



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: Bryan Sehie

Date Received: 07/01/13 16:50
Report Date: 07/08/13
Customer #: 277310

Laboratory Results

Sample No: **3070124-01**
Sample Description: **96-Hour**

Collect Date: **07/01/13 15:15**
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
General Chemistry - STL					
BOD	34000 mg/L		07/03/13 11:25	DAW	SM 5210B 18Ed 04KS
Volatile Organics - STL					
1,1,1-Trichloroethane	< 120 ug/L		07/02/13 23:20	BP	EPA 624 04KS
1,1,2,2-Tetrachloroethane	< 120 ug/L		07/02/13 23:20	BP	EPA 624 04KS
1,1,2-Trichloroethane	< 120 ug/L		07/02/13 23:20	BP	EPA 624 04KS
1,1-Dichloroethane	< 120 ug/L		07/02/13 23:20	BP	EPA 624 04KS
1,1-Dichloroethene	< 120 ug/L		07/02/13 23:20	BP	EPA 624 04KS
1,2-Dichlorobenzene	< 120 ug/L		07/02/13 23:20	BP	EPA 624 04KS
1,2-Dichloroethane	< 120 ug/L		07/02/13 23:20	BP	EPA 624 04KS
1,2-Dichloropropane	< 120 ug/L		07/02/13 23:20	BP	EPA 624 04KS
1,3-Dichlorobenzene	< 120 ug/L		07/02/13 23:20	BP	EPA 624 04KS
1,4-Dichlorobenzene	< 120 ug/L		07/02/13 23:20	BP	EPA 624 04KS
2-Chloroethylvinyl ether	< 120 ug/L		07/02/13 23:20	BP	EPA 624 04KS
Acrolein	< 620 ug/L		07/02/13 23:20	BP	EPA 624 04KS
Acrylonitrile	< 250 ug/L		07/02/13 23:20	BP	EPA 624 04KS
Benzene	< 120 ug/L		07/02/13 23:20	BP	EPA 624 04KS
Bromodichloromethane	< 120 ug/L		07/02/13 23:20	BP	EPA 624 04KS
Bromoform	< 120 ug/L		07/02/13 23:20	BP	EPA 624 04KS
Bromomethane	< 250 ug/L		07/02/13 23:20	BP	EPA 624 04KS
Carbon tetrachloride	< 120 ug/L		07/02/13 23:20	BP	EPA 624 04KS
Chlorobenzene	< 120 ug/L		07/02/13 23:20	BP	EPA 624 04KS
Chloroethane	< 250 ug/L		07/02/13 23:20	BP	EPA 624 04KS
Chloroform	< 120 ug/L		07/02/13 23:20	BP	EPA 624 04KS
Chloromethane	< 250 ug/L		07/02/13 23:20	BP	EPA 624 04KS
cis-1,3-Dichloropropene	< 120 ug/L		07/02/13 23:20	BP	EPA 624 04KS
Dibromochloromethane	< 120 ug/L		07/02/13 23:20	BP	EPA 624 04KS
Ethylbenzene	< 120 ug/L		07/02/13 23:20	BP	EPA 624 04KS
m,p-Xylene	< 250 ug/L		07/02/13 23:20	BP	EPA 624*
Methylene chloride	< 120 ug/L		07/02/13 23:20	BP	EPA 624 04KS
o-Xylene	< 120 ug/L		07/02/13 23:20	BP	EPA 624*
Tetrachloroethene	< 120 ug/L		07/02/13 23:20	BP	EPA 624 04KS
Toluene	< 120 ug/L		07/02/13 23:20	BP	EPA 624 04KS
trans-1,2-Dichloroethene	< 120 ug/L		07/02/13 23:20	BP	EPA 624 04KS

3070124



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Laboratory Results

Sample No: **3070124-01**
Sample Description: **96-Hour**

Collect Date: **07/01/13 15:15**
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<u>Volatile Organics - STL</u>					
trans-1,3-Dichloropropene	< 120 ug/L		07/02/13 23:20	BP	EPA 624 04KS
Trichloroethene	< 120 ug/L		07/02/13 23:20	BP	EPA 624 04KS
Trichlorofluoromethane	< 120 ug/L		07/02/13 23:20	BP	EPA 624 04KS
Vinyl chloride	< 120 ug/L		07/02/13 23:20	BP	EPA 624 04KS
Surrogate: 1,2-Dichloroethane-d4	91 % 65-134		07/02/13 23:20	BP	EPA 624
Surrogate: Toluene-d8	85 % 74.2-117		07/02/13 23:20	BP	EPA 624
Surrogate: Bromofluorobenzene	90 % 74.1-125		07/02/13 23:20	BP	EPA 624

Sample No: **3070124-01RE1**
Sample Description: **96-Hour**

Collect Date: **07/01/13 15:15**
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<u>Volatile Organics - STL</u>					
Acetone	54000 ug/L		07/04/13 01:34	BP	EPA 624*
Surrogate: 1,2-Dichloroethane-d4	83 % 65-134		07/04/13 01:34	BP	EPA 624
Surrogate: Toluene-d8	84 % 74.2-117		07/04/13 01:34	BP	EPA 624
Surrogate: Bromofluorobenzene	87 % 74.1-125		07/04/13 01:34	BP	EPA 624



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Laboratory Results

General Chemistry - Quality Control

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B311024 - 04-No Prep WC								
Blank (B311024-BLK1)			Prepared & Analyzed: 07/03/13					
BOD	< 6.0	mg/L						
LCS (B311024-BS1)			Prepared & Analyzed: 07/03/13					
BOD	194	mg/L	198.0		98	34.6-115.4		
Duplicate (B311024-DUP1)			Source: 3070374-01 Prepared & Analyzed: 07/03/13					
BOD	< 6.0	mg/L		ND				20

Volatile Organics - Quality Control

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B310941 - 04-No Prep VOA								
Blank (B310941-BLK1)			Prepared & Analyzed: 07/02/13					
1,1,1-Trichloroethane	< 5.0	ug/L						
1,1,2,2-Tetrachloroethane	< 5.0	ug/L						
1,1,2-Trichloroethane	< 5.0	ug/L						
1,1-Dichloroethane	< 5.0	ug/L						
1,1-Dichloroethene	< 5.0	ug/L						
1,2-Dichlorobenzene	< 5.0	ug/L						
1,2-Dichloroethane	< 5.0	ug/L						
1,2-Dichloropropane	< 5.0	ug/L						
1,3-Dichlorobenzene	< 5.0	ug/L						
1,4-Dichlorobenzene	< 5.0	ug/L						
2-Chloroethylvinyl ether	< 5.0	ug/L						
Acetone	< 10	ug/L						
Acrolein	< 25	ug/L						
Acrylonitrile	< 10	ug/L						
Benzene	< 5.0	ug/L						
Bromodichloromethane	< 5.0	ug/L						
Bromoform	< 5.0	ug/L						
Bromomethane	< 10	ug/L						
Carbon tetrachloride	< 5.0	ug/L						
Chlorobenzene	< 5.0	ug/L						
Chloroethane	< 10	ug/L						
Chloroform	< 5.0	ug/L						
Chloromethane	< 10	ug/L						
cis-1,3-Dichloropropene	< 5.0	ug/L						
Dibromochloromethane	< 5.0	ug/L						
Ethylbenzene	< 5.0	ug/L						

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Volatile Organics - Quality Control

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B310941 - 04-No Prep VOA								
Blank (B310941-BLK1)			Prepared & Analyzed: 07/02/13					
m,p-Xylene	< 10	ug/L						
Methylene chloride	< 5.0	ug/L						
o-Xylene	< 5.0	ug/L						
Tetrachloroethene	< 5.0	ug/L						
Toluene	< 5.0	ug/L						
trans-1,2-Dichloroethene	< 5.0	ug/L						
trans-1,3-Dichloropropene	< 5.0	ug/L						
Trichloroethene	< 5.0	ug/L						
Trichlorofluoromethane	< 5.0	ug/L						
Vinyl chloride	< 5.0	ug/L						
<i>Surrogate: 1,2-Dichloroethane-d4</i>	24.4	ug/L	30.00		81	65-134		
<i>Surrogate: Toluene-d8</i>	24.9	ug/L	30.00		83	74.2-117		
<i>Surrogate: Bromofluorobenzene</i>	25.2	ug/L	30.00		84	74.1-125		
LCS (B310941-BS1)			Prepared & Analyzed: 07/02/13					
1,1,1-Trichloroethane	18.0	ug/L	20.00		90	76-131		
1,1,2,2-Tetrachloroethane	19.1	ug/L	20.00		95	79-126		
1,1,2-Trichloroethane	19.8	ug/L	20.00		99	79-123		
1,1-Dichloroethane	18.4	ug/L	20.00		92	74-133		
1,1-Dichloroethene	18.0	ug/L	20.00		90	71-135		
1,2-Dichlorobenzene	18.1	ug/L	20.00		90	76-113		
1,2-Dichloroethane	19.3	ug/L	20.00		96	80-135		
1,2-Dichloropropane	20.0	ug/L	20.00		100	78-127		
1,3-Dichlorobenzene	19.7	ug/L	20.00		98	82-119		
1,4-Dichlorobenzene	18.7	ug/L	20.00		93	78-118		
2-Chloroethylvinyl ether	20.7	ug/L	20.00		104	66-138		
Acrolein	79.9	ug/L	100.0		80	38-156		
Acrylonitrile	20.5	ug/L	20.00		103	43-121		
Benzene	18.4	ug/L	20.00		92	84-114		
Bromodichloromethane	19.5	ug/L	20.00		97	82-116		
Bromoform	20.5	ug/L	20.00		102	65-115		
Bromomethane	13.0	ug/L	20.00		65	28-143		
Carbon tetrachloride	17.5	ug/L	20.00		88	72-131		
Chlorobenzene	18.8	ug/L	20.00		94	82-112		
Chloroethane	16.4	ug/L	20.00		82	41-126		
Chloroform	19.9	ug/L	20.00		100	78-124		
Chloromethane	15.1	ug/L	20.00		75	52-110		
cis-1,3-Dichloropropene	20.2	ug/L	20.00		101	82-116		
Dibromochloromethane	19.3	ug/L	20.00		97	83-119		
Ethylbenzene	18.4	ug/L	20.00		92	85-118		



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Volatile Organics - Quality Control

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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Batch B310941 - 04-No Prep VOA

LCS (B310941-BS1)		Prepared & Analyzed: 07/02/13						
m,p-Xylene	37.9	ug/L	40.00		95	80-111		
Methylene chloride	20.3	ug/L	20.00		102	78-140		
o-Xylene	19.2	ug/L	20.00		96	81-111		
Tetrachloroethene	16.4	ug/L	20.00		82	65-135		
Toluene	18.4	ug/L	20.00		92	81-120		
trans-1,2-Dichloroethene	18.2	ug/L	20.00		91	70-136		
trans-1,3-Dichloropropene	21.0	ug/L	20.00		105	82-113		
Trichloroethene	19.4	ug/L	20.00		97	84-125		
Trichlorofluoromethane	16.5	ug/L	20.00		82	70-138		
Vinyl chloride	17.9	ug/L	20.00		89	56-112		
Surrogate: 1,2-Dichloroethane-d4	27.3	ug/L	30.00		91	65.3-134		
Surrogate: Toluene-d8	26.2	ug/L	30.00		87	73.2-119		
Surrogate: Bromofluorobenzene	25.8	ug/L	30.00		86	77.8-123		

Matrix Spike (B310941-MS1)		Source: 3063809-01		Prepared & Analyzed: 07/02/13				
1,1,1-Trichloroethane	Q3	8.60	ug/L	20.00	ND	43	58-143	
1,1,2,2-Tetrachloroethane		20.1	ug/L	20.00	ND	101	70-133	
1,1,2-Trichloroethane	Q3	39.5	ug/L	20.00	ND	197	73-130	
1,1-Dichloroethane		14.6	ug/L	20.00	ND	73	55-146	
1,1-Dichloroethene	Q3, R	6.35	ug/L	20.00	ND	32	51-150	
1,2-Dichlorobenzene		17.6	ug/L	20.00	ND	88	62-120	
1,2-Dichloroethane		17.1	ug/L	20.00	ND	86	67-143	
1,2-Dichloropropane		17.4	ug/L	20.00	ND	87	66-134	
1,3-Dichlorobenzene		17.9	ug/L	20.00	ND	90	67-124	
1,4-Dichlorobenzene		17.8	ug/L	20.00	ND	89	66-123	
Acrolein	Q1	169	ug/L	100.0	ND	169	14-156	
Acrylonitrile	Q1	23.3	ug/L	20.00	ND	117	46-116	
Benzene	Q3	13.3	ug/L	20.00	ND	66	69-126	
Bromodichloromethane		16.4	ug/L	20.00	ND	82	67-128	
Bromoform		21.5	ug/L	20.00	ND	108	42-132	
Bromomethane	Q1, R	32.2	ug/L	20.00	ND	161	5-138	
Carbon tetrachloride	Q3	4.73	ug/L	20.00	ND	24	53-151	
Chlorobenzene		17.0	ug/L	20.00	ND	85	67-124	
Chloroethane	Q3	< 10	ug/L	20.00	ND		35-123	
Chloroform		14.8	ug/L	20.00	ND	74	41-155	
Chloromethane	Q3	7.28	ug/L	20.00	ND	36	39-120	
cis-1,3-Dichloropropene		17.2	ug/L	20.00	ND	86	68-126	
Dibromochloromethane		18.7	ug/L	20.00	ND	93	68-131	
Ethylbenzene		14.1	ug/L	20.00	ND	70	68-128	
m,p-Xylene		29.1	ug/L	40.00	ND	73	64-122	



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Laboratory Results

Volatile Organics - Quality Control

Analyte		Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B310941 - 04-No Prep VOA									
Matrix Spike (B310941-MS1)		Source: 3063809-01			Prepared & Analyzed: 07/02/13				
Methylene chloride		19.3	ug/L	20.00	ND	97	70-150		
o-Xylene		16.1	ug/L	20.00	0.502	78	65-122		
Tetrachloroethene	Q3	8.28	ug/L	20.00	ND	41	42-132		
Toluene		15.1	ug/L	20.00	ND	75	64-137		
trans-1,2-Dichloroethene	Q3	10.2	ug/L	20.00	ND	51	57-145		
trans-1,3-Dichloropropene		19.6	ug/L	20.00	ND	98	66-121		
Trichloroethene	Q3	11.0	ug/L	20.00	ND	55	69-131		
Trichlorofluoromethane	Q3	2.65	ug/L	20.00	ND	13	36-162		
Vinyl chloride	Q3	3.46	ug/L	20.00	ND	17	24-137		
Surrogate: 1,2-Dichloroethane-d4		23.8	ug/L	30.00		79	63.3-137		
Surrogate: Toluene-d8		25.7	ug/L	30.00		86	71-122		
Surrogate: Bromofluorobenzene		27.3	ug/L	30.00		91	74.6-123		
Matrix Spike Dup (B310941-MSD1)		Source: 3063809-01			Prepared & Analyzed: 07/02/13				
1,1,1-Trichloroethane	Q3	6.18	ug/L	20.00	ND	31	58-143	33	40
1,1,2,2-Tetrachloroethane		14.8	ug/L	20.00	ND	74	70-133	31	40
1,1,2-Trichloroethane	Q3	30.5	ug/L	20.00	ND	153	73-130	26	40
1,1-Dichloroethane		11.0	ug/L	20.00	ND	55	55-146	29	40
1,1-Dichloroethene	Q3, R	4.15	ug/L	20.00	ND	21	51-150	42	40
1,2-Dichlorobenzene		13.5	ug/L	20.00	ND	67	62-120	26	40
1,2-Dichloroethane		14.5	ug/L	20.00	ND	73	67-143	16	40
1,2-Dichloropropane		13.5	ug/L	20.00	ND	67	66-134	26	40
1,3-Dichlorobenzene		13.5	ug/L	20.00	ND	68	67-124	28	40
1,4-Dichlorobenzene		13.8	ug/L	20.00	ND	69	66-123	25	40
Acrolein		140	ug/L	100.0	ND	140	14-156	19	40
Acrylonitrile		21.9	ug/L	20.00	ND	109	46-116	6	40
Benzene	Q3	9.99	ug/L	20.00	ND	50	69-126	28	40
Bromodichloromethane	Q2	13.1	ug/L	20.00	ND	66	67-128	23	40
Bromoform		16.1	ug/L	20.00	ND	81	42-132	29	40
Bromomethane	R	5.97	ug/L	20.00	ND	30	5-138	137	40
Carbon tetrachloride	Q3	3.70	ug/L	20.00	ND	18	53-151	25	40
Chlorobenzene	Q2	12.8	ug/L	20.00	ND	64	67-124	28	40
Chloroethane	Q3	< 10	ug/L	20.00	ND		35-123		40
Chloroform		11.6	ug/L	20.00	ND	58	41-155	24	40
Chloromethane	Q3	6.02	ug/L	20.00	ND	30	39-120	19	40
cis-1,3-Dichloropropene	Q2	13.3	ug/L	20.00	ND	66	68-126	26	40
Dibromochloromethane		14.4	ug/L	20.00	ND	72	68-131	25	40
Ethylbenzene	Q2	10.8	ug/L	20.00	ND	54	68-128	27	40
m,p-Xylene	Q2	22.3	ug/L	40.00	ND	56	64-122	26	40
Methylene chloride		14.1	ug/L	20.00	ND	70	70-150	31	40



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Laboratory Results

Volatile Organics - Quality Control

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B310941 - 04-No Prep VOA								
Matrix Spike Dup (B310941-MSD1)		Source: 3063809-01		Prepared & Analyzed: 07/02/13				
o-Xylene	Q2 12.2	ug/L	20.00	0.502	58	65-122	28	40
Tetrachloroethene	Q3 6.04	ug/L	20.00	ND	30	42-132	31	40
Toluene	Q2 11.2	ug/L	20.00	ND	56	64-137	29	40
trans-1,2-Dichloroethene	Q3 8.08	ug/L	20.00	ND	40	57-145	23	40
trans-1,3-Dichloropropene	15.9	ug/L	20.00	ND	79	66-121	21	40
Trichloroethene	Q3 8.10	ug/L	20.00	ND	40	69-131	30	40
Trichlorofluoromethane	Q3 1.93	ug/L	20.00	ND	10	36-162	32	40
Vinyl chloride	Q3 2.46	ug/L	20.00	ND	12	24-137	34	40
Surrogate: 1,2-Dichloroethane-d4	20.5	ug/L	30.00		68	63.3-137		
Surrogate: Toluene-d8	Q2 20.1	ug/L	30.00		67	71-122		
Surrogate: Bromofluorobenzene	Q2 20.8	ug/L	30.00		69	74.6-123		
Batch B311045 - 04-No Prep VOA								
Blank (B311045-BLK1)		Prepared & Analyzed: 07/03/13						
1,1,1-Trichloroethane	< 5.0	ug/L						
1,1,2,2-Tetrachloroethane	< 5.0	ug/L						
1,1,2-Trichloroethane	< 5.0	ug/L						
1,1-Dichloroethane	< 5.0	ug/L						
1,1-Dichloroethene	< 5.0	ug/L						
1,2-Dichlorobenzene	< 5.0	ug/L						
1,2-Dichloroethane	< 5.0	ug/L						
1,2-Dichloropropane	< 5.0	ug/L						
1,3-Dichlorobenzene	< 5.0	ug/L						
1,4-Dichlorobenzene	< 5.0	ug/L						
2-Chloroethylvinyl ether	< 5.0	ug/L						
Acetone	< 10	ug/L						
Acrolein	< 25	ug/L						
Acrylonitrile	< 10	ug/L						
Benzene	< 5.0	ug/L						
Bromodichloromethane	< 5.0	ug/L						
Bromoform	< 5.0	ug/L						
Bromomethane	< 10	ug/L						
Carbon tetrachloride	< 5.0	ug/L						
Chlorobenzene	< 5.0	ug/L						
Chloroethane	< 10	ug/L						
Chloroform	< 5.0	ug/L						
Chloromethane	< 10	ug/L						
cis-1,3-Dichloropropene	< 5.0	ug/L						
Dibromochloromethane	< 5.0	ug/L						



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Report Date: 07/08/13
Customer #: 277310

Laboratory Results

Volatile Organics - Quality Control

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B311045 - 04-No Prep VOA								
Blank (B311045-BLK1)			Prepared & Analyzed: 07/03/13					
Ethylbenzene	< 5.0	ug/L						
m,p-Xylene	< 10	ug/L						
Methylene chloride	< 5.0	ug/L						
o-Xylene	< 5.0	ug/L						
Tetrachloroethene	< 5.0	ug/L						
Toluene	< 5.0	ug/L						
trans-1,2-Dichloroethene	< 5.0	ug/L						
trans-1,3-Dichloropropene	< 5.0	ug/L						
Trichloroethene	< 5.0	ug/L						
Trichlorofluoromethane	< 5.0	ug/L						
Vinyl chloride	< 5.0	ug/L						
<i>Surrogate: 1,2-Dichloroethane-d4</i>	26.0	ug/L	30.00		87	65-134		
<i>Surrogate: Toluene-d8</i>	25.9	ug/L	30.00		86	74.2-117		
<i>Surrogate: Bromofluorobenzene</i>	26.0	ug/L	30.00		87	74.1-125		
LCS (B311045-BS1)			Prepared & Analyzed: 07/03/13					
1,1,1-Trichloroethane	20.8	ug/L	20.00		104	76-131		
1,1,2,2-Tetrachloroethane	19.8	ug/L	20.00		99	79-126		
1,1,2-Trichloroethane	21.0	ug/L	20.00		105	79-123		
1,1-Dichloroethane	20.3	ug/L	20.00		102	74-133		
1,1-Dichloroethene	21.4	ug/L	20.00		107	71-135		
1,2-Dichlorobenzene	19.8	ug/L	20.00		99	76-113		
1,2-Dichloroethane	20.1	ug/L	20.00		101	80-135		
1,2-Dichloropropane	20.5	ug/L	20.00		103	78-127		
1,3-Dichlorobenzene	21.4	ug/L	20.00		107	82-119		
1,4-Dichlorobenzene	21.3	ug/L	20.00		107	78-118		
2-Chloroethylvinyl ether	21.1	ug/L	20.00		105	66-138		
Acrolein	70.1	ug/L	100.0		70	38-156		
Acrylonitrile	17.0	ug/L	20.00		85	43-121		
Benzene	20.1	ug/L	20.00		101	84-114		
Bromodichloromethane	20.0	ug/L	20.00		100	82-116		
Bromoform	21.7	ug/L	20.00		109	65-115		
Bromomethane	14.8	ug/L	20.00		74	28-143		
Carbon tetrachloride	21.0	ug/L	20.00		105	72-131		
Chlorobenzene	21.6	ug/L	20.00		108	82-112		
Chloroethane	17.5	ug/L	20.00		87	41-126		
Chloroform	21.1	ug/L	20.00		105	78-124		
Chloromethane	14.0	ug/L	20.00		70	52-110		
cis-1,3-Dichloropropene	20.6	ug/L	20.00		103	82-116		
Dibromochloromethane	21.2	ug/L	20.00		106	83-119		



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Bridgeton Landfill
13570 St Charles Rock Road
St. Louis, MO 63044
Attn: Bryan Sehie

Date Received: 07/01/13 16:50
Report Date: 07/08/13
Customer #: 277310

Laboratory Results

Volatile Organics - Quality Control

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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Batch B311045 - 04-No Prep VOA

LCS (B311045-BS1)		Prepared & Analyzed: 07/03/13						
Ethylbenzene	20.9	ug/L	20.00		104	85-118		
m,p-Xylene	42.0	ug/L	40.00		105	80-111		
Methylene chloride	21.7	ug/L	20.00		109	78-140		
o-Xylene	21.8	ug/L	20.00		109	81-111		
Tetrachloroethene	23.7	ug/L	20.00		119	65-135		
Toluene	20.5	ug/L	20.00		103	81-120		
trans-1,2-Dichloroethene	20.5	ug/L	20.00		103	70-136		
trans-1,3-Dichloropropene	23.1	ug/L	20.00	C, X	116	82-113		
Trichloroethene	20.8	ug/L	20.00		104	84-125		
Trichlorofluoromethane	19.8	ug/L	20.00		99	70-138		
Vinyl chloride	18.9	ug/L	20.00		95	56-112		
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>24.9</i>	<i>ug/L</i>	<i>30.00</i>		<i>83</i>	<i>65.3-134</i>		
<i>Surrogate: Toluene-d8</i>	<i>24.8</i>	<i>ug/L</i>	<i>30.00</i>		<i>83</i>	<i>73.2-119</i>		
<i>Surrogate: Bromofluorobenzene</i>	<i>26.1</i>	<i>ug/L</i>	<i>30.00</i>		<i>87</i>	<i>77.8-123</i>		

Matrix Spike (B311045-MS1)		Source: 3063904-02		Prepared: 07/03/13 Analyzed: 07/04/13				
1,1,1-Trichloroethane	20.1	ug/L	20.00	ND	101	58-143		
1,1,2,2-Tetrachloroethane	20.2	ug/L	20.00	ND	101	70-133		
1,1,2-Trichloroethane	20.8	ug/L	20.00	ND	104	73-130		
1,1-Dichloroethane	19.9	ug/L	20.00	ND	100	55-146		
1,1-Dichloroethene	21.4	ug/L	20.00	ND	107	51-150		
1,2-Dichlorobenzene	20.8	ug/L	20.00	ND	104	62-120		
1,2-Dichloroethane	20.5	ug/L	20.00	ND	103	67-143		
1,2-Dichloropropane	20.7	ug/L	20.00	ND	104	66-134		
1,3-Dichlorobenzene	21.3	ug/L	20.00	ND	107	67-124		
1,4-Dichlorobenzene	20.7	ug/L	20.00	ND	103	66-123		
Acrolein	76.5	ug/L	100.0	ND	76	14-156		
Acrylonitrile	17.8	ug/L	20.00	ND	89	46-116		
Benzene	20.4	ug/L	20.00	ND	102	69-126		
Bromodichloromethane	21.0	ug/L	20.00	ND	105	67-128		
Bromoform	20.8	ug/L	20.00	ND	104	42-132		
Bromomethane	15.8	ug/L	20.00	ND	79	5-138		
Carbon tetrachloride	21.4	ug/L	20.00	ND	107	53-151		
Chlorobenzene	21.6	ug/L	20.00	ND	108	67-124		
Chloroethane	20.7	ug/L	20.00	ND	104	35-123		
Chloroform	32.3	ug/L	20.00	12.9	97	41-155		
Chloromethane	15.9	ug/L	20.00	ND	80	39-120		
cis-1,3-Dichloropropene	21.1	ug/L	20.00	ND	105	68-126		
Dibromochloromethane	19.8	ug/L	20.00	ND	99	68-131		
Ethylbenzene	21.2	ug/L	20.00	ND	106	68-128		



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Bridgeton Landfill
13570 St Charles Rock Road
St. Louis, MO 63044
Attn: Bryan Sehie

Date Received: 07/01/13 16:50
Report Date: 07/08/13
Customer #: 277310

Laboratory Results

Volatile Organics - Quality Control

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B311045 - 04-No Prep VOA								
Matrix Spike (B311045-MS1)		Source: 3063904-02		Prepared: 07/03/13 Analyzed: 07/04/13				
m,p-Xylene	42.5	ug/L	40.00	ND	106	64-122		
Methylene chloride	22.6	ug/L	20.00	ND	113	70-150		
o-Xylene	21.2	ug/L	20.00	ND	106	65-122		
Tetrachloroethene	13.7	ug/L	20.00	ND	68	42-132		
Toluene	22.3	ug/L	20.00	ND	112	64-137		
trans-1,2-Dichloroethene	20.8	ug/L	20.00	ND	104	57-145		
trans-1,3-Dichloropropene	22.9	ug/L	20.00	ND	115	66-121		
Trichloroethene	19.7	ug/L	20.00	ND	98	69-131		
Trichlorofluoromethane	20.4	ug/L	20.00	ND	102	36-162		
Vinyl chloride	19.6	ug/L	20.00	ND	98	24-137		
Surrogate: 1,2-Dichloroethane-d4	25.7	ug/L	30.00		86	63.3-137		
Surrogate: Toluene-d8	26.6	ug/L	30.00		89	71-122		
Surrogate: Bromofluorobenzene	27.1	ug/L	30.00		90	74.6-123		
Matrix Spike Dup (B311045-MSD1)		Source: 3063904-02		Prepared: 07/03/13 Analyzed: 07/04/13				
1,1,1-Trichloroethane	17.1	ug/L	20.00	ND	85	58-143	16	40
1,1,2,2-Tetrachloroethane	20.5	ug/L	20.00	ND	103	70-133	2	40
1,1,2-Trichloroethane	17.9	ug/L	20.00	ND	90	73-130	15	40
1,1-Dichloroethane	18.4	ug/L	20.00	ND	92	55-146	8	40
1,1-Dichloroethene	17.6	ug/L	20.00	ND	88	51-150	19	40
1,2-Dichlorobenzene	17.5	ug/L	20.00	ND	88	62-120	17	40
1,2-Dichloroethane	17.6	ug/L	20.00	ND	88	67-143	15	40
1,2-Dichloropropane	17.9	ug/L	20.00	ND	90	66-134	15	40
1,3-Dichlorobenzene	19.0	ug/L	20.00	ND	95	67-124	12	40
1,4-Dichlorobenzene	17.6	ug/L	20.00	ND	88	66-123	16	40
Acrolein	75.4	ug/L	100.0	ND	75	14-156	1	40
Acrylonitrile	18.4	ug/L	20.00	ND	92	46-116	4	40
Benzene	17.3	ug/L	20.00	ND	86	69-126	16	40
Bromodichloromethane	18.0	ug/L	20.00	ND	90	67-128	15	40
Bromoform	18.8	ug/L	20.00	ND	94	42-132	10	40
Bromomethane	13.2	ug/L	20.00	ND	66	5-138	17	40
Carbon tetrachloride	17.7	ug/L	20.00	ND	89	53-151	19	40
Chlorobenzene	17.7	ug/L	20.00	ND	88	67-124	20	40
Chloroethane	16.2	ug/L	20.00	ND	81	35-123	25	40
Chloroform	29.7	ug/L	20.00	12.9	84	41-155	9	40
Chloromethane	12.1	ug/L	20.00	ND	60	39-120	28	40
cis-1,3-Dichloropropene	17.4	ug/L	20.00	ND	87	68-126	19	40
Dibromochloromethane	17.7	ug/L	20.00	ND	88	68-131	11	40
Ethylbenzene	17.5	ug/L	20.00	ND	88	68-128	19	40
m,p-Xylene	34.7	ug/L	40.00	ND	87	64-122	20	40



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St. Louis, MO 63044
Attn: Bryan Sehie

Date Received: 07/01/13 16:50
Report Date: 07/08/13
Customer #: 277310

Laboratory Results

Volatile Organics - Quality Control

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B311045 - 04-No Prep VOA								
Matrix Spike Dup (B311045-MSD1)	Source: 3063904-02		Prepared: 07/03/13 Analyzed: 07/04/13					
Methylene chloride	19.5	ug/L	20.00	ND	97	70-150	15	40
o-Xylene	17.0	ug/L	20.00	ND	85	65-122	22	40
Tetrachloroethene	11.4	ug/L	20.00	ND	57	42-132	18	40
Toluene	18.3	ug/L	20.00	ND	91	64-137	20	40
trans-1,2-Dichloroethene	17.1	ug/L	20.00	ND	85	57-145	20	40
trans-1,3-Dichloropropene	19.0	ug/L	20.00	ND	95	66-121	19	40
Trichloroethene	18.9	ug/L	20.00	ND	94	69-131	4	40
Trichlorofluoromethane	16.5	ug/L	20.00	ND	83	36-162	21	40
Vinyl chloride	18.2	ug/L	20.00	ND	91	24-137	8	40
Surrogate: 1,2-Dichloroethane-d4	27.1	ug/L	30.00		90	63.3-137		
Surrogate: Toluene-d8	26.3	ug/L	30.00		88	71-122		
Surrogate: Bromofluorobenzene	27.5	ug/L	30.00		92	74.6-123		



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Laboratory Results

Notes

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

- X Analyte failed blank spike with high bias; undetected in all samples
- R MS/MSD Failed %RPD
- Q3 MS/MSD both failed %R
- Q2 MSD failed %R
- Q1 MS Failed %R
- C The blank spike failed to meet the required acceptance criteria.

Certified by: Roxann Shull, Client Services Supervisor



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

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

State where samples collected MO

(Instructions/Sample Acceptance Policy on Reverse)

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

1	CLIENT	PROJECT NUMBER			P. O. NUMBER			MEANS SHIPPED			3	ANALYSIS REQUESTED						4	(FOR LAB USE ONLY)	
	ADDRESS	PHONE NUMBER			FAX NUMBER			EMAIL ADDRESS											LOGIN #	REMARKS
	CITY	SAMPLER			MATRIX TYPES:			BOD EPA 624 VOCs 1 2												
	STATE	SAMPLER'S SIGNATURE			WW-WASTEWATER DW-DRINKING WATER GW-GROUND WATER WWSL-SLUDGE NAS-SOLID L'CHT- L'FACHATE NAL-NONAQUEOUS SOIL-SOILS															
	ZIP																			
	CONTACT PERSON																			
2	SAMPLE DESCRIPTION AS YOU WANT ON REPORT				DATE COLLECTED	TIME COLLECTED	SAMPLE TYPE	MATRIX TYPE	Bottle Count											
	96-hour				7/1/13	1515	X	ww	3											
5										6										
TURNAROUND TIME (RUSH TAT IS SUBJECT TO PDC LABS APPROVAL AND SURCHARGE) NORMAL (8-10 Bus. Days) RUSH (5 Bus. Days) Fastrak™ (3 Bus. Days) <u>1-2 Bus. Days</u> Same Day DATE DUE _____										The sample temperature will be measured upon receipt at the lab. By initialing this area, you request that the lab notify you, before proceeding with analysis, if the sample temperature is outside of the range of 0.1-6.0°C. By not initialing this area, you allow the lab to proceed with analytical testing regardless of the sample temperature.										
RESULTS BY: <u>E-MAIL</u> FAX PHONE CALL PHONE/FAX# IF DIFFERENT FROM ABOVE																				
7	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY:	DATE	TIME	8						COMMENTS: (FOR LAB USE ONLY)							
		7/1/13	1650	<i>Heather Cullbert</i>	7/1/13	16:50							SAMPLE TEMPERATURE UPON RECEIPT CHILL PROCESS STARTED PRIOR TO RECEIPT SAMPLE(S) RECEIVED ON ICE PROPER BOTTLES RECEIVED IN GOOD CONDITION BOTTLES FILLED WITH ADEQUATE VOLUME SAMPLES RECEIVED WITHIN HOLD TIME(S) (EXCLUDES TYPICAL FIELD PARAMETERS) DATE AND TIME TAKEN FROM SAMPLE BOTTLE							
	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY:	DATE	TIME							OR N Y DR N Y DR N Y DR N							
	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY:	DATE	TIME														

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

PAGE 1 OF 1



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Bridgeton Landfill
13570 St Charles Rock Road
St. Louis, MO 63044
Attn: Kevin Kamp

Date Received: 07/10/13 12:08
Report Date: 07/23/13
Customer #: 277310

Revised Laboratory Results

Sample No: **3071296-01**
Sample Description: **Force Main Influent**

Collect Date: **07/09/13 19:40**
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<u>Anions - STL</u>					
Chloride	4700 mg/L		07/10/13 14:47	DWM	EPA 300.0 R2.1 04KS
Nitrate-N	53 mg/L		07/10/13 16:33	DWM	EPA 300.0 R2.1 04KS
Nitrite-N	< 50 mg/L		07/10/13 16:33	DWM	EPA 300.0 R2.1 04KS
<u>General Chemistry - STL</u>					
BOD	40000 mg/L		07/10/13 14:00	DAW	SM 5210B 18Ed 04KS
BOD - soluble	36000 mg/L		07/10/13 14:00	DAW	SM 5210B 18Ed*
COD	53000 mg/L		07/10/13 15:00	DAW	SM 5220D 18Ed 04KS
Conductivity	23000 umhos/cm		07/10/13 14:45	DAW	SM 2510B 18Ed*
Oil & Grease - total	< 30 mg/L		07/12/13 08:30	mep	EPA 1664A 04KS
pH	5.6 pH Units	H	07/10/13 13:30	ACV	SM 4500-H B 04KS 18Ed - EPA 150.1 - SW 9040B
Phenol	70 mg/L	Q4	07/16/13 11:15	DWM	EPA 420.1 04KS
Solids - total dissolved solids (TDS)	43000 mg/L		07/10/13 13:15	DAW	SM 2540C 18Ed*
Solids - total suspended solids (TSS)	1900 mg/L		07/10/13 16:00	DAW	SM 2540D 18Ed 04KS
<u>Nutrients - STL</u>					
Ammonia-N	800 mg/L		07/10/13 12:00	ACV	SM(18) 4500 NH3 04KS F
Phosphorus - total as P	0.60 mg/L		07/15/13 11:00	ACV	SM 4500P B E 04KS 18ed
<u>Semivolatile Organics - STL</u>					
1,2,4-Trichlorobenzene	< 1000 ug/L		07/11/13 15:38	jk	EPA 625 04KS
1,2-Dichlorobenzene	< 1000 ug/L		07/11/13 15:38	jk	EPA 625*
1,3-Dichlorobenzene	< 1000 ug/L		07/11/13 15:38	jk	EPA 625*
1,4-Dichlorobenzene	< 1000 ug/L		07/11/13 15:38	jk	EPA 625*
2,4,5-Trichlorophenol	< 1000 ug/L		07/11/13 15:38	jk	EPA 625*
2,4,6-Trichlorophenol	< 1000 ug/L		07/11/13 15:38	jk	EPA 625 04KS
2,4-Dichlorophenol	< 1000 ug/L		07/11/13 15:38	jk	EPA 625 04KS
2,4-Dimethylphenol	< 1000 ug/L		07/11/13 15:38	jk	EPA 625 04KS
2,4-Dinitrophenol	< 1000 ug/L		07/11/13 15:38	jk	EPA 625 04KS
2,4-Dinitrotoluene	< 1000 ug/L		07/11/13 15:38	jk	EPA 625 04KS
2,6-Dimethylaniline	< 500 ug/L		07/11/13 15:38	jk	EPA 625*
2,6-Dinitrotoluene	< 1000 ug/L		07/11/13 15:38	jk	EPA 625 04KS
2-Chloronaphthalene	< 1000 ug/L		07/11/13 15:38	jk	EPA 625 04KS



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Bridgeton Landfill
13570 St Charles Rock Road
St. Louis, MO 63044
Attn: Kevin Kamp

Date Received: 07/10/13 12:08
Report Date: 07/23/13
Customer #: 277310

Revised Laboratory Results

Sample No: **3071296-01**
Sample Description: **Force Main Influent**

Collect Date: **07/09/13 19:40**
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
Semivolatile Organics - STL					
2-Chlorophenol	< 1000 ug/L		07/11/13 15:38	jk	EPA 625 04KS
2-Nitrophenol	< 1000 ug/L		07/11/13 15:38	jk	EPA 625 04KS
3,3'-Dichlorobenzidine	< 1000 ug/L		07/11/13 15:38	jk	EPA 625 04KS
4,6-Dinitro-2-methylphenol	< 1000 ug/L		07/11/13 15:38	jk	EPA 625*
4-Bromophenylphenyl ether	< 1000 ug/L		07/11/13 15:38	jk	EPA 625 04KS
4-Chloro-3-methylphenol	< 1000 ug/L		07/11/13 15:38	jk	EPA 625 04KS
4-Chlorophenylphenyl ether	< 1000 ug/L		07/11/13 15:38	jk	EPA 625 04KS
4-Nitrophenol	< 1000 ug/L		07/11/13 15:38	jk	EPA 625 04KS
Acenaphthene	< 1000 ug/L		07/11/13 15:38	jk	EPA 625 04KS
Acenaphthylene	< 1000 ug/L		07/11/13 15:38	jk	EPA 625 04KS
Anthracene	< 1000 ug/L		07/11/13 15:38	jk	EPA 625 04KS
Azobenzene	< 1000 ug/L		07/11/13 15:38	jk	EPA 625*
Benzidine	< 1000 ug/L		07/11/13 15:38	jk	EPA 625*
Benzo(a)anthracene	< 1000 ug/L		07/11/13 15:38	jk	EPA 625 04KS
Benzo(a)pyrene	< 1000 ug/L		07/11/13 15:38	jk	EPA 625 04KS
Benzo(b&k)fluoranthene	< 1000 ug/L		07/11/13 15:38	jk	EPA 625 04KS
Benzo(b)fluoranthene	< 1000 ug/L		07/11/13 15:38	jk	EPA 625 04KS
Benzo(g,h,i)perylene	< 1000 ug/L		07/11/13 15:38	jk	EPA 625 04KS
Benzo(k)fluoranthene	< 1000 ug/L		07/11/13 15:38	jk	EPA 625 04KS
Bis(2-chloroethoxy) methane	< 1000 ug/L		07/11/13 15:38	jk	EPA 625 04KS
Bis(2-chloroethyl) ether	< 1000 ug/L		07/11/13 15:38	jk	EPA 625 04KS
Bis(2-chloroisopropyl) ether	< 1000 ug/L		07/11/13 15:38	jk	EPA 625 04KS
Bis(2-ethylhexyl) phthalate	< 1000 ug/L		07/11/13 15:38	jk	EPA 625 04KS
Butyl benzyl phthalate	< 1000 ug/L		07/11/13 15:38	jk	EPA 625 04KS
Chrysene	< 1000 ug/L		07/11/13 15:38	jk	EPA 625 04KS
Dibenzo(a,h)anthracene	< 1000 ug/L		07/11/13 15:38	jk	EPA 625 04KS
Diethyl phthalate	< 1000 ug/L		07/11/13 15:38	jk	EPA 625 04KS
Dimethyl phthalate	< 1000 ug/L		07/11/13 15:38	jk	EPA 625 04KS
Di-n-butyl phthalate	< 1000 ug/L		07/11/13 15:38	jk	EPA 625 04KS
Di-n-octyl phthalate	< 1000 ug/L		07/11/13 15:38	jk	EPA 625 04KS
Diphenylamine	< 1000 ug/L		07/11/13 15:38	jk	EPA 625 04KS
Fluoranthene	< 1000 ug/L		07/11/13 15:38	jk	EPA 625 04KS
Fluorene	< 1000 ug/L		07/11/13 15:38	jk	EPA 625 04KS



PDC Laboratories, Inc.

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Bridgeton Landfill
13570 St Charles Rock Road
St. Louis, MO 63044
Attn: Kevin Kamp

Date Received: 07/10/13 12:08
Report Date: 07/23/13
Customer #: 277310

Revised Laboratory Results

Sample No: **3071296-01**
Sample Description: **Force Main Influent**

Collect Date: **07/09/13 19:40**
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
Semivolatile Organics - STL					
Hexachlorobenzene	< 1000 ug/L		07/11/13 15:38	jk	EPA 625 04KS
Hexachlorobutadiene	< 1000 ug/L		07/11/13 15:38	jk	EPA 625 04KS
Hexachlorocyclopentadiene	< 1000 ug/L		07/11/13 15:38	jk	EPA 625 04KS
Hexachloroethane	< 1000 ug/L		07/11/13 15:38	jk	EPA 625 04KS
Indeno(1,2,3-cd)pyrene	< 1000 ug/L		07/11/13 15:38	jk	EPA 625 04KS
Isophorone	< 1000 ug/L		07/11/13 15:38	jk	EPA 625 04KS
Naphthalene	< 1000 ug/L		07/11/13 15:38	jk	EPA 625 04KS
Nitrobenzene	< 1000 ug/L		07/11/13 15:38	jk	EPA 625 04KS
N-Nitrosodimethylamine	< 1000 ug/L		07/11/13 15:38	jk	EPA 625 04KS
N-Nitrosodi-n-propylamine	< 1000 ug/L		07/11/13 15:38	jk	EPA 625 04KS
Pentachlorophenol	< 1000 ug/L		07/11/13 15:38	jk	EPA 625 04KS
Phenanthrene	< 1000 ug/L		07/11/13 15:38	jk	EPA 625 04KS
Phenol	5810 ug/L		07/11/13 15:38	jk	EPA 625 04KS
Pyrene	< 1000 ug/L		07/11/13 15:38	jk	EPA 625 04KS
Surrogate: 2-Fluorophenol	15 % 10-101	S	07/11/13 15:38	jk	EPA 625
Surrogate: Phenol- d5	6 % 10-154	S	07/11/13 15:38	jk	EPA 625
Surrogate: Nitrobenzene-d5	186 % 10-119	S	07/11/13 15:38	jk	EPA 625
Surrogate: 2-Fluorobiphenyl	30 % 10-98	S	07/11/13 15:38	jk	EPA 625
Surrogate: 2,4,6-Tribromophenol	12 % 10-69	S	07/11/13 15:38	jk	EPA 625
Surrogate: p-Terphenyl-d14	34 % 11-97	S	07/11/13 15:38	jk	EPA 625
Total Metals - STL					
Aluminum	4.0 mg/L		07/11/13 13:05	WPS	EPA 200.7 R4.4*
Mercury	0.0059 mg/L		07/15/13 12:25	WPS	EPA 245.1 R3.0 / 04KS SW 7470A
Arsenic	0.57 mg/L		07/11/13 13:05	WPS	EPA 200.7 R4.4 04KS
Barium	2.9 mg/L		07/11/13 13:05	WPS	EPA 200.7 R4.4 04KS
Cadmium	0.078 mg/L		07/11/13 13:05	WPS	EPA 200.7 R4.4 04KS
Chromium	0.31 mg/L		07/11/13 13:05	WPS	EPA 200.7 R4.4 04KS
Cobalt	0.060 mg/L		07/11/13 13:05	WPS	EPA 200.7 R4.4 04KS
Copper	0.59 mg/L		07/11/13 13:05	WPS	EPA 200.7 R4.4 04KS
Iron	1100 mg/L		07/15/13 14:25	WPS	EPA 200.7 R4.4 04KS
Lead	0.30 mg/L		07/11/13 13:05	WPS	EPA 200.7 R4.4 04KS
Selenium	0.048 mg/L		07/11/13 13:05	WPS	EPA 200.7 R4.4 04KS



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Attn: Kevin Kamp

Date Received: 07/10/13 12:08
Report Date: 07/23/13
Customer #: 277310

Revised Laboratory Results

Sample No: **3071296-01**
Sample Description: **Force Main Influent**

Collect Date: **07/09/13 19:40**
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<u>Total Metals - STL</u>					
Silver	0.0031 mg/L		07/11/13 13:05	WPS	EPA 200.7 R4.4 04KS
Thallium	0.083 mg/L		07/11/13 13:05	WPS	EPA 200.7 R4.4 04KS
Zinc	23 mg/L		07/11/13 13:05	WPS	EPA 200.7 R4.4 04KS
<u>Volatile Organics - STL</u>					
1,1,1-Trichloroethane	< 120 ug/L		07/15/13 18:51	BP	EPA 624 04KS
1,1,2,2-Tetrachloroethane	< 120 ug/L		07/15/13 18:51	BP	EPA 624 04KS
1,1,2-Trichloroethane	< 120 ug/L		07/15/13 18:51	BP	EPA 624 04KS
1,1-Dichloroethane	< 120 ug/L		07/15/13 18:51	BP	EPA 624 04KS
1,1-Dichloroethene	< 120 ug/L		07/15/13 18:51	BP	EPA 624 04KS
1,2-Dichlorobenzene	< 120 ug/L		07/15/13 18:51	BP	EPA 624 04KS
1,2-Dichloroethane	< 120 ug/L		07/15/13 18:51	BP	EPA 624 04KS
1,2-Dichloropropane	< 120 ug/L		07/15/13 18:51	BP	EPA 624 04KS
1,3-Dichlorobenzene	< 120 ug/L		07/15/13 18:51	BP	EPA 624 04KS
1,4-Dichlorobenzene	< 120 ug/L		07/15/13 18:51	BP	EPA 624 04KS
2-Chloroethylvinyl ether	< 120 ug/L		07/15/13 18:51	BP	EPA 624 04KS
Acetone	70000 ug/L		07/15/13 17:04	BP	EPA 624*
Acrolein	< 620 ug/L		07/15/13 18:51	BP	EPA 624 04KS
Acrylonitrile	< 250 ug/L		07/15/13 18:51	BP	EPA 624 04KS
Benzene	290 ug/L		07/15/13 18:51	BP	EPA 624 04KS
Bromodichloromethane	< 120 ug/L		07/15/13 18:51	BP	EPA 624 04KS
Bromoform	< 120 ug/L		07/15/13 18:51	BP	EPA 624 04KS
Bromomethane	< 250 ug/L		07/15/13 18:51	BP	EPA 624 04KS
Carbon tetrachloride	< 120 ug/L		07/15/13 18:51	BP	EPA 624 04KS
Chlorobenzene	< 120 ug/L		07/15/13 18:51	BP	EPA 624 04KS
Chloroethane	< 250 ug/L		07/15/13 18:51	BP	EPA 624 04KS
Chloroform	< 120 ug/L		07/15/13 18:51	BP	EPA 624 04KS
Chloromethane	< 250 ug/L		07/15/13 18:51	BP	EPA 624 04KS
cis-1,3-Dichloropropene	< 120 ug/L		07/15/13 18:51	BP	EPA 624 04KS
Dibromochloromethane	< 120 ug/L		07/15/13 18:51	BP	EPA 624 04KS
Ethylbenzene	< 120 ug/L		07/15/13 18:51	BP	EPA 624 04KS
m,p-Xylene	< 250 ug/L		07/15/13 18:51	BP	EPA 624*
Methylene chloride	< 120 ug/L		07/15/13 18:51	BP	EPA 624 04KS
o-Xylene	< 120 ug/L		07/15/13 18:51	BP	EPA 624*



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Date Received: 07/10/13 12:08
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Customer #: 277310

Revised Laboratory Results

Sample No: **3071296-01**
Sample Description: **Force Main Influent**

Collect Date: **07/09/13 19:40**
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<u>Volatile Organics - STL</u>					
Tetrachloroethene	< 120 ug/L		07/15/13 18:51	BP	EPA 624 04KS
Toluene	< 120 ug/L		07/15/13 18:51	BP	EPA 624 04KS
trans-1,2-Dichloroethene	< 120 ug/L		07/15/13 18:51	BP	EPA 624 04KS
trans-1,3-Dichloropropene	< 120 ug/L		07/15/13 18:51	BP	EPA 624 04KS
Trichloroethene	< 120 ug/L		07/15/13 18:51	BP	EPA 624 04KS
Trichlorofluoromethane	< 120 ug/L		07/15/13 18:51	BP	EPA 624 04KS
Vinyl chloride	< 120 ug/L		07/15/13 18:51	BP	EPA 624 04KS
Surrogate: 1,2-Dichloroethane-d4	84 % 65.6-134		07/15/13 18:51	BP	EPA 624
Surrogate: Toluene-d8	83 % 75.4-120		07/15/13 18:51	BP	EPA 624
Surrogate: Bromofluorobenzene	89 % 61-140		07/15/13 18:51	BP	EPA 624

Sample No: **3071296-02**
Sample Description: **LCS-1 Influent**

Collect Date: **07/09/13 21:45**
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<u>Anions - STL</u>					
Chloride	4000 mg/L		07/10/13 15:04	DWM	EPA 300.0 R2.1 04KS
Nitrate-N	< 50 mg/L		07/10/13 16:50	DWM	EPA 300.0 R2.1 04KS
Nitrite-N	< 50 mg/L		07/10/13 16:50	DWM	EPA 300.0 R2.1 04KS
<u>General Chemistry - STL</u>					
BOD	39000 mg/L		07/10/13 14:00	DAW	SM 5210B 18Ed 04KS
BOD - soluble	34000 mg/L		07/10/13 14:00	DAW	SM 5210B 18Ed*
COD	49000 mg/L		07/10/13 15:00	DAW	SM 5220D 18Ed 04KS
Conductivity	21000 umhos/cm		07/10/13 14:45	DAW	SM 2510B 18Ed*
Oil & Grease - total	< 13 mg/L		07/12/13 08:30	mep	EPA 1664A 04KS
pH	5.7 pH Units	H	07/10/13 13:30	ACV	SM 4500-H B 04KS 18Ed - EPA 150.1 - SW 9040B
Phenol	56 mg/L		07/16/13 11:15	DWM	EPA 420.1 04KS
Solids - total dissolved solids (TDS)	42000 mg/L		07/10/13 13:15	DAW	SM 2540C 18Ed*
Solids - total suspended solids (TSS)	15000 mg/L		07/10/13 16:00	DAW	SM 2540D 18Ed 04KS

Nutrients - STL



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Revised Laboratory Results

Sample No: **3071296-02**
Sample Description: **LCS-1 Influent**

Collect Date: **07/09/13 21:45**
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method	
<u>Nutrients - STL</u>						
Ammonia-N	430 mg/L		07/10/13 12:00	ACV	SM(18) 4500 NH3 F	04KS
Phosphorus - total as P	1.4 mg/L		07/15/13 11:00	ACV	SM 4500P B E 18ed	04KS
<u>Semivolatile Organics - STL</u>						
1,2,4-Trichlorobenzene	< 1000 ug/L	X	07/11/13 18:01	jk	EPA 625	04KS
1,2-Dichlorobenzene	< 1000 ug/L	X	07/11/13 18:01	jk	EPA 625*	
1,3-Dichlorobenzene	< 1000 ug/L	X	07/11/13 18:01	jk	EPA 625*	
1,4-Dichlorobenzene	< 1000 ug/L	X	07/11/13 18:01	jk	EPA 625*	
2,4,5-Trichlorophenol	< 1000 ug/L	X	07/11/13 18:01	jk	EPA 625*	
2,4,6-Trichlorophenol	< 1000 ug/L	X	07/11/13 18:01	jk	EPA 625	04KS
2,4-Dichlorophenol	< 1000 ug/L	X	07/11/13 18:01	jk	EPA 625	04KS
2,4-Dimethylphenol	< 1000 ug/L	X	07/11/13 18:01	jk	EPA 625	04KS
2,4-Dinitrophenol	< 1000 ug/L	X	07/11/13 18:01	jk	EPA 625	04KS
2,4-Dinitrotoluene	< 1000 ug/L	X	07/11/13 18:01	jk	EPA 625	04KS
2,6-Dimethylaniline	< 500 ug/L	X	07/11/13 18:01	jk	EPA 625*	
2,6-Dinitrotoluene	< 1000 ug/L	X	07/11/13 18:01	jk	EPA 625	04KS
2-Chloronaphthalene	< 1000 ug/L	X	07/11/13 18:01	jk	EPA 625	04KS
2-Chlorophenol	< 1000 ug/L	X	07/11/13 18:01	jk	EPA 625	04KS
2-Nitrophenol	< 1000 ug/L	X	07/11/13 18:01	jk	EPA 625	04KS
3,3'-Dichlorobenzidine	< 1000 ug/L	X	07/11/13 18:01	jk	EPA 625	04KS
4,6-Dinitro-2-methylphenol	< 1000 ug/L	X	07/11/13 18:01	jk	EPA 625*	
4-Bromophenylphenyl ether	< 1000 ug/L	X	07/11/13 18:01	jk	EPA 625	04KS
4-Chloro-3-methylphenol	< 1000 ug/L	X	07/11/13 18:01	jk	EPA 625	04KS
4-Chlorophenylphenyl ether	< 1000 ug/L	X	07/11/13 18:01	jk	EPA 625	04KS
4-Nitrophenol	< 1000 ug/L	X	07/11/13 18:01	jk	EPA 625	04KS
Acenaphthene	< 1000 ug/L	X	07/11/13 18:01	jk	EPA 625	04KS
Acenaphthylene	< 1000 ug/L	X	07/11/13 18:01	jk	EPA 625	04KS
Anthracene	< 1000 ug/L	X	07/11/13 18:01	jk	EPA 625	04KS
Azobenzene	< 1000 ug/L	X	07/11/13 18:01	jk	EPA 625*	
Benzidine	< 1000 ug/L	X	07/11/13 18:01	jk	EPA 625*	
Benzo(a)anthracene	< 1000 ug/L	X	07/11/13 18:01	jk	EPA 625	04KS
Benzo(a)pyrene	< 1000 ug/L	X	07/11/13 18:01	jk	EPA 625	04KS
Benzo(b&k)fluoranthene	< 1000 ug/L	X	07/11/13 18:01	jk	EPA 625	04KS



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Date Received: 07/10/13 12:08
Report Date: 07/23/13
Customer #: 277310

Revised Laboratory Results

Sample No: **3071296-02**
Sample Description: **LCS-1 Influent**

Collect Date: **07/09/13 21:45**
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method	
Semivolatile Organics - STL						
Benzo(b)fluoranthene	< 1000 ug/L	X	07/11/13 18:01	jk	EPA 625	04KS
Benzo(g,h,i)perylene	< 1000 ug/L	X	07/11/13 18:01	jk	EPA 625	04KS
Benzo(k)fluoranthene	< 1000 ug/L	X	07/11/13 18:01	jk	EPA 625	04KS
Bis(2-chloroethoxy) methane	< 1000 ug/L	X	07/11/13 18:01	jk	EPA 625	04KS
Bis(2-chloroethyl) ether	< 1000 ug/L	X	07/11/13 18:01	jk	EPA 625	04KS
Bis(2-chloroisopropyl) ether	< 1000 ug/L	X	07/11/13 18:01	jk	EPA 625	04KS
Bis(2-ethylhexyl) phthalate	< 1000 ug/L	X	07/11/13 18:01	jk	EPA 625	04KS
Butyl benzyl phthalate	< 1000 ug/L	X	07/11/13 18:01	jk	EPA 625	04KS
Chrysene	< 1000 ug/L	X	07/11/13 18:01	jk	EPA 625	04KS
Dibenzo(a,h)anthracene	< 1000 ug/L	X	07/11/13 18:01	jk	EPA 625	04KS
Diethyl phthalate	< 1000 ug/L	X	07/11/13 18:01	jk	EPA 625	04KS
Dimethyl phthalate	< 1000 ug/L	X	07/11/13 18:01	jk	EPA 625	04KS
Di-n-butyl phthalate	< 1000 ug/L	X	07/11/13 18:01	jk	EPA 625	04KS
Di-n-octyl phthalate	< 1000 ug/L	X	07/11/13 18:01	jk	EPA 625	04KS
Diphenylamine	< 1000 ug/L	X	07/11/13 18:01	jk	EPA 625	04KS
Fluoranthene	< 1000 ug/L	X	07/11/13 18:01	jk	EPA 625	04KS
Fluorene	< 1000 ug/L	X	07/11/13 18:01	jk	EPA 625	04KS
Hexachlorobenzene	< 1000 ug/L	X	07/11/13 18:01	jk	EPA 625	04KS
Hexachlorobutadiene	< 1000 ug/L	X	07/11/13 18:01	jk	EPA 625	04KS
Hexachlorocyclopentadiene	< 1000 ug/L	X	07/11/13 18:01	jk	EPA 625	04KS
Hexachloroethane	< 1000 ug/L	X	07/11/13 18:01	jk	EPA 625	04KS
Indeno(1,2,3-cd)pyrene	< 1000 ug/L	X	07/11/13 18:01	jk	EPA 625	04KS
Isophorone	< 1000 ug/L	X	07/11/13 18:01	jk	EPA 625	04KS
Naphthalene	< 1000 ug/L	X	07/11/13 18:01	jk	EPA 625	04KS
Nitrobenzene	< 1000 ug/L	X	07/11/13 18:01	jk	EPA 625	04KS
N-Nitrosodimethylamine	< 1000 ug/L	X	07/11/13 18:01	jk	EPA 625	04KS
N-Nitrosodi-n-propylamine	< 1000 ug/L	X	07/11/13 18:01	jk	EPA 625	04KS
Pentachlorophenol	< 1000 ug/L	X	07/11/13 18:01	jk	EPA 625	04KS
Phenanthrene	< 1000 ug/L	X	07/11/13 18:01	jk	EPA 625	04KS
Phenol	2900 ug/L	X	07/11/13 18:01	jk	EPA 625	04KS
Pyrene	< 1000 ug/L	X	07/11/13 18:01	jk	EPA 625	04KS
Surrogate: 2-Fluorophenol	6 % 10-101	S, X	07/11/13 18:01	jk	EPA 625	
Surrogate: Phenol- d5	19 % 10-154	S, X	07/11/13 18:01	jk	EPA 625	



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Revised Laboratory Results

Sample No: **3071296-02**
Sample Description: **LCS-1 Influent**

Collect Date: **07/09/13 21:45**
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
Semivolatile Organics - STL					
Surrogate: Nitrobenzene-d5	103 % 10-119	S, X	07/11/13 18:01	jk	EPA 625
Surrogate: 2-Fluorobiphenyl	35 % 10-98	S, X	07/11/13 18:01	jk	EPA 625
Surrogate: 2,4,6-Tribromophenol	15 % 10-69	S, X	07/11/13 18:01	jk	EPA 625
Surrogate: p-Terphenyl-d14	36 % 11-97	S, X	07/11/13 18:01	jk	EPA 625
Total Metals - STL					
Aluminum	26 mg/L		07/11/13 13:09	WPS	EPA 200.7 R4.4*
Mercury	0.0063 mg/L		07/15/13 12:25	WPS	EPA 245.1 R3.0 / SW 7470A 04KS
Arsenic	0.96 mg/L		07/11/13 13:09	WPS	EPA 200.7 R4.4 04KS
Barium	4.5 mg/L		07/11/13 13:09	WPS	EPA 200.7 R4.4 04KS
Cadmium	0.063 mg/L		07/11/13 13:09	WPS	EPA 200.7 R4.4 04KS
Chromium	0.26 mg/L		07/11/13 13:09	WPS	EPA 200.7 R4.4 04KS
Cobalt	0.13 mg/L		07/11/13 13:09	WPS	EPA 200.7 R4.4 04KS
Copper	0.11 mg/L		07/11/13 13:09	WPS	EPA 200.7 R4.4 04KS
Iron	910 mg/L		07/15/13 14:31	WPS	EPA 200.7 R4.4 04KS
Lead	0.15 mg/L		07/11/13 13:09	WPS	EPA 200.7 R4.4 04KS
Selenium	0.070 mg/L		07/11/13 13:09	WPS	EPA 200.7 R4.4 04KS
Silver	0.0078 mg/L		07/11/13 13:09	WPS	EPA 200.7 R4.4 04KS
Thallium	0.15 mg/L		07/11/13 13:09	WPS	EPA 200.7 R4.4 04KS
Zinc	9.8 mg/L		07/11/13 13:09	WPS	EPA 200.7 R4.4 04KS
Volatile Organics - STL					
1,1,1-Trichloroethane	< 120 ug/L		07/15/13 19:18	BP	EPA 624 04KS
1,1,2,2-Tetrachloroethane	< 120 ug/L		07/15/13 19:18	BP	EPA 624 04KS
1,1,2-Trichloroethane	< 120 ug/L		07/15/13 19:18	BP	EPA 624 04KS
1,1-Dichloroethane	< 120 ug/L		07/15/13 19:18	BP	EPA 624 04KS
1,1-Dichloroethene	< 120 ug/L		07/15/13 19:18	BP	EPA 624 04KS
1,2-Dichlorobenzene	< 120 ug/L		07/15/13 19:18	BP	EPA 624 04KS
1,2-Dichloroethane	< 120 ug/L		07/15/13 19:18	BP	EPA 624 04KS
1,2-Dichloropropane	< 120 ug/L		07/15/13 19:18	BP	EPA 624 04KS
1,3-Dichlorobenzene	< 120 ug/L		07/15/13 19:18	BP	EPA 624 04KS
1,4-Dichlorobenzene	180 ug/L		07/15/13 19:18	BP	EPA 624 04KS
2-Chloroethylvinyl ether	< 120 ug/L		07/15/13 19:18	BP	EPA 624 04KS
Acrolein	< 620 ug/L		07/15/13 19:18	BP	EPA 624 04KS



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Customer #: 277310

Revised Laboratory Results

Sample No: **3071296-02**
Sample Description: **LCS-1 Influent**

Collect Date: **07/09/13 21:45**
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<u>Volatile Organics - STL</u>					
Acrylonitrile	< 250 ug/L		07/15/13 19:18	BP	EPA 624 04KS
Benzene	1400 ug/L		07/15/13 19:18	BP	EPA 624 04KS
Bromodichloromethane	< 120 ug/L		07/15/13 19:18	BP	EPA 624 04KS
Bromoform	< 120 ug/L		07/15/13 19:18	BP	EPA 624 04KS
Bromomethane	< 250 ug/L		07/15/13 19:18	BP	EPA 624 04KS
Carbon tetrachloride	< 120 ug/L		07/15/13 19:18	BP	EPA 624 04KS
Chlorobenzene	< 120 ug/L		07/15/13 19:18	BP	EPA 624 04KS
Chloroethane	< 250 ug/L		07/15/13 19:18	BP	EPA 624 04KS
Chloroform	< 120 ug/L		07/15/13 19:18	BP	EPA 624 04KS
Chloromethane	< 250 ug/L		07/15/13 19:18	BP	EPA 624 04KS
cis-1,3-Dichloropropene	< 120 ug/L		07/15/13 19:18	BP	EPA 624 04KS
Dibromochloromethane	< 120 ug/L		07/15/13 19:18	BP	EPA 624 04KS
Ethylbenzene	< 120 ug/L		07/15/13 19:18	BP	EPA 624 04KS
m,p-Xylene	< 250 ug/L		07/15/13 19:18	BP	EPA 624*
Methylene chloride	< 120 ug/L		07/15/13 19:18	BP	EPA 624 04KS
o-Xylene	120 ug/L		07/15/13 19:18	BP	EPA 624*
Tetrachloroethene	< 120 ug/L		07/15/13 19:18	BP	EPA 624 04KS
Toluene	240 ug/L		07/15/13 19:18	BP	EPA 624 04KS
trans-1,2-Dichloroethene	< 120 ug/L		07/15/13 19:18	BP	EPA 624 04KS
trans-1,3-Dichloropropene	< 120 ug/L		07/15/13 19:18	BP	EPA 624 04KS
Trichloroethene	< 120 ug/L		07/15/13 19:18	BP	EPA 624 04KS
Trichlorofluoromethane	< 120 ug/L		07/15/13 19:18	BP	EPA 624 04KS
Vinyl chloride	< 120 ug/L		07/15/13 19:18	BP	EPA 624 04KS
Surrogate: 1,2-Dichloroethane-d4	80 % 65.6-134		07/15/13 19:18	BP	EPA 624
Surrogate: Toluene-d8	82 % 75.4-120		07/15/13 19:18	BP	EPA 624
Surrogate: Bromofluorobenzene	87 % 61-140		07/15/13 19:18	BP	EPA 624

Sample No: **3071296-02RE1**
Sample Description: **LCS-1 Influent**

Collect Date: **07/09/13 21:45**
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<u>Volatile Organics - STL</u>					



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Bridgeton Landfill
13570 St Charles Rock Road
St. Louis, MO 63044
Attn: Kevin Kamp

Date Received: 07/10/13 12:08
Report Date: 07/23/13
Customer #: 277310

Revised Laboratory Results

Sample No: **3071296-02RE1**
Sample Description: **LCS-1 Influent**

Collect Date: **07/09/13 21:45**
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<u>Volatile Organics - STL</u>					
Acetone	120000 ug/L		07/16/13 11:07	BP	EPA 624*
Surrogate: 1,2-Dichloroethane-d4	85 % 65.6-134		07/16/13 11:07	BP	EPA 624
Surrogate: Toluene-d8	83 % 75.4-120		07/16/13 11:07	BP	EPA 624
Surrogate: Bromofluorobenzene	94 % 61-140		07/16/13 11:07	BP	EPA 624

Sample No: **3071296-03**
Sample Description: **Trip Blank #1**

Collect Date: **07/09/13 00:00**
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<u>Volatile Organics - STL</u>					
1,1,1-Trichloroethane	< 5.0 ug/L		07/15/13 14:50	BP	EPA 624 04KS
1,1,2,2-Tetrachloroethane	< 5.0 ug/L		07/15/13 14:50	BP	EPA 624 04KS
1,1,2-Trichloroethane	< 5.0 ug/L		07/15/13 14:50	BP	EPA 624 04KS
1,1-Dichloroethane	< 5.0 ug/L		07/15/13 14:50	BP	EPA 624 04KS
1,1-Dichloroethene	< 5.0 ug/L		07/15/13 14:50	BP	EPA 624 04KS
1,2-Dichlorobenzene	< 5.0 ug/L		07/15/13 14:50	BP	EPA 624 04KS
1,2-Dichloroethane	< 5.0 ug/L		07/15/13 14:50	BP	EPA 624 04KS
1,2-Dichloropropane	< 5.0 ug/L		07/15/13 14:50	BP	EPA 624 04KS
1,3-Dichlorobenzene	< 5.0 ug/L		07/15/13 14:50	BP	EPA 624 04KS
1,4-Dichlorobenzene	< 5.0 ug/L		07/15/13 14:50	BP	EPA 624 04KS
2-Chloroethylvinyl ether	< 5.0 ug/L		07/15/13 14:50	BP	EPA 624 04KS
Acetone	< 10 ug/L		07/15/13 14:50	BP	EPA 624*
Acrolein	< 25 ug/L		07/15/13 14:50	BP	EPA 624 04KS
Acrylonitrile	< 10 ug/L		07/15/13 14:50	BP	EPA 624 04KS
Benzene	< 5.0 ug/L		07/15/13 14:50	BP	EPA 624 04KS
Bromodichloromethane	< 5.0 ug/L		07/15/13 14:50	BP	EPA 624 04KS
Bromoform	< 5.0 ug/L		07/15/13 14:50	BP	EPA 624 04KS
Bromomethane	< 10 ug/L		07/15/13 14:50	BP	EPA 624 04KS
Carbon tetrachloride	< 5.0 ug/L		07/15/13 14:50	BP	EPA 624 04KS
Chlorobenzene	< 5.0 ug/L		07/15/13 14:50	BP	EPA 624 04KS
Chloroethane	< 10 ug/L		07/15/13 14:50	BP	EPA 624 04KS
Chloroform	< 5.0 ug/L		07/15/13 14:50	BP	EPA 624 04KS



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Customer #: 277310

Revised Laboratory Results

Sample No: **3071296-03**
Sample Description: **Trip Blank #1**

Collect Date: **07/09/13 00:00**
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<u>Volatile Organics - STL</u>					
Chloromethane	< 10 ug/L		07/15/13 14:50	BP	EPA 624 04KS
cis-1,3-Dichloropropene	< 5.0 ug/L		07/15/13 14:50	BP	EPA 624 04KS
Dibromochloromethane	< 5.0 ug/L		07/15/13 14:50	BP	EPA 624 04KS
Ethylbenzene	< 5.0 ug/L		07/15/13 14:50	BP	EPA 624 04KS
m,p-Xylene	< 10 ug/L		07/15/13 14:50	BP	EPA 624*
Methylene chloride	< 5.0 ug/L		07/15/13 14:50	BP	EPA 624 04KS
o-Xylene	< 5.0 ug/L		07/15/13 14:50	BP	EPA 624*
Tetrachloroethene	< 5.0 ug/L		07/15/13 14:50	BP	EPA 624 04KS
Toluene	< 5.0 ug/L		07/15/13 14:50	BP	EPA 624 04KS
trans-1,2-Dichloroethene	< 5.0 ug/L		07/15/13 14:50	BP	EPA 624 04KS
trans-1,3-Dichloropropene	< 5.0 ug/L		07/15/13 14:50	BP	EPA 624 04KS
Trichloroethene	< 5.0 ug/L		07/15/13 14:50	BP	EPA 624 04KS
Trichlorofluoromethane	< 5.0 ug/L		07/15/13 14:50	BP	EPA 624 04KS
Vinyl chloride	< 5.0 ug/L		07/15/13 14:50	BP	EPA 624 04KS
Surrogate: 1,2-Dichloroethane-d4	86 % 65.6-134		07/15/13 14:50	BP	EPA 624
Surrogate: Toluene-d8	86 % 75.4-120		07/15/13 14:50	BP	EPA 624
Surrogate: Bromofluorobenzene	87 % 61-140		07/15/13 14:50	BP	EPA 624

Sample No: **3071296-04**
Sample Description: **316K AST-1**

Collect Date: **07/09/13 18:15**
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<u>Anions - STL</u>					
Chloride	5100 mg/L		07/10/13 15:22	DWM	EPA 300.0 R2.1 04KS
Nitrate-N	< 50 mg/L		07/10/13 17:08	DWM	EPA 300.0 R2.1 04KS
Nitrite-N	< 50 mg/L		07/10/13 17:08	DWM	EPA 300.0 R2.1 04KS
<u>General Chemistry - STL</u>					
BOD	40000 mg/L		07/10/13 14:00	DAW	SM 5210B 18Ed 04KS
BOD - soluble	38000 mg/L		07/10/13 14:00	DAW	SM 5210B 18Ed*
COD	58000 mg/L		07/10/13 15:00	DAW	SM 5220D 18Ed 04KS
Conductivity	24000 umhos/cm		07/10/13 14:45	DAW	SM 2510B 18Ed*
Oil & Grease - total	< 16 mg/L		07/12/13 08:30	mep	EPA 1664A 04KS



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Revised Laboratory Results

Sample No: **3071296-04**
Sample Description: **316K AST-1**

Collect Date: **07/09/13 18:15**
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method	
General Chemistry - STL						
pH	5.7 pH Units	H	07/10/13 13:30	ACV	SM 4500-H B 18Ed - EPA 150.1 - SW 9040B	04KS
Phenol	72 mg/L		07/16/13 11:15	DWM	EPA 420.1	04KS
Solids - total dissolved solids (TDS)	49000 mg/L		07/10/13 13:15	DAW	SM 2540C 18Ed*	
Solids - total suspended solids (TSS)	3700 mg/L		07/10/13 16:00	DAW	SM 2540D 18Ed	04KS
Nutrients - STL						
Ammonia-N	840 mg/L		07/10/13 12:00	ACV	SM(18) 4500 NH3 F	04KS
Phosphorus - total as P	< 0.50 mg/L		07/15/13 11:00	ACV	SM 4500P B E 18ed	04KS
Semivolatile Organics - STL						
1,2,4-Trichlorobenzene	< 1000 ug/L		07/11/13 16:26	jk	EPA 625	04KS
1,2-Dichlorobenzene	< 1000 ug/L		07/11/13 16:26	jk	EPA 625*	
1,3-Dichlorobenzene	< 1000 ug/L		07/11/13 16:26	jk	EPA 625*	
1,4-Dichlorobenzene	< 1000 ug/L		07/11/13 16:26	jk	EPA 625*	
2,4,5-Trichlorophenol	< 1000 ug/L		07/11/13 16:26	jk	EPA 625*	
2,4,6-Trichlorophenol	< 1000 ug/L		07/11/13 16:26	jk	EPA 625	04KS
2,4-Dichlorophenol	< 1000 ug/L		07/11/13 16:26	jk	EPA 625	04KS
2,4-Dimethylphenol	< 1000 ug/L		07/11/13 16:26	jk	EPA 625	04KS
2,4-Dinitrophenol	< 1000 ug/L		07/11/13 16:26	jk	EPA 625	04KS
2,4-Dinitrotoluene	< 1000 ug/L		07/11/13 16:26	jk	EPA 625	04KS
2,6-Dimethylaniline	< 500 ug/L		07/11/13 16:26	jk	EPA 625*	
2,6-Dinitrotoluene	< 1000 ug/L		07/11/13 16:26	jk	EPA 625	04KS
2-Chloronaphthalene	< 1000 ug/L		07/11/13 16:26	jk	EPA 625	04KS
2-Chlorophenol	< 1000 ug/L		07/11/13 16:26	jk	EPA 625	04KS
2-Nitrophenol	< 1000 ug/L		07/11/13 16:26	jk	EPA 625	04KS
3,3'-Dichlorobenzidine	< 1000 ug/L		07/11/13 16:26	jk	EPA 625	04KS
4,6-Dinitro-2-methylphenol	< 1000 ug/L		07/11/13 16:26	jk	EPA 625*	
4-Bromophenylphenyl ether	< 1000 ug/L		07/11/13 16:26	jk	EPA 625	04KS
4-Chloro-3-methylphenol	< 1000 ug/L		07/11/13 16:26	jk	EPA 625	04KS
4-Chlorophenylphenyl ether	< 1000 ug/L		07/11/13 16:26	jk	EPA 625	04KS
4-Nitrophenol	< 1000 ug/L		07/11/13 16:26	jk	EPA 625	04KS
Acenaphthene	< 1000 ug/L		07/11/13 16:26	jk	EPA 625	04KS
Acenaphthylene	< 1000 ug/L		07/11/13 16:26	jk	EPA 625	04KS



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Revised Laboratory Results

Sample No: **3071296-04**
Sample Description: **316K AST-1**

Collect Date: **07/09/13 18:15**
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
Semivolatile Organics - STL					
Anthracene	< 1000 ug/L		07/11/13 16:26	jk	EPA 625 04KS
Azobenzene	< 1000 ug/L		07/11/13 16:26	jk	EPA 625*
Benzidine	< 1000 ug/L		07/11/13 16:26	jk	EPA 625*
Benzo(a)anthracene	< 1000 ug/L		07/11/13 16:26	jk	EPA 625 04KS
Benzo(a)pyrene	< 1000 ug/L		07/11/13 16:26	jk	EPA 625 04KS
Benzo(b&k)fluoranthene	< 1000 ug/L		07/11/13 16:26	jk	EPA 625 04KS
Benzo(b)fluoranthene	< 1000 ug/L		07/11/13 16:26	jk	EPA 625 04KS
Benzo(g,h,i)perylene	< 1000 ug/L		07/11/13 16:26	jk	EPA 625 04KS
Benzo(k)fluoranthene	< 1000 ug/L		07/11/13 16:26	jk	EPA 625 04KS
Bis(2-chloroethoxy) methane	< 1000 ug/L		07/11/13 16:26	jk	EPA 625 04KS
Bis(2-chloroethyl) ether	< 1000 ug/L		07/11/13 16:26	jk	EPA 625 04KS
Bis(2-chloroisopropyl) ether	< 1000 ug/L		07/11/13 16:26	jk	EPA 625 04KS
Bis(2-ethylhexyl) phthalate	< 1000 ug/L		07/11/13 16:26	jk	EPA 625 04KS
Butyl benzyl phthalate	< 1000 ug/L		07/11/13 16:26	jk	EPA 625 04KS
Chrysene	< 1000 ug/L		07/11/13 16:26	jk	EPA 625 04KS
Dibenzo(a,h)anthracene	< 1000 ug/L		07/11/13 16:26	jk	EPA 625 04KS
Diethyl phthalate	< 1000 ug/L		07/11/13 16:26	jk	EPA 625 04KS
Dimethyl phthalate	< 1000 ug/L		07/11/13 16:26	jk	EPA 625 04KS
Di-n-butyl phthalate	< 1000 ug/L		07/11/13 16:26	jk	EPA 625 04KS
Di-n-octyl phthalate	< 1000 ug/L		07/11/13 16:26	jk	EPA 625 04KS
Diphenylamine	< 1000 ug/L		07/11/13 16:26	jk	EPA 625 04KS
Fluoranthene	< 1000 ug/L		07/11/13 16:26	jk	EPA 625 04KS
Fluorene	< 1000 ug/L		07/11/13 16:26	jk	EPA 625 04KS
Hexachlorobenzene	< 1000 ug/L		07/11/13 16:26	jk	EPA 625 04KS
Hexachlorobutadiene	< 1000 ug/L		07/11/13 16:26	jk	EPA 625 04KS
Hexachlorocyclopentadiene	< 1000 ug/L		07/11/13 16:26	jk	EPA 625 04KS
Hexachloroethane	< 1000 ug/L		07/11/13 16:26	jk	EPA 625 04KS
Indeno(1,2,3-cd)pyrene	< 1000 ug/L		07/11/13 16:26	jk	EPA 625 04KS
Isophorone	< 1000 ug/L		07/11/13 16:26	jk	EPA 625 04KS
Naphthalene	< 1000 ug/L		07/11/13 16:26	jk	EPA 625 04KS
Nitrobenzene	< 1000 ug/L		07/11/13 16:26	jk	EPA 625 04KS
N-Nitrosodimethylamine	< 1000 ug/L		07/11/13 16:26	jk	EPA 625 04KS
N-Nitrosodi-n-propylamine	< 1000 ug/L		07/11/13 16:26	jk	EPA 625 04KS



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Attn: Kevin Kamp

Date Received: 07/10/13 12:08
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Customer #: 277310

Revised Laboratory Results

Sample No: **3071296-04**
Sample Description: **316K AST-1**

Collect Date: **07/09/13 18:15**
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
Semivolatile Organics - STL					
Pentachlorophenol	< 1000 ug/L		07/11/13 16:26	jk	EPA 625 04KS
Phenanthrene	< 1000 ug/L		07/11/13 16:26	jk	EPA 625 04KS
Phenol	2210 ug/L		07/11/13 16:26	jk	EPA 625 04KS
Pyrene	< 1000 ug/L		07/11/13 16:26	jk	EPA 625 04KS
Surrogate: 2-Fluorophenol	5 % 10-101	S	07/11/13 16:26	jk	EPA 625
Surrogate: Phenol- d5	1 % 10-154	S	07/11/13 16:26	jk	EPA 625
Surrogate: Nitrobenzene-d5	29 % 10-119	S	07/11/13 16:26	jk	EPA 625
Surrogate: 2-Fluorobiphenyl	31 % 10-98	S	07/11/13 16:26	jk	EPA 625
Surrogate: 2,4,6-Tribromophenol	6 % 10-69	S	07/11/13 16:26	jk	EPA 625
Surrogate: p-Terphenyl-d14	31 % 11-97	S	07/11/13 16:26	jk	EPA 625
Total Metals - STL					
Aluminum	20 mg/L		07/11/13 13:14	WPS	EPA 200.7 R4.4*
Mercury	0.017 mg/L		07/15/13 12:25	WPS	EPA 245.1 R3.0 / 04KS SW 7470A
Arsenic	0.64 mg/L		07/11/13 13:14	WPS	EPA 200.7 R4.4 04KS
Barium	4.0 mg/L		07/11/13 13:14	WPS	EPA 200.7 R4.4 04KS
Cadmium	0.088 mg/L		07/11/13 13:14	WPS	EPA 200.7 R4.4 04KS
Chromium	0.34 mg/L		07/11/13 13:14	WPS	EPA 200.7 R4.4 04KS
Cobalt	0.10 mg/L		07/11/13 13:14	WPS	EPA 200.7 R4.4 04KS
Copper	0.048 mg/L		07/11/13 13:14	WPS	EPA 200.7 R4.4 04KS
Iron	1200 mg/L		07/15/13 14:35	WPS	EPA 200.7 R4.4 04KS
Lead	0.20 mg/L		07/11/13 13:14	WPS	EPA 200.7 R4.4 04KS
Selenium	0.036 mg/L		07/11/13 13:14	WPS	EPA 200.7 R4.4 04KS
Silver	0.0094 mg/L		07/11/13 13:14	WPS	EPA 200.7 R4.4 04KS
Thallium	0.092 mg/L		07/11/13 13:14	WPS	EPA 200.7 R4.4 04KS
Zinc	18 mg/L		07/11/13 13:14	WPS	EPA 200.7 R4.4 04KS
Volatile Organics - STL					
1,1,1-Trichloroethane	< 120 ug/L		07/15/13 19:44	BP	EPA 624 04KS
1,1,2,2-Tetrachloroethane	< 120 ug/L		07/15/13 19:44	BP	EPA 624 04KS
1,1,2-Trichloroethane	< 120 ug/L		07/15/13 19:44	BP	EPA 624 04KS
1,1-Dichloroethane	< 120 ug/L		07/15/13 19:44	BP	EPA 624 04KS
1,1-Dichloroethene	< 120 ug/L		07/15/13 19:44	BP	EPA 624 04KS
1,2-Dichlorobenzene	< 120 ug/L		07/15/13 19:44	BP	EPA 624 04KS



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Revised Laboratory Results

Sample No: **3071296-04**
Sample Description: **316K AST-1**

Collect Date: **07/09/13 18:15**
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
Volatile Organics - STL					
1,2-Dichloroethane	< 120 ug/L		07/15/13 19:44	BP	EPA 624 04KS
1,2-Dichloropropane	< 120 ug/L		07/15/13 19:44	BP	EPA 624 04KS
1,3-Dichlorobenzene	< 120 ug/L		07/15/13 19:44	BP	EPA 624 04KS
1,4-Dichlorobenzene	< 120 ug/L		07/15/13 19:44	BP	EPA 624 04KS
2-Chloroethylvinyl ether	< 120 ug/L		07/15/13 19:44	BP	EPA 624 04KS
Acetone	74000 ug/L		07/15/13 17:58	BP	EPA 624*
Acrolein	< 620 ug/L		07/15/13 19:44	BP	EPA 624 04KS
Acrylonitrile	< 250 ug/L		07/15/13 19:44	BP	EPA 624 04KS
Benzene	210 ug/L		07/15/13 19:44	BP	EPA 624 04KS
Bromodichloromethane	< 120 ug/L		07/15/13 19:44	BP	EPA 624 04KS
Bromoform	< 120 ug/L		07/15/13 19:44	BP	EPA 624 04KS
Bromomethane	< 250 ug/L		07/15/13 19:44	BP	EPA 624 04KS
Carbon tetrachloride	< 120 ug/L		07/15/13 19:44	BP	EPA 624 04KS
Chlorobenzene	< 120 ug/L		07/15/13 19:44	BP	EPA 624 04KS
Chloroethane	< 250 ug/L		07/15/13 19:44	BP	EPA 624 04KS
Chloroform	< 120 ug/L		07/15/13 19:44	BP	EPA 624 04KS
Chloromethane	< 250 ug/L		07/15/13 19:44	BP	EPA 624 04KS
cis-1,3-Dichloropropene	< 120 ug/L		07/15/13 19:44	BP	EPA 624 04KS
Dibromochloromethane	< 120 ug/L		07/15/13 19:44	BP	EPA 624 04KS
Ethylbenzene	< 120 ug/L		07/15/13 19:44	BP	EPA 624 04KS
m,p-Xylene	< 250 ug/L		07/15/13 19:44	BP	EPA 624*
Methylene chloride	< 120 ug/L		07/15/13 19:44	BP	EPA 624 04KS
o-Xylene	< 120 ug/L		07/15/13 19:44	BP	EPA 624*
Tetrachloroethene	< 120 ug/L		07/15/13 19:44	BP	EPA 624 04KS
Toluene	< 120 ug/L		07/15/13 19:44	BP	EPA 624 04KS
trans-1,2-Dichloroethene	< 120 ug/L		07/15/13 19:44	BP	EPA 624 04KS
trans-1,3-Dichloropropene	< 120 ug/L		07/15/13 19:44	BP	EPA 624 04KS
Trichloroethene	< 120 ug/L		07/15/13 19:44	BP	EPA 624 04KS
Trichlorofluoromethane	< 120 ug/L		07/15/13 19:44	BP	EPA 624 04KS
Vinyl chloride	< 120 ug/L		07/15/13 19:44	BP	EPA 624 04KS
Surrogate: 1,2-Dichloroethane-d4	86 % 65.6-134		07/15/13 19:44	BP	EPA 624
Surrogate: Toluene-d8	79 % 75.4-120		07/15/13 19:44	BP	EPA 624
Surrogate: Bromofluorobenzene	88 % 61-140		07/15/13 19:44	BP	EPA 624



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Bridgeton Landfill
13570 St Charles Rock Road
St. Louis, MO 63044
Attn: Kevin Kamp

Date Received: 07/10/13 12:08
Report Date: 07/23/13
Customer #: 277310

Revised Laboratory Results

Sample No: **3071296-05**
Sample Description: **316K AST-2**

Collect Date: **07/09/13 21:00**
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<u>Anions - STL</u>					
Chloride	5000 mg/L		07/10/13 15:40	DWM	EPA 300.0 R2.1 04KS
Nitrate-N	62 mg/L		07/10/13 17:26	DWM	EPA 300.0 R2.1 04KS
Nitrite-N	< 50 mg/L		07/10/13 17:26	DWM	EPA 300.0 R2.1 04KS
<u>General Chemistry - STL</u>					
BOD	35000 mg/L		07/10/13 14:00	DAW	SM 5210B 18Ed 04KS
BOD - soluble	34000 mg/L		07/10/13 14:00	DAW	SM 5210B 18Ed*
COD	63000 mg/L		07/10/13 15:00	DAW	SM 5220D 18Ed 04KS
Conductivity	24000 umhos/cm		07/10/13 14:45	DAW	SM 2510B 18Ed*
Oil & Grease - total	< 27 mg/L		07/12/13 08:30	mep	EPA 1664A 04KS
pH	5.6 pH Units	H	07/10/13 13:30	ACV	SM 4500-H B 04KS 18Ed - EPA 150.1 - SW 9040B
Phenol	68 mg/L		07/16/13 11:15	DWM	EPA 420.1 04KS
Solids - total dissolved solids (TDS)	49000 mg/L		07/10/13 13:15	DAW	SM 2540C 18Ed*
Solids - total suspended solids (TSS)	8500 mg/L		07/10/13 16:00	DAW	SM 2540D 18Ed 04KS
<u>Nutrients - STL</u>					
Ammonia-N	880 mg/L		07/10/13 12:00	ACV	SM(18) 4500 NH3 F 04KS
Phosphorus - total as P	< 0.50 mg/L		07/15/13 11:00	ACV	SM 4500P B E 04KS 18ed
<u>Semivolatile Organics - STL</u>					
1,2,4-Trichlorobenzene	< 1000 ug/L		07/11/13 17:14	jk	EPA 625 04KS
1,2-Dichlorobenzene	< 1000 ug/L		07/11/13 17:14	jk	EPA 625*
1,3-Dichlorobenzene	< 1000 ug/L		07/11/13 17:14	jk	EPA 625*
1,4-Dichlorobenzene	< 1000 ug/L		07/11/13 17:14	jk	EPA 625*
2,4,5-Trichlorophenol	< 1000 ug/L		07/11/13 17:14	jk	EPA 625*
2,4,6-Trichlorophenol	< 1000 ug/L		07/11/13 17:14	jk	EPA 625 04KS
2,4-Dichlorophenol	< 1000 ug/L		07/11/13 17:14	jk	EPA 625 04KS
2,4-Dimethylphenol	< 1000 ug/L		07/11/13 17:14	jk	EPA 625 04KS
2,4-Dinitrophenol	< 1000 ug/L		07/11/13 17:14	jk	EPA 625 04KS
2,4-Dinitrotoluene	< 1000 ug/L		07/11/13 17:14	jk	EPA 625 04KS
2,6-Dimethylaniline	< 500 ug/L		07/11/13 17:14	jk	EPA 625*
2,6-Dinitrotoluene	< 1000 ug/L		07/11/13 17:14	jk	EPA 625 04KS
2-Chloronaphthalene	< 1000 ug/L		07/11/13 17:14	jk	EPA 625 04KS



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Customer #: 277310

Revised Laboratory Results

Sample No: **3071296-05**
Sample Description: **316K AST-2**

Collect Date: **07/09/13 21:00**
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
Semivolatile Organics - STL					
2-Chlorophenol	< 1000 ug/L		07/11/13 17:14	jk	EPA 625 04KS
2-Nitrophenol	< 1000 ug/L		07/11/13 17:14	jk	EPA 625 04KS
3,3'-Dichlorobenzidine	< 1000 ug/L		07/11/13 17:14	jk	EPA 625 04KS
4,6-Dinitro-2-methylphenol	< 1000 ug/L		07/11/13 17:14	jk	EPA 625*
4-Bromophenylphenyl ether	< 1000 ug/L		07/11/13 17:14	jk	EPA 625 04KS
4-Chloro-3-methylphenol	< 1000 ug/L		07/11/13 17:14	jk	EPA 625 04KS
4-Chlorophenylphenyl ether	< 1000 ug/L		07/11/13 17:14	jk	EPA 625 04KS
4-Nitrophenol	< 1000 ug/L		07/11/13 17:14	jk	EPA 625 04KS
Acenaphthene	< 1000 ug/L		07/11/13 17:14	jk	EPA 625 04KS
Acenaphthylene	< 1000 ug/L		07/11/13 17:14	jk	EPA 625 04KS
Anthracene	< 1000 ug/L		07/11/13 17:14	jk	EPA 625 04KS
Azobenzene	< 1000 ug/L		07/11/13 17:14	jk	EPA 625*
Benzidine	< 1000 ug/L		07/11/13 17:14	jk	EPA 625*
Benzo(a)anthracene	< 1000 ug/L		07/11/13 17:14	jk	EPA 625 04KS
Benzo(a)pyrene	< 1000 ug/L		07/11/13 17:14	jk	EPA 625 04KS
Benzo(b&k)fluoranthene	< 1000 ug/L		07/11/13 17:14	jk	EPA 625 04KS
Benzo(b)fluoranthene	< 1000 ug/L		07/11/13 17:14	jk	EPA 625 04KS
Benzo(g,h,i)perylene	< 1000 ug/L		07/11/13 17:14	jk	EPA 625 04KS
Benzo(k)fluoranthene	< 1000 ug/L		07/11/13 17:14	jk	EPA 625 04KS
Bis(2-chloroethoxy) methane	< 1000 ug/L		07/11/13 17:14	jk	EPA 625 04KS
Bis(2-chloroethyl) ether	< 1000 ug/L		07/11/13 17:14	jk	EPA 625 04KS
Bis(2-chloroisopropyl) ether	< 1000 ug/L		07/11/13 17:14	jk	EPA 625 04KS
Bis(2-ethylhexyl) phthalate	< 1000 ug/L		07/11/13 17:14	jk	EPA 625 04KS
Butyl benzyl phthalate	< 1000 ug/L		07/11/13 17:14	jk	EPA 625 04KS
Chrysene	< 1000 ug/L		07/11/13 17:14	jk	EPA 625 04KS
Dibenzo(a,h)anthracene	< 1000 ug/L		07/11/13 17:14	jk	EPA 625 04KS
Diethyl phthalate	< 1000 ug/L		07/11/13 17:14	jk	EPA 625 04KS
Dimethyl phthalate	< 1000 ug/L		07/11/13 17:14	jk	EPA 625 04KS
Di-n-butyl phthalate	< 1000 ug/L		07/11/13 17:14	jk	EPA 625 04KS
Di-n-octyl phthalate	< 1000 ug/L		07/11/13 17:14	jk	EPA 625 04KS
Diphenylamine	< 1000 ug/L		07/11/13 17:14	jk	EPA 625 04KS
Fluoranthene	< 1000 ug/L		07/11/13 17:14	jk	EPA 625 04KS
Fluorene	< 1000 ug/L		07/11/13 17:14	jk	EPA 625 04KS



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Date Received: 07/10/13 12:08
Report Date: 07/23/13
Customer #: 277310

Revised Laboratory Results

Sample No: **3071296-05**
Sample Description: **316K AST-2**

Collect Date: **07/09/13 21:00**
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
Semivolatile Organics - STL					
Hexachlorobenzene	< 1000 ug/L		07/11/13 17:14	jk	EPA 625 04KS
Hexachlorobutadiene	< 1000 ug/L		07/11/13 17:14	jk	EPA 625 04KS
Hexachlorocyclopentadiene	< 1000 ug/L		07/11/13 17:14	jk	EPA 625 04KS
Hexachloroethane	< 1000 ug/L		07/11/13 17:14	jk	EPA 625 04KS
Indeno(1,2,3-cd)pyrene	< 1000 ug/L		07/11/13 17:14	jk	EPA 625 04KS
Isophorone	< 1000 ug/L		07/11/13 17:14	jk	EPA 625 04KS
Naphthalene	< 1000 ug/L		07/11/13 17:14	jk	EPA 625 04KS
Nitrobenzene	< 1000 ug/L		07/11/13 17:14	jk	EPA 625 04KS
N-Nitrosodimethylamine	< 1000 ug/L		07/11/13 17:14	jk	EPA 625 04KS
N-Nitrosodi-n-propylamine	< 1000 ug/L		07/11/13 17:14	jk	EPA 625 04KS
Pentachlorophenol	< 1000 ug/L		07/11/13 17:14	jk	EPA 625 04KS
Phenanthrene	< 1000 ug/L		07/11/13 17:14	jk	EPA 625 04KS
Phenol	3790 ug/L		07/11/13 17:14	jk	EPA 625 04KS
Pyrene	< 1000 ug/L		07/11/13 17:14	jk	EPA 625 04KS
Surrogate: 2-Fluorophenol	8 % 10-101	S	07/11/13 17:14	jk	EPA 625
Surrogate: Phenol- d5	3 % 10-154	S	07/11/13 17:14	jk	EPA 625
Surrogate: Nitrobenzene-d5	41 % 10-119	S	07/11/13 17:14	jk	EPA 625
Surrogate: 2-Fluorobiphenyl	32 % 10-98	S	07/11/13 17:14	jk	EPA 625
Surrogate: 2,4,6-Tribromophenol	6 % 10-69	S	07/11/13 17:14	jk	EPA 625
Surrogate: p-Terphenyl-d14	31 % 11-97	S	07/11/13 17:14	jk	EPA 625
Total Metals - STL					
Aluminum	21 mg/L		07/11/13 13:18	WPS	EPA 200.7 R4.4*
Mercury	0.022 mg/L		07/15/13 12:25	WPS	EPA 245.1 R3.0 / 04KS SW 7470A
Arsenic	0.67 mg/L		07/11/13 13:18	WPS	EPA 200.7 R4.4 04KS
Barium	4.9 mg/L		07/11/13 13:18	WPS	EPA 200.7 R4.4 04KS
Cadmium	0.093 mg/L		07/11/13 13:18	WPS	EPA 200.7 R4.4 04KS
Chromium	0.36 mg/L		07/11/13 13:18	WPS	EPA 200.7 R4.4 04KS
Cobalt	0.10 mg/L		07/11/13 13:18	WPS	EPA 200.7 R4.4 04KS
Copper	0.051 mg/L		07/11/13 13:18	WPS	EPA 200.7 R4.4 04KS
Iron	1300 mg/L		07/15/13 14:51	WPS	EPA 200.7 R4.4 04KS
Lead	0.22 mg/L		07/11/13 13:18	WPS	EPA 200.7 R4.4 04KS
Selenium	0.034 mg/L		07/11/13 13:18	WPS	EPA 200.7 R4.4 04KS



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Date Received: 07/10/13 12:08
Report Date: 07/23/13
Customer #: 277310

Revised Laboratory Results

Sample No: **3071296-05**
Sample Description: **316K AST-2**

Collect Date: **07/09/13 21:00**
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<u>Total Metals - STL</u>					
Silver	0.0090 mg/L		07/11/13 13:18	WPS	EPA 200.7 R4.4 04KS
Thallium	0.075 mg/L		07/11/13 13:18	WPS	EPA 200.7 R4.4 04KS
Zinc	19 mg/L		07/11/13 13:18	WPS	EPA 200.7 R4.4 04KS
<u>Volatile Organics - STL</u>					
1,1,1-Trichloroethane	< 120 ug/L		07/15/13 20:11	BP	EPA 624 04KS
1,1,2,2-Tetrachloroethane	< 120 ug/L		07/15/13 20:11	BP	EPA 624 04KS
1,1,2-Trichloroethane	< 120 ug/L		07/15/13 20:11	BP	EPA 624 04KS
1,1-Dichloroethane	< 120 ug/L		07/15/13 20:11	BP	EPA 624 04KS
1,1-Dichloroethene	< 120 ug/L		07/15/13 20:11	BP	EPA 624 04KS
1,2-Dichlorobenzene	< 120 ug/L		07/15/13 20:11	BP	EPA 624 04KS
1,2-Dichloroethane	< 120 ug/L		07/15/13 20:11	BP	EPA 624 04KS
1,2-Dichloropropane	< 120 ug/L		07/15/13 20:11	BP	EPA 624 04KS
1,3-Dichlorobenzene	< 120 ug/L		07/15/13 20:11	BP	EPA 624 04KS
1,4-Dichlorobenzene	< 120 ug/L		07/15/13 20:11	BP	EPA 624 04KS
2-Chloroethylvinyl ether	< 120 ug/L		07/15/13 20:11	BP	EPA 624 04KS
Acetone	72000 ug/L		07/15/13 18:24	BP	EPA 624*
Acrolein	< 620 ug/L		07/15/13 20:11	BP	EPA 624 04KS
Acrylonitrile	< 250 ug/L		07/15/13 20:11	BP	EPA 624 04KS
Benzene	150 ug/L		07/15/13 20:11	BP	EPA 624 04KS
Bromodichloromethane	< 120 ug/L		07/15/13 20:11	BP	EPA 624 04KS
Bromoform	< 120 ug/L		07/15/13 20:11	BP	EPA 624 04KS
Bromomethane	< 250 ug/L		07/15/13 20:11	BP	EPA 624 04KS
Carbon tetrachloride	< 120 ug/L		07/15/13 20:11	BP	EPA 624 04KS
Chlorobenzene	< 120 ug/L		07/15/13 20:11	BP	EPA 624 04KS
Chloroethane	< 250 ug/L		07/15/13 20:11	BP	EPA 624 04KS
Chloroform	< 120 ug/L		07/15/13 20:11	BP	EPA 624 04KS
Chloromethane	< 250 ug/L		07/15/13 20:11	BP	EPA 624 04KS
cis-1,3-Dichloropropene	< 120 ug/L		07/15/13 20:11	BP	EPA 624 04KS
Dibromochloromethane	< 120 ug/L		07/15/13 20:11	BP	EPA 624 04KS
Ethylbenzene	< 120 ug/L		07/15/13 20:11	BP	EPA 624 04KS
m,p-Xylene	< 250 ug/L		07/15/13 20:11	BP	EPA 624*
Methylene chloride	< 120 ug/L		07/15/13 20:11	BP	EPA 624 04KS
o-Xylene	< 120 ug/L		07/15/13 20:11	BP	EPA 624*



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Date Received: 07/10/13 12:08
Report Date: 07/23/13
Customer #: 277310

Revised Laboratory Results

Sample No: **3071296-05**
Sample Description: **316K AST-2**

Collect Date: **07/09/13 21:00**
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<u>Volatile Organics - STL</u>					
Tetrachloroethene	< 120 ug/L		07/15/13 20:11	BP	EPA 624 04KS
Toluene	< 120 ug/L		07/15/13 20:11	BP	EPA 624 04KS
trans-1,2-Dichloroethene	< 120 ug/L		07/15/13 20:11	BP	EPA 624 04KS
trans-1,3-Dichloropropene	< 120 ug/L		07/15/13 20:11	BP	EPA 624 04KS
Trichloroethene	< 120 ug/L		07/15/13 20:11	BP	EPA 624 04KS
Trichlorofluoromethane	< 120 ug/L		07/15/13 20:11	BP	EPA 624 04KS
Vinyl chloride	< 120 ug/L		07/15/13 20:11	BP	EPA 624 04KS
Surrogate: 1,2-Dichloroethane-d4	79 % 65.6-134		07/15/13 20:11	BP	EPA 624
Surrogate: Toluene-d8	81 % 75.4-120		07/15/13 20:11	BP	EPA 624
Surrogate: Bromofluorobenzene	89 % 61-140		07/15/13 20:11	BP	EPA 624

Sample No: **3071296-06**
Sample Description: **Trip Blank #2**

Collect Date: **07/09/13 00:00**
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<u>Volatile Organics - STL</u>					
1,1,1-Trichloroethane	< 5.0 ug/L		07/15/13 15:17	BP	EPA 624 04KS
1,1,2,2-Tetrachloroethane	< 5.0 ug/L		07/15/13 15:17	BP	EPA 624 04KS
1,1,2-Trichloroethane	< 5.0 ug/L		07/15/13 15:17	BP	EPA 624 04KS
1,1-Dichloroethane	< 5.0 ug/L		07/15/13 15:17	BP	EPA 624 04KS
1,1-Dichloroethene	< 5.0 ug/L		07/15/13 15:17	BP	EPA 624 04KS
1,2-Dichlorobenzene	< 5.0 ug/L		07/15/13 15:17	BP	EPA 624 04KS
1,2-Dichloroethane	< 5.0 ug/L		07/15/13 15:17	BP	EPA 624 04KS
1,2-Dichloropropane	< 5.0 ug/L		07/15/13 15:17	BP	EPA 624 04KS
1,3-Dichlorobenzene	< 5.0 ug/L		07/15/13 15:17	BP	EPA 624 04KS
1,4-Dichlorobenzene	< 5.0 ug/L		07/15/13 15:17	BP	EPA 624 04KS
2-Chloroethylvinyl ether	< 5.0 ug/L		07/15/13 15:17	BP	EPA 624 04KS
Acetone	17 ug/L		07/15/13 15:17	BP	EPA 624*
Acrolein	< 25 ug/L		07/15/13 15:17	BP	EPA 624 04KS
Acrylonitrile	< 10 ug/L		07/15/13 15:17	BP	EPA 624 04KS
Benzene	< 5.0 ug/L		07/15/13 15:17	BP	EPA 624 04KS
Bromodichloromethane	< 5.0 ug/L		07/15/13 15:17	BP	EPA 624 04KS



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Customer #: 277310

Revised Laboratory Results

Sample No: **3071296-06**
Sample Description: **Trip Blank #2**

Collect Date: **07/09/13 00:00**
Matrix: **Waste Water**

Parameters	Result	Qual	Analysis Date	Analyst	Method
<u>Volatile Organics - STL</u>					
Bromoform	< 5.0 ug/L		07/15/13 15:17	BP	EPA 624 04KS
Bromomethane	< 10 ug/L		07/15/13 15:17	BP	EPA 624 04KS
Carbon tetrachloride	< 5.0 ug/L		07/15/13 15:17	BP	EPA 624 04KS
Chlorobenzene	< 5.0 ug/L		07/15/13 15:17	BP	EPA 624 04KS
Chloroethane	< 10 ug/L		07/15/13 15:17	BP	EPA 624 04KS
Chloroform	< 5.0 ug/L		07/15/13 15:17	BP	EPA 624 04KS
Chloromethane	< 10 ug/L		07/15/13 15:17	BP	EPA 624 04KS
cis-1,3-Dichloropropene	< 5.0 ug/L		07/15/13 15:17	BP	EPA 624 04KS
Dibromochloromethane	< 5.0 ug/L		07/15/13 15:17	BP	EPA 624 04KS
Ethylbenzene	< 5.0 ug/L		07/15/13 15:17	BP	EPA 624 04KS
m,p-Xylene	< 10 ug/L		07/15/13 15:17	BP	EPA 624*
Methylene chloride	< 5.0 ug/L		07/15/13 15:17	BP	EPA 624 04KS
o-Xylene	< 5.0 ug/L		07/15/13 15:17	BP	EPA 624*
Tetrachloroethene	< 5.0 ug/L		07/15/13 15:17	BP	EPA 624 04KS
Toluene	< 5.0 ug/L		07/15/13 15:17	BP	EPA 624 04KS
trans-1,2-Dichloroethene	< 5.0 ug/L		07/15/13 15:17	BP	EPA 624 04KS
trans-1,3-Dichloropropene	< 5.0 ug/L		07/15/13 15:17	BP	EPA 624 04KS
Trichloroethene	< 5.0 ug/L		07/15/13 15:17	BP	EPA 624 04KS
Trichlorofluoromethane	< 5.0 ug/L		07/15/13 15:17	BP	EPA 624 04KS
Vinyl chloride	< 5.0 ug/L		07/15/13 15:17	BP	EPA 624 04KS
Surrogate: 1,2-Dichloroethane-d4	88 % 65.6-134		07/15/13 15:17	BP	EPA 624
Surrogate: Toluene-d8	84 % 75.4-120		07/15/13 15:17	BP	EPA 624
Surrogate: Bromofluorobenzene	91 % 61-140		07/15/13 15:17	BP	EPA 624



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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 B311336 - 04-No Prep WC								
Blank (B311336-BLK1)			Prepared & Analyzed: 07/10/13					
BOD	< 6.0	mg/L						
LCS (B311336-BS1)			Prepared & Analyzed: 07/10/13					
BOD	193	mg/L	198.0		98	34.6-115.4		
Duplicate (B311336-DUP1)			Prepared & Analyzed: 07/10/13					
BOD	656	mg/L		648			1	20
Duplicate (B311336-DUP2)			Prepared & Analyzed: 07/10/13					
BOD	55.0	mg/L		57.4			4	20
Duplicate (B311336-DUP3)			Prepared & Analyzed: 07/10/13					
BOD - soluble	36000	mg/L		35800			0.4	20
Batch B311365 - 04-No Prep WC								
Blank (B311365-BLK1)			Prepared & Analyzed: 07/10/13					
COD	< 100	mg/L						
LCS (B311365-BS1)			Prepared & Analyzed: 07/10/13					
COD	503	mg/L	500.0		101	95-105		
Duplicate (B311365-DUP1)			Prepared & Analyzed: 07/10/13					
COD	902	mg/L		893			1	20
Batch B311382 - 04-No Prep WC								
Blank (B311382-BLK1)			Prepared & Analyzed: 07/10/13					
Solids - total dissolved solids (TDS)	< 17	mg/L						
LCS (B311382-BS1)			Prepared & Analyzed: 07/10/13					
Solids - total dissolved solids (TDS)	965	mg/L	1000		96	75.1-119		
Duplicate (B311382-DUP1)			Prepared & Analyzed: 07/10/13					
Solids - total dissolved solids (TDS)	43100	mg/L		42900			0.5	5
Batch B311386 - 04-No Prep WC								
LCS (B311386-BS1)			Prepared & Analyzed: 07/10/13					
Conductivity	1380	umhos/cm	1413		98	90-110		
Duplicate (B311386-DUP1)			Prepared & Analyzed: 07/10/13					
Conductivity	24400	umhos/cm		24400			0	20
Batch B311404 - 04-No Prep WC								
Blank (B311404-BLK1)			Prepared & Analyzed: 07/10/13					
Solids - total suspended solids (TSS)	< 2.0	mg/L						



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Bridgeton Landfill
13570 St Charles Rock Road
St. Louis, MO 63044
Attn: Kevin Kamp

Date Received: 07/10/13 12:08
Report Date: 07/23/13
Customer #: 277310

Revised Laboratory Results

General Chemistry - Quality Control

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B311404 - 04-No Prep WC								
LCS (B311404-BS1)			Prepared & Analyzed: 07/10/13					
Solids - total suspended solids (TSS)	100	mg/L	100.0		100	82.9-110		
Duplicate (B311404-DUP1)			Source: 3071206-01 Prepared & Analyzed: 07/10/13					
Solids - total suspended solids (TSS)	1540	mg/L		1520			1	5
Duplicate (B311404-DUP2)			Source: 3071240-05 Prepared & Analyzed: 07/10/13					
Solids - total suspended solids (TSS)	51.7	mg/L		50.0			3	5
Batch B311416 - 04-No Prep WC								
Blank (B311416-BLK1)			Prepared & Analyzed: 07/16/13					
Phenol	< 0.050	mg/L						
LCS (B311416-BS1)			Prepared & Analyzed: 07/16/13					
Phenol	0.525	mg/L	0.5000		105	80-120		
Matrix Spike (B311416-MS1)			Source: 3071296-01 Prepared & Analyzed: 07/16/13					
Phenol	Q4 65.8	mg/L	5.000	69.8	NR	75-125		
Matrix Spike Dup (B311416-MSD1)			Source: 3071296-01 Prepared & Analyzed: 07/16/13					
Phenol	Q4 71.5	mg/L	5.000	69.8	35	75-125	8	20
Batch B311420 - 04-No Prep WC								
Calibration Check (B311420-CCV1)			Prepared & Analyzed: 07/10/13					
pH	H 6.99	pH Units	7.000		100	0-200		
Calibration Check (B311420-CCV2)			Prepared & Analyzed: 07/10/13					
pH	H 7.01	pH Units	7.000		100	0-200		
Duplicate (B311420-DUP1)			Source: 3071240-04 Prepared & Analyzed: 07/10/13					
pH	H 3.61	pH Units		3.63			0.6	10
Batch B311429 - 04-No Prep WC								
Blank (B311429-BLK1)			Prepared & Analyzed: 07/12/13					
Oil & Grease - total	< 5.0	mg/L						
LCS (B311429-BS1)			Prepared & Analyzed: 07/12/13					
Oil & Grease - total	36.8	mg/L	40.00		92	78-114		
LCS Dup (B311429-BSD1)			Prepared & Analyzed: 07/12/13					
Oil & Grease - total	36.8	mg/L	40.00		92	78-114	0	18
Nutrients - Quality Control								
Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit



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Revised Laboratory Results

Nutrients - Quality Control

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B311417 - 04-No Prep WC								
Blank (B311417-BLK1)			Prepared & Analyzed: 07/10/13					
Ammonia-N	< 0.010	mg/L						
LCS (B311417-BS1)			Prepared & Analyzed: 07/10/13					
Ammonia-N	10.0	mg/L	10.00		100	80-120		
Matrix Spike (B311417-MS1)			Prepared & Analyzed: 07/10/13					
Ammonia-N	13.2	mg/L	10.00	3.44	98	80-120		
Matrix Spike Dup (B311417-MSD1)			Prepared & Analyzed: 07/10/13					
Ammonia-N	13.3	mg/L	10.00	3.44	99	80-120	0.8	20

Batch B311674 - 04-No Prep WC

Blank (B311674-BLK1)			Prepared & Analyzed: 07/15/13					
Phosphorus - total as P	< 0.050	mg/L						
LCS (B311674-BS1)			Prepared & Analyzed: 07/15/13					
Phosphorus - total as P	0.519	mg/L	0.5000		104	80-120		
Matrix Spike (B311674-MS1)			Prepared & Analyzed: 07/15/13					
Phosphorus - total as P	Q4 3.75	mg/L	0.5000	2.95	160	80-120		
Matrix Spike Dup (B311674-MSD1)			Prepared & Analyzed: 07/15/13					
Phosphorus - total as P	Q4 4.05	mg/L	0.5000	2.95	220	80-120	8	20

Total Metals - Quality Control

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B311379 - 04 EPA 200.2 R2.8								
Blank (B311379-BLK1)			Prepared: 07/10/13 Analyzed: 07/11/13					
Aluminum	< 0.015	mg/L						
Arsenic	< 0.015	mg/L						
Barium	< 0.010	mg/L						
Cadmium	< 0.0020	mg/L						
Chromium	< 0.0020	mg/L						
Cobalt	< 0.0020	mg/L						
Copper	< 0.0020	mg/L						
Iron	< 0.010	mg/L						
Lead	< 0.010	mg/L						
Selenium	< 0.010	mg/L						
Silver	< 0.0020	mg/L						
Thallium	< 0.020	mg/L						



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Total Metals - Quality Control

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B311379 - 04 EPA 200.2 R2.8								
Blank (B311379-BLK1)			Prepared: 07/10/13 Analyzed: 07/11/13					
Zinc	< 0.010	mg/L						
LCS (B311379-BS1)			Prepared: 07/10/13 Analyzed: 07/11/13					
Aluminum	0.110	mg/L	0.1000		110	85-115		
Arsenic	0.0953	mg/L	0.1000		95	85-115		
Barium	0.105	mg/L	0.1000		105	85-115		
Cadmium	0.0988	mg/L	0.1000		99	85-115		
Chromium	0.0996	mg/L	0.1000		100	85-115		
Cobalt	0.0982	mg/L	0.1000		98	85-115		
Copper	0.0997	mg/L	0.1000		100	85-115		
Iron	0.103	mg/L	0.1000		103	85-115		
Lead	0.104	mg/L	0.1000		104	85-115		
Selenium	0.0902	mg/L	0.1000		90	85-115		
Silver	0.0260	mg/L	0.02500		104	85-115		
Thallium	0.101	mg/L	0.1000		101	85-115		
Zinc	0.0974	mg/L	0.1000		97	85-115		
Matrix Spike (B311379-MS1)			Source: 3070858-01		Prepared: 07/10/13 Analyzed: 07/11/13			
Aluminum	Q4 1.73	mg/L	0.1000	1.76	NR	70-130		
Arsenic	0.0964	mg/L	0.1000	ND	96	70-130		
Barium	0.115	mg/L	0.1000	0.0152	100	70-130		
Cadmium	0.0997	mg/L	0.1000	ND	100	70-130		
Chromium	0.108	mg/L	0.1000	0.00858	100	70-130		
Cobalt	0.0964	mg/L	0.1000	ND	96	70-130		
Copper	0.121	mg/L	0.1000	0.0257	95	70-130		
Iron	Q3 0.329	mg/L	0.1000	0.280	49	70-130		
Lead	0.0976	mg/L	0.1000	0.00404	94	70-130		
Selenium	0.104	mg/L	0.1000	ND	104	70-130		
Silver	0.0299	mg/L	0.02500	0.00586	96	70-130		
Thallium	0.0857	mg/L	0.1000	ND	86	70-130		
Zinc	0.112	mg/L	0.1000	0.0109	101	70-130		
Matrix Spike Dup (B311379-MSD1)			Source: 3070858-01		Prepared: 07/10/13 Analyzed: 07/11/13			
Aluminum	Q4 1.66	mg/L	0.1000	1.76	NR	70-130	4	20
Arsenic	0.107	mg/L	0.1000	ND	107	70-130	10	20
Barium	0.116	mg/L	0.1000	0.0152	101	70-130	0.4	20
Cadmium	0.0998	mg/L	0.1000	ND	100	70-130	0.1	20
Chromium	0.109	mg/L	0.1000	0.00858	100	70-130	0.6	20
Cobalt	0.0947	mg/L	0.1000	ND	95	70-130	2	20
Copper	0.118	mg/L	0.1000	0.0257	92	70-130	2	20
Iron	Q3 0.324	mg/L	0.1000	0.280	44	70-130	2	20



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Revised Laboratory Results

Total Metals - Quality Control

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B311379 - 04 EPA 200.2 R2.8								
Matrix Spike Dup (B311379-MSD1)		Source: 3070858-01		Prepared: 07/10/13 Analyzed: 07/11/13				
Lead	0.0965	mg/L	0.1000	0.00404	93	70-130	1	20
Selenium	0.100	mg/L	0.1000	ND	100	70-130	4	20
Silver	0.0301	mg/L	0.02500	0.00586	97	70-130	0.7	20
Thallium	0.0886	mg/L	0.1000	ND	89	70-130	3	20
Zinc	0.112	mg/L	0.1000	0.0109	102	70-130	0.8	20

Batch B311610 - 04-SW 7470A/245.1

Blank (B311610-BLK1)		Prepared & Analyzed: 07/15/13						
Mercury	< 0.0002	mg/L						
LCS (B311610-BS1)		Prepared & Analyzed: 07/15/13						
Mercury	0.00201	mg/L	0.002000		100	85-115		
Matrix Spike (B311610-MS1)		Source: 3071777-01		Prepared & Analyzed: 07/15/13				
Mercury	0.0201	mg/L	0.02000	ND	100	70-130		
Matrix Spike Dup (B311610-MSD1)		Source: 3071777-01		Prepared & Analyzed: 07/15/13				
Mercury	0.0207	mg/L	0.02000	ND	104	70-130	3	20

Volatile Organics - Quality Control

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B311640 - 04-No Prep VOA								
Blank (B311640-BLK1)		Prepared & Analyzed: 07/15/13						
1,1,1-Trichloroethane	< 5.0	ug/L						
1,1,2,2-Tetrachloroethane	< 5.0	ug/L						
1,1,2-Trichloroethane	< 5.0	ug/L						
1,1-Dichloroethane	< 5.0	ug/L						
1,1-Dichloroethene	< 5.0	ug/L						
1,2-Dichlorobenzene	< 5.0	ug/L						
1,2-Dichloroethane	< 5.0	ug/L						
1,2-Dichloropropane	< 5.0	ug/L						
1,3-Dichlorobenzene	< 5.0	ug/L						
1,4-Dichlorobenzene	< 5.0	ug/L						
2-Chloroethylvinyl ether	< 5.0	ug/L						
Acetone	< 10	ug/L						
Acrolein	< 25	ug/L						
Acrylonitrile	< 10	ug/L						
Benzene	< 5.0	ug/L						



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Revised Laboratory Results

Volatile Organics - Quality Control

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B311640 - 04-No Prep VOA								
Blank (B311640-BLK1)			Prepared & Analyzed: 07/15/13					
Bromodichloromethane	< 5.0	ug/L						
Bromoform	< 5.0	ug/L						
Bromomethane	< 10	ug/L						
Carbon tetrachloride	< 5.0	ug/L						
Chlorobenzene	< 5.0	ug/L						
Chloroethane	< 10	ug/L						
Chloroform	< 5.0	ug/L						
Chloromethane	< 10	ug/L						
cis-1,3-Dichloropropene	< 5.0	ug/L						
Dibromochloromethane	< 5.0	ug/L						
Ethylbenzene	< 5.0	ug/L						
m,p-Xylene	< 10	ug/L						
Methylene chloride	< 5.0	ug/L						
o-Xylene	< 5.0	ug/L						
Tetrachloroethene	< 5.0	ug/L						
Toluene	< 5.0	ug/L						
trans-1,2-Dichloroethene	< 5.0	ug/L						
trans-1,3-Dichloropropene	< 5.0	ug/L						
Trichloroethene	< 5.0	ug/L						
Trichlorofluoromethane	< 5.0	ug/L						
Vinyl chloride	< 5.0	ug/L						
<i>Surrogate: 1,2-Dichloroethane-d4</i>	24.6	ug/L	30.00		82	65.6-134		
<i>Surrogate: Toluene-d8</i>	24.7	ug/L	30.00		82	75.4-120		
<i>Surrogate: Bromofluorobenzene</i>	25.8	ug/L	30.00		86	61-140		
LCS (B311640-BS1)			Prepared & Analyzed: 07/15/13					
1,1,1-Trichloroethane	19.6	ug/L	20.00		98	75-125		
1,1,2,2-Tetrachloroethane	17.0	ug/L	20.00		85	73-129		
1,1,2-Trichloroethane	17.9	ug/L	20.00		90	73-129		
1,1-Dichloroethane	19.6	ug/L	20.00		98	75-140		
1,1-Dichloroethene	21.1	ug/L	20.00		106	71-136		
1,2-Dichlorobenzene	19.7	ug/L	20.00		98	70-122		
1,2-Dichloroethane	18.0	ug/L	20.00		90	77-126		
1,2-Dichloropropane	19.4	ug/L	20.00		97	80-126		
1,3-Dichlorobenzene	22.8	ug/L	20.00		114	77-125		
1,4-Dichlorobenzene	21.6	ug/L	20.00		108	74-119		
2-Chloroethylvinyl ether	18.4	ug/L	20.00		92	59-127		
Acrolein	69.6	ug/L	100.0		70	36-139		
Acrylonitrile	13.5	ug/L	20.00		68	43-133		
Benzene	19.6	ug/L	20.00		98	75-123		



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Revised Laboratory Results

Volatile Organics - Quality Control

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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Batch B311640 - 04-No Prep VOA

LCS (B311640-BS1)		Prepared & Analyzed: 07/15/13						
Bromodichloromethane	19.6	ug/L	20.00		98	72-126		
Bromoform	17.5	ug/L	20.00		87	50-121		
Bromomethane	11.9	ug/L	20.00		59	19-149		
Carbon tetrachloride	20.9	ug/L	20.00		104	75-123		
Chlorobenzene	20.0	ug/L	20.00		100	76-121		
Chloroethane	13.2	ug/L	20.00		66	24-151		
Chloroform	20.3	ug/L	20.00		101	73-136		
Chloromethane	13.0	ug/L	20.00		65	44-126		
cis-1,3-Dichloropropene	20.5	ug/L	20.00		103	79-121		
Dibromochloromethane	18.0	ug/L	20.00		90	73-122		
Ethylbenzene	19.4	ug/L	20.00		97	76-129		
m,p-Xylene	40.0	ug/L	40.00		100	71-123		
Methylene chloride	20.1	ug/L	20.00		101	76-143		
o-Xylene	20.2	ug/L	20.00		101	72-123		
Tetrachloroethene	17.2	ug/L	20.00		86	53-147		
Toluene	21.0	ug/L	20.00		105	75-128		
trans-1,2-Dichloroethene	20.4	ug/L	20.00		102	72-136		
trans-1,3-Dichloropropene	20.3	ug/L	20.00		101	72-120		
Trichloroethene	20.1	ug/L	20.00		101	74-131		
Trichlorofluoromethane	20.0	ug/L	20.00		100	68-134		
Vinyl chloride	19.1	ug/L	20.00		95	48-129		
Surrogate: 1,2-Dichloroethane-d4	24.4	ug/L	30.00		81	60.5-136		
Surrogate: Toluene-d8	25.1	ug/L	30.00		84	71.9-118		
Surrogate: Bromofluorobenzene	23.7	ug/L	30.00		79	71.3-122		

Matrix Spike (B311640-MS1)		Source: 3071788-05		Prepared & Analyzed: 07/15/13				
1,1,1-Trichloroethane		8.67	ug/L	20.00	ND	43	27-153	
1,1,2,2-Tetrachloroethane		20.5	ug/L	20.00	ND	102	32-186	
1,1,2-Trichloroethane	Q3	40.3	ug/L	20.00	ND	202	38-171	
1,1-Dichloroethane		16.4	ug/L	20.00	ND	82	39-162	
1,1-Dichloroethene		13.9	ug/L	20.00	ND	70	25-172	
1,2-Dichlorobenzene		18.3	ug/L	20.00	ND	92	57-129	
1,2-Dichloroethane		17.3	ug/L	20.00	ND	86	60-135	
1,2-Dichloropropane		17.4	ug/L	20.00	ND	87	55-140	
1,3-Dichlorobenzene		19.0	ug/L	20.00	ND	95	53-133	
1,4-Dichlorobenzene		18.3	ug/L	20.00	ND	91	61-125	
Acrolein		150	ug/L	100.0	ND	150	25-187	
Acrylonitrile	Q3	28.4	ug/L	20.00	ND	142	39-135	
Benzene		16.4	ug/L	20.00	ND	82	39-150	
Bromodichloromethane	Q1	11.3	ug/L	20.00	ND	56	58-135	

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Revised Laboratory Results

Volatile Organics - Quality Control

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B311640 - 04-No Prep VOA								
Matrix Spike (B311640-MS1)		Source: 3071788-05		Prepared & Analyzed: 07/15/13				
Bromoform	21.9	ug/L	20.00	ND	110	34-123		
Bromomethane	11.0	ug/L	20.00	ND	55	25-148		
Carbon tetrachloride	Q3 2.19	ug/L	20.00	ND	11	25-157		
Chlorobenzene	18.4	ug/L	20.00	ND	92	59-131		
Chloroethane	Q3 1.33	ug/L	20.00	ND	7	25-154		
Chloroform	15.4	ug/L	20.00	ND	77	48-153		
Chloromethane	11.4	ug/L	20.00	ND	57	25-150		
cis-1,3-Dichloropropene	18.4	ug/L	20.00	ND	92	60-131		
Dibromochloromethane	18.3	ug/L	20.00	ND	92	57-130		
Ethylbenzene	19.5	ug/L	20.00	3.73	79	42-146		
m,p-Xylene	36.4	ug/L	40.00	ND	91	37-143		
Methylene chloride	13.5	ug/L	20.00	ND	68	52-162		
o-Xylene	18.9	ug/L	20.00	1.51	87	46-139		
Tetrachloroethene	13.0	ug/L	20.00	ND	65	25-134		
Toluene	27.0	ug/L	20.00	11.7	76	25-167		
trans-1,2-Dichloroethene	14.6	ug/L	20.00	ND	73	29-156		
trans-1,3-Dichloropropene	20.8	ug/L	20.00	ND	104	57-123		
Trichloroethene	15.6	ug/L	20.00	ND	78	38-149		
Trichlorofluoromethane	10.8	ug/L	20.00	ND	54	25-176		
Vinyl chloride	10.6	ug/L	20.00	ND	53	25-156		
Surrogate: 1,2-Dichloroethane-d4	25.4	ug/L	30.00		85	58.5-136		
Surrogate: Toluene-d8	25.9	ug/L	30.00		86	72.4-120		
Surrogate: Bromofluorobenzene	27.8	ug/L	30.00		93	56.9-139		
Matrix Spike Dup (B311640-MSD1)		Source: 3071788-05		Prepared & Analyzed: 07/15/13				
1,1,1-Trichloroethane	8.50	ug/L	20.00	ND	43	27-153	2	40
1,1,2,2-Tetrachloroethane	21.0	ug/L	20.00	ND	105	32-186	2	40
1,1,2-Trichloroethane	Q3 40.3	ug/L	20.00	ND	201	38-171	0.1	40
1,1-Dichloroethane	15.1	ug/L	20.00	ND	76	39-162	8	40
1,1-Dichloroethene	13.3	ug/L	20.00	ND	66	25-172	5	40
1,2-Dichlorobenzene	17.8	ug/L	20.00	ND	89	57-129	3	40
1,2-Dichloroethane	17.3	ug/L	20.00	ND	86	60-135	0.1	40
1,2-Dichloropropane	17.2	ug/L	20.00	ND	86	55-140	1	40
1,3-Dichlorobenzene	19.4	ug/L	20.00	ND	97	53-133	2	40
1,4-Dichlorobenzene	18.5	ug/L	20.00	ND	92	61-125	0.9	40
Acrolein	136	ug/L	100.0	ND	136	25-187	10	40
Acrylonitrile	Q3 28.7	ug/L	20.00	ND	143	39-135	0.9	40
Benzene	15.6	ug/L	20.00	ND	78	39-150	5	40
Bromodichloromethane	11.8	ug/L	20.00	ND	59	58-135	5	40
Bromoform	21.8	ug/L	20.00	ND	109	34-123	0.8	40



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Bridgeton Landfill
13570 St Charles Rock Road
St. Louis, MO 63044
Attn: Kevin Kamp

Date Received: 07/10/13 12:08
Report Date: 07/23/13
Customer #: 277310

Revised Laboratory Results

Volatile Organics - Quality Control

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B311640 - 04-No Prep VOA								
Matrix Spike Dup (B311640-MSD1)		Source: 3071788-05		Prepared & Analyzed: 07/15/13				
Bromomethane	10.7	ug/L	20.00	ND	53	25-148	3	40
Carbon tetrachloride	Q3 2.12	ug/L	20.00	ND	11	25-157	3	40
Chlorobenzene	18.5	ug/L	20.00	ND	92	59-131	0.6	40
Chloroethane	Q3 1.03	ug/L	20.00	ND	5	25-154	25	40
Chloroform	16.0	ug/L	20.00	ND	80	48-153	4	40
Chloromethane	10.7	ug/L	20.00	ND	53	25-150	7	40
cis-1,3-Dichloropropene	19.0	ug/L	20.00	ND	95	60-131	3	40
Dibromochloromethane	19.0	ug/L	20.00	ND	95	57-130	4	40
Ethylbenzene	19.4	ug/L	20.00	3.73	79	42-146	0.1	40
m,p-Xylene	35.6	ug/L	40.00	ND	89	37-143	2	40
Methylene chloride	13.0	ug/L	20.00	ND	65	52-162	4	40
o-Xylene	18.8	ug/L	20.00	1.51	87	46-139	0.1	40
Tetrachloroethene	12.4	ug/L	20.00	ND	62	25-134	5	40
Toluene	26.8	ug/L	20.00	11.7	76	25-167	0.6	40
trans-1,2-Dichloroethene	14.8	ug/L	20.00	ND	74	29-156	2	40
trans-1,3-Dichloropropene	20.9	ug/L	20.00	ND	104	57-123	0.3	40
Trichloroethene	15.1	ug/L	20.00	ND	75	38-149	3	40
Trichlorofluoromethane	10.0	ug/L	20.00	ND	50	25-176	7	40
Vinyl chloride	7.62	ug/L	20.00	ND	38	25-156	32	40
Surrogate: 1,2-Dichloroethane-d4	24.4	ug/L	30.00		81	58.5-136		
Surrogate: Toluene-d8	25.3	ug/L	30.00		84	72.4-120		
Surrogate: Bromofluorobenzene	27.8	ug/L	30.00		93	56.9-139		

Batch B311730 - 04-No Prep VOA

Blank (B311730-BLK1)		Prepared & Analyzed: 07/16/13						
1,1,1-Trichloroethane	< 5.0	ug/L						
1,1,2,2-Tetrachloroethane	< 5.0	ug/L						
1,1,2-Trichloroethane	< 5.0	ug/L						
1,1-Dichloroethane	< 5.0	ug/L						
1,1-Dichloroethene	< 5.0	ug/L						
1,2-Dichlorobenzene	< 5.0	ug/L						
1,2-Dichloroethane	< 5.0	ug/L						
1,2-Dichloropropane	< 5.0	ug/L						
1,3-Dichlorobenzene	< 5.0	ug/L						
1,4-Dichlorobenzene	< 5.0	ug/L						
2-Chloroethylvinyl ether	< 5.0	ug/L						
Acetone	< 10	ug/L						
Acrolein	< 25	ug/L						
Acrylonitrile	< 10	ug/L						



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Customer #: 277310

Revised Laboratory Results

Volatile Organics - Quality Control

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B311730 - 04-No Prep VOA								
Blank (B311730-BLK1)			Prepared & Analyzed: 07/16/13					
Benzene	< 5.0	ug/L						
Bromodichloromethane	< 5.0	ug/L						
Bromoform	< 5.0	ug/L						
Bromomethane	< 10	ug/L						
Carbon tetrachloride	< 5.0	ug/L						
Chlorobenzene	< 5.0	ug/L						
Chloroethane	< 10	ug/L						
Chloroform	< 5.0	ug/L						
Chloromethane	< 10	ug/L						
cis-1,3-Dichloropropene	< 5.0	ug/L						
Dibromochloromethane	< 5.0	ug/L						
Ethylbenzene	< 5.0	ug/L						
m,p-Xylene	< 10	ug/L						
Methylene chloride	< 5.0	ug/L						
o-Xylene	< 5.0	ug/L						
Tetrachloroethene	< 5.0	ug/L						
Toluene	< 5.0	ug/L						
trans-1,2-Dichloroethene	< 5.0	ug/L						
trans-1,3-Dichloropropene	< 5.0	ug/L						
Trichloroethene	< 5.0	ug/L						
Trichlorofluoromethane	< 5.0	ug/L						
Vinyl chloride	< 5.0	ug/L						
Surrogate: 1,2-Dichloroethane-d4	26.5	ug/L	30.00		88	65.6-134		
Surrogate: Toluene-d8	25.1	ug/L	30.00		84	75.4-120		
Surrogate: Bromofluorobenzene	26.9	ug/L	30.00		90	61-140		
LCS (B311730-BS1)			Prepared & Analyzed: 07/16/13					
1,1,1-Trichloroethane	19.3	ug/L	20.00		97	75-125		
1,1,2,2-Tetrachloroethane	18.6	ug/L	20.00		93	73-129		
1,1,2-Trichloroethane	19.0	ug/L	20.00		95	73-129		
1,1-Dichloroethane	19.2	ug/L	20.00		96	75-140		
1,1-Dichloroethene	19.2	ug/L	20.00		96	71-136		
1,2-Dichlorobenzene	20.0	ug/L	20.00		100	70-122		
1,2-Dichloroethane	19.4	ug/L	20.00		97	77-126		
1,2-Dichloropropane	19.2	ug/L	20.00		96	80-126		
1,3-Dichlorobenzene	23.7	ug/L	20.00		118	77-125		
1,4-Dichlorobenzene	23.6	ug/L	20.00		118	74-119		
2-Chloroethylvinyl ether	19.1	ug/L	20.00		96	59-127		
Acrolein	63.6	ug/L	100.0		64	36-139		
Acrylonitrile	14.8	ug/L	20.00		74	43-133		



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Revised Laboratory Results

Volatile Organics - Quality Control

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B311730 - 04-No Prep VOA								
LCS (B311730-BS1)			Prepared & Analyzed: 07/16/13					
Benzene	19.4	ug/L	20.00		97	75-123		
Bromodichloromethane	20.0	ug/L	20.00		100	72-126		
Bromoform	19.3	ug/L	20.00		96	50-121		
Bromomethane	8.71	ug/L	20.00		44	19-149		
Carbon tetrachloride	19.2	ug/L	20.00		96	75-123		
Chlorobenzene	20.7	ug/L	20.00		104	76-121		
Chloroethane	14.6	ug/L	20.00		73	24-151		
Chloroform	19.9	ug/L	20.00		100	73-136		
Chloromethane	12.9	ug/L	20.00		65	44-126		
cis-1,3-Dichloropropene	20.6	ug/L	20.00		103	79-121		
Dibromochloromethane	18.7	ug/L	20.00		93	73-122		
Ethylbenzene	20.1	ug/L	20.00		100	76-129		
m,p-Xylene	40.6	ug/L	40.00		101	71-123		
Methylene chloride	20.3	ug/L	20.00		102	76-143		
o-Xylene	20.7	ug/L	20.00		103	72-123		
Tetrachloroethene	17.2	ug/L	20.00		86	53-147		
Toluene	20.2	ug/L	20.00		101	75-128		
trans-1,2-Dichloroethene	19.0	ug/L	20.00		95	72-136		
trans-1,3-Dichloropropene	22.4	ug/L	20.00		112	72-120		
Trichloroethene	19.3	ug/L	20.00		96	74-131		
Trichlorofluoromethane	18.2	ug/L	20.00		91	68-134		
Vinyl chloride	16.7	ug/L	20.00		83	48-129		
Surrogate: 1,2-Dichloroethane-d4	24.7	ug/L	30.00		82	60.5-136		
Surrogate: Toluene-d8	25.0	ug/L	30.00		83	71.9-118		
Surrogate: Bromofluorobenzene	26.4	ug/L	30.00		88	71.3-122		
Matrix Spike (B311730-MS1)			Source: 3071804-02		Prepared & Analyzed: 07/16/13			
1,1,1-Trichloroethane	14.1	ug/L	20.00	ND	71	27-153		
1,1,2,2-Tetrachloroethane	21.5	ug/L	20.00	ND	108	32-186		
1,1,2-Trichloroethane	20.2	ug/L	20.00	ND	101	38-171		
1,1-Dichloroethane	16.5	ug/L	20.00	ND	83	39-162		
1,1-Dichloroethene	12.0	ug/L	20.00	ND	60	25-172		
1,2-Dichlorobenzene	17.6	ug/L	20.00	ND	88	57-129		
1,2-Dichloroethane	20.2	ug/L	20.00	ND	101	60-135		
1,2-Dichloropropane	19.1	ug/L	20.00	ND	95	55-140		
1,3-Dichlorobenzene	18.3	ug/L	20.00	ND	91	53-133		
1,4-Dichlorobenzene	17.9	ug/L	20.00	ND	90	61-125		
Acrolein	65.2	ug/L	100.0	ND	65	25-187		
Acrylonitrile	19.2	ug/L	20.00	ND	96	39-135		
Benzene	17.0	ug/L	20.00	ND	85	39-150		



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 Attn: Kevin Kamp

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Revised Laboratory Results

Volatile Organics - Quality Control

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B311730 - 04-No Prep VOA								
Matrix Spike (B311730-MS1)		Source: 3071804-02		Prepared & Analyzed: 07/16/13				
Bromodichloromethane	18.6	ug/L	20.00	ND	93	58-135		
Bromoform	21.8	ug/L	20.00	ND	109	34-123		
Bromomethane	Q3 3.50	ug/L	20.00	ND	17	25-148		
Carbon tetrachloride	13.4	ug/L	20.00	ND	67	25-157		
Chlorobenzene	19.5	ug/L	20.00	ND	98	59-131		
Chloroethane	Q3 4.04	ug/L	20.00	ND	20	25-154		
Chloroform	17.7	ug/L	20.00	ND	89	48-153		
Chloromethane	8.69	ug/L	20.00	ND	43	25-150		
cis-1,3-Dichloropropene	19.8	ug/L	20.00	ND	99	60-131		
Dibromochloromethane	20.0	ug/L	20.00	ND	100	57-130		
Ethylbenzene	17.5	ug/L	20.00	ND	87	42-146		
m,p-Xylene	35.9	ug/L	40.00	ND	90	37-143		
Methylene chloride	19.6	ug/L	20.00	ND	98	52-162		
o-Xylene	18.5	ug/L	20.00	ND	93	46-139		
Tetrachloroethene	12.8	ug/L	20.00	ND	64	25-134		
Toluene	27.2	ug/L	20.00	10.1	86	25-167		
trans-1,2-Dichloroethene	15.1	ug/L	20.00	ND	75	29-156		
trans-1,3-Dichloropropene	22.7	ug/L	20.00	ND	114	57-123		
Trichloroethene	16.0	ug/L	20.00	ND	80	38-149		
Trichlorofluoromethane	9.36	ug/L	20.00	ND	47	25-176		
Vinyl chloride	R 9.82	ug/L	20.00	ND	49	25-156		
Surrogate: 1,2-Dichloroethane-d4	27.4	ug/L	30.00		91	58.5-136		
Surrogate: Toluene-d8	26.4	ug/L	30.00		88	72.4-120		
Surrogate: Bromofluorobenzene	27.5	ug/L	30.00		92	56.9-139		
Matrix Spike Dup (B311730-MSD1)		Source: 3071804-02		Prepared & Analyzed: 07/16/13				
1,1,1-Trichloroethane	12.3	ug/L	20.00	ND	61	27-153	14	40
1,1,1,2-Tetrachloroethane	21.3	ug/L	20.00	ND	106	32-186	1	40
1,1,2-Trichloroethane	19.4	ug/L	20.00	ND	97	38-171	4	40
1,1-Dichloroethane	15.9	ug/L	20.00	ND	80	39-162	4	40
1,1-Dichloroethene	10.3	ug/L	20.00	ND	51	25-172	15	40
1,2-Dichlorobenzene	17.2	ug/L	20.00	ND	86	57-129	2	40
1,2-Dichloroethane	18.8	ug/L	20.00	ND	94	60-135	7	40
1,2-Dichloropropane	17.9	ug/L	20.00	ND	90	55-140	6	40
1,3-Dichlorobenzene	18.6	ug/L	20.00	ND	93	53-133	2	40
1,4-Dichlorobenzene	18.5	ug/L	20.00	ND	93	61-125	3	40
Acrolein	70.2	ug/L	100.0	ND	70	25-187	7	40
Acrylonitrile	18.7	ug/L	20.00	ND	93	39-135	3	40
Benzene	16.2	ug/L	20.00	ND	81	39-150	5	40
Bromodichloromethane	18.0	ug/L	20.00	ND	90	58-135	3	40



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Revised Laboratory Results

Volatile Organics - Quality Control

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B311730 - 04-No Prep VOA								
Matrix Spike Dup (B311730-MSD1)		Source: 3071804-02		Prepared & Analyzed: 07/16/13				
Bromoform	20.9	ug/L	20.00	ND	104	34-123	4	40
Bromomethane	Q3 4.37	ug/L	20.00	ND	22	25-148	22	40
Carbon tetrachloride	11.2	ug/L	20.00	ND	56	25-157	18	40
Chlorobenzene	19.4	ug/L	20.00	ND	97	59-131	0.8	40
Chloroethane	Q3 3.88	ug/L	20.00	ND	19	25-154	4	40
Chloroform	16.9	ug/L	20.00	ND	85	48-153	5	40
Chloromethane	7.13	ug/L	20.00	ND	36	25-150	20	40
cis-1,3-Dichloropropene	20.4	ug/L	20.00	ND	102	60-131	3	40
Dibromochloromethane	19.1	ug/L	20.00	ND	95	57-130	4	40
Ethylbenzene	16.9	ug/L	20.00	ND	84	42-146	3	40
m,p-Xylene	33.5	ug/L	40.00	ND	84	37-143	7	40
Methylene chloride	20.2	ug/L	20.00	ND	101	52-162	3	40
o-Xylene	17.4	ug/L	20.00	ND	87	46-139	6	40
Tetrachloroethene	11.6	ug/L	20.00	ND	58	25-134	10	40
Toluene	26.3	ug/L	20.00	10.1	81	25-167	4	40
trans-1,2-Dichloroethene	13.9	ug/L	20.00	ND	70	29-156	8	40
trans-1,3-Dichloropropene	23.3	ug/L	20.00	ND	117	57-123	2	40
Trichloroethene	14.9	ug/L	20.00	ND	74	38-149	7	40
Trichlorofluoromethane	7.46	ug/L	20.00	ND	37	25-176	23	40
Vinyl chloride	R 5.83	ug/L	20.00	ND	29	25-156	51	40
Surrogate: 1,2-Dichloroethane-d4	25.0	ug/L	30.00		83	58.5-136		
Surrogate: Toluene-d8	26.0	ug/L	30.00		87	72.4-120		
Surrogate: Bromofluorobenzene	27.4	ug/L	30.00		91	56.9-139		

Semivolatile Organics - Quality Control

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B311387 - 04 SW 3510 (625/8270)								
Blank (B311387-BLK1)		Prepared & Analyzed: 07/11/13						
1,2,4-Trichlorobenzene	< 10.0	ug/L						
1,2-Dichlorobenzene	< 10.0	ug/L						
1,3-Dichlorobenzene	< 10.0	ug/L						
1,4-Dichlorobenzene	< 10.0	ug/L						
2,4,5-Trichlorophenol	< 10.0	ug/L						
2,4,6-Trichlorophenol	< 10.0	ug/L						
2,4-Dichlorophenol	< 10.0	ug/L						
2,4-Dimethylphenol	< 10.0	ug/L						



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Revised Laboratory Results

Semivolatile Organics - Quality Control

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B311387 - 04 SW 3510 (625/8270)								
Blank (B311387-BLK1)			Prepared & Analyzed: 07/11/13					
2,4-Dinitrophenol	< 10.0	ug/L						
2,4-Dinitrotoluene	< 10.0	ug/L						
2,6-Dimethylaniline	< 5.00	ug/L						
2,6-Dinitrotoluene	< 10.0	ug/L						
2-Chloronaphthalene	< 10.0	ug/L						
2-Chlorophenol	< 10.0	ug/L						
2-Nitrophenol	< 10.0	ug/L						
3,3'-Dichlorobenzidine	< 10.0	ug/L						
4,6-Dinitro-2-methylphenol	< 10.0	ug/L						
4-Bromophenylphenyl ether	< 10.0	ug/L						
4-Chloro-3-methylphenol	< 10.0	ug/L						
4-Chlorophenylphenyl ether	< 10.0	ug/L						
4-Nitrophenol	< 10.0	ug/L						
Acenaphthene	< 10.0	ug/L						
Acenaphthylene	< 10.0	ug/L						
Anthracene	< 10.0	ug/L						
Azobenzene	< 10.0	ug/L						
Benzidine	< 10.0	ug/L						
Benzo(a)anthracene	< 10.0	ug/L						
Benzo(a)pyrene	< 10.0	ug/L						
Benzo(b&k)fluoranthene	< 10.0	ug/L						
Benzo(b)fluoranthene	< 10.0	ug/L						
Benzo(g,h,i)perylene	< 10.0	ug/L						
Benzo(k)fluoranthene	< 10.0	ug/L						
Bis(2-chloroethoxy) methane	< 10.0	ug/L						
Bis(2-chloroethyl) ether	< 10.0	ug/L						
Bis(2-chloroisopropyl) ether	< 10.0	ug/L						
Bis(2-ethylhexyl) phthalate	< 10.0	ug/L						
Butyl benzyl phthalate	< 10.0	ug/L						
Chrysene	< 10.0	ug/L						
Dibenzo(a,h)anthracene	< 10.0	ug/L						
Diethyl phthalate	< 10.0	ug/L						
Dimethyl phthalate	< 10.0	ug/L						
Di-n-butyl phthalate	< 10.0	ug/L						
Di-n-octyl phthalate	< 10.0	ug/L						
Diphenylamine	< 10.0	ug/L						
Fluoranthene	< 10.0	ug/L						
Fluorene	< 10.0	ug/L						
Hexachlorobenzene	< 10.0	ug/L						



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Revised Laboratory Results

Semivolatile Organics - Quality Control

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B311387 - 04 SW 3510 (625/8270)								
Blank (B311387-BLK1)			Prepared & Analyzed: 07/11/13					
Hexachlorobutadiene	< 10.0	ug/L						
Hexachlorocyclopentadiene	< 10.0	ug/L						
Hexachloroethane	< 10.0	ug/L						
Indeno(1,2,3-cd)pyrene	< 10.0	ug/L						
Isophorone	< 10.0	ug/L						
Naphthalene	< 10.0	ug/L						
Nitrobenzene	< 10.0	ug/L						
N-Nitrosodimethylamine	< 10.0	ug/L						
N-Nitrosodi-n-propylamine	< 10.0	ug/L						
Pentachlorophenol	< 10.0	ug/L						
Phenanthrene	< 10.0	ug/L						
Phenol	< 10.0	ug/L						
Pyrene	< 10.0	ug/L						
1,4-Dichlorobenzene-d4	40	ug/L				0-200		
Naphthalene-d8	40	ug/L				0-200		
Acenaphthene-d10	40	ug/L				0-200		
Phenanthrene-d10	40	ug/L				0-200		
Chrysene-d12	40	ug/L				0-200		
Perylene-d12	40	ug/L				0-200		
Surrogate: 2-Fluorophenol	57	ug/L	80.00		71	16.1-116		
Surrogate: Phenol- d5	57	ug/L	80.00		71	36-105		
Surrogate: Nitrobenzene-d5	57	ug/L	80.00		72	46.2-97.1		
Surrogate: 2-Fluorobiphenyl	57	ug/L	80.00		71	50.7-94.6		
Surrogate: 2,4,6-Tribromophenol	56	ug/L	80.00		70	41-106		
Surrogate: p-Terphenyl-d14	67	ug/L	80.00		83	45.8-88.3		
LCS (B311387-BS1)			Prepared & Analyzed: 07/11/13					
1,2,4-Trichlorobenzene	48	ug/L	80.00		60	47-83		
1,2-Dichlorobenzene	45	ug/L	80.00		57	44-86		
1,3-Dichlorobenzene	46	ug/L	80.00		58	40-89		
1,4-Dichlorobenzene	49	ug/L	80.00		61	44-87		
2,4,5-Trichlorophenol	73	ug/L	80.00		91	50-105		
2,4,6-Trichlorophenol	71	ug/L	80.00		89	46-106		
2,4-Dichlorophenol	69	ug/L	80.00		86	44-101		
2,4-Dimethylphenol	66	ug/L	80.00		83	44-103		
2,4-Dinitrophenol	84	ug/L	80.00		105	18-151		
2,4-Dinitrotoluene	53	ug/L	80.00		66	50-88		
2,6-Dimethylaniline	59	ug/L				48-88		
2,6-Dinitrotoluene	53	ug/L	80.00		66	50-91		
2-Chloronaphthalene	48	ug/L	80.00		60	48-86		



PDC Laboratories, Inc.

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Bridgeton Landfill
13570 St Charles Rock Road
St. Louis, MO 63044
Attn: Kevin Kamp

Date Received: 07/10/13 12:08
Report Date: 07/23/13
Customer #: 277310

Revised Laboratory Results

Semivolatile Organics - Quality Control

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B311387 - 04 SW 3510 (625/8270)								
LCS (B311387-BS1)			Prepared & Analyzed: 07/11/13					
2-Chlorophenol	63	ug/L	80.00		79	44-103		
2-Methylnaphthalene	57	ug/L				51-89		
2-Methylphenol	69	ug/L	80.00		86	38-111		
2-Nitroaniline	54	ug/L				49-95		
2-Nitrophenol	69	ug/L	80.00		87	47-102		
3- & 4-Methylphenol	67	ug/L	80.00		84	35-111		
3,3'-Dichlorobenzidine	59	ug/L	80.00		74	51-108		
3-Nitroaniline	60	ug/L				45-95		
4,6-Dinitro-2-methylphenol	77	ug/L	80.00		96	27-146		
4-Bromophenylphenyl ether	51	ug/L	80.00		64	50-87		
4-Chloro-3-methylphenol	69	ug/L	80.00		86	42-109		
4-Chloroaniline	60	ug/L				48-91		
4-Chlorophenylphenyl ether	54	ug/L	80.00		68	52-87		
4-Nitroaniline	59	ug/L				51-98		
4-Nitrophenol	75	ug/L	80.00		93	30-123		
Acenaphthene	54	ug/L	80.00		67	49-88		
Acenaphthylene	52	ug/L	80.00		64	50-87		
Aniline	60	ug/L				50.8-89		
Anthracene	55	ug/L	80.00		69	53-89		
Azobenzene	50	ug/L	80.00		62	46-98		
Benzidine	19	ug/L	80.00		24	10-55		
Benzo(a)anthracene	49	ug/L	80.00		62	47-81		
Benzo(a)pyrene	57	ug/L	80.00		72	52-101		
Benzo(b&k)fluoranthene	108	ug/L	160.0		67	54-90		
Benzo(b)fluoranthene	60	ug/L	80.00		76	47-101		
Benzo(g,h,i)perylene	53	ug/L	80.00		66	38-104		
Benzo(k)fluoranthene	56	ug/L	80.00		70	44-107		
Benzoic Acid	64	ug/L	80.00		81	35-135		
Benzyl alcohol	73	ug/L				44-92		
Bis(2-chloroethoxy) methane	52	ug/L	80.00		65	43-91		
Bis(2-chloroethyl) ether	48	ug/L	80.00		60	36-95		
Bis(2-chloroisopropyl) ether	42	ug/L	80.00		52	34-89		
Bis(2-ethylhexyl) phthalate	51	ug/L	80.00		63	46-94		
Butyl benzyl phthalate	49	ug/L	80.00		62	45-93		
Carbazole	62	ug/L				41-108		
Chrysene	52	ug/L	80.00		65	52-91		
Dibenzo(a,h)anthracene	50	ug/L	80.00		63	49-98		
Dibenzofuran	56	ug/L				51-92		
Diethyl phthalate	51	ug/L	80.00		63	47-91		



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Semivolatile Organics - Quality Control

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B311387 - 04 SW 3510 (625/8270)								
LCS (B311387-BS1)			Prepared & Analyzed: 07/11/13					
Dimethyl phthalate	51	ug/L	80.00		64	49-87		
Di-n-butyl phthalate	51	ug/L	80.00		64	50-87		
Di-n-octyl phthalate	53	ug/L	80.00		67	43-100		
Diphenylamine	46	ug/L	80.00		58	46-96		
Fluoranthene	50	ug/L	80.00		63	51-85		
Fluorene	52	ug/L	80.00		65	49-90		
Hexachlorobenzene	50	ug/L	80.00		63	50-84		
Hexachlorobutadiene	48	ug/L	80.00		60	43-88		
Hexachlorocyclopentadiene	42	ug/L	80.00		52	14-80		
Hexachloroethane	49	ug/L	80.00		61	42-90		
Indeno(1,2,3-cd)pyrene	55	ug/L	80.00		69	42-106		
Isophorone	44	ug/L	80.00		55	42-82		
Naphthalene	50	ug/L	80.00		62	48-86		
Nitrobenzene	49	ug/L	80.00		61	46-88		
N-Nitrosodimethylamine	50	ug/L	80.00		62	23-108		
N-Nitrosodi-n-propylamine	48	ug/L	80.00		60	39-87		
Pentachlorophenol	71	ug/L	80.00		89	42-119		
Phenanthrene	51	ug/L	80.00		63	51-89		
Phenol	65	ug/L	80.00		81	30-113		
Pyrene	53	ug/L	80.00		67	50-94		
Pyridine	51	ug/L				44-88		
1,4-Dichlorobenzene-d4	40	ug/L				0-200		
Naphthalene-d8	40	ug/L				0-200		
Acenaphthene-d10	40	ug/L				0-200		
Phenanthrene-d10	40	ug/L				0-200		
Chrysene-d12	40	ug/L				0-200		
Perylene-d12	40	ug/L				0-200		
Surrogate: 2-Fluorophenol		54 ug/L	80.00		68	16.1-116		
Surrogate: Phenol- d5		56 ug/L	80.00		70	36-105		
Surrogate: Nitrobenzene-d5		55 ug/L	80.00		69	46.2-97.1		
Surrogate: 2-Fluorobiphenyl		57 ug/L	80.00		72	50.7-94.6		
Surrogate: 2,4,6-Tribromophenol		63 ug/L	80.00		78	41-106		
Surrogate: p-Terphenyl-d14		60 ug/L	80.00		75	45.8-88.3		
Matrix Spike (B311387-MS1)			Source: 3071296-02		Prepared & Analyzed: 07/11/13			
1,2,4-Trichlorobenzene	X	< 1000	ug/L	80.00	ND	27-82		
1,2-Dichlorobenzene	X	< 1000	ug/L	80.00	ND	31-75		
1,3-Dichlorobenzene	X	< 1000	ug/L	80.00	ND	12-93		
1,4-Dichlorobenzene	X	< 1000	ug/L	80.00	ND	13-99		
2,4,5-Trichlorophenol	X	< 1000	ug/L	80.00	ND	12-87		



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Revised Laboratory Results

Semivolatile Organics - Quality Control

Table with columns: Analyte, Result, Units, Spike Level, Source Result, %REC, %REC Limits, RPD, RPD Limit. Includes data for various organic compounds like 2,4,6-Trichlorophenol, 2,4-Dichlorophenol, etc.



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Revised Laboratory Results

Semivolatile Organics - Quality Control

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B311387 - 04 SW 3510 (625/8270)								
Matrix Spike (B311387-MS1)	Source: 3071296-02		Prepared & Analyzed: 07/11/13					
Bis(2-chloroisopropyl) ether	X	< 1000	ug/L	80.00	ND	12-86		
Bis(2-ethylhexyl) phthalate	X	< 1000	ug/L	80.00	ND	33-93		
Butyl benzyl phthalate	X	< 1000	ug/L	80.00	ND	13-95		
Carbazole	X	251	ug/L		ND	33-111		
Chrysene	X	< 1000	ug/L	80.00	ND	30-91		
Dibenzo(a,h)anthracene	X	< 1000	ug/L	80.00	ND	35-85		
Dibenzofuran	X	< 1000	ug/L		ND	35-95		
Diethyl phthalate	X	< 1000	ug/L	80.00	ND	25-89		
Dimethyl phthalate	X	< 1000	ug/L	80.00	ND	20-84		
Di-n-butyl phthalate	X	< 1000	ug/L	80.00	ND	38-84		
Di-n-octyl phthalate	X	< 1000	ug/L	80.00	ND	19-123		
Diphenylamine	X	< 1000	ug/L	80.00	ND	22-102		
Fluoranthene	X	< 1000	ug/L	80.00	ND	29-94		
Fluorene	X	< 1000	ug/L	80.00	ND	26-96		
Hexachlorobenzene	X	< 1000	ug/L	80.00	ND	31-87		
Hexachlorobutadiene	X	< 1000	ug/L	80.00	ND	31-82		
Hexachlorocyclopentadiene	X	731	ug/L	80.00	ND	914	10-159	
Hexachloroethane	X	< 1000	ug/L	80.00	ND	20-82		
Indeno(1,2,3-cd)pyrene	X	< 1000	ug/L	80.00	ND	23-91		
Isophorone	X	< 1000	ug/L	80.00	ND	12-87		
Naphthalene	X	< 1000	ug/L	80.00	ND	15-100		
Nitrobenzene	X	409	ug/L	80.00	314	120	26-82	
N-Nitrosodimethylamine	X	< 1000	ug/L	80.00	ND	10-138		
N-Nitrosodi-n-propylamine	X	486	ug/L	80.00	ND	608	18-81	
Pentachlorophenol	X	559	ug/L	80.00	ND	699	23-104	
Phenanthrene	X	< 1000	ug/L	80.00	ND	29-92		
Phenol	X	2450	ug/L	80.00	2900	NR	18-25	
Pyrene	X	< 1000	ug/L	80.00	ND	26-95		
Pyridine	X	< 1000	ug/L		ND	10-30		
1,4-Dichlorobenzene-d4	X	4000	ug/L				0-200	
Naphthalene-d8	X	4000	ug/L				0-200	
Acenaphthene-d10	X	4000	ug/L				0-200	
Phenanthrene-d10	X	4000	ug/L				0-200	
Chrysene-d12	X	4000	ug/L				0-200	
Perylene-d12	X	4000	ug/L				0-200	
Surrogate: 2-Fluorophenol	S, X	3.7	ug/L	80.00		5	10-101	
Surrogate: Phenol- d5	S, X	11	ug/L	80.00		14	10-154	
Surrogate: Nitrobenzene-d5	S, X	390	ug/L	80.00		491	10-119	
Surrogate: 2-Fluorobiphenyl	S, X	33	ug/L	80.00		42	10-98	



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Revised Laboratory Results

Semivolatile Organics - Quality Control

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B311387 - 04 SW 3510 (625/8270)								
Matrix Spike (B311387-MS1)		Source: 3071296-02		Prepared & Analyzed: 07/11/13				
Surrogate: 2,4,6-Tribromophenol	S, X	11	ug/L	80.00	14	10-69		
Surrogate: p-Terphenyl-d14	S, X	35	ug/L	80.00	44	11-97		

Anions - Quality Control

Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B311451 - 04-IC No Prep								
Calibration Blank (B311451-CCB1)		Prepared & Analyzed: 07/10/13						
Nitrite-N	0.00	mg/L						
Chloride	0.228	mg/L						
Nitrate-N	0.00	mg/L						
Calibration Check (B311451-CCV1)		Prepared & Analyzed: 07/10/13						
Nitrate-N	3.42	mg/L	3.500		98	90-110		
Nitrite-N	3.52	mg/L	3.500		101	90-110		
Chloride	3.31	mg/L	3.500		95	90-110		
Matrix Spike (B311451-MS1)		Source: 3071144-01		Prepared & Analyzed: 07/10/13				
Chloride	Q4 28	mg/L	3.000	25	106	80-120		
Nitrate-N	3.1	mg/L	2.259		139	80-120		
Nitrite-N	9.47	mg/L	10.00		95	80-120		
Matrix Spike Dup (B311451-MSD1)		Source: 3071144-01		Prepared & Analyzed: 07/10/13				
Nitrate-N	3.2	mg/L	2.259		143	80-120	3	20
Chloride	Q4 29	mg/L	3.000	25	137	80-120	3	20
Nitrite-N	9.73	mg/L	10.00		97	80-120	3	20



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Revised Laboratory Results

Notes

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

- X Matrix spike diluted out, due to matrix.
- S Surrogate compound diluted below a reliable quantitation level.
- R MS/MSD Failed %RPD
- 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
- Q1 MS Failed %R
- H Test performed after the expiration of the appropriate regulatory/advisory maximum allowable hold time.

Certified by: Roxann Shull, Client Services Supervisor



PDC Laboratories, Inc. – St. Louis
3278 N. Highway 67 (Lindbergh)
Florissant, MO 63033
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 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>CEC / FEEZOR</u>		PROJECT NUMBER	P. O. NUMBER	MEANS SHIPPED		3 ANALYSIS REQUESTED						4 (FOR LAB USE ONLY)		
ADDRESS <u>13570 ST. CHARLES ROCK ROAD</u>		PHONE NUMBER	FAX NUMBER	EMAIL ADDRESS		<u>NO₃ + SIBG (CH + LAB)</u> <u>OIL & GREASE</u> <u>BOO/ODS, BOP, TSS, TDS, pH, + COND.</u> <u>Phenols</u> <u>COD, NH₃, PO₄</u> <u>TOTAL METALS</u> <u>TOUS (Mch 396)</u>	LOGIN # <u>3071296</u>		LOGGED BY: <u>HE</u>		LAB PROJ. #		TEMPLATE:	
CITY <u>BRIDGETON, MO</u>	SAMPLER <u>SCOTT C. FEDAK</u>	MATRIX TYPES: WW-WASTEWATER DW-DRINKING WATER GW-GROUND WATER WWSL-SLUDGE NAS-SOLID LCH-LEACHATE NAL-NON-AQUEOUS SOIL-SOILS		CONTACT PERSON <u>KEVIN KAMP / DAN FEEZOR / SCOTT C. FEDAK</u>			SAMPLER'S SIGNATURE <u>Scott C. Fedak</u>		REMARKS					
STATE <u>MO</u>	DATE COLLECTED	TIME COLLECTED	SAMPLE TYPE	MATRIX TYPE	Bottle Count									
2 SAMPLE DESCRIPTION AS YOU WANT ON REPORT		DATE COLLECTED	TIME COLLECTED	GRAB	COMP	TYPE								
<u>FORCE MAIN INFLUENT</u>		<u>7/9/13</u>	<u>1944</u>	<u>X</u>	<u>--</u>	<u>L'CHT</u>	<u>1</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>pH = 6.09</u> <u>TEMP = 36.84°C</u>
<u>LCS-1 INFLUENT</u>		<u>7/9/13</u>	<u>2145</u>	<u>X</u>	<u>--</u>	<u>L'CHT</u>	<u>1</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>pH = 6.15</u> <u>TEMP = 41.21°C</u>
<u>TRIP BLANK</u>		<u>--</u>	<u>--</u>	<u>--</u>	<u>--</u>	<u>--</u>	<u>2</u>	<u>X</u>						<u>TRIP BLANK FOR VOC ANALYSIS ONLY</u>
														<u>SEE ATTACHED FOR DETAILED ANALYTE LIST</u>
														<u>TWO MORE SAMPLES IN SEPARATE COOLER & ON SEPARATE COC, PLEASE INCLUDE ON ONE REPORT</u>
5 TURNAROUND TIME (RUSH TAT IS SUBJECT TO PDC LABS APPROVAL AND SURCHARGE) NORMAL (8-10 Bus. Days) <u>RUSH (5 Bus. Days)</u> <u>Fastrak™ (3 Bus. Days)</u> 1-2 Bus. Days Same Day DATE DUE _____		The sample temperature will be measured upon receipt at the lab. By initialing this area, you request that the lab notify you, before proceeding with analysis, if the sample temperature is outside of the range of 0.1-6.0°C. By not initialing this area, you allow the lab to proceed with analytical testing regardless of the sample temperature.										6		
RESULTS BY: <u>E-MAIL</u> FAX PHONE CALL PHONE/FAX# IF DIFFERENT FROM ABOVE														
7 RELINQUISHED BY: (SIGNATURE) <u>Scott C. Fedak</u>		DATE	TIME	RECEIVED BY:	DATE	TIME	8 COMMENTS:(FOR LAB USE ONLY)							
RELINQUISHED BY: (SIGNATURE)		DATE	TIME	RECEIVED BY:	DATE	TIME	SAMPLE TEMPERATURE UPON RECEIPT <u>12.4°C</u> CHILL PROCESS STARTED PRIOR TO RECEIPT SAMPLE(S) RECEIVED ON ICE PROPER BOTTLES RECEIVED IN GOOD CONDITION BOTTLES FILLED WITH ADEQUATE VOLUME SAMPLES RECEIVED WITHIN HOLD TIME(S) (EXCLUDES TYPICAL FIELD PARAMETERS) DATE AND TIME TAKEN FROM SAMPLE BOTTLE							
RELINQUISHED BY: (SIGNATURE)		DATE	TIME	RECEIVED BY:	DATE	TIME	<input type="checkbox"/> OR N <input checked="" type="checkbox"/> OR N <input type="checkbox"/> OR N <input type="checkbox"/> OR N							
RELINQUISHED BY: (SIGNATURE)		DATE	TIME	RECEIVED BY:	DATE	TIME								

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1 CLIENT CEC / FEEZOR		PROJECT NUMBER	P.O. NUMBER	MEANS SHIPPED		3 ANALYSIS REQUESTED						4 (FOR LAB USE ONLY)		
ADDRESS 13574 ST. CHARLES ROCK ROAD		PHONE NUMBER	FAX NUMBER	EMAIL ADDRESS		VOCs & SVOCs (GPH & GAS) OIL & GREASE BOD/DO, TSS, TDS, pH & Cond. Phenols COD, NH ₃ , PO ₄ TOTAL METALS IONS (both 300)						LOGIN # _____ LOGGED BY: _____ LAB PROJ. # _____ TEMPLATE: _____ PROJ. MGR.: _____		
CITY, STATE, ZIP BRIDGETON, MO		SAMPLER SCOTT C. FEDAK		MATRIX TYPES: WW-WASTEWATER DW-DRINKING WATER GW-GROUND WATER WW-SLUDGE NAS-SOLID L'CHT-LEACHATE NAL-NON-AQUEOUS SOIL-SOILS								REMARKS		
CONTACT PERSON KEVIN KAMP / DAN FEEZOR / SCOTT C. FEDAK		SAMPLER'S SIGNATURE <i>Scott C. Fedak</i>												
2 SAMPLE DESCRIPTION AS YOU WANT ON REPORT		DATE COLLECTED	TIME COLLECTED	SAMPLE TYPE	MATRIX TYPE	Bottle Count								
316K AST - 1		7/9/13	1815	X --	L'CHT	1φ	X	X	X	X	X	X	X	pH = 6.02 TEMP = 40.20°C
316K AST - 2		7/9/13	2104	X --	L'CHT	1φ	X	X	X	X	X	X	X	pH = 6.04 TEMP = 40.82°C
TRIP BLANK		--	--	--	--	2	X							SEE ATTACHED FOR DETAILED ANALYTE LIST
														TWO MORE SAMPLES IN SEPARATE COOLER + SEPARATE COC, PLEASE INCLUDE ALL 4 SAMPLES ON ONE REPORT.
5 TURNAROUND TIME (RUSH TAT IS SUBJECT TO PDC LABS APPROVAL AND SURCHARGE) NORMAL (8-10 Bus. Days) <u>RUSH (5 Bus. Days)</u> <i>Fastrak™</i> (3 Bus. Days) 1-2 Bus. Days Same Day DATE DUE _____		The sample temperature will be measured upon receipt at the lab. By initialing this area, you request that the lab notify you, before proceeding with analysis, if the sample temperature is outside of the range of 0.1-6.0°C. By not initialing this area, you allow the lab to proceed with analytical testing regardless of the sample temperature.										6		
RESULTS BY: <u>E-MAIL</u> FAX PHONE CALL PHONE/FAX# IF DIFFERENT FROM ABOVE														
7 RELINQUISHED BY: (SIGNATURE) <i>Scott C. Fedak</i>		DATE	TIME	RECEIVED BY: <i>H. Cotton</i>		DATE	TIME	8 COMMENTS: (FOR LAB USE ONLY)						
RELINQUISHED BY: (SIGNATURE)		DATE	TIME	RECEIVED BY:		DATE	TIME	SAMPLE TEMPERATURE UPON RECEIPT CHILL PROCESS STARTED PRIOR TO RECEIPT SAMPLE(S) RECEIVED ON ICE PROPER BOTTLES RECEIVED IN GOOD CONDITION BOTTLES FILLED WITH ADEQUATE VOLUME SAMPLES RECEIVED WITHIN HOLD TIME(S) (EXCLUDES TYPICAL FIELD PARAMETERS) DATE AND TIME TAKEN FROM SAMPLE BOTTLE						
RELINQUISHED BY: (SIGNATURE)		DATE	TIME	RECEIVED BY:		DATE	TIME	24°C Y OR N Y OR N Y OR N Y OR N						
RELINQUISHED BY: (SIGNATURE)		DATE	TIME	RECEIVED BY:		DATE	TIME							

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

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EPA 624	Volatiles (2) vials w/hcl	2 40 mil clear – No Preservatives Bottle Set B
625	Semi Volatiles (2) amber liters no preservative	2 – 1000 ml amber – No Preservatives – Bottle Set C
Conductivity	500 ml plastic bottle No preservative	Bottle A – Plastic - 1000 ml unpreserved
TDS	(1) Liter container; no pres	Bottle A – Plastic - 1000 ml unpreserved
TSS	(1) Liter container, no pres	Bottle A – Plastic - 1000 ml unpreserved
Total BOD	(1) Liter container; no pres	Bottle A – Plastic - 1000 ml unpreserved
Soluble BOD	(1) Liter container; no pres.	Bottle A – Plastic - 1000 ml unpreserved
COD	(1) 250 ml plastic container w/H2SO4	Bottle D 250 ml plastic – H2SO4
Ammonia	(1) 250 ml plastic container w/H2SO4	Bottle D 250 ml plastic – H2SO4
Total Metals (RCRA Metals)	(1) 250ml plastic container w HNO3	Bottle E – 250 ml plastic – HNO3 Preserved
Iron	(1) 250ml plastic container w HNO3	Bottle E – 250 ml plastic – HNO3 Preserved
Hg	(1) 250ml plastic container w HNO3	Bottle E – 250 ml plastic – HNO3 Preserved
Total Oil Grease	(1) Liter amber glass w HCL pres	Bottle F – 1000 ml Amber – HCL Preserved
Phenols	(1) 500 ml amber glass container w/H2SO4	Bottle F – 500 ml Amber – H2SO4 Preserved
Nitrate/Nitrite	(1) 250ml plastic container; no pres	Bottle G – 250 ml plastic – No Preservatives
Temp	Field tes	
pH	Field test	Bottle A – 1000 ml unpreserved
phosphorus	(1) 250 ml plastic container w/H2SO4	Bottle D 250 ml plastic – H2SO4
Chlorides	(1) 250ml plastic container no preservative	Bottle G – 250 ml plastic – No Preservatives

TRIP BLANK = VOCs only