



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: 06/02/14 11:30
Report Date: 06/04/14
Customer #: 277310
PO#: 4167739

Laboratory Results

Sample No: **4060049-01**
Sample Description: **Tank 3 Start-Up**

Collect Date: **06/02/14 08:26**
Matrix: **Waste Water Grab**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<u>Anions - STL</u>					
Nitrate-N	0.58 mg/L		06/02/14 14:12	DWM	EPA 300.0 R2.1 04KS
Nitrite-N	< 0.50 mg/L		06/02/14 14:12	DWM	EPA 300.0 R2.1 04KS
<u>General Chemistry - STL</u>					
COD	2300 mg/L		06/03/14 08:38	DAW	SM 5220D 18Ed 04KS
Solids - total suspended solids (TSS)	4800 mg/L		06/02/14 13:00	DAW	SM 2540D 18Ed 04KS
Solids - total volatile suspended solids	1600 mg/L		06/03/14 08:30	DAW	SM 2540E 18Ed*
<u>Nutrients - STL</u>					
Ammonia-N	52 mg/L		06/02/14 11:30	ACV	SM(18) 4500 NH3 F 04KS
<u>Soluble Metals - STL</u>					
Zinc	0.11 mg/L		06/04/14 12:08	WPS	EPA 200.7 R4.4 04KS
<u>Soluble Nutrients - STL</u>					
Phosphorus - ortho as P	4.3 mg/L		06/02/14 15:30	ACV	SM 4500P B E 18ed*
<u>Total Metals - STL</u>					
Zinc	0.91 mg/L		06/04/14 12:10	WPS	EPA 200.7 R4.4 04KS

Sample No: **4060049-02**
Sample Description: **Tank 2 Start-Up**

Collect Date: **06/02/14 08:31**
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<u>General Chemistry - STL</u>					
COD	54000 mg/L		06/03/14 08:38	DAW	SM 5220D 18Ed 04KS
Solids - total suspended solids (TSS)	5400 mg/L		06/02/14 13:00	DAW	SM 2540D 18Ed 04KS
<u>Nutrients - STL</u>					
Ammonia-N	740 mg/L		06/02/14 11:30	ACV	SM(18) 4500 NH3 F 04KS

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Laboratory Results**General Chemistry - Quality Control**

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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Batch B408920 - 04-No Prep WC

Blank (B408920-BLK1)			Prepared & Analyzed: 06/02/14					
Solids - total suspended solids (TSS)	< 2.0	mg/L						
LCS (B408920-BS1)			Prepared & Analyzed: 06/02/14					
Solids - total suspended solids (TSS)	96.0	mg/L	100.0		96	82.9-110		
Duplicate (B408920-DUP1)			Prepared & Analyzed: 06/02/14					
Solids - total suspended solids (TSS)	4840	mg/L		4820			0.4	5

Batch B408953 - 04-No Prep WC

Calibration Blank (B408953-CCB1)			Prepared: 06/02/14 Analyzed: 06/03/14					
COD	-5.10	mg/L						
Calibration Check (B408953-CCV1)			Prepared: 06/02/14 Analyzed: 06/03/14					
COD	504	mg/L	500.0		101	95-105		
Duplicate (B408953-DUP1)			Prepared: 06/02/14 Analyzed: 06/03/14					
COD	53200	mg/L		53700			0.8	20

Batch B409034 - 04-No Prep WC

Duplicate (B409034-DUP1)			Prepared & Analyzed: 06/03/14					
Solids - total volatile suspended solids	1580	mg/L		1560			1	5

Nutrients - Quality Control

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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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					
Ammonia-N	10.1	mg/L	10.00		101	80-120		
Matrix Spike (B408951-MS1)			Prepared & Analyzed: 06/02/14					
Ammonia-N	1740	mg/L	1000	754	99	80-120		
Matrix Spike Dup (B408951-MSD1)			Prepared & Analyzed: 06/02/14					
Ammonia-N	1750	mg/L	1000	754	100	80-120	0.6	20

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Laboratory Results**Soluble Nutrients - Quality Control**

Analyte		Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B409020 - 04-No Prep WC									
Calibration Blank (B409020-CCB1)				Prepared & Analyzed: 06/02/14					
Phosphorus - ortho as P		0.00	mg/L						
Calibration Check (B409020-CCV1)				Prepared & Analyzed: 06/02/14					
Phosphorus - ortho as P		0.514	mg/L	0.5000		103	90-110		
Matrix Spike (B409020-MS1)				Prepared & Analyzed: 06/02/14					
Phosphorus - ortho as P	Q4	8.88	mg/L	10.00	4.32	46	80-120		
Matrix Spike Dup (B409020-MSD1)				Prepared & Analyzed: 06/02/14					
Phosphorus - ortho as P	Q4	9.36	mg/L	10.00	4.32	50	80-120	5	20

Total Metals - Quality Control

Analyte		Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B408977 - 04 EPA 200.2 R2.8									
Blank (B408977-BLK1)				Prepared: 06/03/14 Analyzed: 06/04/14					
Zinc		< 0.020	mg/L						
LCS (B408977-BS1)				Prepared: 06/03/14 Analyzed: 06/04/14					
Zinc		0.218	mg/L	0.2000		109	85-115		
Matrix Spike (B408977-MS1)				Prepared: 06/03/14 Analyzed: 06/04/14					
Zinc		2.03	mg/L	1.000	0.907	112	70-130		
Matrix Spike Dup (B408977-MSD1)				Prepared: 06/03/14 Analyzed: 06/04/14					
Zinc		2.06	mg/L	1.000	0.907	115	70-130	1	20

Soluble Metals - Quality Control

Analyte		Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B408977 - 04 EPA 200.2 R2.8									
Blank (B408977-BLK2)				Prepared: 06/03/14 Analyzed: 06/04/14					
Zinc		< 0.020	mg/L						
LCS (B408977-BS1)				Prepared: 06/03/14 Analyzed: 06/04/14					
Zinc		0.218	mg/L	0.2000		109	85-115		



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Laboratory Results

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					
Nitrite-N	0.00	mg/L						
Nitrate-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		
Matrix Spike (B408923-MS1)			Prepared & Analyzed: 06/02/14					
Nitrate-N	6.1	mg/L	5.648	ND	107	80-120		
Nitrite-N	11.6	mg/L	12.50		93	80-120		



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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); 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)

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

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

[illegible]



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Attn: Bill Abernathy

Date Received: 06/03/14 10:25
Report Date: 06/04/14
Customer #: 277310
PO#: 4167739

Laboratory Results

Sample No: **4060132-01**
Sample Description: **Tank 3 Start-Up 6/03**

Collect Date: **06/03/14 08:30**
Matrix: **Waste Water Grab**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<u>Anions - STL</u>					
Nitrate-N	0.86 mg/L		06/03/14 16:41	DWM	EPA 300.0 R2.1 04KS
Nitrite-N	< 0.50 mg/L		06/03/14 16:41	DWM	EPA 300.0 R2.1 04KS
<u>General Chemistry - STL</u>					
COD	2300 mg/L		06/04/14 08:26	DAW	SM 5220D 18Ed 04KS
Solids - total suspended solids (TSS)	3000 mg/L		06/03/14 11:35	DAW	SM 2540D 18Ed 04KS
Solids - total volatile suspended solids	920 mg/L		06/04/14 08:30	DAW	SM 2540E 18Ed*
<u>Nutrients - STL</u>					
Ammonia-N	47 mg/L		06/04/14 10:00	ACV	SM(18) 4500 NH3 04KS F

Sample No: **4060132-02**
Sample Description: **Tank 2 Start-Up 6/03**

Collect Date: **06/03/14 08:36**
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<u>General Chemistry - STL</u>					
COD	55000 mg/L		06/04/14 08:26	DAW	SM 5220D 18Ed 04KS
Solids - total suspended solids (TSS)	4500 mg/L		06/03/14 11:35	DAW	SM 2540D 18Ed 04KS
<u>Nutrients - STL</u>					
Ammonia-N	600 mg/L		06/04/14 10:00	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
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Batch B409018 - 04-No Prep WC

Blank (B409018-BLK1)			Prepared & Analyzed: 06/03/14					
Solids - total suspended solids (TSS)	< 2.0	mg/L						
LCS (B409018-BS1)			Prepared & Analyzed: 06/03/14					
Solids - total suspended solids (TSS)	99.0	mg/L	100.0		99	82.9-110		
Duplicate (B409018-DUP1)			Prepared & Analyzed: 06/03/14					
Solids - total suspended solids (TSS)	1520	mg/L		1560			3	5
Duplicate (B409018-DUP2)			Prepared & Analyzed: 06/03/14					
Solids - total suspended solids (TSS)	2940	mg/L		2980			1	5

Batch B409071 - 04-No Prep WC

Calibration Blank (B409071-CCB1)			Prepared: 06/03/14 Analyzed: 06/04/14					
COD	-0.266	mg/L						
Calibration Blank (B409071-CCB2)			Prepared: 06/03/14 Analyzed: 06/04/14					
COD	-5.07	mg/L						
Calibration Check (B409071-CCV1)			Prepared: 06/03/14 Analyzed: 06/04/14					
COD	97.6	mg/L	100.0		98	95-105		
Calibration Check (B409071-CCV2)			Prepared: 06/03/14 Analyzed: 06/04/14					
COD	504	mg/L	500.0		101	95-105		
Duplicate (B409071-DUP1)			Prepared: 06/03/14 Analyzed: 06/04/14					
COD	40.5	mg/L		40.7			0.6	20
Duplicate (B409071-DUP2)			Prepared: 06/03/14 Analyzed: 06/04/14					
COD	54800	mg/L		55400			1	20

Batch B409117 - 04-No Prep WC

Duplicate (B409117-DUP1)			Prepared & Analyzed: 06/04/14					
Solids - total volatile suspended solids	940	mg/L		920			2	5

Nutrients - Quality Control

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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Batch B409133 - 04-No Prep WC

Calibration Blank (B409133-CCB1)			Prepared & Analyzed: 06/04/14					
Ammonia-N	0.00	mg/L						
Calibration Check (B409133-CCV1)			Prepared & Analyzed: 06/04/14					

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Laboratory Results**Nutrients - Quality Control**

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B409133 - 04-No Prep WC								
Calibration Check (B409133-CCV1)			Prepared & Analyzed: 06/04/14					
Ammonia-N	9.92	mg/L	10.00		99	90-110		
Matrix Spike (B409133-MS1)			Source: 4060071-01 Prepared & Analyzed: 06/04/14					
Ammonia-N	13.5	mg/L	10.00	3.84	97	80-120		
Matrix Spike Dup (B409133-MSD1)			Source: 4060071-01 Prepared & Analyzed: 06/04/14					
Ammonia-N	13.6	mg/L	10.00	3.84	98	80-120	0.7	20

Anions - Quality Control

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B409074 - 04-IC No Prep								
Calibration Blank (B409074-CCB1)			Prepared & Analyzed: 06/03/14					
Nitrate-N	0.00	mg/L						
Nitrite-N	0.00	mg/L						
Calibration Check (B409074-CCV1)			Prepared & Analyzed: 06/03/14					
Nitrate-N	1.24	mg/L	1.130		110	90-110		
Nitrite-N	2.18	mg/L	2.000		109	90-110		
Matrix Spike (B409074-MS1)			Source: 4052899-10 Prepared & Analyzed: 06/03/14					
Nitrite-N	27.0	mg/L	25.00		108	80-120		
Nitrate-N	12	mg/L	11.30	0.39	104	80-120		
Matrix Spike Dup (B409074-MSD1)			Source: 4052899-10 Prepared & Analyzed: 06/03/14					
Nitrate-N	12	mg/L	11.30	0.39	101	80-120	3	20
Nitrite-N	26.0	mg/L	25.00		104	80-120	4	20



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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)

1 CLIENT <u>BARRY BRIDGETON LE</u> 3 ANALYSIS REQUESTED COD + Ammonia MLSS/PLSS + N/A TSS	PROJECT NUMBER PHONE NUMBER CITY STATE ZIP CONTACT PERSON P. O. NUMBER FAX NUMBER SAMPLER <u>BILL ABERNATHY</u> SAMPLER'S SIGNATURE 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	4 (FOR-LAB USE ONLY) <u>4060132</u> LOGIN # LOGGED BY: LAB PROJ. # TEMPLATE: PROJ. MGR.:	REMARKS 																																																																																																																							
2 <table style="width:100%; border-collapse: collapse;"> <thead> <tr style="background-color: #f2f2f2;"> <th style="width:35%;">SAMPLE DESCRIPTION AS YOU WANT ON REPORT</th> <th style="width:10%;">DATE COLLECTED</th> <th style="width:10%;">TIME COLLECTED</th> <th style="width:5%;">SAMPLE TYPE GRAB</th> <th style="width:5%;">MATRIX COMP</th> <th style="width:10%;">MATRIX TYPE</th> <th style="width:10%;">Bottle Count</th> </tr> </thead> <tbody> <tr> <td>T3 STARTUP</td> <td>6/3/14</td> <td>0830</td> <td>✓</td> <td></td> <td>LCHT</td> <td>2</td> </tr> <tr> <td>T2 STARTUP</td> <td>6/3/14</td> <td>0836</td> <td>✓</td> <td></td> <td>LCHT</td> <td>2</td> </tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>				SAMPLE DESCRIPTION AS YOU WANT ON REPORT	DATE COLLECTED	TIME COLLECTED	SAMPLE TYPE GRAB	MATRIX COMP	MATRIX TYPE	Bottle Count	T3 STARTUP	6/3/14	0830	✓		LCHT	2	T2 STARTUP	6/3/14	0836	✓		LCHT	2																																																																																																		
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T2 STARTUP	6/3/14	0836	✓		LCHT	2																																																																																																																				
5 <table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:50%;"> TURNAROUND TIME (RUSH TAT IS SUBJECT TO PDC LABS APPROVAL AND SURCHARGE) NORMAL (8-10 Bus. Days) RUSH (5 Bus. Days) <u>Fastrak™</u> (3 Bus. Days) <u>1-2 Bus. Days</u> Same Day DATE DUE <u>6/4/14</u> </td> <td style="width:50%;"> 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. </td> </tr> </table>				TURNAROUND TIME (RUSH TAT IS SUBJECT TO PDC LABS APPROVAL AND SURCHARGE) NORMAL (8-10 Bus. Days) RUSH (5 Bus. Days) <u>Fastrak™</u> (3 Bus. Days) <u>1-2 Bus. Days</u> Same Day DATE DUE <u>6/4/14</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.	6																																																																																																																				
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Bridgeton Landfill
13570 St Charles Rock Road
St. Louis, MO 63044
Attn: Bill Abernathy

Date Received: 06/04/14 10:50
Report Date: 06/05/14
Customer #: 277310
PO#: 4167739

Laboratory Results

Sample No: **4060465-01**
Sample Description: **Tank 3 Start-Up 6/04**

Collect Date: **06/04/14 00:00**
Matrix: **Waste Water Grab**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<u>Anions - STL</u>					
Nitrate-N	1.1 mg/L		06/04/14 14:04	DWM	EPA 300.0 R2.1 04KS
Nitrite-N	< 0.50 mg/L		06/04/14 14:04	DWM	EPA 300.0 R2.1 04KS
<u>General Chemistry - STL</u>					
COD	690 mg/L		06/05/14 08:19	DAW	SM 5220D 18Ed 04KS
Solids - total suspended solids (TSS)	2800 mg/L		06/04/14 12:10	DAW	SM 2540D 18Ed 04KS
Solids - total volatile suspended solids	1000 mg/L		06/05/14 08:00	DAW	SM 2540E 18Ed*
<u>Nutrients - STL</u>					
Ammonia-N	34 mg/L		06/04/14 10:00	ACV	SM(18) 4500 NH3 04KS F

Sample No: **4060465-02**
Sample Description: **Tank 2 Start-Up 6/04**

Collect Date: **06/04/14 00:00**
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<u>General Chemistry - STL</u>					
COD	52000 mg/L		06/05/14 08:20	DAW	SM 5220D 18Ed 04KS
Solids - total suspended solids (TSS)	3900 mg/L		06/04/14 12:10	DAW	SM 2540D 18Ed 04KS
<u>Nutrients - STL</u>					
Ammonia-N	650 mg/L		06/04/14 10:00	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 B409118 - 04-No Prep WC								
Blank (B409118-BLK1)			Prepared & Analyzed: 06/04/14					
Solids - total suspended solids (TSS)	< 2.0	mg/L						
LCS (B409118-BS1)			Prepared & Analyzed: 06/04/14					
Solids - total suspended solids (TSS)	101	mg/L	100.0		101	82.9-110		
Duplicate (B409118-DUP1)			Prepared & Analyzed: 06/04/14					
Solids - total suspended solids (TSS)	2740	mg/L		2820			3	5
Batch B409176 - 04-No Prep WC								
Calibration Blank (B409176-CCB1)			Prepared: 06/04/14 Analyzed: 06/05/14					
COD	-0.00477	mg/L						
Calibration Blank (B409176-CCB2)			Prepared: 06/04/14 Analyzed: 06/05/14					
COD	-5.07	mg/L						
Calibration Check (B409176-CCV1)			Prepared: 06/04/14 Analyzed: 06/05/14					
COD	98.2	mg/L	100.0		98	95-105		
Calibration Check (B409176-CCV2)			Prepared: 06/04/14 Analyzed: 06/05/14					
COD	484	mg/L	500.0		97	95-105		
Duplicate (B409176-DUP1)			Prepared: 06/04/14 Analyzed: 06/05/14					
COD	15.4	mg/L		15.4			0	20
Duplicate (B409176-DUP2)			Prepared: 06/04/14 Analyzed: 06/05/14					
COD	51100	mg/L		51700			1	20
Batch B409204 - 04-No Prep WC								
Duplicate (B409204-DUP1)			Prepared & Analyzed: 06/05/14					
Solids - total volatile suspended solids	1060	mg/L		1040			2	5

Nutrients - Quality Control

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B409133 - 04-No Prep WC								
Calibration Blank (B409133-CCB1)			Prepared & Analyzed: 06/04/14					
Ammonia-N	0.00	mg/L						
Calibration Check (B409133-CCV1)			Prepared & Analyzed: 06/04/14					
Ammonia-N	9.92	mg/L	10.00		99	90-110		
Matrix Spike (B409133-MS1)			Prepared & Analyzed: 06/04/14					

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Laboratory Results**Nutrients - Quality Control**

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B409133 - 04-No Prep WC								
Matrix Spike (B409133-MS1)			Source: 4060071-01		Prepared & Analyzed: 06/04/14			
Ammonia-N	13.5	mg/L	10.00	3.84	97	80-120		
Matrix Spike Dup (B409133-MSD1)			Source: 4060071-01		Prepared & Analyzed: 06/04/14			
Ammonia-N	13.6	mg/L	10.00	3.84	98	80-120	0.7	20

Anions - Quality Control

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B409196 - 04-IC No Prep								
Calibration Blank (B409196-CCB1)			Prepared & Analyzed: 06/04/14					
Nitrite-N	0.00	mg/L						
Nitrate-N	0.00	mg/L						
Calibration Check (B409196-CCV1)			Prepared & Analyzed: 06/04/14					
Nitrate-N	1.24	mg/L				90-110		
Nitrite-N	2.16	mg/L				90-110		
Matrix Spike (B409196-MS1)			Source: 4053545-01		Prepared & Analyzed: 06/04/14			
Nitrate-N	Q1 13	mg/L	11.30	4.0	77	80-120		
Nitrite-N	26.9	mg/L	25.00	ND	108	80-120		
Matrix Spike Dup (B409196-MSD1)			Source: 4053545-01		Prepared & Analyzed: 06/04/14			
Nitrate-N	Q2 13	mg/L	11.30	4.0	76	80-120	0.9	20
Nitrite-N	26.5	mg/L	25.00	ND	106	80-120	1	20



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Laboratory Results

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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)

Q2 MSD failed %R
Q1 MS Failed %R

Certified by: Roxann Shull, Client Services Supervisor

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PO#: 4167739

Laboratory Results

Sample No: **4060795-01**
Sample Description: **Tank 3 Start-Up**

Collect Date: **06/05/14 09:00**
Matrix: **Waste Water Grab**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<u>Anions - STL</u>					
Nitrate-N	0.93 mg/L		06/06/14 09:29	DWM	EPA 300.0 R2.1 04KS
Nitrite-N	< 0.50 mg/L		06/06/14 09:29	DWM	EPA 300.0 R2.1 04KS
<u>General Chemistry - STL</u>					
COD	2400 mg/L		06/06/14 08:18	DAW	SM 5220D 18Ed 04KS
Solids - total suspended solids (TSS)	3300 mg/L		06/05/14 12:25	DAW	SM 2540D 18Ed 04KS
Solids - total volatile suspended solids	1100 mg/L		06/06/14 13:00	DAW	SM 2540E 18Ed*
<u>Nutrients - STL</u>					
Ammonia-N	67 mg/L		06/05/14 11:15	ACV	SM(18) 4500 NH3 F 04KS
<u>Soluble Metals - STL</u>					
Zinc	0.19 mg/L		06/06/14 14:04	WPS	EPA 200.7 R4.4 04KS
<u>Soluble Nutrients - STL</u>					
Phosphorus - ortho as P	0.69 mg/L		06/05/14 15:00	ACV	SM 4500P B E 18ed*
<u>Total Metals - STL</u>					
Zinc	0.99 mg/L		06/06/14 14:09	WPS	EPA 200.7 R4.4 04KS

Sample No: **4060795-02**
Sample Description: **Tank 2 Start-Up**

Collect Date: **06/05/14 09:17**
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<u>General Chemistry - STL</u>					
COD	51000 mg/L		06/06/14 08:18	DAW	SM 5220D 18Ed 04KS
Solids - total suspended solids (TSS)	3500 mg/L		06/05/14 12:25	DAW	SM 2540D 18Ed 04KS
<u>Nutrients - STL</u>					
Ammonia-N	590 mg/L		06/05/14 11:15	ACV	SM(18) 4500 NH3 F 04KS

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 Customer #: 277310
 PO#: 4167739

Laboratory Results**General Chemistry - Quality Control**

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B409205 - 04-No Prep WC								
Blank (B409205-BLK1)			Prepared & Analyzed: 06/05/14					
Solids - total suspended solids (TSS)	< 2.0	mg/L						
LCS (B409205-BS1)			Prepared & Analyzed: 06/05/14					
Solids - total suspended solids (TSS)	99.0	mg/L	100.0		99	82.9-110		
Duplicate (B409205-DUP1)			Prepared & Analyzed: 06/05/14					
Solids - total suspended solids (TSS)	12.8	mg/L		12.4			3	5
Duplicate (B409205-DUP2)			Prepared & Analyzed: 06/05/14					
Solids - total suspended solids (TSS)	3240	mg/L		3300			2	5
Batch B409275 - 04-No Prep WC								
Calibration Blank (B409275-CCB1)			Prepared: 06/05/14 Analyzed: 06/06/14					
COD	-0.266	mg/L						
Calibration Blank (B409275-CCB2)			Prepared: 06/05/14 Analyzed: 06/06/14					
COD	-5.07	mg/L						
Calibration Check (B409275-CCV1)			Prepared: 06/05/14 Analyzed: 06/06/14					
COD	102	mg/L	100.0		102	95-105		
Calibration Check (B409275-CCV2)			Prepared: 06/05/14 Analyzed: 06/06/14					
COD	498	mg/L	500.0		100	95-105		
Duplicate (B409275-DUP1)			Prepared: 06/05/14 Analyzed: 06/06/14					
COD	10.2	mg/L		9.92			3	20
Duplicate (B409275-DUP2)			Prepared: 06/05/14 Analyzed: 06/06/14					
COD	50600	mg/L		50800			0.4	20
Batch B409345 - 04-No Prep WC								
Duplicate (B409345-DUP1)			Prepared & Analyzed: 06/06/14					
Solids - total volatile suspended solids	1060	mg/L		1060			0	5
Duplicate (B409345-DUP2)			Prepared & Analyzed: 06/06/14					
Solids - total volatile suspended solids	960	mg/L		940			2	5

Nutrients - Quality Control

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B409272 - 04-No Prep WC								

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Laboratory Results**Nutrients - Quality Control**

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B409272 - 04-No Prep WC								
Calibration Blank (B409272-CCB1)			Prepared & Analyzed: 06/05/14					
Ammonia-N	0.00	mg/L						
Calibration Blank (B409272-CCB2)			Prepared & Analyzed: 06/05/14					
Ammonia-N	0.00	mg/L						
Calibration Check (B409272-CCV1)			Prepared & Analyzed: 06/05/14					
Ammonia-N	10.1	mg/L	10.00		101	90-110		
Calibration Check (B409272-CCV2)			Prepared & Analyzed: 06/05/14					
Ammonia-N	9.86	mg/L	10.00		99	90-110		
Matrix Spike (B409272-MS1)			Prepared & Analyzed: 06/05/14					
Ammonia-N	29.1	mg/L	10.00	19.5	96	80-120		
Matrix Spike (B409272-MS2)			Prepared & Analyzed: 06/05/14					
Ammonia-N	10.0	mg/L	10.00	0.160	98	80-120		
Matrix Spike Dup (B409272-MSD1)			Prepared & Analyzed: 06/05/14					
Ammonia-N	29.0	mg/L	10.00	19.5	95	80-120	0.3	20
Matrix Spike Dup (B409272-MSD2)			Prepared & Analyzed: 06/05/14					
Ammonia-N	10.0	mg/L	10.00	0.160	98	80-120	0	20

Soluble Nutrients - Quality Control

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B409276 - 04-No Prep WC								
Calibration Blank (B409276-CCB1)			Prepared & Analyzed: 06/05/14					
Phosphorus - ortho as P	0.00	mg/L						
Calibration Check (B409276-CCV1)			Prepared & Analyzed: 06/05/14					
Phosphorus - ortho as P	0.509	mg/L	0.5000		102	90-110		
Matrix Spike (B409276-MS1)			Prepared & Analyzed: 06/05/14					
Phosphorus - ortho as P	5.74	mg/L	5.000	0.690	101	80-120		
Matrix Spike Dup (B409276-MSD1)			Prepared & Analyzed: 06/05/14					
Phosphorus - ortho as P	5.76	mg/L	5.000	0.690	101	80-120	0.3	20

Total Metals - Quality Control

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

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Laboratory Results**Total Metals - Quality Control**

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B409222 - 04 EPA 200.2 R2.8								
Blank (B409222-BLK1)			Prepared: 06/05/14 Analyzed: 06/06/14					
Zinc	< 0.020	mg/L						
LCS (B409222-BS1)			Prepared: 06/05/14 Analyzed: 06/06/14					
Zinc	0.220	mg/L	0.2000		110	85-115		

Soluble Metals - Quality Control

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B409222 - 04 EPA 200.2 R2.8								
Blank (B409222-BLK1)			Prepared: 06/05/14 Analyzed: 06/06/14					
Zinc	< 0.020	mg/L						
LCS (B409222-BS1)			Prepared: 06/05/14 Analyzed: 06/06/14					
Zinc	0.220	mg/L	0.2000		110	85-115		
Matrix Spike (B409222-MS1)			Source: 4060795-01 Prepared: 06/05/14 Analyzed: 06/06/14					
Zinc	1.27	mg/L	1.000	0.194	107	70-130		
Matrix Spike Dup (B409222-MSD1)			Source: 4060795-01 Prepared: 06/05/14 Analyzed: 06/06/14					
Zinc	1.25	mg/L	1.000	0.194	105	70-130	2	20

Anions - Quality Control

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B409294 - 04-IC No Prep								
Calibration Blank (B409294-CCB1)			Prepared & Analyzed: 06/06/14					
Nitrite-N	0.00	mg/L						
Nitrate-N	0.00	mg/L						
Calibration Check (B409294-CCV1)			Prepared & Analyzed: 06/06/14					
Nitrite-N	2.12	mg/L	2.000		106	90-110		
Nitrate-N	1.23	mg/L	1.130		109	90-110		



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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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(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: 06/06/14 10:36
Report Date: 06/10/14
Customer #: 277310
PO#: 4167739

Laboratory Results

Sample No: **4061092-01**
Sample Description: **Tank 3 Start-Up 6/06**

Collect Date: **06/06/14 09:05**
Matrix: **Waste Water Grab**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<u>Anions - STL</u>					
Nitrate-N	0.83 mg/L		06/07/14 11:27	DWM	EPA 300.0 R2.1 04KS
Nitrite-N	< 0.50 mg/L		06/07/14 11:27	DWM	EPA 300.0 R2.1 04KS
<u>General Chemistry - STL</u>					
COD	2200 mg/L		06/06/14 14:01	DAW	SM 5220D 18Ed 04KS
Solids - total suspended solids (TSS)	3300 mg/L		06/06/14 12:00	DAW	SM 2540D 18Ed 04KS
Solids - total volatile suspended solids	940 mg/L		06/06/14 13:00	DAW	SM 2540E 18Ed*
<u>Nutrients - STL</u>					
Ammonia-N	74 mg/L		06/06/14 12:00	ACV	SM(18) 4500 NH3 04KS F

Sample No: **4061092-02**
Sample Description: **Tank 2 Start-Up 6/06**

Collect Date: **06/06/14 09:15**
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<u>General Chemistry - STL</u>					
COD	35000 mg/L		06/06/14 14:01	DAW	SM 5220D 18Ed 04KS
Solids - total suspended solids (TSS)	3600 mg/L		06/06/14 12:00	DAW	SM 2540D 18Ed 04KS
<u>Nutrients - STL</u>					
Ammonia-N	420 mg/L		06/06/14 12:00	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 B409306 - 04-No Prep WC								
Blank (B409306-BLK1)			Prepared & Analyzed: 06/06/14					
Solids - total suspended solids (TSS)	< 2.0	mg/L						
LCS (B409306-BS1)			Prepared & Analyzed: 06/06/14					
Solids - total suspended solids (TSS)	100	mg/L	100.0		100	82.9-110		
Duplicate (B409306-DUP1)			Prepared & Analyzed: 06/06/14					
Solids - total suspended solids (TSS)	1420	mg/L		1420			0	5
Duplicate (B409306-DUP2)			Prepared & Analyzed: 06/06/14					
Solids - total suspended solids (TSS)	3300	mg/L		3280			0.6	5
Batch B409339 - 04-No Prep WC								
Calibration Blank (B409339-CCB1)			Prepared & Analyzed: 06/06/14					
COD	-0.00477	mg/L						
Calibration Blank (B409339-CCB2)			Prepared & Analyzed: 06/06/14					
COD	-5.07	mg/L						
Calibration Check (B409339-CCV1)			Prepared & Analyzed: 06/06/14					
COD	101	mg/L	100.0		101	95-105		
Calibration Check (B409339-CCV2)			Prepared & Analyzed: 06/06/14					
COD	493	mg/L	500.0		99	95-105		
Duplicate (B409339-DUP1)			Prepared & Analyzed: 06/06/14					
COD	< 5.0	mg/L		ND				20
Duplicate (B409339-DUP2)			Prepared & Analyzed: 06/06/14					
COD	35600	mg/L		35000			2	20
Batch B409345 - 04-No Prep WC								
Duplicate (B409345-DUP1)			Prepared & Analyzed: 06/06/14					
Solids - total volatile suspended solids	1060	mg/L		1060			0	5
Duplicate (B409345-DUP2)			Prepared & Analyzed: 06/06/14					
Solids - total volatile suspended solids	960	mg/L		940			2	5

Nutrients - Quality Control

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B409347 - 04-No Prep WC								

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Laboratory Results**Nutrients - Quality Control**

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B409347 - 04-No Prep WC								
Blank (B409347-BLK1)			Prepared & Analyzed: 06/06/14					
Ammonia-N	< 0.10	mg/L						
LCS (B409347-BS1)			Prepared & Analyzed: 06/06/14					
Ammonia-N	10.1	mg/L	10.00		101	80-120		
Matrix Spike (B409347-MS1)			Prepared & Analyzed: 06/06/14					
Ammonia-N	10.1	mg/L	10.00	0.342	98	80-120		
Matrix Spike Dup (B409347-MSD1)			Prepared & Analyzed: 06/06/14					
Ammonia-N	10.2	mg/L	10.00	0.342	99	80-120	1	20

Anions - Quality Control

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B409513 - 04-IC No Prep								
Calibration Blank (B409513-CCB1)			Prepared & Analyzed: 06/07/14					
Nitrate-N	0.00	mg/L						
Nitrite-N	0.00	mg/L						
Calibration Check (B409513-CCV1)			Prepared & Analyzed: 06/07/14					
Nitrate-N	1.24	mg/L				90-110		
Nitrite-N	2.14	mg/L				90-110		
Matrix Spike (B409513-MS1)			Prepared & Analyzed: 06/07/14					
Nitrate-N	12	mg/L	11.30	0.89	101	80-120		
Nitrite-N	15.5	mg/L	25.00	ND	62	80-120		
Matrix Spike Dup (B409513-MSD1)			Prepared & Analyzed: 06/07/14					
Nitrite-N	15.3	mg/L	25.00	ND	61	80-120	2	20
Nitrate-N	12	mg/L	11.30	0.89	101	80-120	0.2	20



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Wastewater Certifications: Arkansas (88-0677); Wisconsin (998284430); Iowa (240); Kansas (E-10335)

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UST Certification; Iowa (240)

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Date Received: 06/09/14 11:08
Report Date: 06/10/14
Customer #: 277310
PO#: 4167739

Laboratory Results

Sample No: **4061255-01**
Sample Description: **Tank 3 Start-Up**

Collect Date: **06/07/14 09:33**
Matrix: **Waste Water Grab**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<u>Anions - STL</u>					
Nitrate-N	0.89 mg/L		06/07/14 12:00	DWM	EPA 300.0 R2.1 04KS
Nitrite-N	< 0.50 mg/L	Q3	06/07/14 12:00	DWM	EPA 300.0 R2.1 04KS
<u>General Chemistry - STL</u>					
COD	2000 mg/L		06/07/14 13:00	DWM	SM 5220D 18Ed 04KS
Solids - total suspended solids (TSS)	2800 mg/L		06/07/14 11:00	DWM	SM 2540D 18Ed 04KS
Solids - total volatile suspended solids	880 mg/L		06/09/14 13:00	DAW	SM 2540E 18Ed*
<u>Nutrients - STL</u>					
Ammonia-N	68 mg/L		06/07/14 11:45	ACV	SM(18) 4500 NH3 F 04KS

Sample No: **4061255-02**
Sample Description: **Tank 2 Start-Up**

Collect Date: **06/07/14 09:36**
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<u>General Chemistry - STL</u>					
COD	21000 mg/L		06/07/14 13:00	DWM	SM 5220D 18Ed 04KS
Solids - total suspended solids (TSS)	3400 mg/L		06/07/14 11:00	DWM	SM 2540D 18Ed 04KS
<u>Nutrients - STL</u>					
Ammonia-N	290 mg/L		06/07/14 11:45	ACV	SM(18) 4500 NH3 F 04KS

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Laboratory Results**General Chemistry - Quality Control**

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B409417 - 04-No Prep WC								
Blank (B409417-BLK1)			Prepared & Analyzed: 06/07/14					
Solids - total suspended solids (TSS)	< 2.0	mg/L						
LCS (B409417-BS1)			Prepared & Analyzed: 06/07/14					
Solids - total suspended solids (TSS)	94.0	mg/L	100.0		94	82.9-110		
Duplicate (B409417-DUP1)			Prepared & Analyzed: 06/07/14					
Solids - total suspended solids (TSS)	3460	mg/L		3440			0.6	5
Batch B409418 - 04-No Prep WC								
Calibration Blank (B409418-CCB1)			Prepared & Analyzed: 06/07/14					
COD	-5.10	mg/L						
Calibration Check (B409418-CCV1)			Prepared & Analyzed: 06/07/14					
COD	482	mg/L	500.0		96	95-105		
Batch B409435 - 04-No Prep WC								
Duplicate (B409435-DUP1)			Prepared & Analyzed: 06/09/14					
Solids - total volatile suspended solids	900	mg/L		880			2	5

Nutrients - Quality Control

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B409437 - 04-No Prep WC								
Calibration Blank (B409437-CCB1)			Prepared & Analyzed: 06/07/14					
Ammonia-N	0.00	mg/L						
Calibration Check (B409437-CCV1)			Prepared & Analyzed: 06/07/14					
Ammonia-N	10.2	mg/L	10.00		102	90-110		
Matrix Spike (B409437-MS1)			Prepared & Analyzed: 06/07/14					
Ammonia-N	393	mg/L	100.0	290	103	80-120		
Matrix Spike Dup (B409437-MSD1)			Prepared & Analyzed: 06/07/14					
Ammonia-N	392	mg/L	100.0	290	102	80-120	0.3	20

Anions - Quality Control

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



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Anions - Quality Control

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B409513 - 04-IC No Prep								
Calibration Blank (B409513-CCB1)			Prepared & Analyzed: 06/07/14					
Nitrate-N	0.00	mg/L						
Nitrite-N	0.00	mg/L						
Calibration Check (B409513-CCV1)			Prepared & Analyzed: 06/07/14					
Nitrate-N	1.24	mg/L				90-110		
Nitrite-N	2.14	mg/L				90-110		
Matrix Spike (B409513-MS1)			Source: 4061255-01		Prepared & Analyzed: 06/07/14			
Nitrate-N	12	mg/L	11.30	0.89	101	80-120		
Nitrite-N	15.5	mg/L	25.00	ND	62	80-120		
Matrix Spike Dup (B409513-MSD1)			Source: 4061255-01		Prepared & Analyzed: 06/07/14			
Nitrite-N	15.3	mg/L	25.00	ND	61	80-120	2	20
Nitrate-N	12	mg/L	11.30	0.89	101	80-120	0.2	20



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Laboratory Results

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Q3 MS/MSD both failed %R

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Laboratory Results

Sample No: **4061256-01**
Sample Description: **Tank 3 Start-Up**

Collect Date: **06/08/14 09:37**
Matrix: **Waste Water Grab**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<u>Anions - STL</u>					
Nitrate-N	0.82 mg/L		06/09/14 16:09	DWM	EPA 300.0 R2.1 04KS
Nitrite-N	< 0.50 mg/L		06/09/14 16:09	DWM	EPA 300.0 R2.1 04KS
<u>General Chemistry - STL</u>					
COD	2200 mg/L		06/09/14 14:19	DAW	SM 5220D 18Ed 04KS
Solids - total suspended solids (TSS)	3100 mg/L		06/09/14 11:45	DAW	SM 2540D 18Ed 04KS
Solids - total volatile suspended solids	880 mg/L		06/09/14 13:00	DAW	SM 2540E 18Ed*
<u>Nutrients - STL</u>					
Ammonia-N	62 mg/L		06/09/14 12:30	ACV	SM(18) 4500 NH3 F 04KS

Sample No: **4061256-02**
Sample Description: **Tank 2 Start-Up**

Collect Date: **06/08/14 09:41**
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<u>General Chemistry - STL</u>					
COD	27000 mg/L		06/09/14 14:19	DAW	SM 5220D 18Ed 04KS
Solids - total suspended solids (TSS)	4000 mg/L		06/09/14 11:45	DAW	SM 2540D 18Ed 04KS
<u>Nutrients - STL</u>					
Ammonia-N	290 mg/L		06/09/14 12:30	ACV	SM(18) 4500 NH3 F 04KS

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Laboratory Results**General Chemistry - Quality Control**

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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Batch B409405 - 04-No Prep WC

Blank (B409405-BLK1)			Prepared & Analyzed: 06/09/14					
Solids - total suspended solids (TSS)	< 2.0	mg/L						
LCS (B409405-BS1)			Prepared & Analyzed: 06/09/14					
Solids - total suspended solids (TSS)	99.0	mg/L	100.0		99	82.9-110		
Duplicate (B409405-DUP1)			Prepared & Analyzed: 06/09/14					
Solids - total suspended solids (TSS)	3020	mg/L		3060			1	5

Batch B409429 - 04-No Prep WC

Calibration Blank (B409429-CCB2)			Prepared & Analyzed: 06/09/14					
COD	-5.10	mg/L						
Calibration Check (B409429-CCV2)			Prepared & Analyzed: 06/09/14					
COD	498	mg/L	500.0		100	95-105		
Duplicate (B409429-DUP2)			Prepared & Analyzed: 06/09/14					
COD	26700	mg/L		26500			0.8	20

Batch B409435 - 04-No Prep WC

Duplicate (B409435-DUP1)			Prepared & Analyzed: 06/09/14					
Solids - total volatile suspended solids	900	mg/L		880			2	5

Nutrients - Quality Control

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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Batch B409436 - 04-No Prep WC

Calibration Blank (B409436-CCB1)			Prepared & Analyzed: 06/09/14					
Ammonia-N	0.00	mg/L						
Calibration Check (B409436-CCV1)			Prepared & Analyzed: 06/09/14					
Ammonia-N	10.1	mg/L	10.00		101	90-110		
Matrix Spike (B409436-MS1)			Prepared & Analyzed: 06/09/14					
Ammonia-N	72.1	mg/L	10.00	62.5	96	80-120		
Matrix Spike Dup (B409436-MSD1)			Prepared & Analyzed: 06/09/14					
Ammonia-N	72.3	mg/L	10.00	62.5	98	80-120	0.3	20



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Laboratory Results

Anions - Quality Control

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B409442 - 04-IC No Prep								
Calibration Blank (B409442-CCB1)			Prepared: 06/09/14 Analyzed: 06/10/14					
Nitrate-N	0.00	mg/L						
Nitrite-N	0.00	mg/L						
Calibration Check (B409442-CCV1)			Prepared: 06/09/14 Analyzed: 06/10/14					
Nitrate-N	1.24	mg/L	1.130		109	90-110		
Nitrite-N	2.16	mg/L	2.000		108	90-110		
Matrix Spike (B409442-MS1)			Source: 4061256-01 Prepared & Analyzed: 06/09/14					
Nitrate-N	13	mg/L	11.30	0.82	109	80-120		
Nitrite-N	27.1	mg/L	25.00	ND	108	80-120		
Matrix Spike Dup (B409442-MSD1)			Source: 4061256-01 Prepared & Analyzed: 06/09/14					
Nitrite-N	28.2	mg/L	25.00	ND	113	80-120	4	20
Nitrate-N	13	mg/L	11.30	0.82	105	80-120	4	20



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

Date Received: 06/09/14 11:20
Report Date: 06/10/14
Customer #: 277310
PO#: 4167739

Laboratory Results

Sample No: **4061259-01**
Sample Description: **Tank 3 Start-Up**

Collect Date: **06/09/14 09:40**
Matrix: **Waste Water Grab**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<u>Anions - STL</u>					
Nitrate-N	0.96 mg/L		06/09/14 16:39	DWM	EPA 300.0 R2.1 04KS
Nitrite-N	< 0.50 mg/L		06/09/14 16:39	DWM	EPA 300.0 R2.1 04KS
<u>General Chemistry - STL</u>					
COD	2000 mg/L		06/09/14 14:20	DAW	SM 5220D 18Ed 04KS
Solids - total suspended solids (TSS)	2100 mg/L		06/09/14 11:45	DAW	SM 2540D 18Ed 04KS
Solids - total volatile suspended solids	600 mg/L		06/09/14 13:00	DAW	SM 2540E 18Ed*
<u>Nutrients - STL</u>					
Ammonia-N	63 mg/L		06/09/14 12:30	ACV	SM(18) 4500 NH3 F 04KS
<u>Soluble Metals - STL</u>					
Zinc	0.17 mg/L		06/10/14 10:10	WPS	EPA 200.7 R4.4 04KS
<u>Soluble Nutrients - STL</u>					
Phosphorus - ortho as P	11 mg/L		06/09/14 13:30	ACV	SM 4500P B E 18ed*
<u>Total Metals - STL</u>					
Zinc	1.1 mg/L		06/10/14 10:09	WPS	EPA 200.7 R4.4 04KS

Sample No: **4061259-02**
Sample Description: **Tank 2 Start-Up**

Collect Date: **06/09/14 09:45**
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<u>General Chemistry - STL</u>					
COD	26000 mg/L		06/09/14 14:20	DAW	SM 5220D 18Ed 04KS
Solids - total suspended solids (TSS)	4400 mg/L		06/09/14 11:45	DAW	SM 2540D 18Ed 04KS
<u>Nutrients - STL</u>					
Ammonia-N	290 mg/L		06/09/14 12:30	ACV	SM(18) 4500 NH3 F 04KS

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Laboratory Results**General Chemistry - Quality Control**

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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Batch B409405 - 04-No Prep WC

Blank (B409405-BLK1)		Prepared & Analyzed: 06/09/14						
Solids - total suspended solids (TSS)	< 2.0	mg/L						
LCS (B409405-BS1)		Prepared & Analyzed: 06/09/14						
Solids - total suspended solids (TSS)	99.0	mg/L	100.0		99	82.9-110		
Duplicate (B409405-DUP1)		Prepared & Analyzed: 06/09/14						
Solids - total suspended solids (TSS)	3020	mg/L		3060			1	5

Batch B409429 - 04-No Prep WC

Calibration Blank (B409429-CCB2)		Prepared & Analyzed: 06/09/14						
COD	-5.10	mg/L						
Calibration Check (B409429-CCV2)		Prepared & Analyzed: 06/09/14						
COD	498	mg/L	500.0		100	95-105		
Duplicate (B409429-DUP2)		Prepared & Analyzed: 06/09/14						
COD	26700	mg/L		26500			0.8	20

Batch B409435 - 04-No Prep WC

Duplicate (B409435-DUP1)		Prepared & Analyzed: 06/09/14						
Solids - total volatile suspended solids	900	mg/L		880			2	5

Nutrients - Quality Control

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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Batch B409436 - 04-No Prep WC

Calibration Blank (B409436-CCB1)		Prepared & Analyzed: 06/09/14						
Ammonia-N	0.00	mg/L						
Calibration Check (B409436-CCV1)		Prepared & Analyzed: 06/09/14						
Ammonia-N	10.1	mg/L	10.00		101	90-110		
Matrix Spike (B409436-MS1)		Prepared & Analyzed: 06/09/14						
Ammonia-N	72.1	mg/L	10.00	62.5	96	80-120		
Matrix Spike Dup (B409436-MSD1)		Prepared & Analyzed: 06/09/14						
Ammonia-N	72.3	mg/L	10.00	62.5	98	80-120	0.3	20

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Laboratory Results**Soluble Nutrients - Quality Control**

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B409444 - 04-No Prep WC								
Calibration Blank (B409444-CCB1)			Prepared & Analyzed: 06/09/14					
Phosphorus - ortho as P	0.00	mg/L						
Calibration Check (B409444-CCV1)			Prepared & Analyzed: 06/09/14					
Phosphorus - ortho as P	0.515	mg/L	0.5000		103	90-110		
Matrix Spike (B409444-MS1)			Prepared & Analyzed: 06/09/14					
Phosphorus - ortho as P	Q1 14.1	mg/L	5.000	11.0	62	80-120		
Matrix Spike Dup (B409444-MSD1)			Prepared & Analyzed: 06/09/14					
Phosphorus - ortho as P	15.9	mg/L	5.000	11.0	98	80-120	12	20

Total Metals - Quality Control

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B409413 - 04 EPA 200.2 R2.8								
Blank (B409413-BLK1)			Prepared: 06/09/14 Analyzed: 06/10/14					
Zinc	< 0.020	mg/L						
LCS (B409413-BS1)			Prepared: 06/09/14 Analyzed: 06/10/14					
Zinc	0.223	mg/L	0.2000		111	85-115		

Soluble Metals - Quality Control

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B409413 - 04 EPA 200.2 R2.8								
Blank (B409413-BLK1)			Prepared: 06/09/14 Analyzed: 06/10/14					
Zinc	< 0.020	mg/L						
LCS (B409413-BS1)			Prepared: 06/09/14 Analyzed: 06/10/14					
Zinc	0.223	mg/L	0.2000		111	85-115		
Matrix Spike (B409413-MS1)			Prepared: 06/09/14 Analyzed: 06/10/14					
Zinc	1.26	mg/L	1.000	0.169	109	70-130		
Matrix Spike Dup (B409413-MSD1)			Prepared: 06/09/14 Analyzed: 06/10/14					
Zinc	1.26	mg/L	1.000	0.169	109	70-130	0.6	20



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Laboratory Results

Anions - Quality Control

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B409442 - 04-IC No Prep								
Calibration Blank (B409442-CCB1)			Prepared: 06/09/14 Analyzed: 06/10/14					
Nitrite-N	0.00	mg/L						
Nitrate-N	0.00	mg/L						
Calibration Check (B409442-CCV1)			Prepared: 06/09/14 Analyzed: 06/10/14					
Nitrate-N	1.24	mg/L	1.130		109	90-110		
Nitrite-N	2.16	mg/L	2.000		108	90-110		
Matrix Spike (B409442-MS1)			Source: 4061256-01 Prepared & Analyzed: 06/09/14					
Nitrite-N	27.1	mg/L	25.00	ND	108	80-120		
Nitrate-N	13	mg/L	11.30	0.82	109	80-120		
Matrix Spike Dup (B409442-MSD1)			Source: 4061256-01 Prepared & Analyzed: 06/09/14					
Nitrate-N	13	mg/L	11.30	0.82	105	80-120	4	20
Nitrite-N	28.2	mg/L	25.00	ND	113	80-120	4	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
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Wastewater Certifications: Arkansas (88-0677); Wisconsin (998284430); Iowa (240); Kansas (E-10335)
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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)

Q1 MS Failed %R

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Date Received: 06/10/14 10:55
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Laboratory Results

Sample No: **4061358-01**
Sample Description: **Tank 3 Start-Up**

Collect Date: **06/10/14 09:05**
Matrix: **Waste Water Grab**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<u>Anions - STL</u>					
Nitrate-N	0.91 mg/L		06/11/14 12:04	DWM	EPA 300.0 R2.1 04KS
Nitrite-N	< 0.50 mg/L		06/11/14 12:04	DWM	EPA 300.0 R2.1 04KS
<u>General Chemistry - STL</u>					
COD	1700 mg/L		06/11/14 07:25	DAW	SM 5220D 18Ed 04KS
Solids - total suspended solids (TSS)	2400 mg/L		06/10/14 11:45	DAW	SM 2540D 18Ed 04KS
Solids - total volatile suspended solids	680 mg/L		06/11/14 08:00	DAW	SM 2540E 18Ed*
<u>Nutrients - STL</u>					
Ammonia-N	70 mg/L		06/11/14 12:30	DAW	SM(18) 4500 NH3 F 04KS

Sample No: **4061358-02**
Sample Description: **Tank 2 Start-Up**

Collect Date: **06/10/14 09:15**
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<u>General Chemistry - STL</u>					
COD	24000 mg/L		06/11/14 07:25	DAW	SM 5220D 18Ed 04KS
Solids - total suspended solids (TSS)	4300 mg/L		06/10/14 11:45	DAW	SM 2540D 18Ed 04KS
<u>Nutrients - STL</u>					
Ammonia-N	310 mg/L		06/11/14 12:30	DAW	SM(18) 4500 NH3 F 04KS

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Laboratory Results**General Chemistry - Quality Control**

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

Batch B409486 - 04-No Prep WC

Blank (B409486-BLK1)		Prepared & Analyzed: 06/10/14						
Solids - total suspended solids (TSS)	< 2.0	mg/L						
LCS (B409486-BS1)		Prepared & Analyzed: 06/10/14						
Solids - total suspended solids (TSS)	103	mg/L	100.0	103	82.9-110			
Duplicate (B409486-DUP1)		Prepared & Analyzed: 06/10/14						
Solids - total suspended solids (TSS)	1560	mg/L		1540			1	5
Duplicate (B409486-DUP2)		Prepared & Analyzed: 06/10/14						
Solids - total suspended solids (TSS)	2320	mg/L		2420			4	5

Batch B409546 - 04-No Prep WC

Calibration Blank (B409546-CCB1)		Prepared: 06/10/14 Analyzed: 06/11/14						
COD	-0.00477	mg/L						
Calibration Blank (B409546-CCB2)		Prepared: 06/10/14 Analyzed: 06/11/14						
COD	-5.07	mg/L						
Calibration Check (B409546-CCV1)		Prepared: 06/10/14 Analyzed: 06/11/14						
COD	101	mg/L	100.0	101	95-105			
Calibration Check (B409546-CCV2)		Prepared: 06/10/14 Analyzed: 06/11/14						
COD	491	mg/L	500.0	98	95-105			
Duplicate (B409546-DUP1)		Prepared: 06/10/14 Analyzed: 06/11/14						
COD	15.9	mg/L		16.4			3	20
Duplicate (B409546-DUP2)		Prepared: 06/10/14 Analyzed: 06/11/14						
COD	23900	mg/L		23700			0.9	20

Batch B409571 - 04-No Prep WC

Duplicate (B409571-DUP1)		Prepared & Analyzed: 06/11/14						
Solids - total volatile suspended solids	680	mg/L		680			0	5

Nutrients - Quality Control

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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Batch B409603 - 04-No Prep WC

Blank (B409603-BLK1)		Prepared & Analyzed: 06/11/14						
Ammonia-N	< 0.10	mg/L						
LCS (B409603-BS1)		Prepared & Analyzed: 06/11/14						



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Nutrients - Quality Control

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B409603 - 04-No Prep WC								
LCS (B409603-BS1)			Prepared & Analyzed: 06/11/14					
Ammonia-N	10.1	mg/L	10.00		101	80-120		
Matrix Spike (B409603-MS1)			Source: 4061673-03 Prepared & Analyzed: 06/11/14					
Ammonia-N	9.98	mg/L	10.00	0.0332	99	80-120		
Matrix Spike Dup (B409603-MSD1)			Source: 4061673-03 Prepared & Analyzed: 06/11/14					
Ammonia-N	9.74	mg/L	10.00	0.0332	97	80-120	2	20

Anions - Quality Control

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B409589 - 04-IC No Prep								
Calibration Blank (B409589-CCB1)			Prepared & Analyzed: 06/11/14					
Nitrate-N	0.00	mg/L						
Nitrite-N	0.00	mg/L						
Calibration Check (B409589-CCV1)			Prepared & Analyzed: 06/11/14					
Nitrate-N	1.23	mg/L	1.130		109	90-110		
Nitrite-N	2.13	mg/L	2.000		107	90-110		



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Laboratory Results

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Date Received: 06/11/14 11:13
Report Date: 06/12/14
Customer #: 277310
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Laboratory Results

Sample No: **4061623-01**
Sample Description: **Tank 3 Start-Up**

Collect Date: **06/11/14 09:14**
Matrix: **Waste Water Grab**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<u>Anions - STL</u>					
Nitrate-N	0.94 mg/L		06/11/14 12:54	DWM	EPA 300.0 R2.1 04KS
Nitrite-N	< 0.50 mg/L		06/11/14 12:54	DWM	EPA 300.0 R2.1 04KS
<u>General Chemistry - STL</u>					
COD	1700 mg/L		06/12/14 07:35	DAW	SM 5220D 18Ed 04KS
Solids - total suspended solids (TSS)	2300 mg/L		06/11/14 11:30	DAW	SM 2540D 18Ed 04KS
Solids - total volatile suspended solids	660 mg/L		06/12/14 07:45	DAW	SM 2540E 18Ed*
<u>Nutrients - STL</u>					
Ammonia-N	64 mg/L		06/11/14 12:30	DAW	SM(18) 4500 NH3 F 04KS

Sample No: **4061623-02**
Sample Description: **Tank 2 Start-Up**

Collect Date: **06/11/14 09:20**
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<u>General Chemistry - STL</u>					
COD	24000 mg/L		06/12/14 07:36	DAW	SM 5220D 18Ed 04KS
Solids - total suspended solids (TSS)	4400 mg/L		06/11/14 11:30	DAW	SM 2540D 18Ed 04KS
<u>Nutrients - STL</u>					
Ammonia-N	320 mg/L		06/11/14 12:30	DAW	SM(18) 4500 NH3 F 04KS

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Laboratory Results**General Chemistry - Quality Control**

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B409577 - 04-No Prep WC								
Blank (B409577-BLK1)			Prepared & Analyzed: 06/11/14					
Solids - total suspended solids (TSS)	< 2.0	mg/L						
LCS (B409577-BS1)			Prepared & Analyzed: 06/11/14					
Solids - total suspended solids (TSS)	97.0	mg/L	100.0		97	82.9-110		
Duplicate (B409577-DUP1)			Prepared & Analyzed: 06/11/14					
Solids - total suspended solids (TSS)	2200	mg/L		2260			3	5
Batch B409623 - 04-No Prep WC								
Calibration Blank (B409623-CCB1)			Prepared: 06/11/14 Analyzed: 06/12/14					
COD	-0.00477	mg/L						
Calibration Blank (B409623-CCB2)			Prepared: 06/11/14 Analyzed: 06/12/14					
COD	-5.07	mg/L						
Calibration Check (B409623-CCV1)			Prepared: 06/11/14 Analyzed: 06/12/14					
COD	101	mg/L	100.0		101	95-105		
Calibration Check (B409623-CCV2)			Prepared: 06/11/14 Analyzed: 06/12/14					
COD	495	mg/L	500.0		99	95-105		
Duplicate (B409623-DUP1)			Prepared: 06/11/14 Analyzed: 06/12/14					
COD	< 5.0	mg/L		ND				20
Duplicate (B409623-DUP2)			Prepared: 06/11/14 Analyzed: 06/12/14					
COD	24200	mg/L		24000			0.9	20
Batch B409651 - 04-No Prep WC								
Duplicate (B409651-DUP1)			Prepared & Analyzed: 06/12/14					
Solids - total volatile suspended solids	680	mg/L		660			3	5

Nutrients - Quality Control

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B409603 - 04-No Prep WC								
Blank (B409603-BLK1)			Prepared & Analyzed: 06/11/14					
Ammonia-N	< 0.10	mg/L						
LCS (B409603-BS1)			Prepared & Analyzed: 06/11/14					
Ammonia-N	10.1	mg/L	10.00		101	80-120		
Matrix Spike (B409603-MS1)			Prepared & Analyzed: 06/11/14					



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Laboratory Results

Nutrients - Quality Control

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B409603 - 04-No Prep WC								
Matrix Spike (B409603-MS1)			Source: 4061673-03		Prepared & Analyzed: 06/11/14			
Ammonia-N	9.98	mg/L	10.00	0.0332	99	80-120		
Matrix Spike Dup (B409603-MSD1)			Source: 4061673-03		Prepared & Analyzed: 06/11/14			
Ammonia-N	9.74	mg/L	10.00	0.0332	97	80-120	2	20

Anions - Quality Control

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B409589 - 04-IC No Prep								
Calibration Blank (B409589-CCB1)			Prepared & Analyzed: 06/11/14					
Nitrite-N	0.00	mg/L						
Nitrate-N	0.00	mg/L						
Calibration Check (B409589-CCV1)			Prepared & Analyzed: 06/11/14					
Nitrate-N	1.23	mg/L	1.130		109	90-110		
Nitrite-N	2.13	mg/L	2.000		107	90-110		



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Laboratory Results

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Wastewater Certifications: Arkansas (88-0677); Wisconsin (998284430); Iowa (240); Kansas (E-10335)

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Laboratory Results

Sample No: **4061844-01**
Sample Description: **Tank 3 Start-Up**

Collect Date: **06/12/14 09:04**
Matrix: **Waste Water Grab**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<u>Anions - STL</u>					
Nitrate-N	17 mg/L		06/13/14 09:04	DWM	EPA 300.0 R2.1 04KS
Nitrite-N	5.0 mg/L		06/13/14 09:04	DWM	EPA 300.0 R2.1 04KS
<u>General Chemistry - STL</u>					
COD	400 mg/L		06/13/14 13:09	DAW	SM 5220D 18Ed 04KS
Solids - total suspended solids (TSS)	2100 mg/L		06/12/14 15:00	DAW	SM 2540D 18Ed 04KS
Solids - total volatile suspended solids	540 mg/L		06/13/14 12:45	DAW	SM 2540E 18Ed*
<u>Nutrients - STL</u>					
Ammonia-N	65 mg/L		06/12/14 12:00	ACV	SM(18) 4500 NH3 F 04KS
<u>Soluble Metals - STL</u>					
Zinc	0.20 mg/L		06/13/14 13:55	WPS	EPA 200.7 R4.4 04KS
<u>Soluble Nutrients - STL</u>					
Phosphorus - ortho as P	0.97 mg/L		06/12/14 16:30	ACV	SM 4500P B E 18ed*
<u>Total Metals - STL</u>					
Zinc	0.93 mg/L		06/13/14 14:00	WPS	EPA 200.7 R4.4 04KS

Sample No: **4061844-02**
Sample Description: **Tank 2 Start-Up**

Collect Date: **06/12/14 08:59**
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<u>General Chemistry - STL</u>					
COD	24000 mg/L		06/13/14 13:09	DAW	SM 5220D 18Ed 04KS
Solids - total suspended solids (TSS)	3500 mg/L		06/12/14 15:00	DAW	SM 2540D 18Ed 04KS
<u>Nutrients - STL</u>					
Ammonia-N	310 mg/L		06/12/14 12:00	ACV	SM(18) 4500 NH3 F 04KS

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Laboratory Results**General Chemistry - Quality Control**

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B409677 - 04-No Prep WC								
Blank (B409677-BLK1)			Prepared & Analyzed: 06/12/14					
Solids - total suspended solids (TSS)	< 2.0	mg/L						
LCS (B409677-BS1)			Prepared & Analyzed: 06/12/14					
Solids - total suspended solids (TSS)	100	mg/L	100.0		100	82.9-110		
Duplicate (B409677-DUP1)			Prepared & Analyzed: 06/12/14					
Solids - total suspended solids (TSS)	2140	mg/L		2140			0	5
Duplicate (B409677-DUP2)			Prepared & Analyzed: 06/12/14					
Solids - total suspended solids (TSS)	1600	mg/L		1660			4	5
Batch B409768 - 04-No Prep WC								
Duplicate (B409768-DUP1)			Prepared & Analyzed: 06/13/14					
Solids - total volatile suspended solids	560	mg/L		540			4	5
Duplicate (B409768-DUP2)			Prepared & Analyzed: 06/13/14					
Solids - total volatile suspended solids	740	mg/L		740			0	5
Batch B409770 - 04-No Prep WC								
Calibration Blank (B409770-CCB2)			Prepared & Analyzed: 06/13/14					
COD	-5.10	mg/L						
Calibration Check (B409770-CCV2)			Prepared & Analyzed: 06/13/14					
COD	500	mg/L	500.0		100	95-105		
Duplicate (B409770-DUP2)			Prepared & Analyzed: 06/13/14					
COD	24200	mg/L		24300			0.4	20

Nutrients - Quality Control

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B409694 - 04-No Prep WC								
Calibration Blank (B409694-CCB1)			Prepared & Analyzed: 06/12/14					
Ammonia-N	0.00	mg/L						
Calibration Check (B409694-CCV1)			Prepared & Analyzed: 06/12/14					
Ammonia-N	10.0	mg/L	10.00		100	90-110		
Matrix Spike (B409694-MS1)			Prepared & Analyzed: 06/12/14					
Ammonia-N	9.92	mg/L	10.00	ND	99	80-120		

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Laboratory Results**Nutrients - Quality Control**

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B409694 - 04-No Prep WC								
Matrix Spike Dup (B409694-MSD1)	Source: 4061904-01		Prepared & Analyzed: 06/12/14					
Ammonia-N	9.86	mg/L	10.00	ND	99	80-120	0.6	20

Soluble Nutrients - Quality Control

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B409787 - 04-No Prep WC								
Calibration Blank (B409787-CCB1)	Prepared & Analyzed: 06/12/14							
Phosphorus - ortho as P	0.00	mg/L						
Calibration Check (B409787-CCV1)	Prepared & Analyzed: 06/12/14							
Phosphorus - ortho as P	0.506	mg/L	0.5000		101	90-110		
Matrix Spike (B409787-MS1)	Source: 4061844-01		Prepared & Analyzed: 06/12/14					
Phosphorus - ortho as P	Q1 1.67	mg/L	0.5000	0.970	140	80-120		
Matrix Spike Dup (B409787-MSD1)	Source: 4061844-01		Prepared & Analyzed: 06/12/14					
Phosphorus - ortho as P	1.55	mg/L	0.5000	0.970	116	80-120	7	20

Total Metals - Quality Control

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B409688 - 04 EPA 200.2 R2.8								
Blank (B409688-BLK1)	Prepared: 06/12/14 Analyzed: 06/13/14							
Zinc	< 0.020	mg/L						
LCS (B409688-BS1)	Prepared: 06/12/14 Analyzed: 06/13/14							
Zinc	0.228	mg/L	0.2000		114	85-115		

Soluble Metals - Quality Control

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B409688 - 04 EPA 200.2 R2.8								
Blank (B409688-BLK1)	Prepared: 06/12/14 Analyzed: 06/13/14							
Zinc	< 0.020	mg/L						
LCS (B409688-BS1)	Prepared: 06/12/14 Analyzed: 06/13/14							
Zinc	0.228	mg/L	0.2000		114	85-115		

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Laboratory Results**Soluble Metals - Quality Control**

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B409688 - 04 EPA 200.2 R2.8								
Matrix Spike (B409688-MS1)	Source: 4061844-01		Prepared: 06/12/14 Analyzed: 06/13/14					
Zinc	1.28	mg/L	1.000	0.203	108	70-130		
Matrix Spike Dup (B409688-MSD1)	Source: 4061844-01		Prepared: 06/12/14 Analyzed: 06/13/14					
Zinc	1.34	mg/L	1.000	0.203	113	70-130	4	20

Anions - Quality Control

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B409743 - 04-IC No Prep								
Calibration Blank (B409743-CCB1)			Prepared & Analyzed: 06/12/14					
Nitrate-N	0.00	mg/L						
Nitrite-N	0.00	mg/L						
Calibration Check (B409743-CCV1)			Prepared & Analyzed: 06/12/14					
Nitrite-N	2.11	mg/L				90-110		
Nitrate-N	1.24	mg/L				90-110		
Matrix Spike (B409743-MS1)	Source: 4060747-03		Prepared & Analyzed: 06/12/14					
Nitrate-N	12	mg/L	11.30	3.6	78	80-120		
Nitrite-N	27.1	mg/L	25.00	2.44	99	80-120		
Matrix Spike Dup (B409743-MSD1)	Source: 4060747-03		Prepared & Analyzed: 06/12/14					
Nitrate-N	12	mg/L	11.30	3.6	77	80-120	0.6	20
Nitrite-N	26.8	mg/L	25.00	2.44	97	80-120	1	20



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Laboratory Results

Sample No: **4062120-01**
Sample Description: **Tank 3 Start-Up**

Collect Date: **06/13/14 09:14**
Matrix: **Waste Water Grab**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<u>Anions - STL</u>					
Nitrate-N	29 mg/L		06/13/14 14:31	DWM	EPA 300.0 R2.1 04KS
Nitrite-N	< 5.0 mg/L		06/13/14 14:31	DWM	EPA 300.0 R2.1 04KS
<u>General Chemistry - STL</u>					
COD	500 mg/L		06/13/14 13:10	DAW	SM 5220D 18Ed 04KS
Solids - total suspended solids (TSS)	2600 mg/L		06/13/14 11:25	DAW	SM 2540D 18Ed 04KS
Solids - total volatile suspended solids	740 mg/L		06/13/14 12:45	DAW	SM 2540E 18Ed*
<u>Nutrients - STL</u>					
Ammonia-N	91 mg/L		06/14/14 09:30	ACV	SM(18) 4500 NH3 04KS F

Sample No: **4062120-02**
Sample Description: **Tank 2 Start-Up**

Collect Date: **06/13/14 09:08**
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<u>General Chemistry - STL</u>					
COD	25000 mg/L		06/13/14 13:10	DAW	SM 5220D 18Ed 04KS
Solids - total suspended solids (TSS)	3400 mg/L		06/13/14 11:25	DAW	SM 2540D 18Ed 04KS
<u>Nutrients - STL</u>					
Ammonia-N	260 mg/L		06/14/14 09:30	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 B409739 - 04-No Prep WC								
Blank (B409739-BLK1)			Prepared & Analyzed: 06/13/14					
Solids - total suspended solids (TSS)	< 2.0	mg/L						
LCS (B409739-BS1)			Prepared & Analyzed: 06/13/14					
Solids - total suspended solids (TSS)	102	mg/L	100.0		102	82.9-110		
Duplicate (B409739-DUP1)			Prepared & Analyzed: 06/13/14					
Solids - total suspended solids (TSS)	4.40	mg/L		4.80			9	5
Duplicate (B409739-DUP2)			Prepared & Analyzed: 06/13/14					
Solids - total suspended solids (TSS)	2520	mg/L		2580			2	5
Batch B409768 - 04-No Prep WC								
Duplicate (B409768-DUP1)			Prepared & Analyzed: 06/13/14					
Solids - total volatile suspended solids	560	mg/L		540			4	5
Duplicate (B409768-DUP2)			Prepared & Analyzed: 06/13/14					
Solids - total volatile suspended solids	740	mg/L		740			0	5
Batch B409770 - 04-No Prep WC								
Calibration Blank (B409770-CCB2)			Prepared & Analyzed: 06/13/14					
COD	-5.10	mg/L						
Calibration Check (B409770-CCV2)			Prepared & Analyzed: 06/13/14					
COD	500	mg/L	500.0		100	95-105		
Duplicate (B409770-DUP2)			Prepared & Analyzed: 06/13/14					
COD	24200	mg/L		24300			0.4	20

Nutrients - Quality Control

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B409825 - 04-No Prep WC								
Calibration Blank (B409825-CCB1)			Prepared & Analyzed: 06/14/14					
Ammonia-N	0.00	mg/L						
Calibration Check (B409825-CCV1)			Prepared & Analyzed: 06/14/14					
Ammonia-N	10.1	mg/L	10.00		101	90-110		
Matrix Spike (B409825-MS1)			Prepared & Analyzed: 06/14/14					
Ammonia-N	9.42	mg/L	10.00	ND	94	80-120		

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Laboratory Results**Nutrients - Quality Control**

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B409825 - 04-No Prep WC								
Matrix Spike Dup (B409825-MSD1)			Source: 4062166-01		Prepared & Analyzed: 06/14/14			
Ammonia-N	9.68	mg/L	10.00	ND	97	80-120	3	20

Anions - Quality Control

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B409868 - 04-IC No Prep								
Calibration Blank (B409868-CCB1)			Prepared & Analyzed: 06/13/14					
Nitrate-N	0.00	mg/L						
Nitrite-N	0.00	mg/L						
Calibration Check (B409868-CCV1)			Prepared & Analyzed: 06/13/14					
Nitrate-N	1.23	mg/L	1.130		109	90-110		
Nitrite-N	2.18	mg/L	2.000		109	90-110		
Matrix Spike (B409868-MS1)			Prepared & Analyzed: 06/13/14					
Nitrate-N	Q3 120	mg/L	113.0	37	78	80-120		
Nitrite-N	Q3 540	mg/L	250.0	ND	216	80-120		
Matrix Spike Dup (B409868-MSD1)			Prepared & Analyzed: 06/13/14					
Nitrite-N	Q3 547	mg/L	250.0	ND	219	80-120	1	20
Nitrate-N	Q3 130	mg/L	113.0	37	79	80-120	0.7	20



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Q3 MS/MSD both failed %R

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Laboratory Results

Sample No: **4062270-01**
Sample Description: **Tank 3 Start-Up**

Collect Date: **06/14/14 09:17**
Matrix: **Waste Water Grab**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<u>Anions - STL</u>					
Nitrate-N	69 mg/L		06/14/14 11:05	DAW	EPA 300.0 R2.1 04KS
Nitrite-N	43 mg/L		06/14/14 11:05	DAW	EPA 300.0 R2.1 04KS
<u>General Chemistry - STL</u>					
COD	1600 mg/L		06/16/14 10:15	DAW	SM 5220D 18Ed 04KS
Solids - total suspended solids (TSS)	2600 mg/L		06/14/14 11:15	DAW	SM 2540D 18Ed 04KS
Solids - total volatile suspended solids	900 mg/L		06/16/14 13:00	DAW	SM 2540E 18Ed*
<u>Nutrients - STL</u>					
Ammonia-N	13 mg/L		06/14/14 09:30	ACV	SM(18) 4500 NH3 F 04KS

Sample No: **4062270-02**
Sample Description: **Tank 2 Start-Up**

Collect Date: **06/14/14 09:26**
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<u>General Chemistry - STL</u>					
COD	23000 mg/L		06/16/14 10:15	DAW	SM 5220D 18Ed 04KS
Solids - total suspended solids (TSS)	2800 mg/L		06/14/14 11:15	DAW	SM 2540D 18Ed 04KS
<u>Nutrients - STL</u>					
Ammonia-N	380 mg/L		06/14/14 09:30	ACV	SM(18) 4500 NH3 F 04KS

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Laboratory Results**General Chemistry - Quality Control**

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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Batch B409792 - 04-No Prep WC

Blank (B409792-BLK1)		Prepared & Analyzed: 06/14/14						
Solids - total suspended solids (TSS)	< 2.0	mg/L						
LCS (B409792-BS1)		Prepared & Analyzed: 06/14/14						
Solids - total suspended solids (TSS)	98.0	mg/L	100.0	98	82.9-110			
Duplicate (B409792-DUP1)		Prepared & Analyzed: 06/14/14						
Solids - total suspended solids (TSS)	2820	mg/L		2740			3	5
Duplicate (B409792-DUP2)		Prepared & Analyzed: 06/14/14						
Solids - total suspended solids (TSS)	2600	mg/L		2560			2	5

Batch B409793 - 04-No Prep WC

Calibration Blank (B409793-CCB1)		Prepared & Analyzed: 06/14/14						
COD	-0.00477	mg/L						
Calibration Blank (B409793-CCB2)		Prepared & Analyzed: 06/14/14						
COD	-5.07	mg/L						
Calibration Check (B409793-CCV1)		Prepared & Analyzed: 06/14/14						
COD	102	mg/L	100.0	102	95-105			
Calibration Check (B409793-CCV2)		Prepared & Analyzed: 06/14/14						
COD	495	mg/L	500.0	99	95-105			
Duplicate (B409793-DUP1)		Prepared & Analyzed: 06/14/14						
COD	18.5	mg/L		18.8			1	20
Duplicate (B409793-DUP2)		Prepared & Analyzed: 06/14/14						
COD	9690	mg/L		9780			0.9	20

Batch B409885 - 04-No Prep WC

Duplicate (B409885-DUP1)		Prepared & Analyzed: 06/16/14						
Solids - total volatile suspended solids	880	mg/L		900			2	5

Nutrients - Quality Control

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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Batch B409825 - 04-No Prep WC

Calibration Blank (B409825-CCB1)		Prepared & Analyzed: 06/14/14						
Ammonia-N	0.00	mg/L						
Calibration Check (B409825-CCV1)		Prepared & Analyzed: 06/14/14						

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 Attn: Bill Abernathy

Date Received: 06/14/14 9:16
 Report Date: 06/16/14
 Customer #: 277310
 PO#: 4167739

Laboratory Results**Nutrients - Quality Control**

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B409825 - 04-No Prep WC								
Calibration Check (B409825-CCV1)			Prepared & Analyzed: 06/14/14					
Ammonia-N	10.1	mg/L	10.00		101	90-110		
Matrix Spike (B409825-MS1)			Source: 4062166-01 Prepared & Analyzed: 06/14/14					
Ammonia-N	9.42	mg/L	10.00	ND	94	80-120		
Matrix Spike Dup (B409825-MSD1)			Source: 4062166-01 Prepared & Analyzed: 06/14/14					
Ammonia-N	9.68	mg/L	10.00	ND	97	80-120	3	20

Anions - Quality Control

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B409868 - 04-IC No Prep								
Calibration Blank (B409868-CCB1)			Prepared & Analyzed: 06/13/14					
Nitrate-N	0.00	mg/L						
Nitrite-N	0.00	mg/L						
Calibration Check (B409868-CCV1)			Prepared & Analyzed: 06/13/14					
Nitrate-N	1.23	mg/L	1.130		109	90-110		
Nitrite-N	2.18	mg/L	2.000		109	90-110		
Matrix Spike (B409868-MS1)			Source: 4060891-02 Prepared & Analyzed: 06/13/14					
Nitrate-N	Q3 120	mg/L	113.0	37	78	80-120		
Nitrite-N	Q3 540	mg/L	250.0	ND	216	80-120		
Matrix Spike Dup (B409868-MSD1)			Source: 4060891-02 Prepared & Analyzed: 06/13/14					
Nitrate-N	Q3 130	mg/L	113.0	37	79	80-120	0.7	20
Nitrite-N	Q3 547	mg/L	250.0	ND	219	80-120	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
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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)
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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)

Q3 MS/MSD both failed %R

Certified by: Roxann Shull, Client Services Supervisor

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Report Date: 06/17/14
Customer #: 277310
PO#: 4167739

Laboratory Results

Sample No: **4062341-01**
Sample Description: **Tank 3 Start-Up**

Collect Date: **06/15/14 09:06**
Matrix: **Waste Water Grab**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<u>Anions - STL</u>					
Nitrate-N	100 mg/L		06/16/14 16:05	BP	EPA 300.0 R2.1 04KS
Nitrite-N	15 mg/L		06/16/14 16:05	BP	EPA 300.0 R2.1 04KS
<u>General Chemistry - STL</u>					
COD	1800 mg/L		06/17/14 08:16	DAW	SM 5220D 18Ed 04KS
Solids - total suspended solids (TSS)	2300 mg/L		06/16/14 14:15	DAW	SM 2540D 18Ed 04KS
Solids - total volatile suspended solids	780 mg/L		06/17/14 08:45	DAW	SM 2540E 18Ed*
<u>Nutrients - STL</u>					
Ammonia-N	0.39 mg/L		06/16/14 12:30	ACV	SM(18) 4500 NH3 04KS F

Sample No: **4062341-02**
Sample Description: **Tank 2 Start-Up**

Collect Date: **06/15/14 09:14**
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<u>General Chemistry - STL</u>					
COD	23000 mg/L		06/17/14 08:17	DAW	SM 5220D 18Ed 04KS
Solids - total suspended solids (TSS)	3100 mg/L		06/16/14 14:15	DAW	SM 2540D 18Ed 04KS
<u>Nutrients - STL</u>					
Ammonia-N	420 mg/L		06/16/14 12:30	ACV	SM(18) 4500 NH3 04KS F

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 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 B409877 - 04-No Prep WC

Blank (B409877-BLK1) Prepared & Analyzed: 06/16/14

Solids - total suspended solids (TSS)	< 2.0	mg/L						
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LCS (B409877-BS1) Prepared & Analyzed: 06/16/14

Solids - total suspended solids (TSS)	99.0	mg/L	100.0		99	82.9-110		
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Duplicate (B409877-DUP1) **Source: 4062267-01** Prepared & Analyzed: 06/16/14

Solids - total suspended solids (TSS)	1640	mg/L		1720			5	5
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Duplicate (B409877-DUP2) **Source: 4062341-01** Prepared & Analyzed: 06/16/14

Solids - total suspended solids (TSS)	2280	mg/L		2260			0.9	5
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Batch B409898 - 04-No Prep WC

Calibration Blank (B409898-CCB1) Prepared: 06/16/14 Analyzed: 06/17/14

COD	-0.300	mg/L						
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Calibration Blank (B409898-CCB2) Prepared: 06/16/14 Analyzed: 06/17/14

COD	-5.10	mg/L						
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Calibration Check (B409898-CCV1) Prepared: 06/16/14 Analyzed: 06/17/14

COD	102	mg/L	100.0		102	95-105		
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Calibration Check (B409898-CCV2) Prepared: 06/16/14 Analyzed: 06/17/14

COD	491	mg/L	500.0		98	95-105		
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Duplicate (B409898-DUP1) **Source: 4062231-01** Prepared: 06/16/14 Analyzed: 06/17/14

COD	< 5.0	mg/L		ND				20
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Duplicate (B409898-DUP2) **Source: 4062342-02** Prepared: 06/16/14 Analyzed: 06/17/14

COD	23600	mg/L		23600			0	20
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Batch B409946 - 04-No Prep WC

Duplicate (B409946-DUP1) **Source: 4062341-01** Prepared & Analyzed: 06/17/14

Solids - total volatile suspended solids	780	mg/L		780			0	5
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Nutrients - Quality Control

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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Laboratory Results**Nutrients - Quality Control**

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B409900 - 04-No Prep WC								
Calibration Blank (B409900-CCB1)			Prepared & Analyzed: 06/16/14					
Ammonia-N	0.00	mg/L						
Calibration Check (B409900-CCV1)			Prepared & Analyzed: 06/16/14					
Ammonia-N	10.1	mg/L	10.00		101	90-110		
Matrix Spike (B409900-MS1)			Prepared & Analyzed: 06/16/14					
Ammonia-N	21.5	mg/L	10.00	11.6	99	80-120		
Matrix Spike Dup (B409900-MSD1)			Prepared & Analyzed: 06/16/14					
Ammonia-N	21.4	mg/L	10.00	11.6	98	80-120	0.5	20

Anions - Quality Control

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B409876 - 04-IC No Prep								
Calibration Blank (B409876-CCB1)			Prepared & Analyzed: 06/16/14					
Nitrite-N	0.00	mg/L						
Nitrate-N	0.380	mg/L						
Calibration Check (B409876-CCV1)			Prepared & Analyzed: 06/16/14					
Nitrite-N	2.18	mg/L	2.000		109	90-110		
Nitrate-N	1.23	mg/L	1.130		109	90-110		
Matrix Spike (B409876-MS1)			Prepared & Analyzed: 06/16/14					
Nitrite-N	Q3 51.1	mg/L	25.00	ND	204	80-120		
Nitrate-N	Q4 130	mg/L	11.30	130	63	80-120		
Matrix Spike Dup (B409876-MSD1)			Prepared & Analyzed: 06/16/14					
Nitrate-N	Q4 130	mg/L	11.30	130	52	80-120	1	20
Nitrite-N	Q3 51.8	mg/L	25.00	ND	207	80-120	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

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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)

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

Certified by: Roxann Shull, Client Services Supervisor

CHAIN OF CUSTODY RECORD

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Attn: Bill Abernathy

Date Received: 06/16/14 14:01
Report Date: 06/17/14
Customer #: 277310
PO#: 4167739

Laboratory Results

Sample No: **4062342-01**
Sample Description: **Tank 3 Start-Up**

Collect Date: **06/16/14 08:20**
Matrix: **Waste Water Grab**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<u>Anions - STL</u>					
Nitrate-N	130 mg/L	Q4	06/16/14 17:12	BP	EPA 300.0 R2.1 04KS
Nitrite-N	< 5.0 mg/L	Q3	06/16/14 16:22	BP	EPA 300.0 R2.1 04KS
<u>General Chemistry - STL</u>					
COD	1700 mg/L		06/17/14 08:17	DAW	SM 5220D 18Ed 04KS
Solids - total suspended solids (TSS)	1800 mg/L		06/16/14 14:15	DAW	SM 2540D 18Ed 04KS
Solids - total volatile suspended solids	640 mg/L		06/17/14 08:45	DAW	SM 2540E 18Ed*
<u>Nutrients - STL</u>					
Ammonia-N	0.38 mg/L		06/16/14 12:30	ACV	SM(18) 4500 NH3 F 04KS
<u>Soluble Metals - STL</u>					
Zinc	0.30 mg/L		06/17/14 10:32	WPS	EPA 200.7 R4.4 04KS
<u>Soluble Nutrients - STL</u>					
Phosphorus - ortho as P	1.5 mg/L		06/16/14 16:30	ACV	SM 4500P B E 18ed* 04KS
<u>Total Metals - STL</u>					
Zinc	1.4 mg/L		06/17/14 10:37	WPS	EPA 200.7 R4.4 04KS

Sample No: **4062342-02**
Sample Description: **Tank 2 Start-Up**

Collect Date: **06/16/14 08:31**
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<u>General Chemistry - STL</u>					
COD	24000 mg/L		06/17/14 08:17	DAW	SM 5220D 18Ed 04KS
Solids - total suspended solids (TSS)	3000 mg/L		06/16/14 14:15	DAW	SM 2540D 18Ed 04KS
<u>Nutrients - STL</u>					
Ammonia-N	370 mg/L		06/16/14 12:30	ACV	SM(18) 4500 NH3 F 04KS

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Laboratory Results**General Chemistry - Quality Control**

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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Batch B409877 - 04-No Prep WC

Blank (B409877-BLK1)		Prepared & Analyzed: 06/16/14						
Solids - total suspended solids (TSS)	< 2.0	mg/L						
LCS (B409877-BS1)		Prepared & Analyzed: 06/16/14						
Solids - total suspended solids (TSS)	99.0	mg/L	100.0	99	82.9-110			
Duplicate (B409877-DUP1)		Prepared & Analyzed: 06/16/14						
Solids - total suspended solids (TSS)	1640	mg/L	1720				5	5
Duplicate (B409877-DUP2)		Prepared & Analyzed: 06/16/14						
Solids - total suspended solids (TSS)	2280	mg/L	2260				0.9	5

Batch B409898 - 04-No Prep WC

Calibration Blank (B409898-CCB1)		Prepared: 06/16/14 Analyzed: 06/17/14						
COD	-0.300	mg/L						
Calibration Blank (B409898-CCB2)		Prepared: 06/16/14 Analyzed: 06/17/14						
COD	-5.10	mg/L						
Calibration Check (B409898-CCV1)		Prepared: 06/16/14 Analyzed: 06/17/14						
COD	102	mg/L	100.0	102	95-105			
Calibration Check (B409898-CCV2)		Prepared: 06/16/14 Analyzed: 06/17/14						
COD	491	mg/L	500.0	98	95-105			
Duplicate (B409898-DUP1)		Prepared: 06/16/14 Analyzed: 06/17/14						
COD	< 5.0	mg/L	ND					20
Duplicate (B409898-DUP2)		Prepared: 06/16/14 Analyzed: 06/17/14						
COD	23600	mg/L	23600				0	20

Batch B409946 - 04-No Prep WC

Duplicate (B409946-DUP1)		Prepared & Analyzed: 06/17/14						
Solids - total volatile suspended solids	780	mg/L	780				0	5

Nutrients - Quality Control

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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Batch B409900 - 04-No Prep WC

Calibration Blank (B409900-CCB1)		Prepared & Analyzed: 06/16/14						
Ammonia-N	0.00	mg/L						
Calibration Check (B409900-CCV1)		Prepared & Analyzed: 06/16/14						

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Laboratory Results**Nutrients - Quality Control**

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B409900 - 04-No Prep WC								
Calibration Check (B409900-CCV1)			Prepared & Analyzed: 06/16/14					
Ammonia-N	10.1	mg/L	10.00		101	90-110		
Matrix Spike (B409900-MS1)			Source: 4062017-01 Prepared & Analyzed: 06/16/14					
Ammonia-N	21.5	mg/L	10.00	11.6	99	80-120		
Matrix Spike Dup (B409900-MSD1)			Source: 4062017-01 Prepared & Analyzed: 06/16/14					
Ammonia-N	21.4	mg/L	10.00	11.6	98	80-120	0.5	20

Soluble Nutrients - Quality Control

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B409935 - 04-No Prep WC								
Blank (B409935-BLK1)			Prepared & Analyzed: 06/16/14					
Phosphorus - ortho as P	< 0.050	mg/L						
LCS (B409935-BS1)			Prepared & Analyzed: 06/16/14					
Phosphorus - ortho as P	0.504	mg/L	0.5000		101	80-120		
Matrix Spike (B409935-MS1)			Source: 4062342-01 Prepared & Analyzed: 06/16/14					
Phosphorus - ortho as P	1.98	mg/L	0.5000	1.49	98	80-120		
Matrix Spike Dup (B409935-MSD1)			Source: 4062342-01 Prepared & Analyzed: 06/16/14					
Phosphorus - ortho as P	1.98	mg/L	0.5000	1.49	98	80-120	0	20

Total Metals - Quality Control

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B409883 - 04 EPA 200.2 R2.8								
Blank (B409883-BLK1)			Prepared: 06/16/14 Analyzed: 06/17/14					
Zinc	< 0.020	mg/L						
LCS (B409883-BS1)			Prepared: 06/16/14 Analyzed: 06/17/14					
Zinc	0.230	mg/L	0.2000		115	85-115		

Soluble Metals - Quality Control

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B409883 - 04 EPA 200.2 R2.8								

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Laboratory Results**Soluble Metals - Quality Control**

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Blank (B409883-BLK1)			Prepared: 06/16/14 Analyzed: 06/17/14					
Zinc	< 0.020	mg/L						
LCS (B409883-BS1)			Prepared: 06/16/14 Analyzed: 06/17/14					
Zinc	0.230	mg/L	0.2000		115	85-115		
Matrix Spike (B409883-MS1)			Prepared: 06/16/14 Analyzed: 06/17/14					
Zinc	1.42	mg/L	1.000	0.301	112	70-130		
Matrix Spike Dup (B409883-MSD1)			Prepared: 06/16/14 Analyzed: 06/17/14					
Zinc	1.41	mg/L	1.000	0.301	111	70-130	0.5	20

Anions - Quality Control

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B409876 - 04-IC No Prep								
Calibration Blank (B409876-CCB1)			Prepared & Analyzed: 06/16/14					
Nitrite-N	0.00	mg/L						
Nitrate-N	0.380	mg/L						
Calibration Check (B409876-CCV1)			Prepared & Analyzed: 06/16/14					
Nitrite-N	2.18	mg/L	2.000		109	90-110		
Nitrate-N	1.23	mg/L	1.130		109	90-110		
Matrix Spike (B409876-MS1)			Prepared & Analyzed: 06/16/14					
Nitrite-N	Q3 51.1	mg/L	25.00	ND	204	80-120		
Nitrate-N	Q4 130	mg/L	11.30	130	63	80-120		
Matrix Spike Dup (B409876-MSD1)			Prepared & Analyzed: 06/16/14					
Nitrite-N	Q3 51.8	mg/L	25.00	ND	207	80-120	1	20
Nitrate-N	Q4 130	mg/L	11.30	130	52	80-120	1	20



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St. Louis, MO 63044
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Date Received: 06/16/14 14:01
Report Date: 06/17/14
Customer #: 277310
PO#: 4167739

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)

- 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

Certified by: Roxann Shull, Client Services Supervisor

CHAIN OF CUSTODY RECORD

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Date Received: 06/17/14 11:36
Report Date: 06/19/14
Customer #: 277310
PO#: 4167739

Laboratory Results

Sample No: **4062481-01**
Sample Description: **Tank 3 Start-Up**

Collect Date: **06/17/14 09:20**
Matrix: **Waste Water Grab**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<u>Anions - STL</u>					
Nitrate-N	140 mg/L		06/18/14 13:52	BP	EPA 300.0 R2.1 04KS
Nitrite-N	< 10 mg/L		06/18/14 13:52	BP	EPA 300.0 R2.1 04KS
<u>General Chemistry - STL</u>					
COD	1600 mg/L		06/17/14 12:00	DWM	SM 5220D 18Ed 04KS
Solids - total suspended solids (TSS)	2600 mg/L		06/17/14 12:15	DAW	SM 2540D 18Ed 04KS
Solids - total volatile suspended solids	900 mg/L	M	06/17/14 12:15	DWM	SM 2540E 18Ed*
<u>Nutrients - STL</u>					
Ammonia-N	0.37 mg/L		06/18/14 12:00	ACV	SM(18) 4500 NH3 F 04KS

Sample No: **4062481-02**
Sample Description: **Tank 2 Start-Up**

Collect Date: **06/17/14 09:24**
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<u>General Chemistry - STL</u>					
COD	23000 mg/L		06/17/14 12:00	DWM	SM 5220D 18Ed 04KS
Solids - total suspended solids (TSS)	2700 mg/L		06/17/14 12:15	DAW	SM 2540D 18Ed 04KS
<u>Nutrients - STL</u>					
Ammonia-N	320 mg/L		06/18/14 12:00	ACV	SM(18) 4500 NH3 F 04KS

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Date Received: 06/17/14 11:36
 Report Date: 06/19/14
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Laboratory Results**General Chemistry - Quality Control**

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B409950 - 04-No Prep WC								
Blank (B409950-BLK1)			Prepared & Analyzed: 06/17/14					
Solids - total suspended solids (TSS)	< 2.0	mg/L						
LCS (B409950-BS1)			Prepared & Analyzed: 06/17/14					
Solids - total suspended solids (TSS)	103	mg/L	100.0	103	82.9-110			
Duplicate (B409950-DUP1)			Prepared & Analyzed: 06/17/14					
Solids - total suspended solids (TSS)	1600	mg/L		1620			1	5
Duplicate (B409950-DUP2)			Prepared & Analyzed: 06/17/14					
Solids - total suspended solids (TSS)	2560	mg/L		2600			2	5
Batch B410035 - 04-No Prep WC								
Blank (B410035-BLK1)			Prepared & Analyzed: 06/17/14					
COD	< 5.0	mg/L						
LCS (B410035-BS1)			Prepared & Analyzed: 06/17/14					
COD	102	mg/L	100.0	102	95-105			
LCS (B410035-BS2)			Prepared & Analyzed: 06/17/14					
COD	484	mg/L	500.0	97	95-105			
Duplicate (B410035-DUP1)			Prepared & Analyzed: 06/17/14					
COD	11.5	mg/L		11.0			4	20
Duplicate (B410035-DUP2)			Prepared & Analyzed: 06/17/14					
COD	23600	mg/L		23400			0.5	20
Batch B410076 - 04-No Prep WC								
Blank (B410076-BLK1)			Prepared & Analyzed: 06/17/14					
Solids - total volatile suspended solids	< 4.0	mg/L						
Duplicate (B410076-DUP1)			Prepared & Analyzed: 06/17/14					
Solids - total volatile suspended solids	M 960	mg/L		900			6	5
Nutrients - Quality Control								
Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B410060 - 04-No Prep WC								
Calibration Blank (B410060-CCB1)			Prepared & Analyzed: 06/18/14					
Ammonia-N	0.00	mg/L						

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Laboratory Results**Nutrients - Quality Control**

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B410060 - 04-No Prep WC								
Calibration Check (B410060-CCV1)			Prepared & Analyzed: 06/18/14					
Ammonia-N	10.1	mg/L	10.00		101	90-110		
Matrix Spike (B410060-MS1)			Prepared & Analyzed: 06/18/14					
Ammonia-N	10.0	mg/L	10.00	0.120	99	80-120		
Matrix Spike Dup (B410060-MSD1)			Prepared & Analyzed: 06/18/14					
Ammonia-N	9.98	mg/L	10.00	0.120	99	80-120	0.2	20

Anions - Quality Control

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B410036 - 04-IC No Prep								
Calibration Blank (B410036-CCB1)			Prepared & Analyzed: 06/18/14					
Nitrate-N	0.00	mg/L						
Nitrite-N	0.00	mg/L						
Calibration Check (B410036-CCV1)			Prepared & Analyzed: 06/18/14					
Nitrate-N	1.22	mg/L	1.130		108	90-110		
Nitrite-N	2.15	mg/L	2.000		108	90-110		
Matrix Spike (B410036-MS1)			Prepared & Analyzed: 06/18/14					
Nitrate-N	Q3 1.4	mg/L	1.130	0.52	75	80-120		
Nitrite-N	Q3 3.28	mg/L	2.500	ND	131	80-120		
Matrix Spike Dup (B410036-MSD1)			Prepared & Analyzed: 06/18/14					
Nitrite-N	Q3 3.27	mg/L	2.500	ND	131	80-120	0.4	20
Nitrate-N	Q3 1.2	mg/L	1.130	0.52	58	80-120	15	20



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STL PDC Laboratories - St. Louis, MO
NELAC Accreditation for Wastewater, Hazardous and Solid Wastes Fields of Testing
Drinking Water Certifications: Kansas (E-10389)

Q3 MS/MSD both failed %R

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

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 BARRY BRIDGETON LF		PROJECT NUMBER		P.O. NUMBER		MEANS SHIPPED	
ADDRESS		PHONE NUMBER		FAX NUMBER		EMAIL ADDRESS	
CITY STATE ZIP		SAMPLER		MATRIX TYPES: WW-WASTEWATER DW-DRINKING WATER GW-GROUND WATER WWSL-SLUDGE NAS-SOLID LCHT-LEACHATE NAL-NON-AQUEOUS SOIL-SOILS			
CONTACT PERSON		SAMPLER'S SIGNATURE					
3 ANALYSIS REQUESTED							
4 (FOR LAB USE ONLY) LOGIN # 4062481 LOGGED BY: HE LAB PROJ. # TEMPLATE: PROJ. MGR.: REMARKS							
2 SAMPLE DESCRIPTION AS YOU WANT ON REPORT		DATE COLLECTED		TIME COLLECTED		SAMPLE TYPE MATRIX Bottle Count	
T3 STARTUP		6/17/14		0920		✓ LCHT 2	
T2 STARTUP		6/17/14		0924		✓ LCHT 2	
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.					
5 NORMAL (8-10 Bus. Days) RUSH (5 Bus. Days) Fastrak™ (3 Bus. Days) 1-2 Bus. Days Same Day DATE DUE 6/18/14		6					
RESULTS BY: E-MAIL FAX PHONE CALL PHONE/FAX# IF DIFFERENT FROM ABOVE							
7 RELINQUISHED BY: (SIGNATURE)		DATE		TIME		RECEIVED BY:	
RELINQUISHED BY: (SIGNATURE)		DATE		TIME		RECEIVED BY:	
RELINQUISHED BY: (SIGNATURE)		DATE		TIME		RECEIVED BY:	
RELINQUISHED BY: (SIGNATURE)		DATE		TIME		RECEIVED BY:	
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							



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Attn: Bill Abernathy

Date Received: 06/18/14 11:08
Report Date: 06/19/14
Customer #: 277310
PO#: 4167739

Laboratory Results

Sample No: **4062664-01**
Sample Description: **Tank 3 Start-Up**

Collect Date: **06/18/14 09:36**
Matrix: **Waste Water Grab**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<u>Anions - STL</u>					
Nitrate-N	150 mg/L		06/18/14 14:09	BP	EPA 300.0 R2.1 04KS
Nitrite-N	< 5.0 mg/L		06/18/14 14:26	BP	EPA 300.0 R2.1 04KS
<u>General Chemistry - STL</u>					
COD	1600 mg/L		06/18/14 14:00	DWM	SM 5220D 18Ed 04KS
Solids - total suspended solids (TSS)	3100 mg/L		06/18/14 14:00	DM	SM 2540D 18Ed 04KS
Solids - total volatile suspended solids	1100 mg/L		06/19/14 08:15	DAW	SM 2540E 18Ed*
<u>Nutrients - STL</u>					
Ammonia-N	0.30 mg/L		06/18/14 12:00	ACV	SM(18) 4500 NH3 F 04KS

Sample No: **4062664-02**
Sample Description: **Tank 2 Start-Up**

Collect Date: **06/18/14 09:40**
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<u>General Chemistry - STL</u>					
COD	21000 mg/L		06/18/14 14:00	DWM	SM 5220D 18Ed 04KS
Solids - total suspended solids (TSS)	2100 mg/L		06/18/14 14:00	DM	SM 2540D 18Ed 04KS
<u>Nutrients - STL</u>					
Ammonia-N	330 mg/L		06/18/14 12:00	ACV	SM(18) 4500 NH3 F 04KS

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 Report Date: 06/19/14
 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 B410056 - 04-No Prep WC

Blank (B410056-BLK1)		Prepared & Analyzed: 06/18/14						
Solids - total suspended solids (TSS)	< 2.0	mg/L						
LCS (B410056-BS1)		Prepared & Analyzed: 06/18/14						
Solids - total suspended solids (TSS)	98.0	mg/L	100.0	98	82.9-110			
Duplicate (B410056-DUP1)		Prepared & Analyzed: 06/18/14						
Solids - total suspended solids (TSS)	3120	mg/L		3140			0.6	5

Batch B410090 - 04-No Prep WC

Calibration Blank (B410090-CCB1)		Prepared & Analyzed: 06/18/14						
COD	-5.10	mg/L						
Calibration Check (B410090-CCV1)		Prepared & Analyzed: 06/18/14						
COD	484	mg/L	500.0	97	95-105			
Duplicate (B410090-DUP1)		Prepared & Analyzed: 06/18/14						
COD	1620	mg/L		1620			0.5	20

Batch B410097 - 04-No Prep WC

Duplicate (B410097-DUP1)		Prepared & Analyzed: 06/19/14						
Solids - total volatile suspended solids	1120	mg/L		1120			0	5

Nutrients - Quality Control

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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Batch B410060 - 04-No Prep WC

Calibration Blank (B410060-CCB1)		Prepared & Analyzed: 06/18/14						
Ammonia-N	0.00	mg/L						
Calibration Check (B410060-CCV1)		Prepared & Analyzed: 06/18/14						
Ammonia-N	10.1	mg/L	10.00	101	90-110			
Matrix Spike (B410060-MS1)		Prepared & Analyzed: 06/18/14						
Ammonia-N	10.0	mg/L	10.00	0.120	99	80-120		
Matrix Spike Dup (B410060-MSD1)		Prepared & Analyzed: 06/18/14						
Ammonia-N	9.98	mg/L	10.00	0.120	99	80-120	0.2	20



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Laboratory Results

Anions - Quality Control

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B410036 - 04-IC No Prep								
Calibration Blank (B410036-CCB1)			Prepared & Analyzed: 06/18/14					
Nitrite-N	0.00	mg/L						
Nitrate-N	0.00	mg/L						
Calibration Check (B410036-CCV1)			Prepared & Analyzed: 06/18/14					
Nitrite-N	2.15	mg/L	2.000		108	90-110		
Nitrate-N	1.22	mg/L	1.130		108	90-110		
Matrix Spike (B410036-MS1)			Source: 4061209-01		Prepared & Analyzed: 06/18/14			
Nitrate-N	Q3 1.4	mg/L	1.130	0.52	75	80-120		
Nitrite-N	Q3 3.28	mg/L	2.500	ND	131	80-120		
Matrix Spike Dup (B410036-MSD1)			Source: 4061209-01		Prepared & Analyzed: 06/18/14			
Nitrite-N	Q3 3.27	mg/L	2.500	ND	131	80-120	0.4	20
Nitrate-N	Q3 1.2	mg/L	1.130	0.52	58	80-120	15	20



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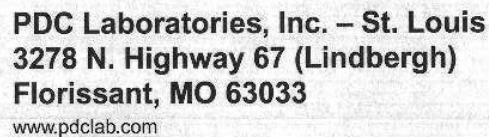
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UST Certification; Iowa (240)
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EPA DMR-QA Program
STL PDC Laboratories - St. Louis, MO
TNI Accreditation for Wastewater, Hazardous and Solid Wastes Fields of Testing through KS Lab No. E-10389
Illinois Department of Public Health Bacteriological Analysis in Drinking Water Approved Laboratory Registry No. 171050
Drinking Water Certifications: Missouri (1050)
Missouri Department of Natural Resources

Q3 MS/MSD both failed %R

Certified by: Roxann Shull, Client Services Supervisor



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State where samples collected MO

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Attn: Bill Abernathy

Date Received: 06/19/14 11:46
Report Date: 06/20/14
Customer #: 277310
PO#: 4167739

Laboratory Results

Sample No: **4062894-01**
Sample Description: **Tank 3 Start-Up**

Collect Date: **06/19/14 09:15**
Matrix: **Waste Water Grab**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<u>Anions - STL</u>					
Nitrate-N	160 mg/L		06/19/14 17:35	DWM	EPA 300.0 R2.1 04KS
Nitrite-N	< 50 mg/L		06/19/14 17:35	DWM	EPA 300.0 R2.1 04KS
<u>General Chemistry - STL</u>					
COD	2200 mg/L		06/20/14 13:44	DAW	SM 5220D 18Ed 04KS
Solids - total suspended solids (TSS)	2900 mg/L		06/19/14 16:30	DAW	SM 2540D 18Ed 04KS
Solids - total volatile suspended solids	1100 mg/L		06/20/14 13:30	DAW	SM 2540E 18Ed*
<u>Nutrients - STL</u>					
Ammonia-N	1.5 mg/L		06/20/14 10:30	ACV	SM(18) 4500 NH3 F 04KS
<u>Soluble Metals - STL</u>					
Zinc	0.19 mg/L		06/20/14 12:06	WPS	EPA 200.7 R4.4 04KS
<u>Soluble Nutrients - STL</u>					
Phosphorus - ortho as P	2.2 mg/L		06/19/14 14:00	ACV	SM 4500P B E 18ed*
<u>Total Metals - STL</u>					
Zinc	1.3 mg/L		06/20/14 12:00	WPS	EPA 200.7 R4.4 04KS

Sample No: **4062894-02**
Sample Description: **Tank 2 Start-Up**

Collect Date: **06/19/14 09:20**
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<u>General Chemistry - STL</u>					
COD	25000 mg/L		06/20/14 13:44	DAW	SM 5220D 18Ed 04KS
Solids - total suspended solids (TSS)	2100 mg/L		06/19/14 16:30	DAW	SM 2540D 18Ed 04KS
<u>Nutrients - STL</u>					
Ammonia-N	280 mg/L		06/20/14 10:30	ACV	SM(18) 4500 NH3 F 04KS

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 PO#: 4167739

Laboratory Results**General Chemistry - Quality Control**

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B410150 - 04-No Prep WC								
Blank (B410150-BLK1)			Prepared & Analyzed: 06/19/14					
Solids - total suspended solids (TSS)	< 2.0	mg/L						
LCS (B410150-BS1)			Prepared & Analyzed: 06/19/14					
Solids - total suspended solids (TSS)	103	mg/L	100.0	103	82.9-110			
Duplicate (B410150-DUP1)			Prepared & Analyzed: 06/19/14					
Solids - total suspended solids (TSS)	2.00	mg/L	2.40				18	5
Duplicate (B410150-DUP2)			Prepared & Analyzed: 06/19/14					
Solids - total suspended solids (TSS)	2900	mg/L	2920				0.7	5
Batch B410217 - 04-No Prep WC								
Calibration Blank (B410217-CCB1)			Prepared & Analyzed: 06/20/14					
COD	-0.266	mg/L						
Calibration Blank (B410217-CCB2)			Prepared & Analyzed: 06/20/14					
COD	-5.07	mg/L						
Calibration Check (B410217-CCV1)			Prepared & Analyzed: 06/20/14					
COD	99.2	mg/L	100.0	99	95-105			
Calibration Check (B410217-CCV2)			Prepared & Analyzed: 06/20/14					
COD	500	mg/L	500.0	100	95-105			
Duplicate (B410217-DUP1)			Prepared & Analyzed: 06/20/14					
COD	13.8	mg/L	14.1				2	20
Duplicate (B410217-DUP2)			Prepared & Analyzed: 06/20/14					
COD	24900	mg/L	24700				0.9	20
Batch B410228 - 04-No Prep WC								
Duplicate (B410228-DUP1)			Prepared & Analyzed: 06/20/14					
Solids - total volatile suspended solids	1060	mg/L	1080				2	5
Duplicate (B410228-DUP2)			Prepared & Analyzed: 06/20/14					
Solids - total volatile suspended solids	1120	mg/L	1120				0	5

Nutrients - Quality Control

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B410234 - 04-No Prep WC								

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Laboratory Results**Nutrients - Quality Control**

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B410234 - 04-No Prep WC								
Calibration Blank (B410234-CCB1)			Prepared & Analyzed: 06/20/14					
Ammonia-N	0.00	mg/L						
Calibration Blank (B410234-CCB2)			Prepared & Analyzed: 06/20/14					
Ammonia-N	0.00	mg/L						
Calibration Check (B410234-CCV1)			Prepared & Analyzed: 06/20/14					
Ammonia-N	10.2	mg/L	10.00		102	90-110		
Calibration Check (B410234-CCV2)			Prepared & Analyzed: 06/20/14					
Ammonia-N	9.96	mg/L	10.00		100	90-110		
Matrix Spike (B410234-MS1)			Source: 4062915-01 Prepared & Analyzed: 06/20/14					
Ammonia-N	26.8	mg/L	10.00	17.0	98	80-120		
Matrix Spike Dup (B410234-MSD1)			Source: 4062915-01 Prepared & Analyzed: 06/20/14					
Ammonia-N	26.9	mg/L	10.00	17.0	99	80-120	0.4	20

Soluble Nutrients - Quality Control

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B410199 - 04-No Prep WC								
Calibration Blank (B410199-CCB1)			Prepared & Analyzed: 06/19/14					
Phosphorus - ortho as P	0.00	mg/L						
Calibration Check (B410199-CCV1)			Prepared & Analyzed: 06/19/14					
Phosphorus - ortho as P	0.497	mg/L	0.5000		99	90-110		
Matrix Spike (B410199-MS1)			Source: 4062894-01 Prepared & Analyzed: 06/19/14					
Phosphorus - ortho as P	2.61	mg/L	0.5000	2.17	88	80-120		
Matrix Spike Dup (B410199-MSD1)			Source: 4062894-01 Prepared & Analyzed: 06/19/14					
Phosphorus - ortho as P	2.71	mg/L	0.5000	2.17	108	80-120	4	20

Total Metals - Quality Control

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B410151 - 04 EPA 200.2 R2.8								
Blank (B410151-BLK1)			Prepared: 06/19/14 Analyzed: 06/20/14					
Zinc	< 0.020	mg/L						
LCS (B410151-BS1)			Prepared: 06/19/14 Analyzed: 06/20/14					

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Laboratory Results**Total Metals - Quality Control**

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B410151 - 04 EPA 200.2 R2.8								
LCS (B410151-BS1)			Prepared: 06/19/14 Analyzed: 06/20/14					
Zinc	0.226	mg/L	0.2000		113	85-115		
Matrix Spike (B410151-MS1)			Source: 4062894-01 Prepared: 06/19/14 Analyzed: 06/20/14					
Zinc	2.45	mg/L	1.000	1.35	111	70-130		
Matrix Spike Dup (B410151-MSD1)			Source: 4062894-01 Prepared: 06/19/14 Analyzed: 06/20/14					
Zinc	2.42	mg/L	1.000	1.35	108	70-130	1	20

Soluble Metals - Quality Control

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B410151 - 04 EPA 200.2 R2.8								
Blank (B410151-BLK1)			Prepared: 06/19/14 Analyzed: 06/20/14					
Zinc	< 0.020	mg/L						
LCS (B410151-BS1)			Prepared: 06/19/14 Analyzed: 06/20/14					
Zinc	0.226	mg/L	0.2000		113	85-115		

Anions - Quality Control

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B410186 - 04-IC No Prep								
Calibration Blank (B410186-CCB1)			Prepared & Analyzed: 06/19/14					
Nitrite-N	0.00	mg/L						
Nitrate-N	0.00	mg/L						
Calibration Check (B410186-CCV1)			Prepared & Analyzed: 06/19/14					
Nitrite-N	2.19	mg/L	2.000		110	90-110		
Nitrate-N	1.24	mg/L	1.130		110	90-110		
Matrix Spike (B410186-MS1)			Source: 4061697-01 Prepared & Analyzed: 06/19/14					
Nitrate-N	Q1 5.7	mg/L	1.130	5.0	64	80-120		
Nitrite-N	2.68	mg/L	2.500	0.204	99	80-120		
Matrix Spike Dup (B410186-MSD1)			Source: 4061697-01 Prepared & Analyzed: 06/19/14					
Nitrate-N	Q2 5.9	mg/L	1.130	5.0	79	80-120	3	20
Nitrite-N	2.68	mg/L	2.500	0.204	99	80-120	0.07	20



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Laboratory Results

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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

Illinois Department of Public Health Bacteriological Analysis in Drinking Water Approved Laboratory Registry No. 171050

Drinking Water Certifications: Missouri (1050)

Missouri Department of Natural Resources

Q2 MSD failed %R

Q1 MS Failed %R

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Laboratory Results

Sample No: **4063106-01**
Sample Description: **Tank 3 Start-Up**

Collect Date: **06/20/14 09:15**
Matrix: **Waste Water Grab**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<u>Anions - STL</u>					
Nitrate-N	170 mg/L		06/21/14 13:19	DWM	EPA 300.0 R2.1 04KS
Nitrite-N	< 25 mg/L		06/21/14 13:19	DWM	EPA 300.0 R2.1 04KS
<u>General Chemistry - STL</u>					
COD	2100 mg/L		06/20/14 13:44	DAW	SM 5220D 18Ed 04KS
Solids - total suspended solids (TSS)	2900 mg/L		06/20/14 11:50	DAW	SM 2540D 18Ed 04KS
Solids - total volatile suspended solids	1100 mg/L		06/20/14 13:30	DAW	SM 2540E 18Ed*
<u>Nutrients - STL</u>					
Ammonia-N	0.34 mg/L		06/20/14 14:36	ACV	SM(18) 4500 NH3 F 04KS

Sample No: **4063106-02**
Sample Description: **Tank 2 Start-Up**

Collect Date: **06/20/14 09:20**
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<u>General Chemistry - STL</u>					
COD	32000 mg/L		06/20/14 13:44	DAW	SM 5220D 18Ed 04KS
Solids - total suspended solids (TSS)	10000 mg/L		06/20/14 11:50	DAW	SM 2540D 18Ed 04KS
<u>Nutrients - STL</u>					
Ammonia-N	300 mg/L		06/20/14 14:36	ACV	SM(18) 4500 NH3 F 04KS

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Laboratory Results**General Chemistry - Quality Control**

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B410208 - 04-No Prep WC								
Blank (B410208-BLK1)			Prepared & Analyzed: 06/20/14					
Solids - total suspended solids (TSS)	< 2.0	mg/L						
LCS (B410208-BS1)			Prepared & Analyzed: 06/20/14					
Solids - total suspended solids (TSS)	99.0	mg/L	100.0		99	82.9-110		
Duplicate (B410208-DUP1)			Prepared & Analyzed: 06/20/14					
Solids - total suspended solids (TSS)	3540	mg/L		3500			1	5
Duplicate (B410208-DUP2)			Prepared & Analyzed: 06/20/14					
Solids - total suspended solids (TSS)	2860	mg/L		2900			1	5
Batch B410217 - 04-No Prep WC								
Calibration Blank (B410217-CCB1)			Prepared & Analyzed: 06/20/14					
COD	-0.266	mg/L						
Calibration Blank (B410217-CCB2)			Prepared & Analyzed: 06/20/14					
COD	-5.07	mg/L						
Calibration Check (B410217-CCV1)			Prepared & Analyzed: 06/20/14					
COD	99.2	mg/L	100.0		99	95-105		
Calibration Check (B410217-CCV2)			Prepared & Analyzed: 06/20/14					
COD	500	mg/L	500.0		100	95-105		
Duplicate (B410217-DUP1)			Prepared & Analyzed: 06/20/14					
COD	13.8	mg/L		14.1			2	20
Duplicate (B410217-DUP2)			Prepared & Analyzed: 06/20/14					
COD	24900	mg/L		24700			0.9	20
Batch B410228 - 04-No Prep WC								
Duplicate (B410228-DUP1)			Prepared & Analyzed: 06/20/14					
Solids - total volatile suspended solids	1060	mg/L		1080			2	5
Duplicate (B410228-DUP2)			Prepared & Analyzed: 06/20/14					
Solids - total volatile suspended solids	1120	mg/L		1120			0	5

Nutrients - Quality Control

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B410234 - 04-No Prep WC								

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Laboratory Results**Nutrients - Quality Control**

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B410234 - 04-No Prep WC								
Calibration Blank (B410234-CCB1)			Prepared & Analyzed: 06/20/14					
Ammonia-N	0.00	mg/L						
Calibration Blank (B410234-CCB2)			Prepared & Analyzed: 06/20/14					
Ammonia-N	0.00	mg/L						
Calibration Check (B410234-CCV1)			Prepared & Analyzed: 06/20/14					
Ammonia-N	10.2	mg/L	10.00		102	90-110		
Calibration Check (B410234-CCV2)			Prepared & Analyzed: 06/20/14					
Ammonia-N	9.96	mg/L	10.00		100	90-110		
Matrix Spike (B410234-MS1)			Source: 4062915-01 Prepared & Analyzed: 06/20/14					
Ammonia-N	26.8	mg/L	10.00	17.0	98	80-120		
Matrix Spike (B410234-MS2)			Source: 4063047-01 Prepared & Analyzed: 06/20/14					
Ammonia-N	9.80	mg/L	10.00	ND	98	80-120		
Matrix Spike Dup (B410234-MSD1)			Source: 4062915-01 Prepared & Analyzed: 06/20/14					
Ammonia-N	26.9	mg/L	10.00	17.0	99	80-120	0.4	20
Matrix Spike Dup (B410234-MSD2)			Source: 4063047-01 Prepared & Analyzed: 06/20/14					
Ammonia-N	9.86	mg/L	10.00	ND	99	80-120	0.6	20

Anions - Quality Control

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B410268 - 04-IC No Prep								
Calibration Blank (B410268-CCB1)			Prepared & Analyzed: 06/21/14					
Nitrate-N	0.00	mg/L						
Nitrite-N	0.00	mg/L						
Calibration Check (B410268-CCV1)			Prepared & Analyzed: 06/21/14					
Nitrate-N	1.22	mg/L	1.130		108	90-110		
Nitrite-N	2.14	mg/L	2.000		107	90-110		
Matrix Spike (B410268-MS1)			Source: 4063187-01 Prepared & Analyzed: 06/21/14					
Nitrate-N	260	mg/L	56.48	200	98	80-120		
Nitrite-N	100	mg/L	125.0	ND	80	80-120		
Matrix Spike Dup (B410268-MSD1)			Source: 4063187-01 Prepared & Analyzed: 06/21/14					
Nitrite-N	102	mg/L	125.0	ND	82	80-120	2	20
Nitrate-N	Q2 270	mg/L	56.48	200	130	80-120	7	20



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Laboratory Results

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TNI Accreditation for Wastewater, Hazardous and Solid Wastes Fields of Testing through KS Lab No. E-10389

Illinois Department of Public Health Bacteriological Analysis in Drinking Water Approved Laboratory Registry

No. 171050

Drinking Water Certifications: Missouri (1050)

Missouri Department of Natural Resources

Q2 MSD failed %R

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Laboratory Results

Sample No: **4063187-01**
Sample Description: **Tank 3 Start-Up**

Collect Date: **06/21/14 09:10**
Matrix: **Waste Water Grab**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<u>Anions - STL</u>					
Nitrate-N	200 mg/L	Q2	06/21/14 13:35	DWM	EPA 300.0 R2.1 04KS
Nitrite-N	< 25 mg/L		06/21/14 13:35	DWM	EPA 300.0 R2.1 04KS
<u>General Chemistry - STL</u>					
COD	2400 mg/L		06/21/14 13:30	DWM	SM 5220D 18Ed 04KS
Solids - total suspended solids (TSS)	2900 mg/L		06/21/14 11:15	DWM	SM 2540D 18Ed 04KS
Solids - total volatile suspended solids	1100 mg/L		06/23/14 13:15	DAW	SM 2540E 18Ed*
<u>Nutrients - STL</u>					
Ammonia-N	0.22 mg/L		06/21/14 12:00	DWM	SM(18) 4500 NH3 F 04KS

Sample No: **4063187-02**
Sample Description: **Tank 2 Start-Up**

Collect Date: **06/21/14 09:20**
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<u>General Chemistry - STL</u>					
COD	23000 mg/L		06/21/14 13:30	DWM	SM 5220D 18Ed 04KS
Solids - total suspended solids (TSS)	520 mg/L		06/21/14 11:15	DWM	SM 2540D 18Ed 04KS
<u>Nutrients - STL</u>					
Ammonia-N	290 mg/L		06/21/14 12:00	DWM	SM(18) 4500 NH3 F 04KS

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Laboratory Results**General Chemistry - Quality Control**

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B410279 - 04-No Prep WC								
Blank (B410279-BLK1)			Prepared & Analyzed: 06/21/14					
Solids - total suspended solids (TSS)	< 2.0	mg/L						
LCS (B410279-BS1)			Prepared & Analyzed: 06/21/14					
Solids - total suspended solids (TSS)	85.0	mg/L	100.0		85	82.9-110		
Duplicate (B410279-DUP1)			Prepared & Analyzed: 06/21/14					
Solids - total suspended solids (TSS)	2840	mg/L		2860			0.7	5
Batch B410280 - 04-No Prep WC								
Calibration Blank (B410280-CCB1)			Prepared & Analyzed: 06/21/14					
COD	-5.10	mg/L						
Calibration Check (B410280-CCV1)			Prepared & Analyzed: 06/21/14					
COD	482	mg/L	500.0		96	95-105		
Batch B410321 - 04-No Prep WC								
Duplicate (B410321-DUP1)			Prepared & Analyzed: 06/23/14					
Solids - total volatile suspended solids	1140	mg/L		1140			0	5

Nutrients - Quality Control

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B410334 - 04-No Prep WC								
Blank (B410334-BLK1)			Prepared & Analyzed: 06/21/14					
Ammonia-N	< 0.10	mg/L						
LCS (B410334-BS1)			Prepared & Analyzed: 06/21/14					
Ammonia-N	10.3	mg/L	10.00		103	80-120		
Matrix Spike (B410334-MS1)			Prepared & Analyzed: 06/21/14					
Ammonia-N	398	mg/L	100.0	288	110	80-120		
Matrix Spike Dup (B410334-MSD1)			Prepared & Analyzed: 06/21/14					
Ammonia-N	395	mg/L	100.0	288	107	80-120	0.8	20

Anions - Quality Control

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

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Laboratory Results**Anions - Quality Control**

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B410268 - 04-IC No Prep								
Calibration Blank (B410268-CCB1)			Prepared & Analyzed: 06/21/14					
Nitrate-N	0.00	mg/L						
Nitrite-N	0.00	mg/L						
Calibration Check (B410268-CCV1)			Prepared & Analyzed: 06/21/14					
Nitrate-N	1.22	mg/L	1.130		108	90-110		
Nitrite-N	2.14	mg/L	2.000		107	90-110		
Matrix Spike (B410268-MS1)			Source: 4063187-01 Prepared & Analyzed: 06/21/14					
Nitrate-N	260	mg/L	56.48	200	98	80-120		
Nitrite-N	100	mg/L	125.0	ND	80	80-120		
Matrix Spike Dup (B410268-MSD1)			Source: 4063187-01 Prepared & Analyzed: 06/21/14					
Nitrate-N	Q2 270	mg/L	56.48	200	130	80-120	7	20
Nitrite-N	102	mg/L	125.0	ND	82	80-120	2	20



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Laboratory Results

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Wastewater Certifications: Arkansas (88-0677); Wisconsin (998284430); Iowa (240); Kansas (E-10335)

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Missouri Department of Natural Resources

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Laboratory Results

Sample No: **4063221-01**
Sample Description: **Tank 3 Start-Up**

Collect Date: **06/22/14 09:10**
Matrix: **Waste Water Grab**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<u>Anions - STL</u>					
Nitrate-N	200 mg/L		06/23/14 13:55	DWM	EPA 300.0 R2.1 04KS
Nitrite-N	< 25 mg/L		06/23/14 13:55	DWM	EPA 300.0 R2.1 04KS
<u>General Chemistry - STL</u>					
COD	1900 mg/L		06/23/14 13:31	DAW	SM 5220D 18Ed 04KS
Solids - total suspended solids (TSS)	2600 mg/L		06/23/14 11:50	DAW	SM 2540D 18Ed 04KS
Solids - total volatile suspended solids	1000 mg/L		06/23/14 13:15	DAW	SM 2540E 18Ed*
<u>Nutrients - STL</u>					
Ammonia-N	0.30 mg/L		06/23/14 12:00	ACV	SM(18) 4500 NH3 04KS F

Sample No: **4063221-02**
Sample Description: **Tank 2 Start-Up**

Collect Date: **06/22/14 09:06**
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<u>General Chemistry - STL</u>					
COD	23000 mg/L		06/23/14 13:31	DAW	SM 5220D 18Ed 04KS
Solids - total suspended solids (TSS)	490 mg/L		06/23/14 11:50	DAW	SM 2540D 18Ed 04KS
<u>Nutrients - STL</u>					
Ammonia-N	340 mg/L		06/23/14 12:00	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 B410285 - 04-No Prep WC

Blank (B410285-BLK1)		Prepared & Analyzed: 06/23/14						
Solids - total suspended solids (TSS)	< 2.0	mg/L						
LCS (B410285-BS1)		Prepared & Analyzed: 06/23/14						
Solids - total suspended solids (TSS)	100	mg/L	100.0	100	82.9-110			
Duplicate (B410285-DUP1)		Prepared & Analyzed: 06/23/14						
Solids - total suspended solids (TSS)	1640	mg/L		1620			1	5
Duplicate (B410285-DUP2)		Prepared & Analyzed: 06/23/14						
Solids - total suspended solids (TSS)	2640	mg/L		2620			0.8	5

Batch B410316 - 04-No Prep WC

Calibration Blank (B410316-CCB1)		Prepared & Analyzed: 06/23/14						
COD	-0.266	mg/L						
Calibration Blank (B410316-CCB2)		Prepared & Analyzed: 06/23/14						
COD	-5.07	mg/L						
Calibration Check (B410316-CCV1)		Prepared & Analyzed: 06/23/14						
COD	97.9	mg/L	100.0	98	95-105			
Calibration Check (B410316-CCV2)		Prepared & Analyzed: 06/23/14						
COD	487	mg/L	500.0	97	95-105			
Duplicate (B410316-DUP1)		Prepared & Analyzed: 06/23/14						
COD	11.7	mg/L		11.5			2	20
Duplicate (B410316-DUP2)		Prepared & Analyzed: 06/23/14						
COD	23000	mg/L		23100			0.5	20

Batch B410321 - 04-No Prep WC

Duplicate (B410321-DUP1)		Prepared & Analyzed: 06/23/14						
Solids - total volatile suspended solids	1140	mg/L		1140			0	5

Nutrients - Quality Control

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

Batch B410335 - 04-No Prep WC

Calibration Blank (B410335-CCB1)		Prepared & Analyzed: 06/23/14						
Ammonia-N	0.00	mg/L						
Calibration Check (B410335-CCV1)		Prepared & Analyzed: 06/23/14						



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Nutrients - Quality Control

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B410335 - 04-No Prep WC								
Calibration Check (B410335-CCV1)			Prepared & Analyzed: 06/23/14					
Ammonia-N	9.98	mg/L	10.00		100	90-110		
Matrix Spike (B410335-MS1)			Source: 4063044-03 Prepared & Analyzed: 06/23/14					
Ammonia-N	9.86	mg/L	10.00	ND	99	80-120		
Matrix Spike Dup (B410335-MSD1)			Source: 4063044-03 Prepared & Analyzed: 06/23/14					
Ammonia-N	9.92	mg/L	10.00	ND	99	80-120	0.6	20

Anions - Quality Control

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B410325 - 04-IC No Prep								
Calibration Blank (B410325-CCB1)			Prepared & Analyzed: 06/23/14					
Nitrate-N	0.00	mg/L						
Nitrite-N	0.00	mg/L						
Calibration Check (B410325-CCV1)			Prepared & Analyzed: 06/23/14					
Nitrate-N	1.21	mg/L	1.130		107	90-110		
Nitrite-N	2.13	mg/L	2.000		107	90-110		



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Laboratory Results

Sample No: **4063223-01**
Sample Description: **Tank 3 Start-Up**

Collect Date: **06/23/14 09:16**
Matrix: **Waste Water Grab**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<u>Anions - STL</u>					
Nitrate-N	210 mg/L		06/23/14 13:00	DWM	EPA 300.0 R2.1 04KS
Nitrite-N	< 25 mg/L		06/23/14 13:00	DWM	EPA 300.0 R2.1 04KS
<u>General Chemistry - STL</u>					
COD	2000 mg/L		06/23/14 13:31	DAW	SM 5220D 18Ed 04KS
Solids - total suspended solids (TSS)	2500 mg/L		06/23/14 11:50	DAW	SM 2540D 18Ed 04KS
Solids - total volatile suspended solids	940 mg/L		06/23/14 13:15	DAW	SM 2540E 18Ed*
<u>Nutrients - STL</u>					
Ammonia-N	0.26 mg/L		06/23/14 12:00	ACV	SM(18) 4500 NH3 F 04KS
<u>Soluble Metals - STL</u>					
Zinc	0.25 mg/L		06/24/14 15:11	KAE	EPA 200.7 R4.4 04KS
<u>Soluble Nutrients - STL</u>					
Phosphorus - ortho as P	2.0 mg/L		06/23/14 17:00	ACV	SM 4500P B E 18ed*
<u>Total Metals - STL</u>					
Zinc	1.9 mg/L		06/24/14 15:17	WPS	EPA 200.7 R4.4 04KS

Sample No: **4063223-02**
Sample Description: **Tank 2 Start-Up**

Collect Date: **06/23/14 09:23**
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<u>General Chemistry - STL</u>					
COD	23000 mg/L		06/23/14 13:31	DAW	SM 5220D 18Ed 04KS
Solids - total suspended solids (TSS)	420 mg/L		06/23/14 11:50	DAW	SM 2540D 18Ed 04KS
<u>Nutrients - STL</u>					
Ammonia-N	310 mg/L		06/23/14 12:00	ACV	SM(18) 4500 NH3 F 04KS

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Laboratory Results**General Chemistry - Quality Control**

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B410285 - 04-No Prep WC								
Blank (B410285-BLK1)			Prepared & Analyzed: 06/23/14					
Solids - total suspended solids (TSS)	< 2.0	mg/L						
LCS (B410285-BS1)			Prepared & Analyzed: 06/23/14					
Solids - total suspended solids (TSS)	100	mg/L	100.0		100	82.9-110		
Duplicate (B410285-DUP1)			Prepared & Analyzed: 06/23/14					
Solids - total suspended solids (TSS)	1640	mg/L		1620			1	5
Duplicate (B410285-DUP2)			Prepared & Analyzed: 06/23/14					
Solids - total suspended solids (TSS)	2640	mg/L		2620			0.8	5
Batch B410316 - 04-No Prep WC								
Calibration Blank (B410316-CCB1)			Prepared & Analyzed: 06/23/14					
COD	-0.266	mg/L						
Calibration Blank (B410316-CCB2)			Prepared & Analyzed: 06/23/14					
COD	-5.07	mg/L						
Calibration Check (B410316-CCV1)			Prepared & Analyzed: 06/23/14					
COD	97.9	mg/L	100.0		98	95-105		
Calibration Check (B410316-CCV2)			Prepared & Analyzed: 06/23/14					
COD	487	mg/L	500.0		97	95-105		
Duplicate (B410316-DUP1)			Prepared & Analyzed: 06/23/14					
COD	11.7	mg/L		11.5			2	20
Duplicate (B410316-DUP2)			Prepared & Analyzed: 06/23/14					
COD	23000	mg/L		23100			0.5	20
Batch B410321 - 04-No Prep WC								
Duplicate (B410321-DUP1)			Prepared & Analyzed: 06/23/14					
Solids - total volatile suspended solids	1140	mg/L		1140			0	5

Nutrients - Quality Control

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B410335 - 04-No Prep WC								
Calibration Blank (B410335-CCB1)			Prepared & Analyzed: 06/23/14					
Ammonia-N	0.00	mg/L						
Calibration Check (B410335-CCV1)			Prepared & Analyzed: 06/23/14					

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Laboratory Results**Nutrients - Quality Control**

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B410335 - 04-No Prep WC								
Calibration Check (B410335-CCV1)			Prepared & Analyzed: 06/23/14					
Ammonia-N	9.98	mg/L	10.00		100	90-110		
Matrix Spike (B410335-MS1)			Source: 4063044-03 Prepared & Analyzed: 06/23/14					
Ammonia-N	9.86	mg/L	10.00	ND	99	80-120		
Matrix Spike Dup (B410335-MSD1)			Source: 4063044-03 Prepared & Analyzed: 06/23/14					
Ammonia-N	9.92	mg/L	10.00	ND	99	80-120	0.6	20

Soluble Nutrients - Quality Control

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B410346 - 04-No Prep WC								
Calibration Blank (B410346-CCB1)			Prepared & Analyzed: 06/23/14					
Phosphorus - ortho as P	0.00	mg/L						
Calibration Check (B410346-CCV1)			Prepared & Analyzed: 06/23/14					
Phosphorus - ortho as P	0.496	mg/L	0.5000		99	90-110		
Matrix Spike (B410346-MS1)			Source: 4063223-01 Prepared & Analyzed: 06/23/14					
Phosphorus - ortho as P	2.61	mg/L	0.5000	2.03	116	80-120		
Matrix Spike Dup (B410346-MSD1)			Source: 4063223-01 Prepared & Analyzed: 06/23/14					
Phosphorus - ortho as P	2.55	mg/L	0.5000	2.03	104	80-120	2	20

Total Metals - Quality Control

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B410308 - 04 EPA 200.2 R2.8								
Blank (B410308-BLK1)			Prepared: 06/23/14 Analyzed: 06/24/14					
Zinc	< 0.020	mg/L						
LCS (B410308-BS1)			Prepared: 06/23/14 Analyzed: 06/24/14					
Zinc	0.223	mg/L	0.2000		112	85-115		
Matrix Spike (B410308-MS1)			Source: 4063223-01 Prepared: 06/23/14 Analyzed: 06/24/14					
Zinc	NR	1.45	1.000	1.87	NR	70-130		
Matrix Spike Dup (B410308-MSD1)			Source: 4063223-01 Prepared: 06/23/14 Analyzed: 06/24/14					
Zinc	NR	1.44	1.000	1.87	NR	70-130	0.9	20

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Laboratory Results**Soluble Metals - Quality Control**

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B410308 - 04 EPA 200.2 R2.8								
Blank (B410308-BLK1)			Prepared: 06/23/14 Analyzed: 06/24/14					
Zinc	< 0.020	mg/L						
LCS (B410308-BS1)			Prepared: 06/23/14 Analyzed: 06/24/14					
Zinc	0.223	mg/L	0.2000		112	85-115		
Matrix Spike (B410308-MS1)			Prepared: 06/23/14 Analyzed: 06/24/14					
Zinc	1.45	mg/L	1.000	0.251	120	70-130		
Matrix Spike Dup (B410308-MSD1)			Prepared: 06/23/14 Analyzed: 06/24/14					
Zinc	1.44	mg/L	1.000	0.251	119	70-130	0.9	20

Anions - Quality Control

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B410325 - 04-IC No Prep								
Calibration Blank (B410325-CCB1)			Prepared & Analyzed: 06/23/14					
Nitrate-N	0.00	mg/L						
Nitrite-N	0.00	mg/L						
Calibration Check (B410325-CCV1)			Prepared & Analyzed: 06/23/14					
Nitrate-N	1.19	mg/L	1.130		105	90-110		
Nitrite-N	2.04	mg/L	2.000		102	90-110		
Matrix Spike (B410325-MS1)			Prepared & Analyzed: 06/23/14					
Nitrite-N	2.85	mg/L	2.500	0.252	104	80-120		
Nitrate-N	Q1 3.0	mg/L	1.130	2.4	52	80-120		
Matrix Spike Dup (B410325-MSD1)			Prepared & Analyzed: 06/23/14					
Nitrite-N	2.95	mg/L	2.500	0.252	108	80-120	4	20
Nitrate-N	Q2 3.0	mg/L	1.130	2.4	56	80-120	1	20



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Q2 MSD failed %R

Q1 MS Failed %R

NR Not Required

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Date Received: 06/24/14 11:27
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Laboratory Results

Sample No: **4063389-01**
Sample Description: **Tank 3 Start-Up**

Collect Date: **06/24/14 07:40**
Matrix: **Waste Water Grab**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<u>Anions - STL</u>					
Nitrate-N	220 mg/L		06/24/14 13:41	DWM	EPA 300.0 R2.1 04KS
Nitrite-N	< 25 mg/L		06/24/14 13:41	DWM	EPA 300.0 R2.1 04KS
<u>General Chemistry - STL</u>					
COD	1700 mg/L		06/25/14 08:21	DAW	SM 5220D 18Ed 04KS
Solids - total suspended solids (TSS)	2800 mg/L		06/24/14 12:10	DAW	SM 2540D 18Ed 04KS
Solids - total volatile suspended solids	1200 mg/L		06/25/14 08:30	DAW	SM 2540E 18Ed*
<u>Nutrients - STL</u>					
Ammonia-N	0.32 mg/L		06/25/14 11:30	ACV	SM(18) 4500 NH3 F 04KS

Sample No: **4063389-02**
Sample Description: **Tank 2 Start-Up**

Collect Date: **06/24/14 07:26**
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<u>General Chemistry - STL</u>					
COD	24000 mg/L		06/25/14 08:21	DAW	SM 5220D 18Ed 04KS
Solids - total suspended solids (TSS)	320 mg/L		06/24/14 12:10	DAW	SM 2540D 18Ed 04KS
<u>Nutrients - STL</u>					
Ammonia-N	290 mg/L		06/25/14 11:30	ACV	SM(18) 4500 NH3 F 04KS

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Attn: Bill AbernathyDate Received: 06/24/14 11:27
Report Date: 06/25/14
Customer #: 277310
PO#: 4167739***Laboratory Results*****General Chemistry - Quality Control**

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

Batch B410395 - 04-No Prep WC

Blank (B410395-BLK1)			Prepared & Analyzed: 06/24/14					
Solids - total suspended solids (TSS)	< 2.0	mg/L						
LCS (B410395-BS1)			Prepared & Analyzed: 06/24/14					
Solids - total suspended solids (TSS)	96.0	mg/L	100.0	96	82.9-110			
Duplicate (B410395-DUP1)			Prepared & Analyzed: 06/24/14					
Solids - total suspended solids (TSS)	1140	mg/L	1140				0	5
Duplicate (B410395-DUP2)			Prepared & Analyzed: 06/24/14					
Solids - total suspended solids (TSS)	2860	mg/L	2780				3	5

Batch B410451 - 04-No Prep WC

Calibration Blank (B410451-CCB1)			Prepared: 06/24/14 Analyzed: 06/25/14					
COD	-5.10	mg/L						
Calibration Check (B410451-CCV1)			Prepared: 06/24/14 Analyzed: 06/25/14					
COD	489	mg/L	500.0	98	95-105			
Duplicate (B410451-DUP1)			Prepared: 06/24/14 Analyzed: 06/25/14					
COD	654	mg/L	658				0.7	20

Batch B410499 - 04-No Prep WC

Duplicate (B410499-DUP1)			Prepared & Analyzed: 06/25/14					
Solids - total volatile suspended solids	1180	mg/L	1160				2	5

Nutrients - Quality Control

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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Batch B410510 - 04-No Prep WC

Calibration Blank (B410510-CCB1)			Prepared & Analyzed: 06/25/14					
Ammonia-N	0.00	mg/L						
Calibration Check (B410510-CCV1)			Prepared & Analyzed: 06/25/14					
Ammonia-N	10.0	mg/L	10.00	100	90-110			
Matrix Spike (B410510-MS1)			Prepared & Analyzed: 06/25/14					
Ammonia-N	9.92	mg/L	10.00	0.100	98	80-120		
Matrix Spike Dup (B410510-MSD1)			Prepared & Analyzed: 06/25/14					
Ammonia-N	9.98	mg/L	10.00	0.100	99	80-120	0.6	20



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Anions - Quality Control

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B410468 - 04-IC No Prep								
Calibration Blank (B410468-CCB1)			Prepared & Analyzed: 06/24/14					
Nitrate-N	0.00	mg/L						
Nitrite-N	0.00	mg/L						
Calibration Check (B410468-CCV1)			Prepared & Analyzed: 06/24/14					
Nitrate-N	1.22	mg/L	1.130		108	90-110		
Nitrite-N	2.19	mg/L	2.000		110	90-110		
Matrix Spike (B410468-MS1)			Source: 4062997-04		Prepared & Analyzed: 06/24/14			
Nitrate-N	Q1	5.4	mg/L	1.130	4.6	70	80-120	
Nitrite-N	Q4	36.4	mg/L	2.500	4.00	NR	80-120	
Matrix Spike Dup (B410468-MSD1)			Source: 4062997-04		Prepared & Analyzed: 06/24/14			
Nitrite-N	Q4	37.6	mg/L	2.500	4.00	NR	80-120	3 20
Nitrate-N	Q2	5.5	mg/L	1.130	4.6	78	80-120	2 20



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Laboratory Results

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Hazardous/Solid Waste Certifications: Arkansas (88-0677); Wisconsin (998284430); Iowa (240); Kansas (E-10335)

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EPA DMR-QA Program

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TNI Accreditation for Wastewater, Hazardous and Solid Wastes Fields of Testing through KS Lab No. E-10389

Illinois Department of Public Health Bacteriological Analysis in Drinking Water Approved Laboratory Registry

No. 171050

Drinking Water Certifications: Missouri (1050)

Missouri Department of Natural Resources

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.

Q2 MSD failed %R

Q1 MS Failed %R

Certified by: Roxann Shull, Client Services Supervisor

CHAIN OF CUSTODY RECORD

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Date Received: 06/25/14 11:20
Report Date: 06/26/14
Customer #: 277310
PO#: 4167739

Laboratory Results

Sample No: **4063550-01**
Sample Description: **Tank 3 Start-Up**

Collect Date: **06/25/14 08:35**
Matrix: **Waste Water Grab**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<u>Anions - STL</u>					
Nitrate-N	250 mg/L		06/25/14 12:51	DWM	EPA 300.0 R2.1 04KS
Nitrite-N	< 25 mg/L		06/25/14 12:51	DWM	EPA 300.0 R2.1 04KS
<u>General Chemistry - STL</u>					
COD	2400 mg/L		06/26/14 09:04	DAW	SM 5220D 18Ed 04KS
Solids - total suspended solids (TSS)	3100 mg/L		06/25/14 12:30	DAW	SM 2540D 18Ed 04KS
Solids - total volatile suspended solids	1300 mg/L		06/26/14 08:15	DAW	SM 2540E 18Ed*
<u>Nutrients - STL</u>					
Ammonia-N	0.31 mg/L		06/25/14 11:30	ACV	SM(18) 4500 NH3 F 04KS

Sample No: **4063550-02**
Sample Description: **Tank 2 Start-Up**

Collect Date: **06/25/14 08:31**
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<u>General Chemistry - STL</u>					
COD	17000 mg/L		06/26/14 09:04	DAW	SM 5220D 18Ed 04KS
Solids - total suspended solids (TSS)	2800 mg/L		06/25/14 12:30	DAW	SM 2540D 18Ed 04KS
<u>Nutrients - STL</u>					
Ammonia-N	300 mg/L		06/25/14 11:30	ACV	SM(18) 4500 NH3 F 04KS

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Laboratory Results**General Chemistry - Quality Control**

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B410477 - 04-No Prep WC								
Blank (B410477-BLK1)			Prepared & Analyzed: 06/25/14					
Solids - total suspended solids (TSS)	< 2.0	mg/L						
LCS (B410477-BS1)			Prepared & Analyzed: 06/25/14					
Solids - total suspended solids (TSS)	99.0	mg/L	100.0		99	82.9-110		
Duplicate (B410477-DUP1)			Prepared & Analyzed: 06/25/14					
Solids - total suspended solids (TSS)	3200	mg/L		3060			4	5
Batch B410529 - 04-No Prep WC								
Duplicate (B410529-DUP1)			Prepared & Analyzed: 06/26/14					
Solids - total volatile suspended solids	1360	mg/L		1340			1	5
Batch B410534 - 04-No Prep WC								
Calibration Blank (B410534-CCB1)			Prepared: 06/25/14 Analyzed: 06/26/14					
COD	-0.527	mg/L						
Calibration Blank (B410534-CCB2)			Prepared: 06/25/14 Analyzed: 06/26/14					
COD	-5.07	mg/L						
Calibration Check (B410534-CCV1)			Prepared: 06/25/14 Analyzed: 06/26/14					
COD	99.0	mg/L	100.0		99	95-105		
Calibration Check (B410534-CCV2)			Prepared: 06/25/14 Analyzed: 06/26/14					
COD	484	mg/L	500.0		97	95-105		
Duplicate (B410534-DUP1)			Prepared: 06/25/14 Analyzed: 06/26/14					
COD	5.48	mg/L		5.22			5	20
Duplicate (B410534-DUP2)			Prepared: 06/25/14 Analyzed: 06/26/14					
COD	999	mg/L		1010			0.9	20

Nutrients - Quality Control

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B410510 - 04-No Prep WC								
Calibration Blank (B410510-CCB1)			Prepared & Analyzed: 06/25/14					
Ammonia-N	0.00	mg/L						
Calibration Check (B410510-CCV1)			Prepared & Analyzed: 06/25/14					
Ammonia-N	10.0	mg/L	10.00		100	90-110		
Matrix Spike (B410510-MS1)			Prepared & Analyzed: 06/25/14					

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Laboratory Results**Nutrients - Quality Control**

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B410510 - 04-No Prep WC								
Matrix Spike (B410510-MS1)			Source: 4063470-02		Prepared & Analyzed: 06/25/14			
Ammonia-N	9.92	mg/L	10.00	0.100	98	80-120		
Matrix Spike Dup (B410510-MSD1)			Source: 4063470-02		Prepared & Analyzed: 06/25/14			
Ammonia-N	9.98	mg/L	10.00	0.100	99	80-120	0.6	20

Anions - Quality Control

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B410535 - 04-IC No Prep								
Calibration Blank (B410535-CCB1)			Prepared & Analyzed: 06/25/14					
Nitrate-N	0.00	mg/L						
Nitrite-N	0.00	mg/L						
Calibration Check (B410535-CCV1)			Prepared & Analyzed: 06/25/14					
Nitrate-N	1.20	mg/L	1.130		107	90-110		
Nitrite-N	2.13	mg/L	2.000		106	90-110		
Matrix Spike (B410535-MS1)			Source: 4063174-03		Prepared & Analyzed: 06/25/14			
Nitrate-N	Q1 120	mg/L	113.0	35	77	80-120		
Nitrite-N	264	mg/L	250.0	ND	106	80-120		
Matrix Spike Dup (B410535-MSD1)			Source: 4063174-03		Prepared & Analyzed: 06/25/14			
Nitrite-N	264	mg/L	250.0	ND	106	80-120	0.04	20
Nitrate-N	Q2 120	mg/L	113.0	35	76	80-120	0.6	20



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Illinois Department of Public Health Bacteriological Analysis in Drinking Water Approved Laboratory Registry No. 171050

Drinking Water Certifications: Missouri (1050)

Missouri Department of Natural Resources

Q2 MSD failed %R

Q1 MS Failed %R

Certified by: Roxann Shull, Client Services Supervisor



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Date Received: 06/26/14 10:34
Report Date: 07/07/14
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Revised Laboratory Results

Sample No: **4063765-01**
Sample Description: **Tank 3 Start-Up**

Collect Date: **06/26/14 09:18**
Matrix: **Waste Water Grab**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<u>Anions - STL</u>					
Nitrate-N	250 mg/L		06/27/14 10:50	DWM	EPA 300.0 R2.1 04KS
Nitrite-N	< 25 mg/L		06/27/14 10:50	DWM	EPA 300.0 R2.1 04KS
<u>General Chemistry - STL</u>					
COD	2300 mg/L		06/27/14 14:21	DAW	SM 5220D 18Ed 04KS
Solids - total suspended solids (TSS)	3000 mg/L		06/26/14 16:10	DAW	SM 2540D 18Ed 04KS
Solids - total volatile suspended solids	1100 mg/L		06/27/14 13:45	DAW	SM 2540E 18Ed*
<u>Nutrients - STL</u>					
Ammonia-N	0.32 mg/L		06/27/14 13:00	ACV	SM(18) 4500 NH3 F 04KS
<u>Soluble Metals - STL</u>					
Zinc	0.15 mg/L		06/27/14 15:59	KAE	EPA 200.7 R4.4 04KS
<u>Soluble Nutrients - STL</u>					
Phosphorus - ortho as P	1.9 mg/L		06/26/14 13:45	ACV	SM 4500P B E 18ed*
<u>Total Metals - STL</u>					
Zinc	2.1 mg/L		06/27/14 16:04	KAE	EPA 200.7 R4.4 04KS

Sample No: **4063765-02**
Sample Description: **Tank 2 Start-Up**

Collect Date: **06/26/14 09:35**
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<u>General Chemistry - STL</u>					
COD	24000 mg/L		06/27/14 14:20	DAW	SM 5220D 18Ed 04KS
Solids - total suspended solids (TSS)	1300 mg/L		06/26/14 16:10	DAW	SM 2540D 18Ed 04KS
<u>Nutrients - STL</u>					
Ammonia-N	290 mg/L		06/27/14 13:00	ACV	SM(18) 4500 NH3 F 04KS
<u>Soluble Metals - STL</u>					
Zinc	2.0 mg/L		06/27/14 16:06	KAE	EPA 200.7 R4.4 04KS
<u>Total Metals - STL</u>					
Zinc	2.4 mg/L		06/27/14 16:07	KAE	EPA 200.7 R4.4 04KS

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Revised Laboratory Results**General Chemistry - Quality Control**

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B410590 - 04-No Prep WC								
Blank (B410590-BLK1)			Prepared & Analyzed: 06/26/14					
Solids - total suspended solids (TSS)	< 2.0	mg/L						
LCS (B410590-BS1)			Prepared & Analyzed: 06/26/14					
Solids - total suspended solids (TSS)	99.0	mg/L	100.0		99	82.9-110		
Duplicate (B410590-DUP1)			Prepared & Analyzed: 06/26/14					
Solids - total suspended solids (TSS)	2960	mg/L		3020			2	5
Duplicate (B410590-DUP2)			Prepared & Analyzed: 06/26/14					
Solids - total suspended solids (TSS)	1500	mg/L		1540			3	5
Batch B410684 - 04-No Prep WC								
Calibration Blank (B410684-CCB1)			Prepared & Analyzed: 06/27/14					
COD	-0.527	mg/L						
Calibration Blank (B410684-CCB2)			Prepared & Analyzed: 06/27/14					
COD	-5.07	mg/L						
Calibration Check (B410684-CCV1)			Prepared & Analyzed: 06/27/14					
COD	99.5	mg/L	100.0		99	95-105		
Calibration Check (B410684-CCV2)			Prepared & Analyzed: 06/27/14					
COD	495	mg/L	500.0		99	95-105		
Duplicate (B410684-DUP1)			Prepared & Analyzed: 06/27/14					
COD	19.6	mg/L		19.1			3	20
Duplicate (B410684-DUP2)			Prepared & Analyzed: 06/27/14					
COD	24000	mg/L		23900			0.5	20
Batch B410689 - 04-No Prep WC								
Duplicate (B410689-DUP1)			Prepared & Analyzed: 06/27/14					
Solids - total volatile suspended solids	1100	mg/L		1080			2	5
Duplicate (B410689-DUP2)			Prepared & Analyzed: 06/27/14					
Solids - total volatile suspended solids	1340	mg/L		1320			2	5

Nutrients - Quality Control

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B410679 - 04-No Prep WC								

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Revised Laboratory Results**Nutrients - Quality Control**

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B410679 - 04-No Prep WC								
Blank (B410679-BLK1)			Prepared & Analyzed: 06/27/14					
Ammonia-N	< 0.10	mg/L						
LCS (B410679-BS1)			Prepared & Analyzed: 06/27/14					
Ammonia-N	10.1	mg/L	10.00		101	80-120		
Matrix Spike (B410679-MS1)			Prepared & Analyzed: 06/27/14					
Ammonia-N	9.92	mg/L	10.00	0.0759	98	80-120		
Matrix Spike Dup (B410679-MSD1)			Prepared & Analyzed: 06/27/14					
Ammonia-N	9.98	mg/L	10.00	0.0759	99	80-120	0.6	20

Soluble Nutrients - Quality Control

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B410606 - 04-No Prep WC								
Blank (B410606-BLK1)			Prepared & Analyzed: 06/26/14					
Phosphorus - ortho as P	< 0.050	mg/L						
LCS (B410606-BS1)			Prepared & Analyzed: 06/26/14					
Phosphorus - ortho as P	0.515	mg/L	0.5000		103	80-120		
Matrix Spike (B410606-MS1)			Prepared & Analyzed: 06/26/14					
Phosphorus - ortho as P	2.34	mg/L	0.5000	1.90	88	80-120		
Matrix Spike Dup (B410606-MSD1)			Prepared & Analyzed: 06/26/14					
Phosphorus - ortho as P	2.34	mg/L	0.5000	1.90	88	80-120	0	20

Total Metals - Quality Control

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B410558 - 04 EPA 200.2 R2.8								
Blank (B410558-BLK1)			Prepared: 06/26/14 Analyzed: 06/27/14					
Zinc	< 0.020	mg/L						
LCS (B410558-BS1)			Prepared: 06/26/14 Analyzed: 06/27/14					
Zinc	0.218	mg/L	0.2000		109	85-115		
Matrix Spike (B410558-MS1)			Prepared: 06/26/14 Analyzed: 06/27/14					
Zinc	1.32	mg/L	1.000	2.12	NR	70-130		

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Date Received: 06/26/14 10:34
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Revised Laboratory Results**Soluble Metals - Quality Control**

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B410558 - 04 EPA 200.2 R2.8								
Blank (B410558-BLK1)			Prepared: 06/26/14 Analyzed: 06/27/14					
Zinc	< 0.020	mg/L						
LCS (B410558-BS1)			Prepared: 06/26/14 Analyzed: 06/27/14					
Zinc	0.218	mg/L	0.2000		109	85-115		
Matrix Spike (B410558-MS1)			Prepared: 06/26/14 Analyzed: 06/27/14					
Zinc	1.32	mg/L	1.000	0.147	117	70-130		
Matrix Spike Dup (B410558-MSD1)			Prepared: 06/26/14 Analyzed: 06/27/14					
Zinc	1.32	mg/L	1.000	0.147	118	70-130	0.6	20

Anions - Quality Control

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B410656 - 04-IC No Prep								
Calibration Blank (B410656-CCB1)			Prepared & Analyzed: 06/27/14					
Nitrate-N	0.356	mg/L						
Nitrite-N	0.00	mg/L						
Calibration Check (B410656-CCV1)			Prepared & Analyzed: 06/27/14					
Nitrate-N	1.19	mg/L	1.130		105	90-110		
Nitrite-N	2.10	mg/L	2.000		105	90-110		
Matrix Spike (B410656-MS1)			Prepared: 06/27/14 Analyzed: 06/30/14					
Nitrite-N	231	mg/L	250.0	ND	92	80-120		
Nitrate-N	120	mg/L	113.0	ND	107	80-120		
Matrix Spike Dup (B410656-MSD1)			Prepared: 06/27/14 Analyzed: 06/30/14					
Nitrate-N	120	mg/L	113.0	ND	106	80-120	0.7	20
Nitrite-N	225	mg/L	250.0	ND	90	80-120	3	20



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St. Louis, MO 63044
Attn: Bill Abernathy

Date Received: 06/26/14 10:34
Report Date: 07/07/14
Customer #: 277310
PO#: 4167739

Revised Laboratory Results

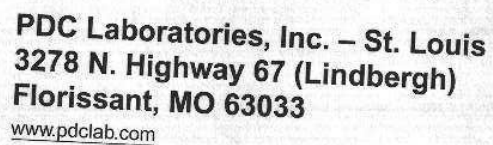
Notes

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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

Bass/Bridgeton 4-

PROJECT NUMBER

P.O. NUMBER

MEANS SHIPPED

3

ANALYSIS REQUESTED

COO + Ammonia

TSS/less + Nitrate/Nitrite

Total 2N

Diss 2N

Diss orthophosphate

TSS

4

(FOR LAB USE ONLY)

LOGIN #

4063765

LOGGED BY:

HE

LAB PROJ. #

TEMPLATE:

PROJ. MGR.:

ADDRESS

PHONE NUMBER

FAX NUMBER

EMAIL ADDRESS

CITY

STATE

ZIP

SAMPLER

MATRIX TYPES:

WW-WASTEWATER

DW-DRINKING WATER

GW-GROUND WATER

WW/SL-SLUDGE

NAS-SOLID

L'CHT-LEACHATE

NAL-NON-AQUEOUS

SOIL-SOILS

CONTACT PERSON

SAMPLER'S SIGNATURE

2

SAMPLE DESCRIPTION

AS YOU WANT ON REPORT

DATE COLLECTED

TIME COLLECTED

SAMPLE TYPE

MATRIX TYPE

Bottle Count

T3 startup

6/26/14

9:18

✓

L'CHT

5

T2 startup

6/26/14

9:35

✓

L'CHT

4

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

6/27/14

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:

RELINQUISHED BY: (SIGNATURE)

DATE

TIME

RECEIVED BY:

RELINQUISHED BY: (SIGNATURE)

DATE

TIME

RECEIVED BY:

RELINQUISHED BY: (SIGNATURE)

DATE

TIME

RECEIVED BY:

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

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

Date Received: 06/27/14 10:34
Report Date: 06/30/14
Customer #: 277310
PO#: 4167739

Laboratory Results

Sample No: **4063932-01**
Sample Description: **Tank 3 Start-Up**

Collect Date: **06/27/14 09:14**
Matrix: **Waste Water Grab**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<u>Anions - STL</u>					
Nitrate-N	260 mg/L		06/27/14 11:21	DWM	EPA 300.0 R2.1 04KS
Nitrite-N	< 25 mg/L		06/27/14 11:21	DWM	EPA 300.0 R2.1 04KS
<u>General Chemistry - STL</u>					
COD	2500 mg/L		06/27/14 14:21	DAW	SM 5220D 18Ed 04KS
Solids - total suspended solids (TSS)	3200 mg/L		06/27/14 11:28	DAS/D	SM 2540D 18Ed 04KS
Solids - total volatile suspended solids	1300 mg/L		06/27/14 13:45	DAW	SM 2540E 18Ed*
<u>Nutrients - STL</u>					
Ammonia-N	0.30 mg/L		06/27/14 13:00	ACV	SM(18) 4500 NH3 04KS F

Sample No: **4063932-02**
Sample Description: **Tank 2 Start-Up**

Collect Date: **06/27/14 09:10**
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<u>General Chemistry - STL</u>					
COD	26000 mg/L		06/27/14 14:21	DAW	SM 5220D 18Ed 04KS
Solids - total suspended solids (TSS)	2300 mg/L		06/27/14 11:28	DAS/D	SM 2540D 18Ed 04KS
<u>Nutrients - STL</u>					
Ammonia-N	280 mg/L		06/27/14 13:00	ACV	SM(18) 4500 NH3 04KS F

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 Attn: Bill Abernathy

Date Received: 06/27/14 10:34
 Report Date: 06/30/14
 Customer #: 277310
 PO#: 4167739

Laboratory Results**General Chemistry - Quality Control**

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B410653 - 04-No Prep WC								
Blank (B410653-BLK1)			Prepared & Analyzed: 06/27/14					
Solids - total suspended solids (TSS)	< 2.0	mg/L						
LCS (B410653-BS1)			Prepared & Analyzed: 06/27/14					
Solids - total suspended solids (TSS)	98.0	mg/L	100.0		98	82.9-110		
Duplicate (B410653-DUP1)			Prepared & Analyzed: 06/27/14					
Solids - total suspended solids (TSS)	3140	mg/L		3160			0.6	5
Batch B410684 - 04-No Prep WC								
Calibration Blank (B410684-CCB1)			Prepared & Analyzed: 06/27/14					
COD	-0.527	mg/L						
Calibration Blank (B410684-CCB2)			Prepared & Analyzed: 06/27/14					
COD	-5.07	mg/L						
Calibration Check (B410684-CCV1)			Prepared & Analyzed: 06/27/14					
COD	99.5	mg/L	100.0		99	95-105		
Calibration Check (B410684-CCV2)			Prepared & Analyzed: 06/27/14					
COD	495	mg/L	500.0		99	95-105		
Duplicate (B410684-DUP1)			Prepared & Analyzed: 06/27/14					
COD	19.6	mg/L		19.1			3	20
Duplicate (B410684-DUP2)			Prepared & Analyzed: 06/27/14					
COD	24000	mg/L		23900			0.5	20
Batch B410689 - 04-No Prep WC								
Duplicate (B410689-DUP1)			Prepared & Analyzed: 06/27/14					
Solids - total volatile suspended solids	1100	mg/L		1080			2	5
Duplicate (B410689-DUP2)			Prepared & Analyzed: 06/27/14					
Solids - total volatile suspended solids	1340	mg/L		1320			2	5
Nutrients - Quality Control								
Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B410679 - 04-No Prep WC								
Blank (B410679-BLK1)			Prepared & Analyzed: 06/27/14					
Ammonia-N	< 0.10	mg/L						

4063932

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 Attn: Bill Abernathy

Date Received: 06/27/14 10:34
 Report Date: 06/30/14
 Customer #: 277310
 PO#: 4167739

Laboratory Results**Nutrients - Quality Control**

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B410679 - 04-No Prep WC								
LCS (B410679-BS1)			Prepared & Analyzed: 06/27/14					
Ammonia-N	10.1	mg/L	10.00		101	80-120		
Matrix Spike (B410679-MS1)			Prepared & Analyzed: 06/27/14					
Ammonia-N	9.92	mg/L	10.00	0.0759	98	80-120		
Matrix Spike Dup (B410679-MSD1)			Prepared & Analyzed: 06/27/14					
Ammonia-N	9.98	mg/L	10.00	0.0759	99	80-120	0.6	20

Anions - Quality Control

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B410656 - 04-IC No Prep								
Calibration Blank (B410656-CCB1)			Prepared & Analyzed: 06/27/14					
Nitrite-N	0.00	mg/L						
Nitrate-N	0.356	mg/L						
Calibration Check (B410656-CCV1)			Prepared & Analyzed: 06/27/14					
Nitrite-N	2.10	mg/L	2.000		105	90-110		
Nitrate-N	1.19	mg/L	1.130		105	90-110		
Matrix Spike (B410656-MS1)			Prepared & Analyzed: 06/27/14					
Nitrite-N	231	mg/L	250.0	20.9	84	80-120		
Nitrate-N	120	mg/L	113.0	ND	107	80-120		
Matrix Spike Dup (B410656-MSD1)			Prepared & Analyzed: 06/27/14					
Nitrate-N	120	mg/L	113.0	ND	106	80-120	0.7	20
Nitrite-N	225	mg/L	250.0	20.9	82	80-120	3	20



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PO#: 4167739

Laboratory Results

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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

Illinois Department of Public Health Bacteriological Analysis in Drinking Water Approved Laboratory Registry No. 171050

Drinking Water Certifications: Missouri (1050)

Missouri Department of Natural Resources

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



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St. Louis, MO 63044
Attn: Bill Abernathy

Date Received: 06/28/14 12:50
Report Date: 06/30/14
Customer #: 277310
PO#: 4167739

Laboratory Results

Sample No: **4064079-01**
Sample Description: **Tank 3 Start-Up**

Collect Date: **06/28/14 09:07**
Matrix: **Waste Water Grab**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<u>Anions - STL</u>					
Nitrate-N	140 mg/L		06/28/14 13:35	DWM	EPA 300.0 R2.1 04KS
Nitrite-N	< 50 mg/L		06/28/14 13:35	DWM	EPA 300.0 R2.1 04KS
<u>General Chemistry - STL</u>					
COD	2400 mg/L		06/28/14 15:36	DAW	SM 5220D 18Ed 04KS
Solids - total suspended solids (TSS)	3300 mg/L		06/30/14 10:17	DAW	SM 2540D 18Ed 04KS
Solids - total volatile suspended solids	1400 mg/L		06/30/14 14:00	DAW	SM 2540E 18Ed*
<u>Nutrients - STL</u>					
Ammonia-N	0.33 mg/L		06/28/14 14:30	DAW	SM(18) 4500 NH3 F 04KS

Sample No: **4064079-02**
Sample Description: **Tank 2 Start-Up**

Collect Date: **06/28/14 09:15**
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<u>General Chemistry - STL</u>					
COD	23000 mg/L		06/28/14 15:36	DAW	SM 5220D 18Ed 04KS
Solids - total suspended solids (TSS)	2100 mg/L		06/30/14 10:17	DAW	SM 2540D 18Ed 04KS
<u>Nutrients - STL</u>					
Ammonia-N	300 mg/L		06/28/14 14:30	DAW	SM(18) 4500 NH3 F 04KS

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 Attn: Bill Abernathy

Date Received: 06/28/14 12:50
 Report Date: 06/30/14
 Customer #: 277310
 PO#: 4167739

Laboratory Results**General Chemistry - Quality Control**

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

Batch B410700 - 04-No Prep WC

Blank (B410700-BLK1)		Prepared & Analyzed: 06/28/14						
Solids - total suspended solids (TSS)	< 2.0	mg/L						
LCS (B410700-BS1)		Prepared & Analyzed: 06/28/14						
Solids - total suspended solids (TSS)	98.0	mg/L	100.0		98	82.9-110		
Duplicate (B410700-DUP1)		Prepared & Analyzed: 06/28/14						
Solids - total suspended solids (TSS)	2480	mg/L		2500			0.8	5
Duplicate (B410700-DUP2)		Prepared: 06/28/14 Analyzed: 06/30/14						
Solids - total suspended solids (TSS)	3300	mg/L		3260			1	5

Batch B410701 - 04-No Prep WC

Calibration Blank (B410701-CCB1)		Prepared & Analyzed: 06/28/14						
COD	-0.527	mg/L						
Calibration Blank (B410701-CCB2)		Prepared & Analyzed: 06/28/14						
COD	-5.07	mg/L						
Calibration Check (B410701-CCV1)		Prepared & Analyzed: 06/28/14						
COD	99.0	mg/L	100.0		99	95-105		
Calibration Check (B410701-CCV2)		Prepared & Analyzed: 06/28/14						
COD	495	mg/L	500.0		99	95-105		
Duplicate (B410701-DUP1)		Prepared & Analyzed: 06/28/14						
COD	8.09	mg/L		8.61			6	20
Duplicate (B410701-DUP2)		Prepared & Analyzed: 06/28/14						
COD	1820	mg/L		1800			1	20

Batch B410791 - 04-No Prep WC

Duplicate (B410791-DUP1)		Prepared & Analyzed: 06/30/14						
Solids - total volatile suspended solids	1400	mg/L		1420			1	5
Duplicate (B410791-DUP2)		Prepared & Analyzed: 06/30/14						
Solids - total volatile suspended solids	1400	mg/L		1420			1	5

Nutrients - Quality Control

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

Batch B410737 - 04-No Prep WC

4064079

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 St. Louis, MO 63044
 Attn: Bill Abernathy

Date Received: 06/28/14 12:50
 Report Date: 06/30/14
 Customer #: 277310
 PO#: 4167739

Laboratory Results**Nutrients - Quality Control**

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B410737 - 04-No Prep WC								
Blank (B410737-BLK1)			Prepared & Analyzed: 06/30/14					
Ammonia-N	< 0.10	mg/L						
LCS (B410737-BS1)			Prepared & Analyzed: 06/30/14					
Ammonia-N	10.2	mg/L	10.00		102	80-120		
Matrix Spike (B410737-MS1)			Prepared & Analyzed: 06/30/14					
Ammonia-N	411	mg/L	100.0	305	106	80-120		
Matrix Spike Dup (B410737-MSD1)			Prepared & Analyzed: 06/30/14					
Ammonia-N	413	mg/L	100.0	305	108	80-120	0.5	20

Anions - Quality Control

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B410656 - 04-IC No Prep								
Calibration Blank (B410656-CCB1)			Prepared & Analyzed: 06/27/14					
Nitrite-N	0.00	mg/L						
Nitrate-N	0.356	mg/L						
Calibration Check (B410656-CCV1)			Prepared & Analyzed: 06/27/14					
Nitrite-N	2.10	mg/L	2.000		105	90-110		
Nitrate-N	1.19	mg/L	1.130		105	90-110		
Matrix Spike (B410656-MS1)			Prepared: 06/27/14 Analyzed: 06/30/14					
Nitrite-N	231	mg/L	250.0	ND	92	80-120		
Nitrate-N	120	mg/L	113.0	ND	107	80-120		
Matrix Spike Dup (B410656-MSD1)			Prepared: 06/27/14 Analyzed: 06/30/14					
Nitrate-N	120	mg/L	113.0	ND	106	80-120	0.7	20
Nitrite-N	225	mg/L	250.0	ND	90	80-120	3	20



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Attn: Bill Abernathy

Date Received: 06/28/14 12:50
Report Date: 06/30/14
Customer #: 277310
PO#: 4167739

Laboratory Results

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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

Illinois Department of Public Health Bacteriological Analysis in Drinking Water Approved Laboratory Registry No. 171050

Drinking Water Certifications: Missouri (1050)

Missouri Department of Natural Resources

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

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[illegible]



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

Date Received: 06/30/14 11:57
Report Date: 07/01/14
Customer #: 277310
PO#: 4167739

Laboratory Results

Sample No: **4064135-01**
Sample Description: **Tank 3 Start-Up**

Collect Date: **06/29/14 09:05**
Matrix: **Waste Water Grab**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<u>Anions - STL</u>					
Nitrate-N	250 mg/L		06/30/14 13:24	DWM	EPA 300.0 R2.1 04KS
Nitrite-N	< 25 mg/L		06/30/14 13:24	DWM	EPA 300.0 R2.1 04KS
<u>General Chemistry - STL</u>					
COD	2700 mg/L		06/30/14 15:19	DAW	SM 5220D 18Ed 04KS
Solids - total suspended solids (TSS)	3300 mg/L		06/30/14 13:00	DAS	SM 2540D 18Ed 04KS
Solids - total volatile suspended solids	1400 mg/L		06/30/14 14:00	DAW	SM 2540E 18Ed*
<u>Nutrients - STL</u>					
Ammonia-N	0.36 mg/L		06/30/14 10:00	ACV	SM(18) 4500 NH3 F 04KS

Sample No: **4064135-02**
Sample Description: **Tank 2 Start-Up**

Collect Date: **06/29/14 09:10**
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<u>General Chemistry - STL</u>					
COD	25000 mg/L		06/30/14 15:19	DAW	SM 5220D 18Ed 04KS
Solids - total suspended solids (TSS)	2600 mg/L		06/30/14 13:00	DAS	SM 2540D 18Ed 04KS
<u>Nutrients - STL</u>					
Ammonia-N	330 mg/L		06/30/14 10:00	ACV	SM(18) 4500 NH3 F 04KS

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 Attn: Bill Abernathy

Date Received: 06/30/14 11:57
 Report Date: 07/01/14
 Customer #: 277310
 PO#: 4167739

Laboratory Results**General Chemistry - Quality Control**

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

Batch B410765 - 04-No Prep WC

Blank (B410765-BLK1)			Prepared & Analyzed: 06/30/14					
Solids - total suspended solids (TSS)	< 2.0	mg/L						
LCS (B410765-BS1)			Prepared & Analyzed: 06/30/14					
Solids - total suspended solids (TSS)	C	128	mg/L	100.0	128	82.9-110		
Duplicate (B410765-DUP1)			Prepared & Analyzed: 06/30/14					
Solids - total suspended solids (TSS)	M	1460	mg/L	1680			14	5
Duplicate (B410765-DUP2)			Prepared & Analyzed: 06/30/14					
Solids - total suspended solids (TSS)		3240	mg/L	3320			2	5

Batch B410790 - 04-No Prep WC

Calibration Blank (B410790-CCB1)			Prepared & Analyzed: 06/30/14					
COD		-5.10	mg/L					
Calibration Check (B410790-CCV1)			Prepared & Analyzed: 06/30/14					
COD		498	mg/L	500.0	100	95-105		
Duplicate (B410790-DUP1)			Prepared & Analyzed: 06/30/14					
COD		23100	mg/L	23500			1	20

Batch B410791 - 04-No Prep WC

Duplicate (B410791-DUP1)			Prepared & Analyzed: 06/30/14					
Solids - total volatile suspended solids		1400	mg/L	1420			1	5
Duplicate (B410791-DUP2)			Prepared & Analyzed: 06/30/14					
Solids - total volatile suspended solids		1400	mg/L	1420			1	5

Nutrients - Quality Control

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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Batch B410803 - 04-No Prep WC

Calibration Blank (B410803-CCB1)			Prepared & Analyzed: 06/30/14					
Ammonia-N		0.00	mg/L					
Calibration Check (B410803-CCV1)			Prepared & Analyzed: 06/30/14					
Ammonia-N		9.96	mg/L	10.00	100	90-110		
Matrix Spike (B410803-MS1)			Prepared & Analyzed: 06/30/14					
Ammonia-N		10.3	mg/L	10.00	0.540	98	80-120	

4064135



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Laboratory Results

Nutrients - Quality Control

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B410803 - 04-No Prep WC								
Matrix Spike Dup (B410803-MSD1)		Source: 4064118-01		Prepared & Analyzed: 06/30/14				
Ammonia-N	10.2	mg/L	10.00	0.540	97	80-120	1	20



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Laboratory Results

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Drinking Water Certifications: Kansas (E-10338); Missouri (870); Wisconsin (998284430); Iowa (240)
Wastewater Certifications: Arkansas (88-0677); Wisconsin (998284430); Iowa (240); Kansas (E-10335)
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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
Illinois Department of Public Health Bacteriological Analysis in Drinking Water Approved Laboratory Registry No. 171050
Drinking Water Certifications: Missouri (1050)
Missouri Department of Natural Resources

- M Analyte failed to meet the required acceptance criteria for duplicate analysis.
C The blank spike failed to meet the required acceptance criteria.

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

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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PO#: 4167739

Laboratory Results

Sample No: **4064136-01**
Sample Description: **Tank 3 Start-Up**

Collect Date: **06/30/14 10:40**
Matrix: **Waste Water Grab**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<u>Anions - STL</u>					
Nitrate-N	240 mg/L		06/30/14 13:42	DWM	EPA 300.0 R2.1 04KS
Nitrite-N	< 25 mg/L		06/30/14 13:42	DWM	EPA 300.0 R2.1 04KS
<u>General Chemistry - STL</u>					
COD	2700 mg/L		06/30/14 15:19	DAW	SM 5220D 18Ed 04KS
Solids - total suspended solids (TSS)	3100 mg/L		06/30/14 13:00	DAS	SM 2540D 18Ed 04KS
Solids - total volatile suspended solids	1300 mg/L		06/30/14 14:00	DAW	SM 2540E 18Ed*
<u>Nutrients - STL</u>					
Ammonia-N	0.32 mg/L		06/30/14 12:15	ACV	SM(18) 4500 NH3 F 04KS
<u>Soluble Metals - STL</u>					
Zinc	0.26 mg/L		07/01/14 12:15	WPS	EPA 200.7 R4.4 04KS
<u>Soluble Nutrients - STL</u>					
Phosphorus - ortho as P	1.7 mg/L		06/30/14 14:30	ACV	SM 4500P B E 18ed*
<u>Total Metals - STL</u>					
Zinc	2.3 mg/L		07/01/14 12:21	WPS	EPA 200.7 R4.4 04KS

Sample No: **4064136-02**
Sample Description: **Tank 2 Start-Up**

Collect Date: **06/30/14 10:20**
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<u>General Chemistry - STL</u>					
COD	23000 mg/L		06/30/14 15:19	DAW	SM 5220D 18Ed 04KS
Solids - total suspended solids (TSS)	3600 mg/L		06/30/14 13:00	DAS	SM 2540D 18Ed 04KS
<u>Nutrients - STL</u>					
Ammonia-N	270 mg/L		06/30/14 12:15	ACV	SM(18) 4500 NH3 F 04KS
<u>Soluble Metals - STL</u>					
Zinc	2.2 mg/L		07/01/14 12:22	WPS	EPA 200.7 R4.4 04KS
<u>Total Metals - STL</u>					
Zinc	4.2 mg/L		07/01/14 12:24	WPS	EPA 200.7 R4.4 04KS

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Laboratory Results**General Chemistry - Quality Control**

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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Batch B410765 - 04-No Prep WC

Blank (B410765-BLK1)			Prepared & Analyzed: 06/30/14					
Solids - total suspended solids (TSS)	< 2.0	mg/L						
LCS (B410765-BS1)			Prepared & Analyzed: 06/30/14					
Solids - total suspended solids (TSS)	C	128	mg/L	100.0	128	82.9-110		
Duplicate (B410765-DUP1)			Prepared & Analyzed: 06/30/14					
Solids - total suspended solids (TSS)	M	1460	mg/L	1680			14	5
Duplicate (B410765-DUP2)			Prepared & Analyzed: 06/30/14					
Solids - total suspended solids (TSS)		3240	mg/L	3320			2	5

Batch B410790 - 04-No Prep WC

Calibration Blank (B410790-CCB1)			Prepared & Analyzed: 06/30/14					
COD		-5.10	mg/L					
Calibration Check (B410790-CCV1)			Prepared & Analyzed: 06/30/14					
COD		498	mg/L	500.0	100	95-105		
Duplicate (B410790-DUP1)			Prepared & Analyzed: 06/30/14					
COD		23100	mg/L	23500			1	20

Batch B410791 - 04-No Prep WC

Duplicate (B410791-DUP1)			Prepared & Analyzed: 06/30/14					
Solids - total volatile suspended solids		1400	mg/L	1420			1	5
Duplicate (B410791-DUP2)			Prepared & Analyzed: 06/30/14					
Solids - total volatile suspended solids		1400	mg/L	1420			1	5

Nutrients - Quality Control

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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Batch B410803 - 04-No Prep WC

Calibration Blank (B410803-CCB1)			Prepared & Analyzed: 06/30/14					
Ammonia-N		0.00	mg/L					
Calibration Check (B410803-CCV1)			Prepared & Analyzed: 06/30/14					
Ammonia-N		9.96	mg/L	10.00	100	90-110		
Matrix Spike (B410803-MS1)			Prepared & Analyzed: 06/30/14					
Ammonia-N		10.3	mg/L	10.00	0.540	98	80-120	

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Laboratory Results**Nutrients - Quality Control**

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B410803 - 04-No Prep WC								
Matrix Spike Dup (B410803-MSD1)	Source: 4064118-01		Prepared & Analyzed: 06/30/14					
Ammonia-N	10.2	mg/L	10.00	0.540	97	80-120	1	20

Soluble Nutrients - Quality Control

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B410818 - 04-No Prep WC								
Calibration Blank (B410818-CCB1)			Prepared & Analyzed: 06/30/14					
Phosphorus - ortho as P	0.00	mg/L						
Calibration Check (B410818-CCV1)			Prepared & Analyzed: 06/30/14					
Phosphorus - ortho as P	0.535	mg/L	0.5000		107	90-110		
Matrix Spike (B410818-MS1)	Source: 4064136-01		Prepared & Analyzed: 06/30/14					
Phosphorus - ortho as P	2.19	mg/L	0.5000	1.72	94	80-120		
Matrix Spike Dup (B410818-MSD1)	Source: 4064136-01		Prepared & Analyzed: 06/30/14					
Phosphorus - ortho as P	2.29	mg/L	0.5000	1.72	114	80-120	4	20

Total Metals - Quality Control

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B410845 - 04 EPA 200.2 R2.8								
Blank (B410845-BLK1)			Prepared & Analyzed: 07/01/14					
Zinc	< 0.020	mg/L						
LCS (B410845-BS1)			Prepared & Analyzed: 07/01/14					
Zinc	0.220	mg/L	0.2000		110	85-115		

Soluble Metals - Quality Control

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B410845 - 04 EPA 200.2 R2.8								
Blank (B410845-BLK1)			Prepared & Analyzed: 07/01/14					
Zinc	< 0.020	mg/L						
LCS (B410845-BS1)			Prepared & Analyzed: 07/01/14					
Zinc	0.220	mg/L	0.2000		110	85-115		

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Laboratory Results**Soluble Metals - Quality Control**

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B410845 - 04 EPA 200.2 R2.8								
Matrix Spike (B410845-MS1)	Source: 4064136-01		Prepared & Analyzed: 07/01/14					
Zinc	1.38	mg/L	1.000	0.260	112	70-130		
Matrix Spike Dup (B410845-MSD1)	Source: 4064136-01		Prepared & Analyzed: 07/01/14					
Zinc	1.39	mg/L	1.000	0.260	113	70-130	1	20

Anions - Quality Control

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B410781 - 04-IC No Prep								
Calibration Blank (B410781-CCB1)			Prepared & Analyzed: 06/30/14					
Nitrite-N	0.00	mg/L						
Nitrate-N	0.00	mg/L						
Calibration Check (B410781-CCV1)			Prepared & Analyzed: 06/30/14					
Nitrite-N	2.06	mg/L	2.000		103	90-110		
Nitrate-N	1.21	mg/L	1.130		107	90-110		
Matrix Spike (B410781-MS1)	Source: 4064063-04		Prepared & Analyzed: 06/30/14					
Nitrate-N	120	mg/L	113.0	ND	107	80-120		
Nitrite-N	266	mg/L	250.0	ND	106	80-120		
Matrix Spike Dup (B410781-MSD1)	Source: 4064063-04		Prepared & Analyzed: 06/30/14					
Nitrate-N	120	mg/L	113.0	ND	104	80-120	4	20
Nitrite-N	254	mg/L	250.0	ND	102	80-120	4	20



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Missouri Department of Natural Resources

- M Analyte failed to meet the required acceptance criteria for duplicate analysis.
C The blank spike failed to meet the required acceptance criteria.

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

