (240)
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Certified by: Barb Pandolfo For Roxann Shull, Client Services Supervisor



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Date Received: 05/27/14 9:28
Report Date: 05/28/14
Customer #: 277310
PO#: 4167739

Laboratory Results

Sample No: **4053496-01**
Sample Description: **Tank 3 Start-Up**

Collect Date: **05/26/14 09:20**
Matrix: **Waste Water Grab**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<u>General Chemistry - STL</u>					
COD	1600 mg/L		05/26/14 13:00	DWM	SM 5220D 18Ed 04KS
Solids - total suspended solids (TSS)	1500 mg/L		05/26/14 12:00	DWM	SM 2540D 18Ed 04KS
Solids - total volatile suspended solids	740 mg/L		05/27/14 08:00	DAW	SM 2540E 18Ed*
<u>Total Metals - STL</u>					
Phosphorus	29 mg/L		05/26/14 15:23	DWM	EPA 200.7 R4.4*

Sample No: **4053496-02**
Sample Description: **Tank 2 Start-Up**

Collect Date: **05/26/14 09:24**
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<u>General Chemistry - STL</u>					
COD	57000 mg/L		05/26/14 13:00	DWM	SM 5220D 18Ed 04KS
Solids - total suspended solids (TSS)	1300 mg/L		05/26/14 12:00	DWM	SM 2540D 18Ed 04KS
<u>Nutrients - STL</u>					
Ammonia-N	610 mg/L		05/27/14 11:00	ACV	SM(18) 4500 NH3 04KS F



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Laboratory Results

General Chemistry - Quality Control

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B408446 - 04-No Prep WC								
Calibration Blank (B408446-CCB1)			Prepared: 05/23/14 Analyzed: 05/24/14					
COD	-0.00477	mg/L						
Calibration Blank (B408446-CCB2)			Prepared: 05/23/14 Analyzed: 05/24/14					
COD	-5.07	mg/L						
Calibration Check (B408446-CCV1)			Prepared: 05/23/14 Analyzed: 05/24/14					
COD	103	mg/L	100.0		103	95-105		
Calibration Check (B408446-CCV2)			Prepared: 05/23/14 Analyzed: 05/24/14					
COD	498	mg/L	500.0		100	95-105		
Duplicate (B408446-DUP1)			Source: 4053377-02 Prepared: 05/23/14 Analyzed: 05/24/14					
COD	20.9	mg/L		20.1			4	20
Duplicate (B408446-DUP2)			Source: 4053377-01 Prepared: 05/23/14 Analyzed: 05/24/14					
COD	493	mg/L		498			0.9	20

Batch B408519 - 04-No Prep WC

Blank (B408519-BLK1)			Prepared & Analyzed: 05/26/14					
Solids - total suspended solids (TSS)	< 2.0	mg/L						
LCS (B408519-BS1)			Prepared & Analyzed: 05/26/14					
Solids - total suspended solids (TSS)	94.0	mg/L	100.0		94	82.9-110		

Batch B408523 - 04-No Prep WC

Duplicate (B408523-DUP1)			Source: 4053490-01 Prepared & Analyzed: 05/27/14					
Solids - total volatile suspended solids	740	mg/L		720			3	5

Nutrients - Quality Control

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B408574 - 04-No Prep WC								
Calibration Blank (B408574-CCB1)			Prepared & Analyzed: 05/27/14					
Ammonia-N	0.00	mg/L						
Calibration Check (B408574-CCV1)			Prepared & Analyzed: 05/27/14					
Ammonia-N	10.1	mg/L	10.00		101	90-110		
Matrix Spike (B408574-MS1)			Source: 4053523-02 Prepared & Analyzed: 05/27/14					
Ammonia-N	692	mg/L	100.0	598	94	80-120		
Matrix Spike Dup (B408574-MSD1)			Source: 4053523-02 Prepared & Analyzed: 05/27/14					

4053496



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PO#: 4167739

Laboratory Results

Nutrients - Quality Control

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B408574 - 04-No Prep WC								
Matrix Spike Dup (B408574-MSD1)	Source: 4053523-02							
	Prepared & Analyzed: 05/27/14							
Ammonia-N	693	mg/L	100.0	598	95	80-120	0.1	20

Total Metals - Quality Control

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B408540 - 04 EPA 200.2 R2.8								
Blank (B408540-BLK1)								
	Prepared & Analyzed: 05/26/14							
Phosphorus	< 0.10	mg/L						
LCS (B408540-BS1)								
	Prepared & Analyzed: 05/26/14							
Phosphorus	1.03	mg/L	1.000		103	85-115		
Matrix Spike (B408540-MS1)	Source: 4053496-01							
	Prepared & Analyzed: 05/26/14							
Phosphorus	34.9	mg/L	5.000	29.1	115	70-130		
Matrix Spike Dup (B408540-MSD1)	Source: 4053496-01							
	Prepared & Analyzed: 05/26/14							
Phosphorus	35.2	mg/L	5.000	29.1	121	70-130	0.9	20



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Laboratory Results

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St. Louis, MO 63044
Attn: Bill Abernathy

Date Received: 05/27/14 11:04
Report Date: 05/28/14
Customer #: 277310
PO#: 4167739

Laboratory Results

Sample No: **4053523-01**
Sample Description: **Tank 3 Start-Up**

Collect Date: **05/27/14 09:15**
Matrix: **Waste Water Grab**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<u>General Chemistry - STL</u>					
COD	1800 mg/L		05/28/14 08:06	DAW	SM 5220D 18Ed 04KS
Solids - total suspended solids (TSS)	1800 mg/L		05/27/14 13:50	DAW	SM 2540D 18Ed 04KS
Solids - total volatile suspended solids	820 mg/L		05/28/14 08:30	DAW	SM 2540E 18Ed*
<u>Total Metals - STL</u>					
Phosphorus	33 mg/L		05/28/14 09:55	WPS	EPA 200.7 R4.4*

Sample No: **4053523-02**
Sample Description: **Tank 2 Start-Up**

Collect Date: **05/27/14 09:20**
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<u>General Chemistry - STL</u>					
COD	55000 mg/L		05/28/14 08:07	DAW	SM 5220D 18Ed 04KS
Solids - total suspended solids (TSS)	4300 mg/L		05/27/14 13:50	DAW	SM 2540D 18Ed 04KS
<u>Nutrients - STL</u>					
Ammonia-N	600 mg/L		05/27/14 11:00	ACV	SM(18) 4500 NH3 04KS F



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Laboratory Results

General Chemistry - Quality Control

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
---------	--------	-------	-------------	---------------	------	-------------	-----	-----------

Batch B408553 - 04-No Prep WC

Blank (B408553-BLK1)			Prepared & Analyzed: 05/27/14					
Solids - total suspended solids (TSS)	< 2.0	mg/L						
LCS (B408553-BS1)			Prepared & Analyzed: 05/27/14					
Solids - total suspended solids (TSS)	98.0	mg/L	100.0		98	82.9-110		
Duplicate (B408553-DUP1)			Source: 4053511-01 Prepared & Analyzed: 05/27/14					
Solids - total suspended solids (TSS)	1620	mg/L		1640			1	5
Duplicate (B408553-DUP2)			Source: 4053523-01 Prepared & Analyzed: 05/27/14					
Solids - total suspended solids (TSS)	1820	mg/L		1820			0	5

Batch B408600 - 04-No Prep WC

Calibration Blank (B408600-CCB1)			Prepared: 05/27/14 Analyzed: 05/28/14					
COD	-0.00477	mg/L						
Calibration Blank (B408600-CCB2)			Prepared: 05/27/14 Analyzed: 05/28/14					
COD	-5.07	mg/L						
Calibration Check (B408600-CCV1)			Prepared: 05/27/14 Analyzed: 05/28/14					
COD	97.1	mg/L	100.0		97	95-105		
Calibration Check (B408600-CCV2)			Prepared: 05/27/14 Analyzed: 05/28/14					
COD	502	mg/L	500.0		100	95-105		
Duplicate (B408600-DUP1)			Source: 4053516-01 Prepared: 05/27/14 Analyzed: 05/28/14					
COD	< 5.0	mg/L		ND				20
Duplicate (B408600-DUP2)			Source: 4053523-02 Prepared: 05/27/14 Analyzed: 05/28/14					
COD	54300	mg/L		55200			2	20

Batch B408624 - 04-No Prep WC

Duplicate (B408624-DUP1)			Source: 4053523-01 Prepared & Analyzed: 05/28/14					
Solids - total volatile suspended solids	800	mg/L		820			2	5

Nutrients - Quality Control

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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Batch B408574 - 04-No Prep WC

Calibration Blank (B408574-CCB1)			Prepared & Analyzed: 05/27/14					
Ammonia-N	0.00	mg/L						
Calibration Check (B408574-CCV1)			Prepared & Analyzed: 05/27/14					

4053523



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Bridgeton Landfill
13570 St Charles Rock Road
St. Louis, MO 63044
Attn: Bill Abernathy

Date Received: 05/27/14 11:04
Report Date: 05/28/14
Customer #: 277310
PO#: 4167739

Laboratory Results

Nutrients - Quality Control

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B408574 - 04-No Prep WC								
Calibration Check (B408574-CCV1)			Prepared & Analyzed: 05/27/14					
Ammonia-N	10.1	mg/L	10.00		101	90-110		
Matrix Spike (B408574-MS1)			Source: 4053523-02 Prepared & Analyzed: 05/27/14					
Ammonia-N	692	mg/L	100.0	598	94	80-120		
Matrix Spike Dup (B408574-MSD1)			Source: 4053523-02 Prepared & Analyzed: 05/27/14					
Ammonia-N	693	mg/L	100.0	598	95	80-120	0.1	20

Total Metals - Quality Control

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B408598 - 04 EPA 200.2 R2.8								
Blank (B408598-BLK1)			Prepared: 05/27/14 Analyzed: 05/28/14					
Phosphorus	< 0.10	mg/L						
LCS (B408598-BS1)			Prepared: 05/27/14 Analyzed: 05/28/14					
Phosphorus	0.947	mg/L	1.000		95	85-115		
Matrix Spike (B408598-MS1)			Source: 4053523-01 Prepared: 05/27/14 Analyzed: 05/28/14					
Phosphorus	39.2	mg/L	5.000	33.5	115	70-130		
Matrix Spike Dup (B408598-MSD1)			Source: 4053523-01 Prepared: 05/27/14 Analyzed: 05/28/14					
Phosphorus	38.4	mg/L	5.000	33.5	98	70-130	2	20



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Date Received: 05/27/14 11:04
Report Date: 05/28/14
Customer #: 277310
PO#: 4167739

Laboratory Results

Notes

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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); 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)

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



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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)

1 CLIENT: <u>BARR/BRIDGETON LF</u> ADDRESS: _____ CITY, STATE, ZIP: _____ CONTACT PERSON: _____		PROJECT NUMBER: _____ P.O. NUMBER: _____ MEANS SHIPPED: _____	3 ANALYSIS REQUESTED PHONE NUMBER: _____ FAX NUMBER: _____ EMAIL ADDRESS: _____	4 (FOR LAB USE ONLY) LOGIN # <u>4053503</u> LOGGED BY: <u>HG</u> LAB PROJ. #: _____ TEMPLATE: _____ PROJ. MGR.: _____	
2 SAMPLE DESCRIPTION AS YOU WANT ON REPORT DATE COLLECTED TIME COLLECTED SAMPLE TYPE MATRIX TYPE Bottle Count		SAMPLER: <u>BILL ABERNATHY</u> SAMPLER'S SIGNATURE: <u>[Signature]</u> MATRIX TYPES: WW-WASTEWATER DW-DRINKING WATER GW-GROUND WATER WWSL-SLUDGE NAS-SOLID L'CHT-LEACHATE NAL-NONAQUEOUS SOIL-SOILS	COD MLSS/MLVSS TOTAL P AMMONIA N TSS	REMARKS	
<u>TANK 3 STARTUP</u> <u>5/27/14</u> <u>0915</u> <input checked="" type="checkbox"/> <u>LCHT</u> <u>3</u>			<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>		
<u>TANK 2 STARTUP</u> <u>5/27/14</u> <u>0920</u> <input checked="" type="checkbox"/> <u>LCHT</u> <u>2</u>			<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>		
5 TURNAROUND TIME (RUSH TAT IS SUBJECT TO PDC LABS APPROVAL AND SURCHARGE) NORMAL (8-10 Bus. Days) RUSH (5 Bus. Days) <u>Fastrak™ (3 Bus. Days)</u> <u>1-2 Bus. Days</u> Same Day DATE DUE <u>5/28/14</u>		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: E-MAIL FAX PHONE CALL PHONE/FAX# IF DIFFERENT FROM ABOVE		6			
7 RELINQUISHED BY: (SIGNATURE) <u>[Signature]</u> <u>FOI</u>		DATE <u>5-27-14</u> TIME <u>10:30am</u>	RECEIVED BY: <u>[Signature]</u> DATE <u>5/27/14</u> TIME <u>10:30</u>	8 COMMENTS: (FOR LAB USE ONLY)	
RELINQUISHED BY: (SIGNATURE) <u>[Signature]</u>		DATE <u>5/27/14</u> TIME <u>11:00</u>	RECEIVED BY: <u>[Signature]</u> DATE <u>5/27/14</u> TIME <u>11:00</u>	SAMPLE TEMPERATURE UPON RECEIPT <u>24.1c</u> 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	



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Bridgeton Landfill
13570 St Charles Rock Road
St. Louis, MO 63044
Attn: Bill Abernathy

Date Received: 05/28/14 11:46
Report Date: 05/30/14
Customer #: 277310
PO#: 4167739

Laboratory Results

Sample No: **4053703-01**
Sample Description: **Tank 3 Start-Up**

Collect Date: **05/28/14 08:20**
Matrix: **Waste Water Grab**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<u>General Chemistry - STL</u>					
COD	1800 mg/L		05/29/14 08:12	DAW	SM 5220D 18Ed 04KS
Solids - total suspended solids (TSS)	1500 mg/L		05/28/14 15:50	DAW	SM 2540D 18Ed 04KS
Solids - total volatile suspended solids	720 mg/L	M	05/29/14 08:30	DAW	SM 2540E 18Ed*
<u>Total Metals - STL</u>					
Phosphorus	36 mg/L		05/29/14 09:15	WPS	EPA 200.7 R4.4*

Sample No: **4053703-02**
Sample Description: **Tank 2 Start-Up**

Collect Date: **05/28/14 08:30**
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<u>General Chemistry - STL</u>					
COD	55000 mg/L		05/29/14 08:12	DAW	SM 5220D 18Ed 04KS
Solids - total suspended solids (TSS)	4500 mg/L		05/28/14 15:50	DAW	SM 2540D 18Ed 04KS
<u>Nutrients - STL</u>					
Ammonia-N	600 mg/L		05/29/14 11:00	ACV	SM(18) 4500 NH3 04KS F



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Report Date: 05/30/14
Customer #: 277310
PO#: 4167739

Laboratory Results

General Chemistry - Quality Control

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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Batch B408669 - 04-No Prep WC

Blank (B408669-BLK1)		Prepared & Analyzed: 05/28/14						
Solids - total suspended solids (TSS)	< 2.0	mg/L						
LCS (B408669-BS1)		Prepared & Analyzed: 05/28/14						
Solids - total suspended solids (TSS)	98.0	mg/L	100.0		98	82.9-110		
Duplicate (B408669-DUP1)		Source: 4053703-01 Prepared & Analyzed: 05/28/14						
Solids - total suspended solids (TSS)	1480	mg/L		1540			4	5

Batch B408693 - 04-No Prep WC

Calibration Blank (B408693-CCB2)		Prepared: 05/28/14 Analyzed: 05/29/14						
COD	-5.10	mg/L						
Calibration Check (B408693-CCV2)		Prepared: 05/28/14 Analyzed: 05/29/14						
COD	498	mg/L	500.0		100	95-105		
Duplicate (B408693-DUP2)		Source: 4053703-02 Prepared: 05/28/14 Analyzed: 05/29/14						
COD	55000	mg/L		55400			0.8	20

Batch B408710 - 04-No Prep WC

Duplicate (B408710-DUP1)		Source: 4053703-01 Prepared & Analyzed: 05/29/14						
Solids - total volatile suspended solids	M 680	mg/L		720			6	5

Nutrients - Quality Control

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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Batch B408781 - 04-No Prep WC

Calibration Blank (B408781-CCB1)		Prepared & Analyzed: 05/29/14						
Ammonia-N	0.00	mg/L						
Calibration Check (B408781-CCV1)		Prepared & Analyzed: 05/29/14						
Ammonia-N	10.1	mg/L	10.00		101	90-110		
Matrix Spike (B408781-MS1)		Source: 4053795-01 Prepared & Analyzed: 05/29/14						
Ammonia-N	27.9	mg/L	10.00	17.9	100	80-120		
Matrix Spike Dup (B408781-MSD1)		Source: 4053795-01 Prepared & Analyzed: 05/29/14						
Ammonia-N	28.0	mg/L	10.00	17.9	101	80-120	0.4	20



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Attn: Bill Abernathy

Date Received: 05/28/14 11:46
Report Date: 05/30/14
Customer #: 277310
PO#: 4167739

Laboratory Results

Total Metals - Quality Control

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B408648 - 04 EPA 200.2 R2.8								
Blank (B408648-BLK1)			Prepared: 05/28/14 Analyzed: 05/29/14					
Phosphorus	< 0.10	mg/L						
LCS (B408648-BS1)			Prepared: 05/28/14 Analyzed: 05/29/14					
Phosphorus	0.947	mg/L	1.000	36.0	95	85-115		
Matrix Spike (B408648-MS1)			Prepared: 05/28/14 Analyzed: 05/29/14					
Phosphorus	40.9	mg/L	5.000	36.0	99	70-130		
Matrix Spike Dup (B408648-MSD1)			Prepared: 05/28/14 Analyzed: 05/29/14					
Phosphorus	39.9	mg/L	5.000	36.0	78	70-130	3	20



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Date Received: 05/28/14 11:46
Report Date: 05/30/14
Customer #: 277310
PO#: 4167739

Laboratory Results

Notes

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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); 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)

M Analyte failed to meet the required acceptance criteria for duplicate analysis.

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



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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)

1 CLIENT <u>BARRY BRIDGETON LE</u>			PROJECT NUMBER	P. O. NUMBER	MEANS SHIPPED	3 ANALYSIS REQUESTED					4 (FOR LAB USE ONLY)	
ADDRESS			PHONE NUMBER	FAX NUMBER	EMAIL ADDRESS	COD	MLSS/MLVSS	TOTAL P	AMMONIA N	TSS	LOGIN # <u>4053703</u>	LOGGED BY: <u>HG</u>
CITY STATE ZIP			SAMPLER								LAB PROJ. #	
CONTACT PERSON			SAMPLER'S SIGNATURE								TEMPLATE:	
2 SAMPLE DESCRIPTION AS YOU WANT ON REPORT			DATE COLLECTED	TIME COLLECTED	SAMPLE TYPE	MATRIX TYPE	Bottle Count	REMARKS				
<u>TANK 3 STARTUP</u>			<u>5/28/14</u>	<u>0820</u>	<input checked="" type="checkbox"/>	<u>LCHT</u>	<u>3</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
<u>TANK 2 STARTUP</u>			<u>5/28/14</u>	<u>0830</u>	<input checked="" type="checkbox"/>	<u>LCHT</u>	<u>2</u>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		

5 TURNAROUND TIME (RUSH TAT IS SUBJECT TO PDC LABS APPROVAL AND SURCHARGE)
 NORMAL (8-10 Bus. Days) RUSH (5 Bus. Days) Fastrak™ (3 Bus. Days) 1-2 Bus. Days Same Day
 DATE DUE 5/29/14

RESULTS BY: E-MAIL FAX PHONE CALL PHONE/FAX# IF DIFFERENT FROM ABOVE

6 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.

7 RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY:	DATE	TIME
<u>[Signature]</u>	<u>5/28/14</u>	<u>11:10</u>	<u>[Signature]</u>	<u>5/28/14</u>	<u>11:11</u>
RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY:	DATE	TIME
<u>[Signature]</u>	<u>5/28/14</u>	<u>11:35</u>	<u>Heather Carliant</u>	<u>5/28/14</u>	<u>11:35</u>
RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY:	DATE	TIME
RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY:	DATE	TIME

8 COMMENTS: (FOR LAB USE ONLY)

SAMPLE TEMPERATURE UPON RECEIPT 10.6°C

CHILL PROCESS STARTED PRIOR TO RECEIPT
 SAMPLE(S) RECEIVED ON ICE
 BOTTLES FILLED WITH ADEQUATE VOLUME
 SAMPLES RECEIVED WITHIN HOLD TIME(S)
 (EXCLUDES TYPICAL FIELD PARAMETERS)
 DATE AND TIME TAKEN FROM SAMPLE BOTTLE

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St. Louis, MO 63044
Attn: Bill Abernathy

Date Received: 05/29/14 11:05
Report Date: 05/30/14
Customer #: 277310
PO#: 4167739

Laboratory Results

Sample No: **4053853-01**
Sample Description: **Tank 3 Start-Up**

Collect Date: **05/29/14 09:00**
Matrix: **Waste Water Grab**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<u>General Chemistry - STL</u>					
COD	2300 mg/L		05/30/14 13:21	DAW	SM 5220D 18Ed 04KS
Solids - total suspended solids (TSS)	1900 mg/L		05/29/14 15:15	DAW	SM 2540D 18Ed 04KS
Solids - total volatile suspended solids	1100 mg/L		05/30/14 13:00	DAW	SM 2540E 18Ed*
<u>Total Metals - STL</u>					
Phosphorus	42 mg/L		05/30/14 10:26	WPS	EPA 200.7 R4.4*

Sample No: **4053853-02**
Sample Description: **Tank 2 Start-Up**

Collect Date: **05/29/14 09:05**
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<u>General Chemistry - STL</u>					
COD	55000 mg/L		05/30/14 13:21	DAW	SM 5220D 18Ed 04KS
Solids - total suspended solids (TSS)	3600 mg/L		05/29/14 15:15	DAW	SM 2540D 18Ed 04KS
<u>Nutrients - STL</u>					
Ammonia-N	600 mg/L		05/29/14 11:00	ACV	SM(18) 4500 NH3 04KS F



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Attn: Bill Abernathy

Date Received: 05/29/14 11:05
Report Date: 05/30/14
Customer #: 277310
PO#: 4167739

Laboratory Results

General Chemistry - Quality Control

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B408764 - 04-No Prep WC								
Blank (B408764-BLK1)			Prepared & Analyzed: 05/29/14					
Solids - total suspended solids (TSS)	< 2.0	mg/L						
LCS (B408764-BS1)			Prepared & Analyzed: 05/29/14					
Solids - total suspended solids (TSS)	97.0	mg/L	100.0		97	82.9-110		
Duplicate (B408764-DUP1)			Source: 4053853-01 Prepared & Analyzed: 05/29/14					
Solids - total suspended solids (TSS)	1960	mg/L		1940			1	5
Duplicate (B408764-DUP2)			Source: 4053875-03 Prepared & Analyzed: 05/29/14					
Solids - total suspended solids (TSS)	2300	mg/L		2320			0.9	5
Batch B408791 - 04-No Prep WC								
Calibration Blank (B408791-CCB1)			Prepared: 05/29/14 Analyzed: 05/30/14					
COD	-0.00477	mg/L						
Calibration Blank (B408791-CCB2)			Prepared: 05/29/14 Analyzed: 05/30/14					
COD	-5.07	mg/L						
Calibration Check (B408791-CCV1)			Prepared: 05/29/14 Analyzed: 05/30/14					
COD	99.2	mg/L	100.0		99	95-105		
Calibration Check (B408791-CCV2)			Prepared: 05/29/14 Analyzed: 05/30/14					
COD	493	mg/L	500.0		99	95-105		
Duplicate (B408791-DUP1)			Source: 4053911-01 Prepared: 05/29/14 Analyzed: 05/30/14					
COD	35.0	mg/L		35.5			1	20
Duplicate (B408791-DUP2)			Source: 4053853-02 Prepared: 05/29/14 Analyzed: 05/30/14					
COD	54100	mg/L		55000			2	20
Batch B408844 - 04-No Prep WC								
Duplicate (B408844-DUP1)			Source: 4053853-01 Prepared & Analyzed: 05/30/14					
Solids - total volatile suspended solids	1040	mg/L		1060			2	5
Duplicate (B408844-DUP2)			Source: 4053978-01 Prepared & Analyzed: 05/30/14					
Solids - total volatile suspended solids	1000	mg/L		1000			0	5
Nutrients - Quality Control								
Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B408781 - 04-No Prep WC								



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St. Louis, MO 63044
Attn: Bill Abernathy

Date Received: 05/29/14 11:05
Report Date: 05/30/14
Customer #: 277310
PO#: 4167739

Laboratory Results

Nutrients - Quality Control

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B408781 - 04-No Prep WC								
Calibration Blank (B408781-CCB1)			Prepared & Analyzed: 05/29/14					
Ammonia-N	0.00	mg/L						
Calibration Check (B408781-CCV1)			Prepared & Analyzed: 05/29/14					
Ammonia-N	10.1	mg/L	10.00		101	90-110		
Matrix Spike (B408781-MS1)			Prepared & Analyzed: 05/29/14					
Ammonia-N	27.9	mg/L	10.00	17.9	100	80-120		
Matrix Spike Dup (B408781-MSD1)			Prepared & Analyzed: 05/29/14					
Ammonia-N	28.0	mg/L	10.00	17.9	101	80-120	0.4	20

Total Metals - Quality Control

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B408728 - 04 EPA 200.2 R2.8								
Blank (B408728-BLK1)			Prepared: 05/29/14 Analyzed: 05/30/14					
Phosphorus	< 0.10	mg/L						
LCS (B408728-BS1)			Prepared: 05/29/14 Analyzed: 05/30/14					
Phosphorus	0.941	mg/L	1.000		94	85-115		
Matrix Spike (B408728-MS1)			Prepared: 05/29/14 Analyzed: 05/30/14					
Phosphorus	46.4	mg/L	5.000	41.7	93	70-130		
Matrix Spike Dup (B408728-MSD1)			Prepared: 05/29/14 Analyzed: 05/30/14					
Phosphorus	47.0	mg/L	5.000	41.7	105	70-130	1	20



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13570 St Charles Rock Road
St. Louis, MO 63044
Attn: Bill Abernathy

Date Received: 05/29/14 11:05
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Laboratory Results

Notes

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



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Report Date: 06/02/14
Customer #: 277310
PO#: 4167739

Laboratory Results

Sample No: **4053978-01**
Sample Description: **Tank 3 Start-Up**

Collect Date: **05/30/14 09:10**
Matrix: **Waste Water Grab**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<u>General Chemistry - STL</u>					
COD	2000 mg/L		05/30/14 13:21	DAW	SM 5220D 18Ed 04KS
Solids - total suspended solids (TSS)	2400 mg/L		05/30/14 11:15	DAW	SM 2540D 18Ed 04KS
Solids - total volatile suspended solids	1000 mg/L		05/30/14 13:00	DAW	SM 2540E 18Ed*
<u>Total Metals - STL</u>					
Phosphorus	34 mg/L		05/30/14 14:45	WPS	EPA 200.7 R4.4*

Sample No: **4053978-02**
Sample Description: **Tank 2 Start-Up**

Collect Date: **05/30/14 09:15**
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<u>General Chemistry - STL</u>					
COD	56000 mg/L		05/30/14 13:21	DAW	SM 5220D 18Ed 04KS
Solids - total suspended solids (TSS)	3900 mg/L		05/30/14 11:15	DAW	SM 2540D 18Ed 04KS
<u>Nutrients - STL</u>					
Ammonia-N	590 mg/L		05/30/14 12:30	ACV	SM(18) 4500 NH3 04KS F



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Report Date: 06/02/14
Customer #: 277310
PO#: 4167739

Laboratory Results

General Chemistry - Quality Control

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B408791 - 04-No Prep WC								
Calibration Blank (B408791-CCB1)			Prepared: 05/29/14 Analyzed: 05/30/14					
COD	-0.00477	mg/L						
Calibration Blank (B408791-CCB2)			Prepared: 05/29/14 Analyzed: 05/30/14					
COD	-5.07	mg/L						
Calibration Check (B408791-CCV1)			Prepared: 05/29/14 Analyzed: 05/30/14					
COD	99.2	mg/L	100.0		99	95-105		
Calibration Check (B408791-CCV2)			Prepared: 05/29/14 Analyzed: 05/30/14					
COD	493	mg/L	500.0		99	95-105		
Duplicate (B408791-DUP1)			Source: 4053911-01 Prepared: 05/29/14 Analyzed: 05/30/14					
COD	35.0	mg/L		35.5			1	20
Duplicate (B408791-DUP2)			Source: 4053853-02 Prepared: 05/29/14 Analyzed: 05/30/14					
COD	54100	mg/L		55000			2	20
Batch B408810 - 04-No Prep WC								
Blank (B408810-BLK1)			Prepared & Analyzed: 05/30/14					
Solids - total suspended solids (TSS)	< 2.0	mg/L						
LCS (B408810-BS1)			Prepared & Analyzed: 05/30/14					
Solids - total suspended solids (TSS)	96.0	mg/L	100.0		96	82.9-110		
Duplicate (B408810-DUP1)			Source: 4053978-01 Prepared & Analyzed: 05/30/14					
Solids - total suspended solids (TSS)	2420	mg/L		2360			3	5
Batch B408844 - 04-No Prep WC								
Duplicate (B408844-DUP1)			Source: 4053853-01 Prepared & Analyzed: 05/30/14					
Solids - total volatile suspended solids	1040	mg/L		1060			2	5
Duplicate (B408844-DUP2)			Source: 4053978-01 Prepared & Analyzed: 05/30/14					
Solids - total volatile suspended solids	1000	mg/L		1000			0	5
Nutrients - Quality Control								
Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B408866 - 04-No Prep WC								
Calibration Blank (B408866-CCB1)			Prepared & Analyzed: 05/30/14					
Ammonia-N	0.00	mg/L						



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Nutrients - Quality Control

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B408866 - 04-No Prep WC								
Calibration Check (B408866-CCV1)			Prepared & Analyzed: 05/30/14					
Ammonia-N	10.1	mg/L	10.00		101	90-110		
Matrix Spike (B408866-MS1)			Prepared & Analyzed: 05/30/14					
Ammonia-N	10.9	mg/L	10.00	1.01	99	80-120		
Matrix Spike Dup (B408866-MSD1)			Prepared & Analyzed: 05/30/14					
Ammonia-N	10.7	mg/L	10.00	1.01	97	80-120	2	20

Total Metals - Quality Control

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B408840 - 04 EPA 200.2 R2.8								
Blank (B408840-BLK1)			Prepared & Analyzed: 05/30/14					
Phosphorus	< 0.10	mg/L						
LCS (B408840-BS1)			Prepared & Analyzed: 05/30/14					
Phosphorus	0.910	mg/L	1.000		91	85-115		
Matrix Spike (B408840-MS1)			Prepared & Analyzed: 05/30/14					
Phosphorus	38.5	mg/L	5.000	33.6	97	70-130		
Matrix Spike Dup (B408840-MSD1)			Prepared & Analyzed: 05/30/14					
Phosphorus	38.9	mg/L	5.000	33.6	105	70-130	0.9	20



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Certified by: Roxann Shull, Client Services Supervisor



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

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

1 CLIENT Barr/Bridgeton LF ADDRESS CITY STATE ZIP Bridgeton MO CONTACT PERSON Bill Abernathy			PROJECT NUMBER Leachate PHONE NUMBER 314-502-1299		P.O. NUMBER FAX NUMBER EMAIL ADDRESS 		3 ANALYSIS REQUESTED COD MLSS/MLUSS Total P Ammonia N TSS					4 (FOR LAB USE ONLY) LOGIN # 4053978 LOGGED BY: HE LAB PROJ. # TEMPLATE: PROJ. MGR.: REMARKS	
2 SAMPLE DESCRIPTION AS YOU WANT ON REPORT			DATE COLLECTED	TIME COLLECTED	SAMPLE TYPE	MATRIX COMP TYPE	Bottle Count						
Tank 3 Start up			5-30-14	9:10	X	L'cht	3	✓	✓	✓			
Tank 2 Start up			5-30-14	9:15	X	L'cht	2	✓			✓	✓	
5 TURNAROUND TIME (RUSH TAT IS SUBJECT TO PDC LABS APPROVAL AND SURCHARGE) NORMAL (8-10 Bus. Days) RUSH (5 Bus. Days) Fastrak™ (3 Bus. Days) 1-2 Bus. Days Same Day DATE DUE 5-31-14			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.										
7 RELINQUISHED BY (SIGNATURE) Paul J. [Signature]			DATE	TIME	RECEIVED BY:	DATE	TIME	8 COMMENTS (FOR LAB USE ONLY) 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) [Signature]			5-30-14	10:09	[Signature]	5-30-14	10:09	26.9					
RELINQUISHED BY (SIGNATURE) [Signature]			5-30-14	10:35	[Signature]	5/30/14	10:35						
RELINQUISHED BY (SIGNATURE)			DATE	TIME	RECEIVED BY:	DATE	TIME						

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Attn: Bill Abernathy

Date Received: 06/01/14 10:15
Report Date: 06/02/14
Customer #: 277310
PO#: 4167739

Laboratory Results

Sample No: **4060052-01**
Sample Description: **Tank 3 Start-Up 5/31**

Collect Date: **05/31/14 08:50**
Matrix: **Waste Water Grab**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<u>Anions - STL</u>					
Nitrate-N	1.1 mg/L		06/02/14 07:42	DWM	EPA 300.0 R2.1 04KS
Nitrite-N	< 0.50 mg/L		06/02/14 07:42	DWM	EPA 300.0 R2.1 04KS
<u>General Chemistry - STL</u>					
COD	2200 mg/L		06/01/14 12:59	DAW	SM 5220D 18Ed 04KS
Solids - total suspended solids (TSS)	2200 mg/L		06/02/14 12:35	DAW	SM 2540D 18Ed 04KS
Solids - total volatile suspended solids	760 mg/L		06/02/14 08:30	DAW	SM 2540E 18Ed*
<u>Nutrients - STL</u>					
Ammonia-N	20 mg/L		06/02/14 11:30	ACV	SM(18) 4500 NH3 04KS F

Sample No: **4060052-02**
Sample Description: **Tank 2 Start-Up 5/31**

Collect Date: **05/31/14 08:56**
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<u>General Chemistry - STL</u>					
COD	53000 mg/L		06/01/14 12:59	DAW	SM 5220D 18Ed 04KS
Solids - total suspended solids (TSS)	3700 mg/L		06/02/14 12:35	DAW	SM 2540D 18Ed 04KS
<u>Nutrients - STL</u>					
Ammonia-N	750 mg/L		06/02/14 11:30	ACV	SM(18) 4500 NH3 04KS F

Sample No: **4060052-03**
Sample Description: **Tank 3 Start-Up 6/01**

Collect Date: **06/01/14 08:50**
Matrix: **Waste Water Grab**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<u>Anions - STL</u>					
Nitrate-N	1.0 mg/L		06/02/14 07:58	DWM	EPA 300.0 R2.1 04KS
Nitrite-N	< 0.50 mg/L		06/02/14 07:58	DWM	EPA 300.0 R2.1 04KS
<u>General Chemistry - STL</u>					
COD	2300 mg/L		06/01/14 13:00	DAW	SM 5220D 18Ed 04KS



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Laboratory Results

Sample No: **4060052-03**
Sample Description: **Tank 3 Start-Up 6/01**

Collect Date: **06/01/14 08:50**
Matrix: **Waste Water Grab**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<u>General Chemistry - STL</u>					
Solids - total suspended solids (TSS)	3000 mg/L		06/02/14 12:35	DAW	SM 2540D 18Ed 04KS
Solids - total volatile suspended solids	1100 mg/L		06/02/14 08:30	DAW	SM 2540E 18Ed*
<u>Nutrients - STL</u>					
Ammonia-N	28 mg/L		06/02/14 11:30	ACV	SM(18) 4500 NH3 04KS F

Sample No: **4060052-04**
Sample Description: **Tank 2 Start-Up 6/01**

Collect Date: **06/01/14 09:00**
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<u>General Chemistry - STL</u>					
COD	55000 mg/L		06/01/14 13:00	DAW	SM 5220D 18Ed 04KS
Solids - total suspended solids (TSS)	4400 mg/L		06/02/14 12:35	DAW	SM 2540D 18Ed 04KS
<u>Nutrients - STL</u>					
Ammonia-N	800 mg/L		06/02/14 11:30	ACV	SM(18) 4500 NH3 04KS F



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Laboratory Results

General Chemistry - Quality Control

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B408848 - 04-No Prep WC								
Calibration Blank (B408848-CCB1)			Prepared: 05/30/14 Analyzed: 06/01/14					
COD	-0.00477	mg/L						
Calibration Blank (B408848-CCB2)			Prepared: 05/30/14 Analyzed: 06/01/14					
COD	-5.07	mg/L						
Calibration Check (B408848-CCV1)			Prepared: 05/30/14 Analyzed: 06/01/14					
COD	98.4	mg/L	100.0		98	95-105		
Calibration Check (B408848-CCV2)			Prepared: 05/30/14 Analyzed: 06/01/14					
COD	495	mg/L	500.0		99	95-105		
Duplicate (B408848-DUP1)			Source: 4054013-02 Prepared: 05/30/14 Analyzed: 06/01/14					
COD	15.1	mg/L		14.6			4	20
Duplicate (B408848-DUP2)			Source: 4054013-01 Prepared: 05/30/14 Analyzed: 06/01/14					
COD	199	mg/L		199			0	20
Batch B408861 - 04-No Prep WC								
Blank (B408861-BLK1)			Prepared & Analyzed: 06/01/14					
Solids - total suspended solids (TSS)	< 2.0	mg/L						
LCS (B408861-BS1)			Prepared & Analyzed: 06/01/14					
Solids - total suspended solids (TSS)	96.0	mg/L	100.0		96	82.9-110		
Duplicate (B408861-DUP1)			Source: 4054046-01 Prepared & Analyzed: 06/01/14					
Solids - total suspended solids (TSS)	1500	mg/L		1500			0	5
Duplicate (B408861-DUP2)			Source: 4060052-01 Prepared: 06/01/14 Analyzed: 06/02/14					
Solids - total suspended solids (TSS)	2220	mg/L		2180			2	5
Batch B408919 - 04-No Prep WC								
Duplicate (B408919-DUP1)			Source: 4060052-01 Prepared & Analyzed: 06/02/14					
Solids - total volatile suspended solids	760	mg/L		760			0	5
Nutrients - Quality Control								
Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B408951 - 04-No Prep WC								
Blank (B408951-BLK1)			Prepared & Analyzed: 06/02/14					
Ammonia-N	< 0.10	mg/L						
LCS (B408951-BS1)			Prepared & Analyzed: 06/02/14					



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Laboratory Results

Nutrients - Quality Control

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B408951 - 04-No Prep WC								
LCS (B408951-BS1)			Prepared & Analyzed: 06/02/14					
Ammonia-N	10.1	mg/L	10.00		101	80-120		
Matrix Spike (B408951-MS1)			Source: 4060052-02 Prepared & Analyzed: 06/02/14					
Ammonia-N	1740	mg/L	1000	754	99	80-120		
Matrix Spike Dup (B408951-MSD1)			Source: 4060052-02 Prepared & Analyzed: 06/02/14					
Ammonia-N	1750	mg/L	1000	754	100	80-120	0.6	20

Anions - Quality Control

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B408923 - 04-IC No Prep								
Calibration Blank (B408923-CCB1)			Prepared & Analyzed: 06/02/14					
Nitrate-N	0.00	mg/L						
Nitrite-N	0.00	mg/L						
Calibration Check (B408923-CCV1)			Prepared & Analyzed: 06/02/14					
Nitrate-N	1.22	mg/L	1.130		108	90-110		
Nitrite-N	2.14	mg/L	2.000		107	90-110		



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A handwritten signature in black ink that reads 'Roxann Shull'. The signature is written on a light green rectangular background.

Certified by: Roxann Shull, Client Services Supervisor

