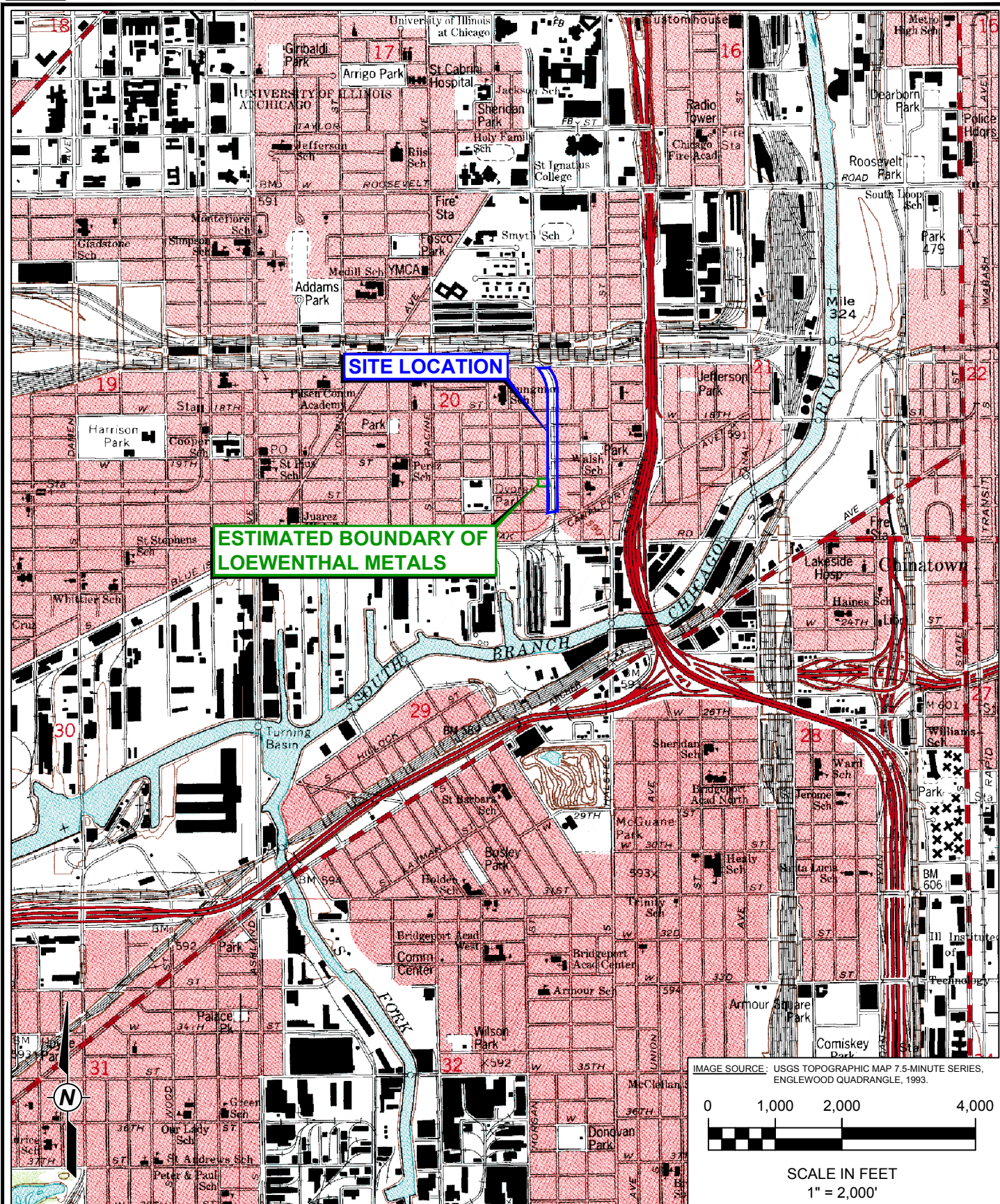


Figures



230 West Monroe St.
 Suite 2300
 Chicago, IL 60606
 Phone: 312.578.0870

PROJECT: **BNSF**
RIGHT-OF-WAY SAMPLING EAST OF LOEWENTHAL METALS
CHICAGO, COOK COUNTY, ILLINOIS

SHEET TITLE: **FIGURE 1**
SITE LOCATION MAP

DRAWN BY:	SPA
APPROVED BY:	LM
PROJ. NO.	204997.0002
FILE NO.	204997-07.dwg
DATE:	6/25/2013







Tables

Table 1. Soil Analytical Results for Lead
 BNSF ROW Sampling East of Loewenthal Metals
 Chicago, Cook County, Illinois

Analyses	TACO Exposure Route-Specific Values for Soils			Sample ID, Sample Depth, and Sample Date				
				US EPA Soil Samples				
	Residential	Industrial / Commercial	Construction Worker	LM-SB-24	LM-SB-25	LM-SB-26	LM-SB-27	LM-SB-28
				0-1'	0-1'	0-1'	1-2'	1-2'
				6/21/2013				
Lead (Total) - mg/kg	400 / NE	800 / NE	700 / NE	6,300	1,500	2,100	260	3,100
Lead (TCLP) - mg/L	5 mg/L ¹			56	0.35	3.6	0.018	0.55
pH	NA			7.5	7.4	7.9	6.9	7.6

Notes: Refer to Page 20 of 20.

Table 1. Soil Analytical Results for Lead
 BNSF ROW Sampling East of Loewenthal Metals
 Chicago, Cook County, Illinois

Analyses	TACO Exposure Route-Specific Values for Soils			Sample ID, Sample Depth, and Sample Date				
				US EPA Soil Samples				
	Residential	Industrial / Commercial	Construction Worker	LM-SB-29	LM-SB-30	LM-SB-31	LM-SB-32	LM-SB-33
				0-1'	0-1'	1-2'	0-1'	0-1'
				6/21/2013				
Lead (Total) - mg/kg	400 / NE	800 / NE	700 / NE	1,600	840	370	1,700	570
Lead (TCLP) - mg/L	5 mg/L ¹			0.11	0.051	0.015	0.34	0.052
pH	NA			7	8.8	7.2	6.2	8

Notes: Refer to Page 20 of 20.

Table 1. Soil Analytical Results for Lead
 BNSF ROW Sampling East of Loewenthal Metals
 Chicago, Cook County, Illinois

Analyses	TACO Exposure Route-Specific Values for Soils			Sample ID, Sample Depth, and Sample Date				
				US EPA Soil Samples		BNSF Soil Samples		
	Residential	Industrial / Commercial	Construction Worker	LM-SB-34	LM-SB-35	GP-1		GP-2
				0-1'	1-2'	0-2'	2-4'	0-2'
				6/21/2013				
Lead (Total) - mg/kg	400 / NE	800 / NE	700 / NE	1,000	560	1,040	109	1,220
Lead (TCLP) - mg/L	5 mg/L ¹			0.11	0.053	<0.5	<0.5	<0.5
pH	NA			7.3	7.3	7.4	6.5	7.7

Notes: Refer to Page 20 of 20.

Table 1. Soil Analytical Results for Lead
 BNSF ROW Sampling East of Loewenthal Metals
 Chicago, Cook County, Illinois

Analyses	TACO Exposure Route-Specific Values for Soils			Sample ID, Sample Depth, and Sample Date				
				BNSF Soil Samples				
	Residential	Industrial / Commercial	Construction Worker	GP-2	GP-3		P-1	P-1
				2-4'	0-2'	2-4'	0-2'	2-4'
				6/21/2013			11/14/2013	
Lead (Total) - mg/kg	400 / NE	800 / NE	700 / NE	1,130	3,190	169	1,540	191
Lead (TCLP) - mg/L	5 mg/L ¹			<0.5	49.8	<0.5	0.53	<0.50
pH	NA			7.5	7.3	7.0	---	---

Notes: Refer to Page 20 of 20.

Table 1. Soil Analytical Results for Lead
 BNSF ROW Sampling East of Loewenthal Metals
 Chicago, Cook County, Illinois

Analyses	TACO Exposure Route-Specific Values for Soils			Sample ID, Sample Depth, and Sample Date				
				BNSF Soil Samples				
	Residential	Industrial / Commercial	Construction Worker	P-2	P-2	P-3	P-3	P-4
				0-2'	2-4'	0-2'	2-4'	0-2'
				11/14/2013				
Lead (Total) - mg/kg	400 / NE	800 / NE	700 / NE	707	90.5	820	1,200	1,350
Lead (TCLP) - mg/L	5 mg/L ¹			<0.50	<0.50	0.62	0.6	1.3
pH	NA			---	---	---	---	---

Notes: Refer to Page 20 of 20.

Table 1. Soil Analytical Results for Lead
 BNSF ROW Sampling East of Loewenthal Metals
 Chicago, Cook County, Illinois

Analyses	TACO Exposure Route-Specific Values for Soils			Sample ID, Sample Depth, and Sample Date				
				BNSF Soil Samples				
	Residential	Industrial / Commercial	Construction Worker	P-4	P-5	P-5	P-6	P-6
				2-4'	0-2'	2-4'	0-2'	2-4'
				11/14/2013				
Lead (Total) - mg/kg	400 / NE	800 / NE	700 / NE	749	5,010	572	120	4,960
Lead (TCLP) - mg/L	5 mg/L ¹			<0.50	8	<0.50	1.9	<0.50
pH	NA			---	---	---	---	---

Notes: Refer to Page 20 of 20.

Table 1. Soil Analytical Results for Lead
 BNSF ROW Sampling East of Loewenthal Metals
 Chicago, Cook County, Illinois

Analyses	TACO Exposure Route-Specific Values for Soils			Sample ID, Sample Depth, and Sample Date				
				BNSF Soil Samples				
	Residential	Industrial / Commercial	Construction Worker	P-7	P-7	P-8	P-8	P-9
				0-2'	2-4'	0-2'	2-4'	0-2'
				11/14/2013				
Lead (Total) - mg/kg	400 / NE	800 / NE	700 / NE	2,620	353	981	144	2,460
Lead (TCLP) - mg/L	5 mg/L ¹			4.4	<0.5	1.6	<0.5	1.1
pH	NA			---	---	---	---	---

Notes: Refer to Page 20 of 20.

Table 1. Soil Analytical Results for Lead
 BNSF ROW Sampling East of Loewenthal Metals
 Chicago, Cook County, Illinois

Analyses	TACO Exposure Route-Specific Values for Soils			Sample ID, Sample Depth, and Sample Date				
				BNSF Soil Samples				
	Residential	Industrial / Commercial	Construction Worker	P-9	P-10	P-10	P-11	P-11
				2-4'	0-2'	2-4'	0-2'	2-4'
				11/14/2013				
Lead (Total) - mg/kg	400 / NE	800 / NE	700 / NE	1,040	1,320	275	661	115
Lead (TCLP) - mg/L	5 mg/L ¹			0.74	0.64	<0.5	<0.5	<0.5
pH	NA			---	---	---	---	---

Notes: Refer to Page 20 of 20.

Table 1. Soil Analytical Results for Lead
 BNSF ROW Sampling East of Loewenthal Metals
 Chicago, Cook County, Illinois

Analyses	TACO Exposure Route-Specific Values for Soils			Sample ID, Sample Depth, and Sample Date				
				BNSF Soil Samples				
	Residential	Industrial / Commercial	Construction Worker	P-12	P-12	P-13	P-13	P-14
				0-2'	2-4'	0-2'	2-4'	0-2'
				11/14/2013				
Lead (Total) - mg/kg	400 / NE	800 / NE	700 / NE	1,280	216	343	86.9	1,100
Lead (TCLP) - mg/L	5 mg/L ¹			0.51	<0.5	1.8	<0.5	<0.5
pH	NA			---	---	---	---	---

Notes: Refer to Page 20 of 20.

Table 1. Soil Analytical Results for Lead
 BNSF ROW Sampling East of Loewenthal Metals
 Chicago, Cook County, Illinois

Analyses	TACO Exposure Route-Specific Values for Soils			Sample ID, Sample Depth, and Sample Date				
				BNSF Soil Samples				
	Residential	Industrial / Commercial	Construction Worker	P-14	P-15	P-15	P-16	P-16
				2-4'	0-2'	2-4'	0-2'	2-4'
				11/14/2013				
Lead (Total) - mg/kg	400 / NE	800 / NE	700 / NE	309	834	288	2,210	107
Lead (TCLP) - mg/L	5 mg/L ¹			<0.5	0.53	<0.5	1.7	<0.5
pH	NA			---	---	---	---	---

Notes: Refer to Page 20 of 20.

Table 1. Soil Analytical Results for Lead
 BNSF ROW Sampling East of Loewenthal Metals
 Chicago, Cook County, Illinois

Analyses	TACO Exposure Route-Specific Values for Soils			Sample ID, Sample Depth, and Sample Date				
				BNSF Soil Samples				
	Residential	Industrial / Commercial	Construction Worker	P-17	P-17	P-18	P-18	P-19
				0-2'	2-4'	0-2'	2-4'	0-2'
				11/14/2013				
Lead (Total) - mg/kg	400 / NE	800 / NE	700 / NE	1,370	143	417	201	3,180
Lead (TCLP) - mg/L	5 mg/L ¹			<0.5	<0.5	<0.5	<0.5	13.6
pH	NA			---	---	---	---	---

Notes: Refer to Page 20 of 20.

Table 1. Soil Analytical Results for Lead
 BNSF ROW Sampling East of Loewenthal Metals
 Chicago, Cook County, Illinois

Analyses	TACO Exposure Route-Specific Values for Soils			Sample ID, Sample Depth, and Sample Date				
				BNSF Soil Samples				
	Residential	Industrial / Commercial	Construction Worker	P-19	P-20	P-20	P-21	P-21
				2-4'	0-2'	2-4'	0-2'	2-4'
				11/14/2013				
Lead (Total) - mg/kg	400 / NE	800 / NE	700 / NE	168	163	214	24.5	72.2
Lead (TCLP) - mg/L	5 mg/L ¹			<0.5	<0.5	<0.5	<0.5	<0.5
pH	NA			---	---	---	---	---

Notes: Refer to Page 20 of 20.

Table 1. Soil Analytical Results for Lead
 BNSF ROW Sampling East of Loewenthal Metals
 Chicago, Cook County, Illinois

Analyses	TACO Exposure Route-Specific Values for Soils			Sample ID, Sample Depth, and Sample Date				
				BNSF Soil Samples				
	Residential	Industrial / Commercial	Construction Worker	P-22	P-22	P-23	P-23	P-24
				0-2'	2-4'	0-2'	2-4'	0-2'
				11/14/2013				
Lead (Total) - mg/kg	400 / NE	800 / NE	700 / NE	1,610	1,400	1,520	774	1,320
Lead (TCLP) - mg/L	5 mg/L ¹			0.77	1.3	6	1.6	1.3
pH	NA			---	---	---	---	---

Notes: Refer to Page 20 of 20.

Table 1. Soil Analytical Results for Lead
 BNSF ROW Sampling East of Loewenthal Metals
 Chicago, Cook County, Illinois

Analyses	TACO Exposure Route-Specific Values for Soils			Sample ID, Sample Depth, and Sample Date				
				BNSF Soil Samples				
	Residential	Industrial / Commercial	Construction Worker	P-24	P-25	P-25	P-26	P-26
				2-4'	0-2'	2-4'	0-2'	2-4'
				11/14/2013				
Lead (Total) - mg/kg	400 / NE	800 / NE	700 / NE	242	607	18.4	4,950	94.3
Lead (TCLP) - mg/L	5 mg/L ¹			0.82	0.79	<0.5	53.5	<0.5
pH	NA			---	---	---	---	---

Notes: Refer to Page 20 of 20.

Table 1. Soil Analytical Results for Lead
 BNSF ROW Sampling East of Loewenthal Metals
 Chicago, Cook County, Illinois

Analyses	TACO Exposure Route-Specific Values for Soils			Sample ID, Sample Depth, and Sample Date				
				BNSF Soil Samples				
	Residential	Industrial / Commercial	Construction Worker	P-27	P-27	P-28	P-29	P-29
				0-2'	2-4'	0-4'	0-2'	2-4'
				11/14/2013				
Lead (Total) - mg/kg	400 / NE	800 / NE	700 / NE	367	58	439	1,340	81.8
Lead (TCLP) - mg/L	5 mg/L ¹			<0.5	<0.5	2.9	0.93	<0.5
pH	NA			---	---	---	---	---

Notes: Refer to Page 20 of 20.

Table 1. Soil Analytical Results for Lead
 BNSF ROW Sampling East of Loewenthal Metals
 Chicago, Cook County, Illinois

Analyses	TACO Exposure Route-Specific Values for Soils			Sample ID, Sample Depth, and Sample Date				
				BNSF Soil Samples				
	Residential	Industrial / Commercial	Construction Worker	P-30	P-30	P-31	P-31	P-32
				0-2'	2-4'	0-2'	2-4'	0-2'
				11/14/2013				
Lead (Total) - mg/kg	400 / NE	800 / NE	700 / NE	613	84.5	3,130	154	286
Lead (TCLP) - mg/L	5 mg/L ¹			<0.5	<0.5	7.6	<0.5	<0.5
pH	NA			---	---	---	---	---

Notes: Refer to Page 20 of 20.

Table 1. Soil Analytical Results for Lead
 BNSF ROW Sampling East of Loewenthal Metals
 Chicago, Cook County, Illinois

Analyses	TACO Exposure Route-Specific Values for Soils			Sample ID, Sample Depth, and Sample Date				
				BNSF Soil Samples				
	Residential	Industrial / Commercial	Construction Worker	P-32	P-33	P-33	P-34	P-34
				2-4'	0-2'	2-4'	0-2'	2-4'
				11/14/2013				
Lead (Total) - mg/kg	400 / NE	800 / NE	700 / NE	40.8	505	55.1	68.3	53.5
Lead (TCLP) - mg/L	5 mg/L ¹			<0.5	<0.5	<0.5	<0.5	<0.5
pH	NA			---	---	---	---	---

Notes: Refer to Page 20 of 20.

Table 1. Soil Analytical Results for Lead
 BNSF ROW Sampling East of Loewenthal Metals
 Chicago, Cook County, Illinois

Analyses	TACO Exposure Route-Specific Values for Soils			Sample ID, Sample Depth, and Sample Date				
				BNSF Soil Samples				
	Residential	Industrial / Commercial	Construction Worker	P-35	P-35	P-36	P-36	P-22 (Dup 1)
				0-2'	2-4'	0-2'	2-4'	2-4'
				11/14/2013				
Lead (Total) - mg/kg	400 / NE	800 / NE	700 / NE	888	26.1	377	82.5	1,360
Lead (TCLP) - mg/L	5 mg/L ¹			<0.5	<0.5	<0.5	<0.5	1.1
pH	NA			---	---	---	---	---

Notes: Refer to Page 20 of 20.

Table 1. Soil Analytical Results for Lead
 BNSF ROW Sampling East of Loewenthal Metals
 Chicago, Cook County, Illinois

Analyses	TACO Exposure Route-Specific Values for Soils			Sample ID, Sample Depth, and Sample Date		
				BNSF Soil Samples		
	Residential	Industrial / Commercial	Construction Worker	P-30 (Dup 2)	P-14 (Dup 3)	P-8 (Dup 4)
				2-4'	0-2'	0-2'
				11/14/2013		
Lead (Total) - mg/kg	400 / NE	800 / NE	700 / NE	53.9	1,010	950
Lead (TCLP) - mg/L	5 mg/L ¹			<0.5	0.6	0.98
pH	NA			---	---	---

Notes: Refer to Page 20 of 20.

Table 1. Soil Analytical Results for Lead
 BNSF ROW Sampling East of Loewenthal Metals
 Chicago, Cook County, Illinois

Notes:

Soil depths are measured in feet below ground surface (bgs).

Dup Duplicate sample collected and analyzed

mg/kg Milligrams per kilogram

mg/L Milligrams per liter

NA Not applicable.

NE Tier 1 objective not established in TACO

SRO Soil remediation objective

TACO Tiered Approach to Corrective Action Objectives

TCLP Toxic Characteristic Leaching Procedure

--- Not analyzed for parameter

<0.5 Analyte/compound not present at concentration above laboratory reporting limit.

56 *Indicates concentration above the hazardous waste level (5 mg/L).*

1,000 *Indicates concentration above the most stringent industrial/commercial TACO SRO.*

520 *Indicates concentration above the most stringent residential TACO SRO.*

The TCLP lead results were not compared to the soil component of groundwater ingestion route SRO because the City of Chicago has a groundwater ordinance.

¹ *According to 40 CFR Part 261, the USEPA's Identification and Listing of Hazardous Waste, TCLP lead samples with concentrations greater than 5 mg/L will be classified as hazardous waste. The soil borings for the LM-series samples were advanced by TRC and provided to the US EPA's consultant immediately upon advancement. As such, the analytical soil sampling depths and intervals were decided by the US EPA's consultant. The US EPA samples were also analyzed for additional parameters; however, this data is not included in this summary table. Refer to the laboratory report in Appendix A for this information.*

Table 2. Additional Soil Analytical Results
 BNSF ROW Sampling East of Loewenthal Metals
 Chicago, Cook County, Illinois

Analyses	Exposure Route-Specific Values for Soils ¹			TACO Soil Background Levels ²	Sample ID, Sample Depth, and Sample Date					
	Residential	Industrial / Commercial	Construction Worker		GP-1	GP-1	GP-2	GP-2	GP-3	GP-3
					0-2'	2-4'	0-2'	2-4'	0-2'	2-4'
					6/21/2013					
PAHs (mg/kg)	Ing / Inh	Ing / Inh	Ing / Inh	City of Chicago						
Acenaphthene	4,700 / NE	120,000 / NE	120,000 / NE	See note 2 below	0.461	< 0.0408	0.114	0.0459	0.741	0.0394
Acenaphthylene ³	2,300 / NE	61,000 / NE	61,000 / NE		0.379	0.0476	0.160	0.101	0.860	0.148
Anthracene	23,000 / NE	610,000 / NE	610,000 / NE		1.7	0.0879	0.488	0.223	4.17	0.162
Benzo(a)anthracene	0.9 / NE	8 / NE	170 / NE		7.38	0.324	2.02	0.787	18.0	1.74
Benzo(a)pyrene	0.09 / NE	0.8 / NE	17 / NE	1.3	6.81	0.282	1.53	0.683	15.6	1.50
Benzo(b)fluoranthene	0.9 / NE	8 / NE	170 / NE	Background value less than most stringent TACO SRO, as such these values not shown. ²	12.1	0.602	3.66	1.50	32.9	2.60
Benzo(g,h,i)perylene ³	2,300 / NE	61,000 / NE	61,000 / NE		3.37	0.107	0.517	0.261	5.49	0.447
Benzo(k)fluoranthene	9 / NE	78 / NE	1,700 / NE		< 0.0402	< 0.0408	< 0.0752	< 0.041	< 0.429	0.0394
Chrysene	88 / NE	780 / NE	17,000 / NE		6.72	0.341	2.00	0.868	16.9	1.73
Dibenzo(a,h)anthracene	0.09 / NE	0.8 / NE	17 / NE		1.11	< 0.0408	0.231	0.0841	1.74	0.135
Fluoranthene	3,100 / NE	82,000 / NE	82,000 / NE		12.2	0.589	4.05	1.43	37.2	1.67
Fluorene	3,100 / NE	82,000 / NE	82,000 / NE		0.432	< 0.0408	0.111	0.0491	0.998	0.0394
Indeno(1,2,3-cd)pyrene	0.9 / NE	8 / NE	170 / NE		3.12	0.115	0.545	0.252	5.42	0.391
Naphthalene	1,600 / NE	41,000 / 270	4,100 / 1.8		0.588	0.148	0.301	0.278	0.902	0.155
Phenanthrene ³	2,300 / NE	61,000 / NE	61,000 / NE		6.17	0.454	2.12	1.11	16.7	0.393
Pyrene	2,300 / NE	61,000 / NE	61,000 / NE		8.35	0.486	2.80	1.05	25.6	3.06
Metals (mg/kg)										
Arsenic	13.0 / 750	13.0 / 1,200	61 / 25,000	13.0	125	12.7	107	39.0	39.8	15.0
Barium	5,550 / 690,000	140,000 / 910,000	14,000 / 870,000	See note 2 above	246	105	402	365	669	90.9
Cadmium	78 / 1,800	2,000 / 2,800	200 / 59,000		6.5	2.0	4.9	3.1	8.2	85.0
Chromium	230 / 270	6,100 / 420	4,100 / 690		28.1	10.6	25.2	20.3	26.9	15.6
Copper	2,900 / NE	82,000 / NE	8,200 / NE		347	60.2	324	256	409	64.9
Lead (Total)	400 / NE	800 / NE	700 / NE		1,040	109	1,220	1,130	3,190	169
Manganese	1,600 / 69,000	41,000 / 91,000	4,100 / 8,700	636	397	156	400	294	396	348
Mercury ⁴	23 / 10	610 / 16	61 / 0.1	See note 2 above	1.8	0.94	0.86	0.47	0.69	0.36
Selenium	390 / NE	10,000 / NE	1,000 / NE		1.9	< 1.8	< 1.7	< 1.8	2.2	< 3.5
Silver	390 / NE	10,000 / NE	1,000 / NE		< 0.83	< 0.82	< 0.81	< 0.83	0.92	< 0.81
Zinc	23,000 / NE	610,000 / NE	61,000 / NE		1,810	639	1,880	923	1,760	8,740
TCLP Lead (mg/L)										
Lead (TCLP)	5 mg/L ⁵			NE	< 0.50	< 0.50	< 0.50	< 0.50	49.8	< 0.50
pH					7.4	6.5	7.7	7.5	7.3	7.0

Notes: Refer to page 2 of 2

Table 2. Additional Soil Analytical Results
 BNSF ROW Sampling East of Loewenthal Metals
 Chicago, Cook County, Illinois

Notes:

Soil depths are measured in feet below ground surface (bgs).

Ing *Ingestion*
Inh *Inhalation*

mg/kg *Milligrams per kilogram*

mg/L *Milligrams per liter*

NE *Tier 1 objective not established in TACO*

TACO *Tiered Approach to Corrective Action Objectives*

SROs *Soil remediation objectives*

PAHs *Polynuclear aromatic hydrocarbons. Soil samples were collected and analyzed for PAHs using USEPA Methods 3546, 8310 and 8270 by Selected Ion Monitoring.*

<0.83 *Analyte/compound not present at concentration above laboratory reporting limit.*

<0.50 *Laboratory reporting limit is above most stringent Tier 1 SRO.*

1.9 *Indicates detected concentration above the most stringent TACO residential Tier 1 SRO.*

6.7 *Indicates detected concentration above the most stringent TACO industrial/commercial Tier 1 SRO.*

49.8 *Indicates concentration above the hazardous waste level (5 mg/L).*

¹ *Bolded remediation objective is the most stringent of the TACO Tier 1 remediation objectives for the soil ingestion, background and/or inhalation for residential and/or industrial/commercial properties.*

² *The values listed are the established background concentrations for background soils for sites in Chicago, IL (35 IAC 742, Appendix A, Table H). Background values less than most stringent TACO SRO are not shown.*

³ *Analyte/compound is not included as a TACO Tier 1 objective. Suggested values are taken from the IEPA's "Non-TACO Chemicals" (03/14/2011).*

⁴ *The inhalation SRO only applies at sites where elemental mercury is a contaminant of concern. TACO Table A, Appendix B, Footnote S.*

⁵ *TACO Tier 1 SROs for soil ingestion and inhalation are not applicable to TCLP Lead. According to 40 CFR Part 261, the USEPA's Identification and Listing of Hazardous Waste, TCLP lead samples with concentrations greater than 5 mg/L will be classified as hazardous waste.*

June 21, 2013 / Sampling Event

June 27, 2013

LISA MEAGHER
TRC SOLUTIONS
230 W. Monroe St
Chicago, IL 60606

RE: Project: BNSF FAST TRACK 204997
Pace Project No.: 60147566

Dear LISA MEAGHER:

Enclosed are the analytical results for sample(s) received by the laboratory on June 25, 2013. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Mary Jane Walls for
Angie Brown
Angie.Brown@pacelabs.com
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

CERTIFICATIONS

Project: BNSF FAST TRACK 204997

Pace Project No.: 60147566

Kansas Certification IDs

9608 Loiret Boulevard, Lenexa, KS 66219

WY STR Certification #: 2456.01

Arkansas Certification #: 13-012-0

Illinois Certification #: 003097

Iowa Certification #: 118

Kansas/NELAP Certification #: E-10116

Louisiana Certification #: 03055

Nevada Certification #: KS000212008A

Oklahoma Certification #: 9205/9935

Texas Certification #: T104704407-13-4

Utah Certification #: KS000212013-3

Illinois Certification #: 003097

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: BNSF FAST TRACK 204997

Pace Project No.: 60147566

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60147566001	GP-1 0-2	Solid	06/21/13 11:05	06/25/13 08:05
60147566002	GP-1 2-4	Solid	06/21/13 11:10	06/25/13 08:05
60147566003	GP-2 0-2	Solid	06/21/13 10:50	06/25/13 08:05
60147566004	GP-2 2-4	Solid	06/21/13 10:55	06/25/13 08:05
60147566005	GP-3 0-2	Solid	06/21/13 10:30	06/25/13 08:05
60147566006	GP-3 2-4	Solid	06/21/13 10:40	06/25/13 08:05

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SAMPLE ANALYTE COUNT

Project: BNSF FAST TRACK 204997

Pace Project No.: 60147566

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60147566001	GP-1 0-2	EPA 6010	SMW	10
		EPA 6010	TJT	1
		EPA 7471	TDS	1
		EPA 8270 by SIM	NAW	18
		ASTM D2974	CEM	1
		EPA 9045	NDL	1
60147566002	GP-1 2-4	EPA 6010	SMW	10
		EPA 6010	TJT	1
		EPA 7471	TDS	1
		EPA 8270 by SIM	NAW	18
		ASTM D2974	CEM	1
		EPA 9045	NDL	1
60147566003	GP-2 0-2	EPA 6010	SMW	10
		EPA 6010	TJT	1
		EPA 7471	TDS	1
		EPA 8270 by SIM	NAW	18
		ASTM D2974	CEM	1
		EPA 9045	NDL	1
60147566004	GP-2 2-4	EPA 6010	SMW	10
		EPA 6010	TJT	1
		EPA 7471	TDS	1
		EPA 8270 by SIM	NAW	18
		ASTM D2974	CEM	1
		EPA 9045	NDL	1
60147566005	GP-3 0-2	EPA 6010	SMW	10
		EPA 6010	TJT	1
		EPA 7471	TDS	1
		EPA 8270 by SIM	NAW	18
		ASTM D2974	CEM	1
		EPA 9045	NDL	1
60147566006	GP-3 2-4	EPA 6010	SMW	10
		EPA 6010	TJT	1
		EPA 7471	TDS	1
		EPA 8270 by SIM	NAW	18
		ASTM D2974	CEM	1
		EPA 9045	NDL	1

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ANALYTICAL RESULTS

Project: BNSF FAST TRACK 204997

Pace Project No.: 60147566

Sample: GP-1 0-2 **Lab ID: 60147566001** Collected: 06/21/13 11:05 Received: 06/25/13 08:05 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Red. Interference Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Arsenic	125	mg/kg	1.2		1	06/25/13 11:00	06/25/13 16:14	7440-38-2	M1,R1
Barium	246	mg/kg	1.2		1	06/25/13 11:00	06/25/13 16:14	7440-39-3	M1
Cadmium	6.5	mg/kg	0.59		1	06/25/13 11:00	06/25/13 16:14	7440-43-9	
Chromium	28.1	mg/kg	0.59		1	06/25/13 11:00	06/25/13 16:14	7440-47-3	
Copper	347	mg/kg	1.2		1	06/25/13 11:00	06/25/13 16:14	7440-50-8	M1
Lead	1040	mg/kg	1.2		1	06/25/13 11:00	06/25/13 16:14	7439-92-1	M1
Manganese	397	mg/kg	0.59		1	06/25/13 11:00	06/25/13 16:14	7439-96-5	M1
Selenium	1.9	mg/kg	1.8		1	06/25/13 11:00	06/25/13 16:14	7782-49-2	
Silver	ND	mg/kg	0.83		1	06/25/13 11:00	06/25/13 16:14	7440-22-4	
Zinc	1810	mg/kg	11.9		1	06/25/13 11:00	06/25/13 16:14	7440-66-6	M1

6010 MET ICP, TCLP

Analytical Method: EPA 6010 Preparation Method: EPA 3010

Leachate Method/Date: EPA 1311; 06/26/13 00:00

Lead	ND	mg/L	0.50		5	1	06/26/13 11:45	06/26/13 17:29	7439-92-1
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7471 Mercury

Analytical Method: EPA 7471 Preparation Method: EPA 7471

Mercury	1.8	mg/kg	0.31			5	06/25/13 15:30	06/26/13 09:55	7439-97-6	M1,R1
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8270 MSSV PAH by SIM

Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546

Acenaphthene	461	ug/kg	40.2			10	06/25/13 00:00	06/26/13 13:43	83-32-9	
Acenaphthylene	379	ug/kg	40.2			10	06/25/13 00:00	06/26/13 13:43	208-96-8	
Anthracene	1700	ug/kg	40.2			10	06/25/13 00:00	06/26/13 13:43	120-12-7	
Benzo(a)anthracene	7380	ug/kg	40.2			10	06/25/13 00:00	06/26/13 13:43	56-55-3	
Benzo(a)pyrene	6810	ug/kg	40.2			10	06/25/13 00:00	06/26/13 13:43	50-32-8	
Benzo(b)fluoranthene	12100	ug/kg	402			100	06/25/13 00:00	06/26/13 15:57	205-99-2	
Benzo(g,h,i)perylene	3370	ug/kg	40.2			10	06/25/13 00:00	06/26/13 13:43	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	40.2			10	06/25/13 00:00	06/26/13 13:43	207-08-9	
Chrysene	6720	ug/kg	402			100	06/25/13 00:00	06/26/13 15:57	218-01-9	
Dibenz(a,h)anthracene	1110	ug/kg	40.2			10	06/25/13 00:00	06/26/13 13:43	53-70-3	
Fluoranthene	12200	ug/kg	402			100	06/25/13 00:00	06/26/13 15:57	206-44-0	
Fluorene	432	ug/kg	40.2			10	06/25/13 00:00	06/26/13 13:43	86-73-7	
Indeno(1,2,3-cd)pyrene	3120	ug/kg	40.2			10	06/25/13 00:00	06/26/13 13:43	193-39-5	
Naphthalene	588	ug/kg	40.2			10	06/25/13 00:00	06/26/13 13:43	91-20-3	
Phenanthrene	6170	ug/kg	402			100	06/25/13 00:00	06/26/13 15:57	85-01-8	
Pyrene	8350	ug/kg	402			100	06/25/13 00:00	06/26/13 15:57	129-00-0	

Surrogates

2-Fluorobiphenyl (S)	0	%	40-120			10	06/25/13 00:00	06/26/13 13:43	321-60-8	S4
Terphenyl-d14 (S)	0	%	38-123			10	06/25/13 00:00	06/26/13 13:43	1718-51-0	S4

Percent Moisture

Analytical Method: ASTM D2974

Percent Moisture	18.9	%	0.50			1		06/25/13 00:00		
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9045 pH Soil

Analytical Method: EPA 9045

pH at 25 Degrees C	7.4	Std. Units	0.10			1		06/26/13 13:54		H3
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ANALYTICAL RESULTS

Project: BNSF FAST TRACK 204997

Pace Project No.: 60147566

Sample: GP-1 2-4 **Lab ID:** 60147566002 **Collected:** 06/21/13 11:10 **Received:** 06/25/13 08:05 **Matrix:** Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Red. Interference Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Arsenic	12.7	mg/kg	1.2		1	06/25/13 11:00	06/25/13 16:20	7440-38-2	
Barium	105	mg/kg	1.2		1	06/25/13 11:00	06/25/13 16:20	7440-39-3	
Cadmium	2.0	mg/kg	0.59		1	06/25/13 11:00	06/25/13 16:20	7440-43-9	
Chromium	10.6	mg/kg	0.59		1	06/25/13 11:00	06/25/13 16:20	7440-47-3	
Copper	60.2	mg/kg	1.2		1	06/25/13 11:00	06/25/13 16:20	7440-50-8	
Lead	109	mg/kg	1.2		1	06/25/13 11:00	06/25/13 16:20	7439-92-1	
Manganese	156	mg/kg	0.59		1	06/25/13 11:00	06/25/13 16:20	7439-96-5	
Selenium	ND	mg/kg	1.8		1	06/25/13 11:00	06/25/13 16:20	7782-49-2	
Silver	ND	mg/kg	0.82		1	06/25/13 11:00	06/25/13 16:20	7440-22-4	
Zinc	639	mg/kg	11.7		1	06/25/13 11:00	06/25/13 16:20	7440-66-6	

6010 MET ICP, TCLP

Analytical Method: EPA 6010 Preparation Method: EPA 3010

Leachate Method/Date: EPA 1311; 06/26/13 00:00

Lead	ND	mg/L	0.50		5	1	06/26/13 11:45	06/26/13 17:31	7439-92-1
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7471 Mercury

Analytical Method: EPA 7471 Preparation Method: EPA 7471

Mercury	0.94	mg/kg	0.062			1	06/25/13 15:30	06/26/13 09:36	7439-97-6
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8270 MSSV PAH by SIM

Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546

Acenaphthene	ND	ug/kg	40.8		10	06/25/13 00:00	06/26/13 16:13	83-32-9	
Acenaphthylene	47.6	ug/kg	40.8		10	06/25/13 00:00	06/26/13 16:13	208-96-8	
Anthracene	87.9	ug/kg	40.8		10	06/25/13 00:00	06/26/13 16:13	120-12-7	
Benzo(a)anthracene	324	ug/kg	40.8		10	06/25/13 00:00	06/26/13 16:13	56-55-3	
Benzo(a)pyrene	282	ug/kg	40.8		10	06/25/13 00:00	06/26/13 16:13	50-32-8	
Benzo(b)fluoranthene	602	ug/kg	40.8		10	06/25/13 00:00	06/26/13 16:13	205-99-2	
Benzo(g,h,i)perylene	107	ug/kg	40.8		10	06/25/13 00:00	06/26/13 16:13	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	40.8		10	06/25/13 00:00	06/26/13 16:13	207-08-9	
Chrysene	341	ug/kg	40.8		10	06/25/13 00:00	06/26/13 16:13	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	40.8		10	06/25/13 00:00	06/26/13 16:13	53-70-3	
Fluoranthene	589	ug/kg	40.8		10	06/25/13 00:00	06/26/13 16:13	206-44-0	
Fluorene	ND	ug/kg	40.8		10	06/25/13 00:00	06/26/13 16:13	86-73-7	
Indeno(1,2,3-cd)pyrene	115	ug/kg	40.8		10	06/25/13 00:00	06/26/13 16:13	193-39-5	
Naphthalene	148	ug/kg	40.8		10	06/25/13 00:00	06/26/13 16:13	91-20-3	
Phenanthrene	454	ug/kg	40.8		10	06/25/13 00:00	06/26/13 16:13	85-01-8	
Pyrene	486	ug/kg	40.8		10	06/25/13 00:00	06/26/13 16:13	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	0	%	40-120		10	06/25/13 00:00	06/26/13 16:13	321-60-8	S4
Terphenyl-d14 (S)	0	%	38-123		10	06/25/13 00:00	06/26/13 16:13	1718-51-0	S4

Percent Moisture

Analytical Method: ASTM D2974

Percent Moisture	19.4	%	0.50		1		06/25/13 00:00		
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9045 pH Soil

Analytical Method: EPA 9045

pH at 25 Degrees C	6.5	Std. Units	0.10		1		06/26/13 13:54		H3
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ANALYTICAL RESULTS

Project: BNSF FAST TRACK 204997

Pace Project No.: 60147566

Sample: GP-2 0-2 **Lab ID: 60147566003** Collected: 06/21/13 10:50 Received: 06/25/13 08:05 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Red. Interference Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Arsenic	107	mg/kg	1.2		1	06/25/13 11:00	06/25/13 16:22	7440-38-2	
Barium	402	mg/kg	1.2		1	06/25/13 11:00	06/25/13 16:22	7440-39-3	
Cadmium	4.9	mg/kg	0.58		1	06/25/13 11:00	06/25/13 16:22	7440-43-9	
Chromium	25.2	mg/kg	0.58		1	06/25/13 11:00	06/25/13 16:22	7440-47-3	
Copper	324	mg/kg	1.2		1	06/25/13 11:00	06/25/13 16:22	7440-50-8	
Lead	1220	mg/kg	1.2		1	06/25/13 11:00	06/25/13 16:22	7439-92-1	
Manganese	400	mg/kg	0.58		1	06/25/13 11:00	06/25/13 16:22	7439-96-5	
Selenium	ND	mg/kg	1.7		1	06/25/13 11:00	06/25/13 16:22	7782-49-2	
Silver	ND	mg/kg	0.81		1	06/25/13 11:00	06/25/13 16:22	7440-22-4	
Zinc	1880	mg/kg	11.6		1	06/25/13 11:00	06/25/13 16:22	7440-66-6	

6010 MET ICP, TCLP

Analytical Method: EPA 6010 Preparation Method: EPA 3010

Leachate Method/Date: EPA 1311; 06/26/13 00:00

Lead	ND	mg/L	0.50		5	1	06/26/13 11:45	06/26/13 17:33	7439-92-1
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7471 Mercury

Analytical Method: EPA 7471 Preparation Method: EPA 7471

Mercury	0.86	mg/kg	0.053			1	06/25/13 15:30	06/26/13 09:38	7439-97-6
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8270 MSSV PAH by SIM

Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546

Acenaphthene	114	ug/kg	75.2		20	06/25/13 00:00	06/26/13 16:30	83-32-9	
Acenaphthylene	160	ug/kg	75.2		20	06/25/13 00:00	06/26/13 16:30	208-96-8	
Anthracene	488	ug/kg	75.2		20	06/25/13 00:00	06/26/13 16:30	120-12-7	
Benzo(a)anthracene	2020	ug/kg	75.2		20	06/25/13 00:00	06/26/13 16:30	56-55-3	
Benzo(a)pyrene	1530	ug/kg	75.2		20	06/25/13 00:00	06/26/13 16:30	50-32-8	
Benzo(b)fluoranthene	3660	ug/kg	75.2		20	06/25/13 00:00	06/26/13 16:30	205-99-2	
Benzo(g,h,i)perylene	517	ug/kg	75.2		20	06/25/13 00:00	06/26/13 16:30	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	75.2		20	06/25/13 00:00	06/26/13 16:30	207-08-9	
Chrysene	2000	ug/kg	75.2		20	06/25/13 00:00	06/26/13 16:30	218-01-9	
Dibenz(a,h)anthracene	231	ug/kg	75.2		20	06/25/13 00:00	06/26/13 16:30	53-70-3	
Fluoranthene	4050	ug/kg	75.2		20	06/25/13 00:00	06/26/13 16:30	206-44-0	
Fluorene	111	ug/kg	75.2		20	06/25/13 00:00	06/26/13 16:30	86-73-7	
Indeno(1,2,3-cd)pyrene	545	ug/kg	75.2		20	06/25/13 00:00	06/26/13 16:30	193-39-5	
Naphthalene	301	ug/kg	75.2		20	06/25/13 00:00	06/26/13 16:30	91-20-3	
Phenanthrene	2120	ug/kg	75.2		20	06/25/13 00:00	06/26/13 16:30	85-01-8	
Pyrene	2800	ug/kg	75.2		20	06/25/13 00:00	06/26/13 16:30	129-00-0	

Surrogates

2-Fluorobiphenyl (S)	0	%	40-120		20	06/25/13 00:00	06/26/13 16:30	321-60-8	S4
Terphenyl-d14 (S)	111	%	38-123		20	06/25/13 00:00	06/26/13 16:30	1718-51-0	

Percent Moisture

Analytical Method: ASTM D2974

Percent Moisture	13.6	%	0.50		1		06/25/13 00:00		
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9045 pH Soil

Analytical Method: EPA 9045

pH at 25 Degrees C	7.7	Std. Units	0.10		1		06/26/13 13:54		H3
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ANALYTICAL RESULTS

Project: BNSF FAST TRACK 204997

Pace Project No.: 60147566

Sample: GP-2 2-4 **Lab ID:** 60147566004 **Collected:** 06/21/13 10:55 **Received:** 06/25/13 08:05 **Matrix:** Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Red. Interference Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Arsenic	39.0	mg/kg	1.2		1	06/25/13 11:00	06/25/13 16:24	7440-38-2	
Barium	365	mg/kg	1.2		1	06/25/13 11:00	06/25/13 16:24	7440-39-3	
Cadmium	3.1	mg/kg	0.59		1	06/25/13 11:00	06/25/13 16:24	7440-43-9	
Chromium	20.3	mg/kg	0.59		1	06/25/13 11:00	06/25/13 16:24	7440-47-3	
Copper	256	mg/kg	1.2		1	06/25/13 11:00	06/25/13 16:24	7440-50-8	
Lead	1130	mg/kg	1.2		1	06/25/13 11:00	06/25/13 16:24	7439-92-1	
Manganese	294	mg/kg	0.59		1	06/25/13 11:00	06/25/13 16:24	7439-96-5	
Selenium	ND	mg/kg	1.8		1	06/25/13 11:00	06/25/13 16:24	7782-49-2	
Silver	ND	mg/kg	0.83		1	06/25/13 11:00	06/25/13 16:24	7440-22-4	
Zinc	923	mg/kg	11.9		1	06/25/13 11:00	06/25/13 16:24	7440-66-6	

6010 MET ICP, TCLP

Analytical Method: EPA 6010 Preparation Method: EPA 3010

Leachate Method/Date: EPA 1311; 06/26/13 00:00

Lead	ND	mg/L	0.50		5	1	06/26/13 11:45	06/26/13 17:36	7439-92-1
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7471 Mercury

Analytical Method: EPA 7471 Preparation Method: EPA 7471

Mercury	0.47	mg/kg	0.056			1	06/25/13 15:30	06/26/13 09:40	7439-97-6
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8270 MSSV PAH by SIM

Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546

Acenaphthene	45.9	ug/kg	41.0		10	06/25/13 00:00	06/26/13 14:33	83-32-9	
Acenaphthylene	101	ug/kg	41.0		10	06/25/13 00:00	06/26/13 14:33	208-96-8	
Anthracene	223	ug/kg	41.0		10	06/25/13 00:00	06/26/13 14:33	120-12-7	
Benzo(a)anthracene	787	ug/kg	41.0		10	06/25/13 00:00	06/26/13 14:33	56-55-3	
Benzo(a)pyrene	683	ug/kg	41.0		10	06/25/13 00:00	06/26/13 14:33	50-32-8	
Benzo(b)fluoranthene	1500	ug/kg	41.0		10	06/25/13 00:00	06/26/13 14:33	205-99-2	
Benzo(g,h,i)perylene	261	ug/kg	41.0		10	06/25/13 00:00	06/26/13 14:33	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	41.0		10	06/25/13 00:00	06/26/13 14:33	207-08-9	
Chrysene	868	ug/kg	41.0		10	06/25/13 00:00	06/26/13 14:33	218-01-9	
Dibenz(a,h)anthracene	84.1	ug/kg	41.0		10	06/25/13 00:00	06/26/13 14:33	53-70-3	
Fluoranthene	1430	ug/kg	41.0		10	06/25/13 00:00	06/26/13 14:33	206-44-0	
Fluorene	49.1	ug/kg	41.0		10	06/25/13 00:00	06/26/13 14:33	86-73-7	
Indeno(1,2,3-cd)pyrene	252	ug/kg	41.0		10	06/25/13 00:00	06/26/13 14:33	193-39-5	
Naphthalene	278	ug/kg	41.0		10	06/25/13 00:00	06/26/13 14:33	91-20-3	
Phenanthrene	1110	ug/kg	41.0		10	06/25/13 00:00	06/26/13 14:33	85-01-8	
Pyrene	1050	ug/kg	41.0		10	06/25/13 00:00	06/26/13 14:33	129-00-0	

Surrogates

2-Fluorobiphenyl (S)	0	%	40-120		10	06/25/13 00:00	06/26/13 14:33	321-60-8	S4
Terphenyl-d14 (S)	0	%	38-123		10	06/25/13 00:00	06/26/13 14:33	1718-51-0	S4

Percent Moisture

Analytical Method: ASTM D2974

Percent Moisture	20.6	%	0.50		1		06/25/13 00:00		
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9045 pH Soil

Analytical Method: EPA 9045

pH at 25 Degrees C	7.5	Std. Units	0.10		1		06/26/13 13:54		H3
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REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BNSF FAST TRACK 204997

Pace Project No.: 60147566

Sample: GP-3 0-2 **Lab ID: 60147566005** Collected: 06/21/13 10:30 Received: 06/25/13 08:05 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Red. Interference Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Arsenic	39.8	mg/kg	1.3		1	06/25/13 11:00	06/25/13 16:26	7440-38-2	
Barium	669	mg/kg	1.3		1	06/25/13 11:00	06/25/13 16:26	7440-39-3	
Cadmium	8.2	mg/kg	0.64		1	06/25/13 11:00	06/25/13 16:26	7440-43-9	
Chromium	26.9	mg/kg	0.64		1	06/25/13 11:00	06/25/13 16:26	7440-47-3	
Copper	409	mg/kg	1.3		1	06/25/13 11:00	06/25/13 16:26	7440-50-8	
Lead	3190	mg/kg	1.3		1	06/25/13 11:00	06/25/13 16:26	7439-92-1	
Manganese	396	mg/kg	0.64		1	06/25/13 11:00	06/25/13 16:26	7439-96-5	
Selenium	2.2	mg/kg	1.9		1	06/25/13 11:00	06/25/13 16:26	7782-49-2	
Silver	0.92	mg/kg	0.90		1	06/25/13 11:00	06/25/13 16:26	7440-22-4	
Zinc	1760	mg/kg	12.9		1	06/25/13 11:00	06/25/13 16:26	7440-66-6	

6010 MET ICP, TCLP

Analytical Method: EPA 6010 Preparation Method: EPA 3010

Leachate Method/Date: EPA 1311; 06/26/13 00:00

Lead	49.8	mg/L	0.50	5	1	06/26/13 11:45	06/26/13 17:38	7439-92-1	
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7471 Mercury

Analytical Method: EPA 7471 Preparation Method: EPA 7471

Mercury	0.69	mg/kg	0.066		1	06/25/13 15:30	06/26/13 09:43	7439-97-6	
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8270 MSSV PAH by SIM

Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546

Acenaphthene	741	ug/kg	429		100	06/25/13 00:00	06/26/13 16:46	83-32-9	
Acenaphthylene	860	ug/kg	429		100	06/25/13 00:00	06/26/13 16:46	208-96-8	
Anthracene	4170	ug/kg	429		100	06/25/13 00:00	06/26/13 16:46	120-12-7	
Benzo(a)anthracene	18000	ug/kg	429		100	06/25/13 00:00	06/26/13 16:46	56-55-3	
Benzo(a)pyrene	15600	ug/kg	429		100	06/25/13 00:00	06/26/13 16:46	50-32-8	
Benzo(b)fluoranthene	32900	ug/kg	429		100	06/25/13 00:00	06/26/13 16:46	205-99-2	
Benzo(g,h,i)perylene	5490	ug/kg	429		100	06/25/13 00:00	06/26/13 16:46	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	429		100	06/25/13 00:00	06/26/13 16:46	207-08-9	
Chrysene	16900	ug/kg	429		100	06/25/13 00:00	06/26/13 16:46	218-01-9	
Dibenz(a,h)anthracene	1740	ug/kg	429		100	06/25/13 00:00	06/26/13 16:46	53-70-3	
Fluoranthene	37200	ug/kg	429		100	06/25/13 00:00	06/26/13 16:46	206-44-0	
Fluorene	998	ug/kg	429		100	06/25/13 00:00	06/26/13 16:46	86-73-7	
Indeno(1,2,3-cd)pyrene	5420	ug/kg	429		100	06/25/13 00:00	06/26/13 16:46	193-39-5	
Naphthalene	902	ug/kg	429		100	06/25/13 00:00	06/26/13 16:46	91-20-3	
Phenanthrene	16700	ug/kg	429		100	06/25/13 00:00	06/26/13 16:46	85-01-8	
Pyrene	25600	ug/kg	429		100	06/25/13 00:00	06/26/13 16:46	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	0	%	40-120		100	06/25/13 00:00	06/26/13 16:46	321-60-8	S4
Terphenyl-d14 (S)	0	%	38-123		100	06/25/13 00:00	06/26/13 16:46	1718-51-0	S4

Percent Moisture

Analytical Method: ASTM D2974

Percent Moisture	23.7	%	0.50		1		06/25/13 00:00		
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9045 pH Soil

Analytical Method: EPA 9045

pH at 25 Degrees C	7.3	Std. Units	0.10		1		06/26/13 13:54		H3
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ANALYTICAL RESULTS

Project: BNSF FAST TRACK 204997

Pace Project No.: 60147566

Sample: GP-3 2-4 **Lab ID: 60147566006** Collected: 06/21/13 10:40 Received: 06/25/13 08:05 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Red. Interference Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Arsenic	15.0	mg/kg	1.2		1	06/25/13 11:00	06/25/13 16:28	7440-38-2	
Barium	90.9	mg/kg	1.2		1	06/25/13 11:00	06/25/13 16:28	7440-39-3	
Cadmium	85.0	mg/kg	1.2		2	06/25/13 11:00	06/26/13 15:06	7440-43-9	
Chromium	15.6	mg/kg	0.58		1	06/25/13 11:00	06/25/13 16:28	7440-47-3	
Copper	64.9	mg/kg	2.3		2	06/25/13 11:00	06/26/13 15:06	7440-50-8	
Lead	169	mg/kg	2.3		2	06/25/13 11:00	06/26/13 15:06	7439-92-1	
Manganese	348	mg/kg	0.58		1	06/25/13 11:00	06/25/13 16:28	7439-96-5	
Selenium	ND	mg/kg	3.5		2	06/25/13 11:00	06/26/13 15:06	7782-49-2	D3
Silver	ND	mg/kg	0.81		1	06/25/13 11:00	06/25/13 16:28	7440-22-4	
Zinc	8740	mg/kg	57.6		5	06/25/13 11:00	06/26/13 15:08	7440-66-6	

6010 MET ICP, TCLP

Analytical Method: EPA 6010 Preparation Method: EPA 3010

Leachate Method/Date: EPA 1311; 06/26/13 00:00

Lead	ND	mg/L	0.50		5	1	06/26/13 11:45	06/26/13 17:40	7439-92-1
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7471 Mercury

Analytical Method: EPA 7471 Preparation Method: EPA 7471

Mercury	0.36	mg/kg	0.060			1	06/25/13 15:30	06/26/13 09:45	7439-97-6
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8270 MSSV PAH by SIM

Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546

Acenaphthene	ND	ug/kg	39.4		10	06/25/13 00:00	06/26/13 17:03	83-32-9	
Acenaphthylene	148	ug/kg	39.4		10	06/25/13 00:00	06/26/13 17:03	208-96-8	
Anthracene	162	ug/kg	39.4		10	06/25/13 00:00	06/26/13 17:03	120-12-7	
Benzo(a)anthracene	1740	ug/kg	39.4		10	06/25/13 00:00	06/26/13 17:03	56-55-3	
Benzo(a)pyrene	1500	ug/kg	39.4		10	06/25/13 00:00	06/26/13 17:03	50-32-8	
Benzo(b)fluoranthene	2460	ug/kg	39.4		10	06/25/13 00:00	06/26/13 17:03	205-99-2	
Benzo(g,h,i)perylene	447	ug/kg	39.4		10	06/25/13 00:00	06/26/13 17:03	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	39.4		10	06/25/13 00:00	06/26/13 17:03	207-08-9	
Chrysene	1730	ug/kg	39.4		10	06/25/13 00:00	06/26/13 17:03	218-01-9	
Dibenz(a,h)anthracene	135	ug/kg	39.4		10	06/25/13 00:00	06/26/13 17:03	53-70-3	
Fluoranthene	1670	ug/kg	39.4		10	06/25/13 00:00	06/26/13 17:03	206-44-0	
Fluorene	ND	ug/kg	39.4		10	06/25/13 00:00	06/26/13 17:03	86-73-7	
Indeno(1,2,3-cd)pyrene	391	ug/kg	39.4		10	06/25/13 00:00	06/26/13 17:03	193-39-5	
Naphthalene	155	ug/kg	39.4		10	06/25/13 00:00	06/26/13 17:03	91-20-3	
Phenanthrene	393	ug/kg	39.4		10	06/25/13 00:00	06/26/13 17:03	85-01-8	
Pyrene	3060	ug/kg	39.4		10	06/25/13 00:00	06/26/13 17:03	129-00-0	

Surrogates

2-Fluorobiphenyl (S)	75	%	40-120		10	06/25/13 00:00	06/26/13 17:03	321-60-8	
Terphenyl-d14 (S)	100	%	38-123		10	06/25/13 00:00	06/26/13 17:03	1718-51-0	

Percent Moisture

Analytical Method: ASTM D2974

Percent Moisture	16.5	%	0.50		1		06/25/13 00:00		
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9045 pH Soil

Analytical Method: EPA 9045

pH at 25 Degrees C	7.0	Std. Units	0.10		1		06/26/13 13:54		H3
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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BNSF FAST TRACK 204997

Pace Project No.: 60147566

QC Batch: MERP/7456

Analysis Method: EPA 7471

QC Batch Method: EPA 7471

Analysis Description: 7471 Mercury

Associated Lab Samples: 60147566001, 60147566002, 60147566003, 60147566004, 60147566005, 60147566006

METHOD BLANK: 1210456

Matrix: Solid

Associated Lab Samples: 60147566001, 60147566002, 60147566003, 60147566004, 60147566005, 60147566006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	ND	0.050	06/26/13 09:25	

LABORATORY CONTROL SAMPLE: 1210457

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	.5	0.52	105	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1210458

1210459

Parameter	Units	60147566001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/kg	1.8	.58	.52	2.2	1.6	61	-36	75-125	28	20	M1, R1

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QUALITY CONTROL DATA

Project: BNSF FAST TRACK 204997

Pace Project No.: 60147566

QC Batch:	MPRP/23219	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3050	Analysis Description:	6010 MET
Associated Lab Samples: 60147566001, 60147566002, 60147566003, 60147566004, 60147566005, 60147566006			

METHOD BLANK: 1210395 Matrix: Solid

Associated Lab Samples: 60147566001, 60147566002, 60147566003, 60147566004, 60147566005, 60147566006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/kg	ND	1.0	06/25/13 16:10	
Barium	mg/kg	ND	1.0	06/25/13 16:10	
Cadmium	mg/kg	ND	0.50	06/25/13 16:10	
Chromium	mg/kg	ND	0.50	06/25/13 16:10	
Copper	mg/kg	ND	1.0	06/25/13 16:10	
Lead	mg/kg	ND	1.0	06/25/13 16:10	
Manganese	mg/kg	ND	0.50	06/25/13 16:10	
Selenium	mg/kg	ND	1.5	06/25/13 16:10	
Silver	mg/kg	ND	0.70	06/25/13 16:10	
Zinc	mg/kg	ND	10.0	06/25/13 16:10	

LABORATORY CONTROL SAMPLE: 1210396

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	100	98.9	99	80-120	
Barium	mg/kg	100	104	104	80-120	
Cadmium	mg/kg	100	101	101	80-120	
Chromium	mg/kg	100	103	103	80-120	
Copper	mg/kg	100	103	103	80-120	
Lead	mg/kg	100	105	105	80-120	
Manganese	mg/kg	100	103	103	80-120	
Selenium	mg/kg	100	99.1	99	80-120	
Silver	mg/kg	50	47.0	94	80-120	
Zinc	mg/kg	100	103	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1210397 1210398

Parameter	Units	60147566001		MS		MSD		MS		MSD		% Rec		Max	
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	% Rec	% Rec	Limits	RPD	RPD	Qual
Arsenic	mg/kg	125	114	119	221	277	85	129	75-125	22	20	M1, R1			
Barium	mg/kg	246	114	119	391	352	128	90	75-125	10	20	M1			
Cadmium	mg/kg	6.5	114	119	116	124	96	99	75-125	7	20				
Chromium	mg/kg	28.1	114	119	137	153	95	105	75-125	11	20				
Copper	mg/kg	347	114	119	454	545	93	166	75-125	18	20	M1			
Lead	mg/kg	1040	114	119	1080	1250	38	180	75-125	15	20	M1			
Manganese	mg/kg	397	114	119	490	589	82	162	75-125	18	20	M1			
Selenium	mg/kg	1.9	114	119	111	118	96	98	75-125	6	20				
Silver	mg/kg	ND	57.1	59.3	54.0	59.4	93	99	75-125	10	20				
Zinc	mg/kg	1810	114	119	1840	2150	29	288	75-125	15	20	M1			

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QUALITY CONTROL DATA

Project: BNSF FAST TRACK 204997

Pace Project No.: 60147566

QC Batch:	MPRP/23248	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3010	Analysis Description:	6010 MET TCLP
Associated Lab Samples:	60147566001, 60147566002, 60147566003, 60147566004, 60147566005, 60147566006		

METHOD BLANK:	1211150	Matrix:	Water
Associated Lab Samples:	60147566001, 60147566002, 60147566003, 60147566004, 60147566005, 60147566006		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	mg/L	ND	0.50	06/26/13 17:18	

LABORATORY CONTROL SAMPLE: 1211151						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	mg/L	1	1.0	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1211152												1211153	
Parameter	Units	60147566006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
Lead	mg/L	ND	10	10	9.8	9.3	98	93	75-125	5	20		

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QUALITY CONTROL DATA

Project: BNSF FAST TRACK 204997

Pace Project No.: 60147566

QC Batch: OEXT/39016 Analysis Method: EPA 8270 by SIM
QC Batch Method: EPA 3546 Analysis Description: 8270/3546 MSSV PAH by SIM
Associated Lab Samples: 60147566001, 60147566002, 60147566003, 60147566004, 60147566005, 60147566006

METHOD BLANK: 1210578 Matrix: Solid

Associated Lab Samples: 60147566001, 60147566002, 60147566003, 60147566004, 60147566005, 60147566006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Acenaphthene	ug/kg	ND	3.3	06/26/13 13:10	
Acenaphthylene	ug/kg	ND	3.3	06/26/13 13:10	
Anthracene	ug/kg	ND	3.3	06/26/13 13:10	
Benzo(a)anthracene	ug/kg	ND	3.3	06/26/13 13:10	
Benzo(a)pyrene	ug/kg	ND	3.3	06/26/13 13:10	
Benzo(b)fluoranthene	ug/kg	ND	3.3	06/26/13 13:10	
Benzo(g,h,i)perylene	ug/kg	ND	3.3	06/26/13 13:10	
Benzo(k)fluoranthene	ug/kg	ND	3.3	06/26/13 13:10	
Chrysene	ug/kg	ND	3.3	06/26/13 13:10	
Dibenz(a,h)anthracene	ug/kg	ND	3.3	06/26/13 13:10	
Fluoranthene	ug/kg	ND	3.3	06/26/13 13:10	
Fluorene	ug/kg	ND	3.3	06/26/13 13:10	
Indeno(1,2,3-cd)pyrene	ug/kg	ND	3.3	06/26/13 13:10	
Naphthalene	ug/kg	ND	3.3	06/26/13 13:10	
Phenanthrene	ug/kg	ND	3.3	06/26/13 13:10	
Pyrene	ug/kg	ND	3.3	06/26/13 13:10	
2-Fluorobiphenyl (S)	%	79	40-120	06/26/13 13:10	
Terphenyl-d14 (S)	%	84	38-123	06/26/13 13:10	

LABORATORY CONTROL SAMPLE: 1210579

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Acenaphthene	ug/kg	33.2	22.7	68	58-120	
Acenaphthylene	ug/kg	33.2	22.4	68	56-120	
Anthracene	ug/kg	33.2	21.9	66	56-120	
Benzo(a)anthracene	ug/kg	33.2	24.2	73	56-120	
Benzo(a)pyrene	ug/kg	33.2	23.5	71	55-120	
Benzo(b)fluoranthene	ug/kg	33.2	22.1	67	54-120	
Benzo(g,h,i)perylene	ug/kg	33.2	24.7	74	42-120	
Benzo(k)fluoranthene	ug/kg	33.2	23.6	71	53-120	
Chrysene	ug/kg	33.2	24.1	73	48-120	
Dibenz(a,h)anthracene	ug/kg	33.2	23.7	71	44-120	
Fluoranthene	ug/kg	33.2	23.0	69	58-120	
Fluorene	ug/kg	33.2	22.9	69	59-120	
Indeno(1,2,3-cd)pyrene	ug/kg	33.2	23.8	72	45-120	
Naphthalene	ug/kg	33.2	23.9	72	58-120	
Phenanthrene	ug/kg	33.2	22.7	68	57-120	
Pyrene	ug/kg	33.2	24.0	72	55-120	
2-Fluorobiphenyl (S)	%			68	40-120	
Terphenyl-d14 (S)	%			72	38-123	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BNSF FAST TRACK 204997

Pace Project No.: 60147566

QC Batch:	PMST/8669	Analysis Method:	ASTM D2974
QC Batch Method:	ASTM D2974	Analysis Description:	Dry Weight/Percent Moisture
Associated Lab Samples:	60147566001, 60147566002, 60147566003, 60147566004, 60147566005, 60147566006		

METHOD BLANK: 1210582 Matrix: Solid

Associated Lab Samples: 60147566001, 60147566002, 60147566003, 60147566004, 60147566005, 60147566006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Percent Moisture	%	ND	0.50	06/25/13 00:00	

SAMPLE DUPLICATE: 1210583

Parameter	Units	60147566001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	18.9	18.3	3	20	

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QUALITY CONTROL DATA

Project: BNSF FAST TRACK 204997

Pace Project No.: 60147566

QC Batch: WET/42049

Analysis Method: EPA 9045

QC Batch Method: EPA 9045

Analysis Description: 9045 pH

Associated Lab Samples: 60147566001, 60147566002, 60147566003, 60147566004, 60147566005, 60147566006

SAMPLE DUPLICATE: 1211080

Parameter	Units	60147566005 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.3	7.4	1	3	

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: BNSF FAST TRACK 204997

Pace Project No.: 60147566

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

H3 Sample was received or analysis requested beyond the recognized method holding time.

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

R1 RPD value was outside control limits.

S4 Surrogate recovery not evaluated against control limits due to sample dilution.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BNSF FAST TRACK 204997

Pace Project No.: 60147566

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60147566001	GP-1 0-2	EPA 3050	MPRP/23219	EPA 6010	ICP/18305
60147566002	GP-1 2-4	EPA 3050	MPRP/23219	EPA 6010	ICP/18305
60147566003	GP-2 0-2	EPA 3050	MPRP/23219	EPA 6010	ICP/18305
60147566004	GP-2 2-4	EPA 3050	MPRP/23219	EPA 6010	ICP/18305
60147566005	GP-3 0-2	EPA 3050	MPRP/23219	EPA 6010	ICP/18305
60147566006	GP-3 2-4	EPA 3050	MPRP/23219	EPA 6010	ICP/18305
60147566001	GP-1 0-2	EPA 3010	MPRP/23248	EPA 6010	ICP/18321
60147566002	GP-1 2-4	EPA 3010	MPRP/23248	EPA 6010	ICP/18321
60147566003	GP-2 0-2	EPA 3010	MPRP/23248	EPA 6010	ICP/18321
60147566004	GP-2 2-4	EPA 3010	MPRP/23248	EPA 6010	ICP/18321
60147566005	GP-3 0-2	EPA 3010	MPRP/23248	EPA 6010	ICP/18321
60147566006	GP-3 2-4	EPA 3010	MPRP/23248	EPA 6010	ICP/18321
60147566001	GP-1 0-2	EPA 7471	MERP/7456	EPA 7471	MERC/7415
60147566002	GP-1 2-4	EPA 7471	MERP/7456	EPA 7471	MERC/7415
60147566003	GP-2 0-2	EPA 7471	MERP/7456	EPA 7471	MERC/7415
60147566004	GP-2 2-4	EPA 7471	MERP/7456	EPA 7471	MERC/7415
60147566005	GP-3 0-2	EPA 7471	MERP/7456	EPA 7471	MERC/7415
60147566006	GP-3 2-4	EPA 7471	MERP/7456	EPA 7471	MERC/7415
60147566001	GP-1 0-2	EPA 3546	OEXT/39016	EPA 8270 by SIM	MSSV/12341
60147566002	GP-1 2-4	EPA 3546	OEXT/39016	EPA 8270 by SIM	MSSV/12341
60147566003	GP-2 0-2	EPA 3546	OEXT/39016	EPA 8270 by SIM	MSSV/12341
60147566004	GP-2 2-4	EPA 3546	OEXT/39016	EPA 8270 by SIM	MSSV/12341
60147566005	GP-3 0-2	EPA 3546	OEXT/39016	EPA 8270 by SIM	MSSV/12341
60147566006	GP-3 2-4	EPA 3546	OEXT/39016	EPA 8270 by SIM	MSSV/12341
60147566001	GP-1 0-2	ASTM D2974	PMST/8669		
60147566002	GP-1 2-4	ASTM D2974	PMST/8669		
60147566003	GP-2 0-2	ASTM D2974	PMST/8669		
60147566004	GP-2 2-4	ASTM D2974	PMST/8669		
60147566005	GP-3 0-2	ASTM D2974	PMST/8669		
60147566006	GP-3 2-4	ASTM D2974	PMST/8669		
60147566001	GP-1 0-2	EPA 9045	WET/42049		
60147566002	GP-1 2-4	EPA 9045	WET/42049		
60147566003	GP-2 0-2	EPA 9045	WET/42049		
60147566004	GP-2 2-4	EPA 9045	WET/42049		
60147566005	GP-3 0-2	EPA 9045	WET/42049		
60147566006	GP-3 2-4	EPA 9045	WET/42049		

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt
ESI Tech Spec Client

6211-3
WO#: 60147566



Client Name: BNSF TRC / PASI GB

Courier: Fed Ex ☒ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other ☐

Tracking #: 9325 1887 3600

Pace Shipping Label Used? Yes ☐ No ☒

Custody Seal on Cooler/Box Present: Yes ☒ No ☐ Seals intact: Yes ☒ No ☐

Packing Material: Bubble Wrap ☐ Bubble Bags ☒ Foam ☐ None ☐ Other ☐

Thermometer Used: T-112 / T-194

Type of Ice: Wet Blue ☐ None ☐ Samples received on ice, cooling process has begun.
(circle one)

Cooler Temperature: 5.0

Date and initials of person examining
contents: 6-25-13 BA

Temperature should be above freezing to 6°C

Chain of Custody present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody filled out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler name & signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples arrived within holding time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time analyses (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time requested:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7. <u>1-2 Days</u>
Sufficient volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
Containers intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Filtered volume received for dissolved tests?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	12.
Sample labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Includes date/time/ID/analyses	Matrix: <u>SL</u>	13.
All containers needing preservation have been checked.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
All containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
Exceptions: VOA, coliform, TOC, O&G, WI-DRO (water), Phenolics	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Initial when completed
Trip Blank present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Lot # of added preservative
Pace Trip Blank lot # (if purchased):		15.
Headspace in VOA vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	16.
Project sampled in USDA Regulated Area:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	17. List State: <u>IL</u>

Client Notification/ Resolution:

Copy COC to Client? Y ☒ N ☐

Field Data Required? Y ☐ N ☒

Person Contacted: _____

Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____

Date: 6/27/13

Temp Log: Record start and finish times when unpacking cooler, if >20 min, recheck sample temps.

Start:	Start:
End:	End:
Temp:	Temp:



Sample Condition Upon Receipt

Client Name: BNSF

Project #

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☒ Commercial ☐ Pace

Other CS Logistics

Tracking #:

Custody Seal on Cooler/Box Present: ☒ yes ☐ no

Seals intact: ☒ yes ☐ no

Custody Seal on Samples Present: ☐ yes ☒ no

Seals intact: ☐ yes ☐ no

Packing Material: ☒ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Thermometer Used SR-13

Type of Ice: ☒ Wet ☐ Blue ☐ Dry ☐ None

☒ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: 1 / Corr: 1°C

Biological Tissue is Frozen: ☐ yes

Temp Blank Present: ☒ yes ☐ no

☐ no

Temp should be above freezing to 6°C for all sample except Biota.

Frozen Biota Samples should be received ≤ 0°C.

Comments:

Person examining contents:

Date: 6/22/13

Initials: BF

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
- VOA Samples frozen upon receipt	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time:
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7. <u>1-2 day TAT. 6/22/13 BF</u>
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
-Pace IR Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix:	<u>IS</u>	
All containers needing preservation have been checked. (Non-Compliance noted in 13.)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation. (HNO ₃ , H ₂ SO ₄ ≤2; NaOH+ZnAct ≥9, NaOH ≥12)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
exceptions: VOA, coliform, TOC, TOX, TOH, O&G, WIDROW, Phenolics, OTHER:	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution:

If checked, see attached form for additional comments ☐

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____

Date: _____

November 12, 2013 / Sampling Event

December 12, 2013

LISA MEAGHER
TRC SOLUTIONS
230 W. Monroe St
Chicago, IL 60606

RE: Project: SANGAMON ST ROW 204997.0002
Pace Project No.: 60157822

Dear LISA MEAGHER:

Enclosed are the analytical results for sample(s) received by the laboratory on November 16, 2013. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Amended report revised 12/12/13.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Angie Brown

Angie.Brown@pacelabs.com
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: SANGAMON ST ROW 204997.0002

Pace Project No.: 60157822

Kansas Certification IDs

9608 Loiret Boulevard, Lenexa, KS 66219

WY STR Certification #: 2456.01

Arkansas Certification #: 13-012-0

Illinois Certification #: 003097

Iowa Certification #: 118

Kansas/NELAP Certification #: E-10116

Louisiana Certification #: 03055

Nevada Certification #: KS000212008A

Oklahoma Certification #: 9205/9935

Texas Certification #: T104704407-13-4

Utah Certification #: KS000212013-3

Illinois Certification #: 003097

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: SANGAMON ST ROW 204997.0002

Pace Project No.: 60157822

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60157822001	P-1 0-2	Solid	11/14/13 14:00	11/16/13 09:00
60157822002	P-1 2-4	Solid	11/14/13 14:02	11/16/13 09:00
60157822003	P-2 0-2	Solid	11/14/13 14:05	11/16/13 09:00
60157822004	P-2 2-4	Solid	11/14/13 14:06	11/16/13 09:00
60157822005	P-3 0-2	Solid	11/14/13 13:55	11/16/13 09:00
60157822006	P-3 2-4	Solid	11/14/13 13:56	11/16/13 09:00
60157822007	P-4 0-2	Solid	11/14/13 13:50	11/16/13 09:00
60157822008	P-4 2-4	Solid	11/14/13 13:51	11/16/13 09:00
60157822009	P-5 0-2	Solid	11/14/13 13:36	11/16/13 09:00
60157822010	P-5 2-4	Solid	11/14/13 13:37	11/16/13 09:00
60157822011	P-6 0-2	Solid	11/14/13 13:18	11/16/13 09:00
60157822012	P-6 2-4	Solid	11/14/13 13:19	11/16/13 09:00
60157822013	P-7 0-2	Solid	11/14/13 13:30	11/16/13 09:00
60157822014	P-7 2-4	Solid	11/14/13 13:31	11/16/13 09:00
60157822015	P-8 0-2	Solid	11/14/13 13:15	11/16/13 09:00
60157822016	P-8 2-4	Solid	11/14/13 13:16	11/16/13 09:00
60157822017	P-9 0-2	Solid	11/14/13 13:00	11/16/13 09:00
60157822018	P-9 2-4	Solid	11/14/13 13:01	11/16/13 09:00
60157822019	P-10 0-2	Solid	11/14/13 13:41	11/16/13 09:00
60157822020	P-10 2-4	Solid	11/14/13 13:42	11/16/13 09:00
60157822021	P-11 0-2	Solid	11/14/13 13:09	11/16/13 09:00
60157822022	P-11 2-4	Solid	11/14/13 13:08	11/16/13 09:00
60157822023	P-12 0-2	Solid	11/14/13 12:53	11/16/13 09:00
60157822024	P-12 2-4	Solid	11/14/13 12:54	11/16/13 09:00
60157822025	P-13 0-2	Solid	11/14/13 12:45	11/16/13 09:00
60157822026	P-13 2-4	Solid	11/14/13 12:46	11/16/13 09:00
60157822027	P-14 0-2	Solid	11/14/13 12:35	11/16/13 09:00
60157822028	P-14 2-4	Solid	11/14/13 12:36	11/16/13 09:00
60157822029	P-15 0-2	Solid	11/14/13 12:30	11/16/13 09:00
60157822030	P-15 2-4	Solid	11/14/13 12:31	11/16/13 09:00
60157822031	P-16 0-2	Solid	11/14/13 12:23	11/16/13 09:00
60157822032	P-16 2-4	Solid	11/14/13 12:24	11/16/13 09:00
60157822033	P-17 0-2	Solid	11/14/13 11:15	11/16/13 09:00
60157822034	P-17 2-4	Solid	11/14/13 11:16	11/16/13 09:00
60157822035	P-18 0-2	Solid	11/14/13 11:25	11/16/13 09:00
60157822036	P-18 2-4	Solid	11/14/13 11:26	11/16/13 09:00
60157822037	P-19 0-2	Solid	11/14/13 11:07	11/16/13 09:00

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: SANGAMON ST ROW 204997.0002

Pace Project No.: 60157822

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60157822038	P-19 2-4	Solid	11/14/13 11:08	11/16/13 09:00
60157822039	P-20 0-2	Solid	11/14/13 11:30	11/16/13 09:00
60157822040	P-20 2-4	Solid	11/14/13 11:31	11/16/13 09:00
60157822041	P-21 0-2	Solid	11/14/13 11:38	11/16/13 09:00
60157822042	P-21 2-4	Solid	11/14/13 11:39	11/16/13 09:00
60157822043	P-22 0-2	Solid	11/14/13 09:50	11/16/13 09:00
60157822044	P-22 2-4	Solid	11/14/13 09:51	11/16/13 09:00
60157822045	P-23 0-2	Solid	11/14/13 09:42	11/16/13 09:00
60157822046	P-23 2-4	Solid	11/14/13 09:43	11/16/13 09:00
60157822047	P-24 0-2	Solid	11/14/13 11:50	11/16/13 09:00
60157822048	P-24 2-4	Solid	11/14/13 11:51	11/16/13 09:00
60157822049	P-25 0-2	Solid	11/14/13 09:24	11/16/13 09:00
60157822050	P-25 2-4	Solid	11/14/13 09:25	11/16/13 09:00
60157822051	P-26 0-2	Solid	11/14/13 11:42	11/16/13 09:00
60157822052	P-26 2-4	Solid	11/14/13 11:43	11/16/13 09:00
60157822053	P-27 0-2	Solid	11/14/13 09:20	11/16/13 09:00
60157822054	P-27 2-4	Solid	11/14/13 09:21	11/16/13 09:00
60157822055	P-28 0-4	Solid	11/14/13 10:35	11/16/13 09:00
60157822056	P-29 0-2	Solid	11/14/13 09:15	11/16/13 09:00
60157822057	P-29 2-4	Solid	11/14/13 09:16	11/16/13 09:00
60157822058	P-30 0-2	Solid	11/14/13 10:30	11/16/13 09:00
60157822059	P-30 2-4	Solid	11/14/13 10:31	11/16/13 09:00
60157822060	P-31 0-2	Solid	11/14/13 08:57	11/16/13 09:00
60157822061	P-31 2-4	Solid	11/14/13 08:58	11/16/13 09:00
60157822062	P-32 0-2	Solid	11/14/13 10:20	11/16/13 09:00
60157822063	P-32 2-4	Solid	11/14/13 10:21	11/16/13 09:00
60157822064	P-33 0-2	Solid	11/14/13 09:01	11/16/13 09:00
60157822065	P-33 2-4	Solid	11/14/13 09:02	11/16/13 09:00
60157822066	P-34 0-2	Solid	11/14/13 10:10	11/16/13 09:00
60157822067	P-34 2-4	Solid	11/14/13 10:11	11/16/13 09:00
60157822068	P-35 0-2	Solid	11/14/13 08:44	11/16/13 09:00
60157822069	P-35 2-4	Solid	11/14/13 08:45	11/16/13 09:00
60157822070	P-36 0-2	Solid	11/14/13 10:03	11/16/13 09:00
60157822071	P-36 2-4	Solid	11/14/13 10:04	11/16/13 09:00
60157822072	DUP1	Solid	11/14/13 08:00	11/16/13 09:00
60157822073	DUP2	Solid	11/14/13 08:00	11/16/13 09:00
60157822074	DUP3	Solid	11/14/13 08:00	11/16/13 09:00

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: SANGAMON ST ROW 204997.0002

Pace Project No.: 60157822

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60157822075	DUP4	Solid	11/14/13 08:00	11/16/13 09:00

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: SANGAMON ST ROW 204997.0002

Pace Project No.: 60157822

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60157822001	P-1 0-2	EPA 6010	JGP	1
		EPA 6010	SMW	1
		ASTM D2974	DWC	1
60157822002	P-1 2-4	EPA 6010	JGP	1
		EPA 6010	SMW	1
		ASTM D2974	DWC	1
60157822003	P-2 0-2	EPA 6010	JGP	1
		EPA 6010	SMW	1
		ASTM D2974	DWC	1
60157822004	P-2 2-4	EPA 6010	JGP	1
		EPA 6010	SMW	1
		ASTM D2974	DWC	1
60157822005	P-3 0-2	EPA 6010	JGP	1
		EPA 6010	SMW	1
		ASTM D2974	DWC	1
60157822006	P-3 2-4	EPA 6010	JGP	1
		EPA 6010	SMW	1
		ASTM D2974	DWC	1
60157822007	P-4 0-2	EPA 6010	JGP	1
		EPA 6010	SMW	1
		ASTM D2974	DWC	1
60157822008	P-4 2-4	EPA 6010	JGP	1
		EPA 6010	SMW	1
		ASTM D2974	DWC	1
60157822009	P-5 0-2	EPA 6010	JGP	1
		EPA 6010	SMW	1
		ASTM D2974	DWC	1
60157822010	P-5 2-4	EPA 6010	JGP	1
		EPA 6010	SMW	1
		ASTM D2974	DWC	1
60157822011	P-6 0-2	EPA 6010	JGP	1
		EPA 6010	JGP	1
		ASTM D2974	DWC	1
60157822012	P-6 2-4	EPA 6010	JGP	1
		EPA 6010	JGP	1
		ASTM D2974	DWC	1
60157822013	P-7 0-2	EPA 6010	JGP	1

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: SANGAMON ST ROW 204997.0002

Pace Project No.: 60157822

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60157822014	P-7 2-4	EPA 6010	JGP	1
		ASTM D2974	DWC	1
		EPA 6010	JGP	1
		EPA 6010	JGP	1
60157822015	P-8 0-2	ASTM D2974	DWC	1
		EPA 6010	JGP	1
		EPA 6010	JGP	1
		ASTM D2974	DWC	1
60157822016	P-8 2-4	EPA 6010	JGP	1
		EPA 6010	JGP	1
		ASTM D2974	DWC	1
		EPA 6010	JGP	1
60157822017	P-9 0-2	ASTM D2974	DWC	1
		EPA 6010	JGP	1
		EPA 6010	JGP	1
		ASTM D2974	DWC	1
60157822018	P-9 2-4	EPA 6010	JGP	1
		EPA 6010	JGP	1
		ASTM D2974	DWC	1
		EPA 6010	JGP	1
60157822019	P-10 0-2	EPA 6010	JGP	1
		EPA 6010	JGP	1
		ASTM D2974	DWC	1
		EPA 6010	JGP	1
60157822020	P-10 2-4	EPA 6010	JGP	1
		EPA 6010	JGP	1
		ASTM D2974	DWC	1
		EPA 6010	SMW	1
60157822021	P-11 0-2	EPA 6010	JGP	1
		ASTM D2974	DWC	1
		EPA 6010	SMW	1
		EPA 6010	JGP	1
60157822022	P-11 2-4	ASTM D2974	DWC	1
		EPA 6010	SMW	1
		EPA 6010	JGP	1
		ASTM D2974	DWC	1
60157822023	P-12 0-2	EPA 6010	SMW	1
		EPA 6010	JGP	1
		ASTM D2974	DWC	1
		EPA 6010	SMW	1
60157822024	P-12 2-4	EPA 6010	JGP	1
		ASTM D2974	DWC	1
		EPA 6010	SMW	1
		EPA 6010	JGP	1
60157822025	P-13 0-2	ASTM D2974	DWC	1
		EPA 6010	SMW	1
		EPA 6010	JGP	1

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: SANGAMON ST ROW 204997.0002

Pace Project No.: 60157822

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60157822026	P-13 2-4	ASTM D2974	DWC	1
		EPA 6010	SMW	1
		EPA 6010	JGP	1
60157822027	P-14 0-2	ASTM D2974	DWC	1
		EPA 6010	SMW	1
		EPA 6010	JGP	1
60157822028	P-14 2-4	ASTM D2974	DWC	1
		EPA 6010	SMW	1
		EPA 6010	JGP	1
60157822029	P-15 0-2	ASTM D2974	DWC	1
		EPA 6010	SMW	1
		EPA 6010	JGP	1
60157822030	P-15 2-4	ASTM D2974	DWC	1
		EPA 6010	SMW	1
		EPA 6010	JGP	1
60157822031	P-16 0-2	ASTM D2974	DWC	1
		EPA 6010	SMW	1
		EPA 6010	TJG	1
60157822032	P-16 2-4	ASTM D2974	DWC	1
		EPA 6010	SMW	1
		EPA 6010	TJG	1
60157822033	P-17 0-2	ASTM D2974	DWC	1
		EPA 6010	SMW	1
		EPA 6010	TJG	1
60157822034	P-17 2-4	ASTM D2974	DWC	1
		EPA 6010	SMW	1
		EPA 6010	TJG	1
60157822035	P-18 0-2	ASTM D2974	DWC	1
		EPA 6010	SMW	1
		EPA 6010	TJG	1
60157822036	P-18 2-4	ASTM D2974	DWC	1
		EPA 6010	SMW	1
		EPA 6010	TJG	1
60157822037	P-19 0-2	ASTM D2974	DWC	1
		EPA 6010	SMW	1
		EPA 6010	TJG	1
		ASTM D2974	DWC	1

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SAMPLE ANALYTE COUNT

Project: SANGAMON ST ROW 204997.0002

Pace Project No.: 60157822

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60157822038	P-19 2-4	EPA 6010	SMW	1
		EPA 6010	TJG	1
		ASTM D2974	DWC	1
60157822039	P-20 0-2	EPA 6010	SMW	1
		EPA 6010	TJG	1
		ASTM D2974	DWC	1
60157822040	P-20 2-4	EPA 6010	SMW	1
		EPA 6010	TJG	1
		ASTM D2974	DWC	1
60157822041	P-21 0-2	EPA 6010	JGP	1
		EPA 6010	TJG	1
		ASTM D2974	DWC	1
60157822042	P-21 2-4	EPA 6010	JGP	1
		EPA 6010	TJG	1
		ASTM D2974	DWC	1
60157822043	P-22 0-2	EPA 6010	JGP	1
		EPA 6010	TJG	1
		ASTM D2974	DWC	1
60157822044	P-22 2-4	EPA 6010	JGP	1
		EPA 6010	TJG	1
		ASTM D2974	DWC	1
60157822045	P-23 0-2	EPA 6010	JGP	1
		EPA 6010	TJG	1
		ASTM D2974	DWC	1
60157822046	P-23 2-4	EPA 6010	JGP	1
		EPA 6010	TJG	1
		ASTM D2974	DWC	1
60157822047	P-24 0-2	EPA 6010	JGP	1
		EPA 6010	TJG	1
		ASTM D2974	DWC	1
60157822048	P-24 2-4	EPA 6010	JGP	1
		EPA 6010	TJG	1
		ASTM D2974	DWC	1
60157822049	P-25 0-2	EPA 6010	JGP	1
		EPA 6010	TJG	1
		ASTM D2974	DWC	1
60157822050	P-25 2-4	EPA 6010	JGP	1

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SAMPLE ANALYTE COUNT

Project: SANGAMON ST ROW 204997.0002

Pace Project No.: 60157822

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60157822051	P-26 0-2	EPA 6010	TJG	1
		ASTM D2974	DWC	1
		EPA 6010	JGP	1
60157822052	P-26 2-4	EPA 6010	TJG	1
		ASTM D2974	DWC	1
		EPA 6010	JGP	1
60157822053	P-27 0-2	EPA 6010	TJG	1
		ASTM D2974	DWC	1
		EPA 6010	JGP	1
60157822054	P-27 2-4	EPA 6010	TJG	1
		ASTM D2974	DWC	1
		EPA 6010	JGP	1
60157822055	P-28 0-4	EPA 6010	TJG	1
		ASTM D2974	DWC	1
		EPA 6010	JGP	1
60157822056	P-29 0-2	EPA 6010	TJG	1
		ASTM D2974	DWC	1
		EPA 6010	JGP	1
60157822057	P-29 2-4	EPA 6010	TJG	1
		ASTM D2974	DWC	1
		EPA 6010	JGP	1
60157822058	P-30 0-2	EPA 6010	TJG	1
		ASTM D2974	DWC	1
		EPA 6010	JGP	1
60157822059	P-30 2-4	EPA 6010	TJG	1
		ASTM D2974	DWC	1
		EPA 6010	JGP	1
60157822060	P-31 0-2	EPA 6010	TJG	1
		ASTM D2974	DWC	1
		EPA 6010	JGP	1
60157822061	P-31 2-4	EPA 6010	TJG	1
		ASTM D2974	DWC	1
		EPA 6010	JGP	1
60157822062	P-32 0-2	EPA 6010	TJG	1
		ASTM D2974	DWC	1
		EPA 6010	JGP	1

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SAMPLE ANALYTE COUNT

Project: SANGAMON ST ROW 204997.0002

Pace Project No.: 60157822

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60157822063	P-32 2-4	ASTM D2974	DWC	1
		EPA 6010	JGP	1
		EPA 6010	TJG	1
60157822064	P-33 0-2	ASTM D2974	DWC	1
		EPA 6010	JGP	1
		EPA 6010	TJG	1
60157822065	P-33 2-4	ASTM D2974	DWC	1
		EPA 6010	JGP	1
		EPA 6010	TJG	1
60157822066	P-34 0-2	ASTM D2974	DWC	1
		EPA 6010	JGP	1
		EPA 6010	TJG	1
60157822067	P-34 2-4	ASTM D2974	DWC	1
		EPA 6010	JGP	1
		EPA 6010	TJG	1
60157822068	P-35 0-2	ASTM D2974	DWC	1
		EPA 6010	JGP	1
		EPA 6010	TJG	1
60157822069	P-35 2-4	ASTM D2974	DWC	1
		EPA 6010	JGP	1
		EPA 6010	TJG	1
60157822070	P-36 0-2	ASTM D2974	DWC	1
		EPA 6010	JGP	1
		EPA 6010	TJG	1
60157822071	P-36 2-4	ASTM D2974	DWC	1
		EPA 6010	JGP	1
		EPA 6010	TJG	1
60157822072	DUP1	ASTM D2974	DWC	1
		EPA 6010	JGP	1
		EPA 6010	TJG	1
60157822073	DUP2	ASTM D2974	DWC	1
		EPA 6010	JGP	1
		EPA 6010	TJG	1
60157822074	DUP3	ASTM D2974	DWC	1
		EPA 6010	JGP	1
		EPA 6010	TJG	1
		ASTM D2974	DWC	1

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SAMPLE ANALYTE COUNT

Project: SANGAMON ST ROW 204997.0002

Pace Project No.: 60157822

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60157822075	DUP4	EPA 6010	JGP	1
		EPA 6010	TJG	1
		ASTM D2974	DWC	1

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ANALYTICAL RESULTS

Project: SANGAMON ST ROW 204997.0002

Pace Project No.: 60157822

Sample: P-1 0-2 **Lab ID: 60157822001** Collected: 11/14/13 14:00 Received: 11/16/13 09:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Red. Interference									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Lead	1540	mg/kg	5.6		5	11/21/13 13:00	11/23/13 11:40	7439-92-1	M1
6010 MET ICP, TCLP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Leachate Method/Date: EPA 1311; 11/19/13 00:00									
Lead	0.53	mg/L	0.50		5	11/19/13 15:30	11/20/13 19:36	7439-92-1	
Percent Moisture									
Analytical Method: ASTM D2974									
Percent Moisture	20.9	%	0.50		1		11/21/13 00:00		

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ANALYTICAL RESULTS

Project: SANGAMON ST ROW 204997.0002

Pace Project No.: 60157822

Sample: P-1 2-4 **Lab ID: 60157822002** Collected: 11/14/13 14:02 Received: 11/16/13 09:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Red. Interference									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Lead	191	mg/kg	5.9		5	11/21/13 13:00	11/23/13 11:50	7439-92-1	
6010 MET ICP, TCLP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Leachate Method/Date: EPA 1311; 11/19/13 00:00									
Lead	ND	mg/L	0.50	5	1	11/19/13 15:30	11/20/13 19:43	7439-92-1	
Percent Moisture									
Analytical Method: ASTM D2974									
Percent Moisture	25.0	%	0.50		1		11/21/13 00:00		

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ANALYTICAL RESULTS

Project: SANGAMON ST ROW 204997.0002

Pace Project No.: 60157822

Sample: P-2 0-2 **Lab ID: 60157822003** Collected: 11/14/13 14:05 Received: 11/16/13 09:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Red. Interference									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Lead	707	mg/kg	6.1		5	11/21/13 13:00	11/23/13 11:59	7439-92-1	
6010 MET ICP, TCLP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Leachate Method/Date: EPA 1311; 11/19/13 00:00									
Lead	ND	mg/L	0.50	5	1	11/19/13 15:30	11/20/13 19:45	7439-92-1	
Percent Moisture									
Analytical Method: ASTM D2974									
Percent Moisture	17.4	%	0.50		1		11/21/13 00:00		

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ANALYTICAL RESULTS

Project: SANGAMON ST ROW 204997.0002

Pace Project No.: 60157822

Sample: P-2 2-4 **Lab ID: 60157822004** Collected: 11/14/13 14:06 Received: 11/16/13 09:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Red. Interference									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Lead	90.5	mg/kg	6.7		5	11/21/13 13:00	11/23/13 12:03	7439-92-1	
6010 MET ICP, TCLP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Leachate Method/Date: EPA 1311; 11/19/13 00:00									
Lead	ND	mg/L	0.50	5	1	11/19/13 15:30	11/20/13 19:47	7439-92-1	
Percent Moisture									
Analytical Method: ASTM D2974									
Percent Moisture	25.7	%	0.50		1		11/21/13 00:00		

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ANALYTICAL RESULTS

Project: SANGAMON ST ROW 204997.0002

Pace Project No.: 60157822

Sample: P-3 0-2 **Lab ID: 60157822005** Collected: 11/14/13 13:55 Received: 11/16/13 09:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Red. Interference									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Lead	820	mg/kg	4.4		5	11/21/13 13:00	11/23/13 12:06	7439-92-1	
6010 MET ICP, TCLP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Leachate Method/Date: EPA 1311; 11/19/13 00:00									
Lead	0.62	mg/L	0.50	5	1	11/19/13 15:30	11/20/13 19:49	7439-92-1	
Percent Moisture									
Analytical Method: ASTM D2974									
Percent Moisture	14.6	%	0.50		1		11/21/13 00:00		

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ANALYTICAL RESULTS

Project: SANGAMON ST ROW 204997.0002

Pace Project No.: 60157822

Sample: P-3 2-4 **Lab ID: 60157822006** Collected: 11/14/13 13:56 Received: 11/16/13 09:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Red. Interference									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Lead	1200	mg/kg	5.9		5	11/21/13 13:00	11/23/13 12:09	7439-92-1	
6010 MET ICP, TCLP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Leachate Method/Date: EPA 1311; 11/19/13 00:00									
Lead	0.60	mg/L	0.50		5	11/19/13 15:30	11/20/13 19:52	7439-92-1	
Percent Moisture									
Analytical Method: ASTM D2974									
Percent Moisture	15.2	%	0.50		1		11/21/13 00:00		

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ANALYTICAL RESULTS

Project: SANGAMON ST ROW 204997.0002

Pace Project No.: 60157822

Sample: P-4 0-2 **Lab ID: 60157822007** Collected: 11/14/13 13:50 Received: 11/16/13 09:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Red. Interference									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Lead	1350	mg/kg	5.1		5	11/21/13 13:00	11/23/13 12:12	7439-92-1	
6010 MET ICP, TCLP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Leachate Method/Date: EPA 1311; 11/19/13 00:00									
Lead	1.3	mg/L	0.50	5	1	11/19/13 15:30	11/20/13 19:59	7439-92-1	
Percent Moisture									
Analytical Method: ASTM D2974									
Percent Moisture	22.7	%	0.50		1		11/21/13 00:00		

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ANALYTICAL RESULTS

Project: SANGAMON ST ROW 204997.0002

Pace Project No.: 60157822

Sample: P-4 2-4 **Lab ID: 60157822008** Collected: 11/14/13 13:51 Received: 11/16/13 09:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Red. Interference									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Lead	749	mg/kg	4.7		5	11/21/13 13:00	11/23/13 12:15	7439-92-1	
6010 MET ICP, TCLP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Leachate Method/Date: EPA 1311; 11/19/13 00:00									
Lead	ND	mg/L	0.50	5	1	11/19/13 15:30	11/20/13 20:01	7439-92-1	
Percent Moisture									
Analytical Method: ASTM D2974									
Percent Moisture	18.2	%	0.50		1		11/21/13 00:00		

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ANALYTICAL RESULTS

Project: SANGAMON ST ROW 204997.0002

Pace Project No.: 60157822

Sample: P-5 0-2 **Lab ID: 60157822009** Collected: 11/14/13 13:36 Received: 11/16/13 09:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Red. Interference									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Lead	5010	mg/kg	6.1		5	11/21/13 13:00	11/23/13 12:19	7439-92-1	
6010 MET ICP, TCLP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Leachate Method/Date: EPA 1311; 11/19/13 00:00									
Lead	8.0	mg/L	0.50	5	1	11/19/13 15:30	11/20/13 20:03	7439-92-1	
Percent Moisture									
Analytical Method: ASTM D2974									
Percent Moisture	19.8	%	0.50		1		11/21/13 00:00		

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ANALYTICAL RESULTS

Project: SANGAMON ST ROW 204997.0002

Pace Project No.: 60157822

Sample: P-5 2-4 **Lab ID: 60157822010** Collected: 11/14/13 13:37 Received: 11/16/13 09:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Red. Interference									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Lead	572	mg/kg	6.6		5	11/21/13 13:00	11/23/13 12:22	7439-92-1	
6010 MET ICP, TCLP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Leachate Method/Date: EPA 1311; 11/19/13 00:00									
Lead	ND	mg/L	0.50	5	1	11/19/13 15:30	11/20/13 20:06	7439-92-1	
Percent Moisture									
Analytical Method: ASTM D2974									
Percent Moisture	37.1	%	0.50		1		11/21/13 00:00		

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ANALYTICAL RESULTS

Project: SANGAMON ST ROW 204997.0002

Pace Project No.: 60157822

Sample: P-6 0-2 **Lab ID: 60157822011** Collected: 11/14/13 13:18 Received: 11/16/13 09:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Red. Interference									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Lead	120	mg/kg	5.3		5	11/21/13 13:00	11/23/13 12:25	7439-92-1	
6010 MET ICP, TCLP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Leachate Method/Date: EPA 1311; 11/20/13 00:00									
Lead	1.9	mg/L	0.50		5	11/20/13 16:30	11/23/13 10:10	7439-92-1	
Percent Moisture									
Analytical Method: ASTM D2974									
Percent Moisture	17.2	%	0.50		1		11/21/13 00:00		

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ANALYTICAL RESULTS

Project: SANGAMON ST ROW 204997.0002

Pace Project No.: 60157822

Sample: P-6 2-4 **Lab ID: 60157822012** Collected: 11/14/13 13:19 Received: 11/16/13 09:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Red. Interference									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Lead	4960	mg/kg	6.0		5	11/21/13 13:00	11/23/13 12:28	7439-92-1	
6010 MET ICP, TCLP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Leachate Method/Date: EPA 1311; 11/20/13 00:00									
Lead	ND	mg/L	0.50	5	1	11/20/13 16:30	11/23/13 10:13	7439-92-1	
Percent Moisture									
Analytical Method: ASTM D2974									
Percent Moisture	28.5	%	0.50		1		11/21/13 00:00		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: SANGAMON ST ROW 204997.0002

Pace Project No.: 60157822

Sample: P-7 0-2 **Lab ID: 60157822013** Collected: 11/14/13 13:30 Received: 11/16/13 09:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Red. Interference									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Lead	2620	mg/kg	5.6		5	11/21/13 13:00	11/23/13 12:38	7439-92-1	
6010 MET ICP, TCLP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Leachate Method/Date: EPA 1311; 11/20/13 00:00									
Lead	4.4	mg/L	0.50		5	11/20/13 16:30	11/23/13 10:17	7439-92-1	
Percent Moisture									
Analytical Method: ASTM D2974									
Percent Moisture	19.4	%	0.50		1		11/21/13 00:00		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: SANGAMON ST ROW 204997.0002

Pace Project No.: 60157822

Sample: P-7 2-4 **Lab ID: 60157822014** Collected: 11/14/13 13:31 Received: 11/16/13 09:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Red. Interference									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Lead	353	mg/kg	5.3		5	11/21/13 13:00	11/23/13 12:41	7439-92-1	
6010 MET ICP, TCLP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Leachate Method/Date: EPA 1311; 11/20/13 00:00									
Lead	ND	mg/L	0.50	5	1	11/20/13 16:30	11/23/13 10:20	7439-92-1	
Percent Moisture									
Analytical Method: ASTM D2974									
Percent Moisture	19.6	%	0.50		1		11/21/13 00:00		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: SANGAMON ST ROW 204997.0002

Pace Project No.: 60157822

Sample: P-8 0-2 **Lab ID: 60157822015** Collected: 11/14/13 13:15 Received: 11/16/13 09:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Red. Interference									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Lead	981	mg/kg	5.3		5	11/21/13 13:00	11/23/13 12:44	7439-92-1	
6010 MET ICP, TCLP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Leachate Method/Date: EPA 1311; 11/20/13 00:00									
Lead	1.6	mg/L	0.50		5	11/20/13 16:30	11/23/13 10:23	7439-92-1	
Percent Moisture									
Analytical Method: ASTM D2974									
Percent Moisture	12.4	%	0.50		1		11/21/13 00:00		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: SANGAMON ST ROW 204997.0002

Pace Project No.: 60157822

Sample: P-8 2-4 **Lab ID: 60157822016** Collected: 11/14/13 13:16 Received: 11/16/13 09:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Red. Interference									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Lead	144	mg/kg	4.8		5	11/21/13 13:00	11/23/13 12:48	7439-92-1	
6010 MET ICP, TCLP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Leachate Method/Date: EPA 1311; 11/20/13 00:00									
Lead	ND	mg/L	0.50	5	1	11/20/13 16:30	11/23/13 10:26	7439-92-1	
Percent Moisture									
Analytical Method: ASTM D2974									
Percent Moisture	16.8	%	0.50		1		11/21/13 00:00		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: SANGAMON ST ROW 204997.0002

Pace Project No.: 60157822

Sample: P-9 0-2 **Lab ID: 60157822017** Collected: 11/14/13 13:00 Received: 11/16/13 09:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Red. Interference									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Lead	2460	mg/kg	5.2		5	11/21/13 13:00	11/23/13 12:51	7439-92-1	
6010 MET ICP, TCLP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Leachate Method/Date: EPA 1311; 11/20/13 00:00									
Lead	1.1	mg/L	0.50		5	11/20/13 16:30	11/23/13 10:30	7439-92-1	
Percent Moisture									
Analytical Method: ASTM D2974									
Percent Moisture	21.0	%	0.50		1		11/21/13 00:00		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: SANGAMON ST ROW 204997.0002

Pace Project No.: 60157822

Sample: P-9 2-4 **Lab ID: 60157822018** Collected: 11/14/13 13:01 Received: 11/16/13 09:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Red. Interference									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Lead	1040	mg/kg	4.9		5	11/21/13 13:00	11/23/13 12:54	7439-92-1	
6010 MET ICP, TCLP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Leachate Method/Date: EPA 1311; 11/20/13 00:00									
Lead	0.74	mg/L	0.50		5	11/20/13 16:30	11/23/13 10:33	7439-92-1	
Percent Moisture									
Analytical Method: ASTM D2974									
Percent Moisture	18.4	%	0.50		1		11/21/13 00:00		

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ANALYTICAL RESULTS

Project: SANGAMON ST ROW 204997.0002

Pace Project No.: 60157822

Sample: P-10 0-2 **Lab ID: 60157822019** Collected: 11/14/13 13:41 Received: 11/16/13 09:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Red. Interference									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Lead	1320	mg/kg	5.8		5	11/21/13 13:00	11/23/13 12:57	7439-92-1	
6010 MET ICP, TCLP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Leachate Method/Date: EPA 1311; 11/20/13 00:00									
Lead	0.64	mg/L	0.50		5	11/20/13 16:30	11/23/13 10:42	7439-92-1	
Percent Moisture									
Analytical Method: ASTM D2974									
Percent Moisture	16.8	%	0.50		1		11/21/13 00:00		

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ANALYTICAL RESULTS

Project: SANGAMON ST ROW 204997.0002

Pace Project No.: 60157822

Sample: P-10 2-4 **Lab ID: 60157822020** Collected: 11/14/13 13:42 Received: 11/16/13 09:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Red. Interference									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Lead	275	mg/kg	4.8		5	11/21/13 13:00	11/23/13 13:00	7439-92-1	
6010 MET ICP, TCLP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Leachate Method/Date: EPA 1311; 11/20/13 00:00									
Lead	ND	mg/L	0.50	5	1	11/20/13 16:30	11/23/13 10:46	7439-92-1	
Percent Moisture									
Analytical Method: ASTM D2974									
Percent Moisture	18.7	%	0.50		1		11/21/13 00:00		

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ANALYTICAL RESULTS

Project: SANGAMON ST ROW 204997.0002

Pace Project No.: 60157822

Sample: P-11 0-2 **Lab ID: 60157822021** Collected: 11/14/13 13:09 Received: 11/16/13 09:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Red. Interference									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Lead	661	mg/kg	1.1		1	11/21/13 13:00	12/02/13 13:47	7439-92-1	M1
6010 MET ICP, TCLP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Leachate Method/Date: EPA 1311; 11/20/13 00:00									
Lead	ND	mg/L	0.50	5	1	11/20/13 16:30	11/23/13 10:49	7439-92-1	
Percent Moisture									
Analytical Method: ASTM D2974									
Percent Moisture	15.7	%	0.50		1		11/21/13 00:00		

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ANALYTICAL RESULTS

Project: SANGAMON ST ROW 204997.0002

Pace Project No.: 60157822

Sample: P-11 2-4 **Lab ID: 60157822022** Collected: 11/14/13 13:08 Received: 11/16/13 09:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Red. Interference									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Lead	115	mg/kg	1.2		1	11/21/13 13:00	12/02/13 13:57	7439-92-1	
6010 MET ICP, TCLP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Leachate Method/Date: EPA 1311; 11/20/13 00:00									
Lead	ND	mg/L	0.50	5	1	11/20/13 16:30	11/23/13 10:52	7439-92-1	
Percent Moisture									
Analytical Method: ASTM D2974									
Percent Moisture	21.5	%	0.50		1		11/21/13 00:00		

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ANALYTICAL RESULTS

Project: SANGAMON ST ROW 204997.0002

Pace Project No.: 60157822

Sample: P-12 0-2 **Lab ID: 60157822023** Collected: 11/14/13 12:53 Received: 11/16/13 09:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Red. Interference									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Lead	1280	mg/kg	0.81		1	11/21/13 13:00	12/02/13 14:00	7439-92-1	
6010 MET ICP, TCLP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Leachate Method/Date: EPA 1311; 11/20/13 00:00									
Lead	0.51	mg/L	0.50	5	1	11/20/13 16:30	11/23/13 10:55	7439-92-1	
Percent Moisture									
Analytical Method: ASTM D2974									
Percent Moisture	14.1	%	0.50		1		11/21/13 00:00		

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ANALYTICAL RESULTS

Project: SANGAMON ST ROW 204997.0002

Pace Project No.: 60157822

Sample: P-12 2-4 **Lab ID: 60157822024** Collected: 11/14/13 12:54 Received: 11/16/13 09:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Red. Interference									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Lead	216	mg/kg	5.6		5	11/21/13 13:00	12/02/13 15:16	7439-92-1	
6010 MET ICP, TCLP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Leachate Method/Date: EPA 1311; 11/20/13 00:00									
Lead	ND	mg/L	0.50		5	11/20/13 16:30	11/23/13 10:59	7439-92-1	
Percent Moisture									
Analytical Method: ASTM D2974									
Percent Moisture	17.0	%	0.50		1		11/21/13 00:00		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: SANGAMON ST ROW 204997.0002

Pace Project No.: 60157822

Sample: P-13 0-2 **Lab ID: 60157822025** Collected: 11/14/13 12:45 Received: 11/16/13 09:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Red. Interference									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Lead	343	mg/kg	0.82		1	11/21/13 13:00	12/02/13 14:07	7439-92-1	
6010 MET ICP, TCLP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Leachate Method/Date: EPA 1311; 11/20/13 00:00									
Lead	1.8	mg/L	0.50	5	1	11/20/13 16:30	11/23/13 11:02	7439-92-1	
Percent Moisture									
Analytical Method: ASTM D2974									
Percent Moisture	14.4	%	0.50		1		11/21/13 00:00		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: SANGAMON ST ROW 204997.0002

Pace Project No.: 60157822

Sample: P-13 2-4 **Lab ID: 60157822026** Collected: 11/14/13 12:46 Received: 11/16/13 09:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Red. Interference									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Lead	86.9	mg/kg	0.86		1	11/21/13 13:00	12/02/13 14:10	7439-92-1	
6010 MET ICP, TCLP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Leachate Method/Date: EPA 1311; 11/20/13 00:00									
Lead	ND	mg/L	0.50	5	1	11/20/13 16:30	11/23/13 11:05	7439-92-1	
Percent Moisture									
Analytical Method: ASTM D2974									
Percent Moisture	15.6	%	0.50		1		11/21/13 00:00		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: SANGAMON ST ROW 204997.0002

Pace Project No.: 60157822

Sample: P-14 0-2 **Lab ID: 60157822027** Collected: 11/14/13 12:35 Received: 11/16/13 09:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Red. Interference									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Lead	1100	mg/kg	1.1		1	11/21/13 13:00	12/02/13 14:21	7439-92-1	
6010 MET ICP, TCLP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Leachate Method/Date: EPA 1311; 11/20/13 00:00									
Lead	ND	mg/L	0.50	5	1	11/20/13 16:30	11/23/13 11:21	7439-92-1	
Percent Moisture									
Analytical Method: ASTM D2974									
Percent Moisture	18.3	%	0.50		1		11/21/13 00:00		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: SANGAMON ST ROW 204997.0002

Pace Project No.: 60157822

Sample: P-14 2-4 **Lab ID: 60157822028** Collected: 11/14/13 12:36 Received: 11/16/13 09:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Red. Interference									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Lead	309	mg/kg	1.1		1	11/21/13 13:00	12/02/13 14:24	7439-92-1	
6010 MET ICP, TCLP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Leachate Method/Date: EPA 1311; 11/20/13 00:00									
Lead	ND	mg/L	0.50	5	1	11/20/13 16:30	11/23/13 11:24	7439-92-1	
Percent Moisture									
Analytical Method: ASTM D2974									
Percent Moisture	26.1	%	0.50		1		11/21/13 00:00		

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ANALYTICAL RESULTS

Project: SANGAMON ST ROW 204997.0002

Pace Project No.: 60157822

Sample: P-15 0-2 **Lab ID: 60157822029** Collected: 11/14/13 12:30 Received: 11/16/13 09:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Red. Interference									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Lead	834	mg/kg	0.92		1	11/21/13 13:00	12/02/13 14:27	7439-92-1	
6010 MET ICP, TCLP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Leachate Method/Date: EPA 1311; 11/20/13 00:00									
Lead	0.53	mg/L	0.50	5	1	11/20/13 16:30	11/23/13 11:27	7439-92-1	
Percent Moisture									
Analytical Method: ASTM D2974									
Percent Moisture	13.8	%	0.50		1		11/21/13 00:00		

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ANALYTICAL RESULTS

Project: SANGAMON ST ROW 204997.0002

Pace Project No.: 60157822

Sample: P-15 2-4 **Lab ID: 60157822030** Collected: 11/14/13 12:31 Received: 11/16/13 09:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Red. Interference									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Lead	288	mg/kg	1.1		1	11/21/13 13:00	12/02/13 14:31	7439-92-1	
6010 MET ICP, TCLP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Leachate Method/Date: EPA 1311; 11/20/13 00:00									
Lead	ND	mg/L	0.50	5	1	11/20/13 16:30	11/23/13 11:31	7439-92-1	
Percent Moisture									
Analytical Method: ASTM D2974									
Percent Moisture	19.3	%	0.50		1		11/21/13 00:00		

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ANALYTICAL RESULTS

Project: SANGAMON ST ROW 204997.0002

Pace Project No.: 60157822

Sample: P-16 0-2 **Lab ID: 60157822031** Collected: 11/14/13 12:23 Received: 11/16/13 09:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Red. Interference									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Lead	2210	mg/kg	4.6		5	11/21/13 13:00	12/02/13 14:34	7439-92-1	
6010 MET ICP, TCLP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Leachate Method/Date: EPA 1311; 11/23/13 00:00									
Lead	1.7	mg/L	0.50	5	1	11/25/13 13:00	11/29/13 12:43	7439-92-1	
Percent Moisture									
Analytical Method: ASTM D2974									
Percent Moisture	11.8	%	0.50		1		11/21/13 00:00		

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ANALYTICAL RESULTS

Project: SANGAMON ST ROW 204997.0002

Pace Project No.: 60157822

Sample: P-16 2-4 **Lab ID: 60157822032** Collected: 11/14/13 12:24 Received: 11/16/13 09:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Red. Interference									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Lead	107	mg/kg	4.9		5	11/21/13 13:00	12/02/13 14:38	7439-92-1	
6010 MET ICP, TCLP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Leachate Method/Date: EPA 1311; 11/23/13 00:00									
Lead	ND	mg/L	0.50	5	1	11/25/13 13:00	11/29/13 12:45	7439-92-1	
Percent Moisture									
Analytical Method: ASTM D2974									
Percent Moisture	16.6	%	0.50		1		11/21/13 00:00		

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ANALYTICAL RESULTS

Project: SANGAMON ST ROW 204997.0002

Pace Project No.: 60157822

Sample: P-17 0-2 **Lab ID: 60157822033** Collected: 11/14/13 11:15 Received: 11/16/13 09:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Red. Interference									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Lead	1370	mg/kg	0.90		1	11/21/13 13:00	12/02/13 14:41	7439-92-1	
6010 MET ICP, TCLP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Leachate Method/Date: EPA 1311; 11/23/13 00:00									
Lead	ND	mg/L	0.50	5	1	11/25/13 13:00	11/29/13 12:48	7439-92-1	
Percent Moisture									
Analytical Method: ASTM D2974									
Percent Moisture	13.3	%	0.50		1		11/22/13 00:00		

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ANALYTICAL RESULTS

Project: SANGAMON ST ROW 204997.0002

Pace Project No.: 60157822

Sample: P-17 2-4 **Lab ID: 60157822034** Collected: 11/14/13 11:16 Received: 11/16/13 09:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Red. Interference									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Lead	143	mg/kg	1.1		1	11/21/13 13:00	12/02/13 14:44	7439-92-1	
6010 MET ICP, TCLP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Leachate Method/Date: EPA 1311; 11/23/13 00:00									
Lead	ND	mg/L	0.50	5	1	11/25/13 13:00	11/29/13 12:50	7439-92-1	
Percent Moisture									
Analytical Method: ASTM D2974									
Percent Moisture	19.8	%	0.50		1		11/22/13 00:00		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: SANGAMON ST ROW 204997.0002

Pace Project No.: 60157822

Sample: P-18 0-2 **Lab ID: 60157822035** Collected: 11/14/13 11:25 Received: 11/16/13 09:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Red. Interference									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Lead	417	mg/kg	0.96		1	11/21/13 13:00	12/02/13 14:48	7439-92-1	
6010 MET ICP, TCLP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Leachate Method/Date: EPA 1311; 11/23/13 00:00									
Lead	ND	mg/L	0.50	5	1	11/25/13 13:00	11/29/13 12:52	7439-92-1	
Percent Moisture									
Analytical Method: ASTM D2974									
Percent Moisture	13.5	%	0.50		1		11/22/13 00:00		

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ANALYTICAL RESULTS

Project: SANGAMON ST ROW 204997.0002

Pace Project No.: 60157822

Sample: P-18 2-4 **Lab ID: 60157822036** Collected: 11/14/13 11:26 Received: 11/16/13 09:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Red. Interference									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Lead	201	mg/kg	1.1		1	11/21/13 13:00	12/02/13 14:52	7439-92-1	
6010 MET ICP, TCLP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Leachate Method/Date: EPA 1311; 11/23/13 00:00									
Lead	ND	mg/L	0.50	5	1	11/25/13 13:00	11/29/13 12:54	7439-92-1	
Percent Moisture									
Analytical Method: ASTM D2974									
Percent Moisture	17.3	%	0.50		1		11/22/13 00:00		

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ANALYTICAL RESULTS

Project: SANGAMON ST ROW 204997.0002

Pace Project No.: 60157822

Sample: P-19 0-2 **Lab ID: 60157822037** Collected: 11/14/13 11:07 Received: 11/16/13 09:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Red. Interference									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Lead	3180	mg/kg	0.94		1	11/21/13 13:00	12/02/13 15:02	7439-92-1	
6010 MET ICP, TCLP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Leachate Method/Date: EPA 1311; 11/23/13 00:00									
Lead	13.6	mg/L	0.50	5	1	11/25/13 13:00	11/29/13 12:57	7439-92-1	
Percent Moisture									
Analytical Method: ASTM D2974									
Percent Moisture	12.5	%	0.50		1		11/22/13 00:00		

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ANALYTICAL RESULTS

Project: SANGAMON ST ROW 204997.0002

Pace Project No.: 60157822

Sample: P-19 2-4 **Lab ID: 60157822038** Collected: 11/14/13 11:08 Received: 11/16/13 09:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Red. Interference									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Lead	168	mg/kg	1.1		1	11/21/13 13:00	12/02/13 15:06	7439-92-1	
6010 MET ICP, TCLP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Leachate Method/Date: EPA 1311; 11/23/13 00:00									
Lead	ND	mg/L	0.50	5	1	11/25/13 13:00	11/29/13 12:59	7439-92-1	
Percent Moisture									
Analytical Method: ASTM D2974									
Percent Moisture	18.6	%	0.50		1		11/22/13 00:00		

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ANALYTICAL RESULTS

Project: SANGAMON ST ROW 204997.0002

Pace Project No.: 60157822

Sample: P-20 0-2 **Lab ID: 60157822039** Collected: 11/14/13 11:30 Received: 11/16/13 09:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Red. Interference									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Lead	163	mg/kg	0.86		1	11/21/13 13:00	12/02/13 15:09	7439-92-1	
6010 MET ICP, TCLP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Leachate Method/Date: EPA 1311; 11/23/13 00:00									
Lead	ND	mg/L	0.50	5	1	11/25/13 13:00	11/29/13 13:06	7439-92-1	
Percent Moisture									
Analytical Method: ASTM D2974									
Percent Moisture	11.7	%	0.50		1		11/22/13 00:00		

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ANALYTICAL RESULTS

Project: SANGAMON ST ROW 204997.0002

Pace Project No.: 60157822

Sample: P-20 2-4 **Lab ID: 60157822040** Collected: 11/14/13 11:31 Received: 11/16/13 09:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Red. Interference									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Lead	214	mg/kg	0.95		1	11/21/13 13:00	12/02/13 15:13	7439-92-1	
6010 MET ICP, TCLP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Leachate Method/Date: EPA 1311; 11/23/13 00:00									
Lead	ND	mg/L	0.50	5	1	11/25/13 13:00	11/29/13 13:08	7439-92-1	
Percent Moisture									
Analytical Method: ASTM D2974									
Percent Moisture	17.4	%	0.50		1		11/22/13 00:00		

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ANALYTICAL RESULTS

Project: SANGAMON ST ROW 204997.0002

Pace Project No.: 60157822

Sample: P-21 0-2 **Lab ID: 60157822041** Collected: 11/14/13 11:38 Received: 11/16/13 09:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Red. Interference									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Lead	24.5	mg/kg	5.1		5	11/21/13 13:00	11/23/13 14:47	7439-92-1	
6010 MET ICP, TCLP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Leachate Method/Date: EPA 1311; 11/23/13 00:00									
Lead	ND	mg/L	0.50	5	1	11/25/13 13:00	11/29/13 13:10	7439-92-1	
Percent Moisture									
Analytical Method: ASTM D2974									
Percent Moisture	11.2	%	0.50		1		11/22/13 00:00		

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ANALYTICAL RESULTS

Project: SANGAMON ST ROW 204997.0002

Pace Project No.: 60157822

Sample: P-21 2-4 **Lab ID: 60157822042** Collected: 11/14/13 11:39 Received: 11/16/13 09:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Red. Interference									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Lead	72.2	mg/kg	4.1		5	11/21/13 13:00	11/23/13 14:56	7439-92-1	
6010 MET ICP, TCLP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Leachate Method/Date: EPA 1311; 11/23/13 00:00									
Lead	ND	mg/L	0.50	5	1	11/25/13 13:00	11/29/13 13:12	7439-92-1	
Percent Moisture									
Analytical Method: ASTM D2974									
Percent Moisture	15.5	%	0.50		1		11/22/13 00:00		

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ANALYTICAL RESULTS

Project: SANGAMON ST ROW 204997.0002

Pace Project No.: 60157822

Sample: P-22 0-2 **Lab ID: 60157822043** Collected: 11/14/13 09:50 Received: 11/16/13 09:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Red. Interference									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Lead	1610	mg/kg	5.2		5	11/21/13 13:00	11/23/13 14:59	7439-92-1	
6010 MET ICP, TCLP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Leachate Method/Date: EPA 1311; 11/23/13 00:00									
Lead	0.77	mg/L	0.50		5	11/25/13 13:00	11/29/13 13:15	7439-92-1	
Percent Moisture									
Analytical Method: ASTM D2974									
Percent Moisture	12.7	%	0.50		1		11/22/13 00:00		

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ANALYTICAL RESULTS

Project: SANGAMON ST ROW 204997.0002

Pace Project No.: 60157822

Sample: P-22 2-4 **Lab ID: 60157822044** Collected: 11/14/13 09:51 Received: 11/16/13 09:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Red. Interference									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Lead	1400	mg/kg	4.1		5	11/21/13 13:00	11/23/13 15:02	7439-92-1	
6010 MET ICP, TCLP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Leachate Method/Date: EPA 1311; 11/23/13 00:00									
Lead	1.3	mg/L	0.50	5	1	11/25/13 13:00	11/29/13 13:21	7439-92-1	
Percent Moisture									
Analytical Method: ASTM D2974									
Percent Moisture	16.2	%	0.50		1		11/22/13 00:00		

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ANALYTICAL RESULTS

Project: SANGAMON ST ROW 204997.0002

Pace Project No.: 60157822

Sample: P-23 0-2 **Lab ID: 60157822045** Collected: 11/14/13 09:42 Received: 11/16/13 09:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Red. Interference									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Lead	1520	mg/kg	4.1		5	11/21/13 13:00	11/23/13 15:12	7439-92-1	
6010 MET ICP, TCLP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Leachate Method/Date: EPA 1311; 11/23/13 00:00									
Lead	6.0	mg/L	0.50	5	1	11/25/13 13:00	11/29/13 13:23	7439-92-1	
Percent Moisture									
Analytical Method: ASTM D2974									
Percent Moisture	12.1	%	0.50		1		11/22/13 00:00		

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ANALYTICAL RESULTS

Project: SANGAMON ST ROW 204997.0002

Pace Project No.: 60157822

Sample: P-23 2-4 **Lab ID: 60157822046** Collected: 11/14/13 09:43 Received: 11/16/13 09:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Red. Interference									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Lead	774	mg/kg	6.1		5	11/21/13 13:00	11/23/13 15:15	7439-92-1	
6010 MET ICP, TCLP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Leachate Method/Date: EPA 1311; 11/23/13 00:00									
Lead	1.6	mg/L	0.50	5	1	11/25/13 13:00	11/29/13 13:26	7439-92-1	
Percent Moisture									
Analytical Method: ASTM D2974									
Percent Moisture	20.2	%	0.50		1		11/22/13 00:00		

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ANALYTICAL RESULTS

Project: SANGAMON ST ROW 204997.0002

Pace Project No.: 60157822

Sample: P-24 0-2 **Lab ID: 60157822047** Collected: 11/14/13 11:50 Received: 11/16/13 09:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Red. Interference									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Lead	1320	mg/kg	5.3		5	11/21/13 13:00	11/23/13 15:19	7439-92-1	
6010 MET ICP, TCLP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Leachate Method/Date: EPA 1311; 11/25/13 00:00									
Lead	1.3	mg/L	0.50		5	11/25/13 13:00	11/29/13 11:16	7439-92-1	
Percent Moisture									
Analytical Method: ASTM D2974									
Percent Moisture	7.0	%	0.50		1		11/22/13 00:00		

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ANALYTICAL RESULTS

Project: SANGAMON ST ROW 204997.0002

Pace Project No.: 60157822

Sample: P-24 2-4 **Lab ID: 60157822048** Collected: 11/14/13 11:51 Received: 11/16/13 09:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Red. Interference									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Lead	242	mg/kg	5.1		5	11/21/13 13:00	11/23/13 15:22	7439-92-1	
6010 MET ICP, TCLP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Leachate Method/Date: EPA 1311; 11/25/13 00:00									
Lead	0.82	mg/L	0.50		5	11/25/13 13:00	11/29/13 11:27	7439-92-1	
Percent Moisture									
Analytical Method: ASTM D2974									
Percent Moisture	7.3	%	0.50		1		11/22/13 00:00		

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ANALYTICAL RESULTS

Project: SANGAMON ST ROW 204997.0002

Pace Project No.: 60157822

Sample: P-25 0-2 **Lab ID: 60157822049** Collected: 11/14/13 09:24 Received: 11/16/13 09:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Red. Interference									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Lead	607	mg/kg	6.1		5	11/21/13 13:00	11/23/13 15:25	7439-92-1	
6010 MET ICP, TCLP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Leachate Method/Date: EPA 1311; 11/25/13 00:00									
Lead	0.79	mg/L	0.50	5	1	11/25/13 13:00	11/29/13 11:30	7439-92-1	
Percent Moisture									
Analytical Method: ASTM D2974									
Percent Moisture	25.8	%	0.50		1		11/22/13 00:00		

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ANALYTICAL RESULTS

Project: SANGAMON ST ROW 204997.0002

Pace Project No.: 60157822

Sample: P-25 2-4 **Lab ID: 60157822050** Collected: 11/14/13 09:25 Received: 11/16/13 09:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Red. Interference									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Lead	18.4	mg/kg	6.5		5	11/21/13 13:00	11/23/13 15:28	7439-92-1	
6010 MET ICP, TCLP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Leachate Method/Date: EPA 1311; 11/25/13 00:00									
Lead	ND	mg/L	0.50		5	11/25/13 13:00	11/29/13 11:34	7439-92-1	
Percent Moisture									
Analytical Method: ASTM D2974									
Percent Moisture	27.2	%	0.50		1		11/22/13 00:00		

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ANALYTICAL RESULTS

Project: SANGAMON ST ROW 204997.0002

Pace Project No.: 60157822

Sample: P-26 0-2 **Lab ID: 60157822051** Collected: 11/14/13 11:42 Received: 11/16/13 09:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Red. Interference									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Lead	4950	mg/kg	4.7		5	11/21/13 13:00	11/23/13 15:38	7439-92-1	1e
6010 MET ICP, TCLP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Leachate Method/Date: EPA 1311; 11/25/13 00:00									
Lead	53.5	mg/L	0.50		5	11/25/13 13:00	11/29/13 11:37	7439-92-1	
Percent Moisture									
Analytical Method: ASTM D2974									
Percent Moisture	12.3	%	0.50		1		11/22/13 00:00		

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ANALYTICAL RESULTS

Project: SANGAMON ST ROW 204997.0002

Pace Project No.: 60157822

Sample: P-26 2-4 **Lab ID: 60157822052** Collected: 11/14/13 11:43 Received: 11/16/13 09:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Red. Interference									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Lead	94.3	mg/kg	5.0		5	11/21/13 13:00	11/23/13 15:41	7439-92-1	1e
6010 MET ICP, TCLP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Leachate Method/Date: EPA 1311; 11/25/13 00:00									
Lead	ND	mg/L	0.50		5	11/25/13 13:00	11/29/13 11:41	7439-92-1	
Percent Moisture									
Analytical Method: ASTM D2974									
Percent Moisture	10.2	%	0.50		1		11/22/13 00:00		

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ANALYTICAL RESULTS

Project: SANGAMON ST ROW 204997.0002

Pace Project No.: 60157822

Sample: P-27 0-2 **Lab ID: 60157822053** Collected: 11/14/13 09:20 Received: 11/16/13 09:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Red. Interference									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Lead	367	mg/kg	5.1		5	11/21/13 13:00	11/23/13 15:31	7439-92-1	1e
6010 MET ICP, TCLP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Leachate Method/Date: EPA 1311; 11/25/13 00:00									
Lead	ND	mg/L	0.50		5	11/25/13 13:00	11/29/13 11:51	7439-92-1	
Percent Moisture									
Analytical Method: ASTM D2974									
Percent Moisture	20.5	%	0.50		1		11/22/13 00:00		

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ANALYTICAL RESULTS

Project: SANGAMON ST ROW 204997.0002

Pace Project No.: 60157822

Sample: P-27 2-4 **Lab ID: 60157822054** Collected: 11/14/13 09:21 Received: 11/16/13 09:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Red. Interference									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Lead	58.0	mg/kg	4.5		5	11/21/13 13:00	11/23/13 15:35	7439-92-1	1e
6010 MET ICP, TCLP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Leachate Method/Date: EPA 1311; 11/25/13 00:00									
Lead	ND	mg/L	0.50	5	1	11/25/13 13:00	11/29/13 11:55	7439-92-1	
Percent Moisture									
Analytical Method: ASTM D2974									
Percent Moisture	19.1	%	0.50		1		11/22/13 00:00		

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ANALYTICAL RESULTS

Project: SANGAMON ST ROW 204997.0002

Pace Project No.: 60157822

Sample: P-28 0-4 **Lab ID: 60157822055** Collected: 11/14/13 10:35 Received: 11/16/13 09:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Red. Interference									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Lead	439	mg/kg	4.0		5	11/21/13 13:00	11/23/13 15:51	7439-92-1	
6010 MET ICP, TCLP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Leachate Method/Date: EPA 1311; 11/25/13 00:00									
Lead	2.9	mg/L	0.50		5	11/25/13 13:00	11/29/13 11:58	7439-92-1	
Percent Moisture									
Analytical Method: ASTM D2974									
Percent Moisture	14.0	%	0.50		1		11/22/13 00:00		

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ANALYTICAL RESULTS

Project: SANGAMON ST ROW 204997.0002

Pace Project No.: 60157822

Sample: P-29 0-2 **Lab ID: 60157822056** Collected: 11/14/13 09:15 Received: 11/16/13 09:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Red. Interference									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Lead	1340	mg/kg	5.4		5	11/21/13 13:00	11/23/13 15:54	7439-92-1	
6010 MET ICP, TCLP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Leachate Method/Date: EPA 1311; 11/25/13 00:00									
Lead	0.93	mg/L	0.50		5	11/25/13 13:00	11/29/13 12:02	7439-92-1	
Percent Moisture									
Analytical Method: ASTM D2974									
Percent Moisture	13.4	%	0.50		1		11/22/13 00:00		

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ANALYTICAL RESULTS

Project: SANGAMON ST ROW 204997.0002

Pace Project No.: 60157822

Sample: P-29 2-4 **Lab ID: 60157822057** Collected: 11/14/13 09:16 Received: 11/16/13 09:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Red. Interference									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Lead	81.8	mg/kg	6.3		5	11/21/13 13:00	11/23/13 15:57	7439-92-1	
6010 MET ICP, TCLP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Leachate Method/Date: EPA 1311; 11/25/13 00:00									
Lead	ND	mg/L	0.50	5	1	11/25/13 13:00	11/29/13 12:05	7439-92-1	
Percent Moisture									
Analytical Method: ASTM D2974									
Percent Moisture	31.8	%	0.50		1		11/22/13 00:00		

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ANALYTICAL RESULTS

Project: SANGAMON ST ROW 204997.0002

Pace Project No.: 60157822

Sample: P-30 0-2 **Lab ID: 60157822058** Collected: 11/14/13 10:30 Received: 11/16/13 09:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Red. Interference									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Lead	613	mg/kg	4.7		5	11/21/13 13:00	11/23/13 16:00	7439-92-1	
6010 MET ICP, TCLP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Leachate Method/Date: EPA 1311; 11/25/13 00:00									
Lead	ND	mg/L	0.50	5	1	11/25/13 13:00	11/29/13 12:09	7439-92-1	
Percent Moisture									
Analytical Method: ASTM D2974									
Percent Moisture	18.0	%	0.50		1		11/22/13 00:00		

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ANALYTICAL RESULTS

Project: SANGAMON ST ROW 204997.0002

Pace Project No.: 60157822

Sample: P-30 2-4 **Lab ID: 60157822059** Collected: 11/14/13 10:31 Received: 11/16/13 09:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Red. Interference									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Lead	84.5	mg/kg	4.9		5	11/21/13 13:00	11/23/13 16:04	7439-92-1	
6010 MET ICP, TCLP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Leachate Method/Date: EPA 1311; 11/26/13 00:00									
Lead	ND	mg/L	0.50	5	1	11/26/13 16:30	11/29/13 12:19	7439-92-1	
Percent Moisture									
Analytical Method: ASTM D2974									
Percent Moisture	17.8	%	0.50		1		11/22/13 00:00		

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ANALYTICAL RESULTS

Project: SANGAMON ST ROW 204997.0002

Pace Project No.: 60157822

Sample: P-31 0-2 **Lab ID: 60157822060** Collected: 11/14/13 08:57 Received: 11/16/13 09:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Red. Interference									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Lead	3130	mg/kg	5.1		5	11/21/13 13:00	11/23/13 16:07	7439-92-1	
6010 MET ICP, TCLP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Leachate Method/Date: EPA 1311; 11/26/13 00:00									
Lead	7.6	mg/L	0.50		5	11/26/13 16:30	11/29/13 12:23	7439-92-1	
Percent Moisture									
Analytical Method: ASTM D2974									
Percent Moisture	13.2	%	0.50		1		11/22/13 00:00		

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ANALYTICAL RESULTS

Project: SANGAMON ST ROW 204997.0002

Pace Project No.: 60157822

Sample: P-31 2-4 **Lab ID: 60157822061** Collected: 11/14/13 08:58 Received: 11/16/13 09:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Red. Interference									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Lead	154	mg/kg	7.4		5	11/21/13 13:00	11/23/13 16:17	7439-92-1	M1,R1
6010 MET ICP, TCLP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Leachate Method/Date: EPA 1311; 11/26/13 00:00									
Lead	ND	mg/L	0.50	5	1	11/26/13 16:30	11/29/13 12:33	7439-92-1	
Percent Moisture									
Analytical Method: ASTM D2974									
Percent Moisture	33.7	%	0.50		1		11/25/13 00:00		

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ANALYTICAL RESULTS

Project: SANGAMON ST ROW 204997.0002

Pace Project No.: 60157822

Sample: P-32 0-2 **Lab ID: 60157822062** Collected: 11/14/13 10:20 Received: 11/16/13 09:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Red. Interference									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Lead	286	mg/kg	5.4		5	11/21/13 13:00	11/23/13 16:33	7439-92-1	
6010 MET ICP, TCLP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Leachate Method/Date: EPA 1311; 11/26/13 00:00									
Lead	ND	mg/L	0.50	5	1	11/26/13 16:30	11/29/13 12:37	7439-92-1	
Percent Moisture									
Analytical Method: ASTM D2974									
Percent Moisture	18.1	%	0.50		1		11/25/13 00:00		

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ANALYTICAL RESULTS

Project: SANGAMON ST ROW 204997.0002

Pace Project No.: 60157822

Sample: P-32 2-4 **Lab ID: 60157822063** Collected: 11/14/13 10:21 Received: 11/16/13 09:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Red. Interference									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Lead	40.8	mg/kg	4.3		5	11/21/13 13:00	11/23/13 16:36	7439-92-1	
6010 MET ICP, TCLP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Leachate Method/Date: EPA 1311; 11/26/13 00:00									
Lead	ND	mg/L	0.50	5	1	11/26/13 16:30	11/29/13 12:40	7439-92-1	
Percent Moisture									
Analytical Method: ASTM D2974									
Percent Moisture	15.1	%	0.50		1		11/25/13 00:00		

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ANALYTICAL RESULTS

Project: SANGAMON ST ROW 204997.0002

Pace Project No.: 60157822

Sample: P-33 0-2 **Lab ID: 60157822064** Collected: 11/14/13 09:01 Received: 11/16/13 09:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Red. Interference									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Lead	505	mg/kg	5.4		5	11/21/13 13:00	11/23/13 16:39	7439-92-1	
6010 MET ICP, TCLP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Leachate Method/Date: EPA 1311; 11/26/13 00:00									
Lead	ND	mg/L	0.50	5	1	11/26/13 16:30	11/29/13 12:44	7439-92-1	
Percent Moisture									
Analytical Method: ASTM D2974									
Percent Moisture	10.3	%	0.50		1		11/25/13 00:00		

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ANALYTICAL RESULTS

Project: SANGAMON ST ROW 204997.0002

Pace Project No.: 60157822

Sample: P-33 2-4 **Lab ID: 60157822065** Collected: 11/14/13 09:02 Received: 11/16/13 09:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Red. Interference									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Lead	55.1	mg/kg	6.3		5	11/21/13 13:00	11/23/13 16:42	7439-92-1	
6010 MET ICP, TCLP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Leachate Method/Date: EPA 1311; 11/26/13 00:00									
Lead	ND	mg/L	0.50	5	1	11/26/13 16:30	11/29/13 12:47	7439-92-1	
Percent Moisture									
Analytical Method: ASTM D2974									
Percent Moisture	25.5	%	0.50		1		11/25/13 00:00		

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ANALYTICAL RESULTS

Project: SANGAMON ST ROW 204997.0002

Pace Project No.: 60157822

Sample: P-34 0-2 **Lab ID: 60157822066** Collected: 11/14/13 10:10 Received: 11/16/13 09:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Red. Interference									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Lead	68.3	mg/kg	4.3		5	11/21/13 13:00	11/23/13 16:45	7439-92-1	
6010 MET ICP, TCLP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Leachate Method/Date: EPA 1311; 11/26/13 00:00									
Lead	ND	mg/L	0.50	5	1	11/26/13 16:30	11/29/13 12:51	7439-92-1	
Percent Moisture									
Analytical Method: ASTM D2974									
Percent Moisture	9.6	%	0.50		1		11/25/13 00:00		

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ANALYTICAL RESULTS

Project: SANGAMON ST ROW 204997.0002

Pace Project No.: 60157822

Sample: P-34 2-4 **Lab ID: 60157822067** Collected: 11/14/13 10:11 Received: 11/16/13 09:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Red. Interference									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Lead	53.5	mg/kg	5.2		5	11/21/13 13:00	11/23/13 16:49	7439-92-1	
6010 MET ICP, TCLP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Leachate Method/Date: EPA 1311; 11/26/13 00:00									
Lead	ND	mg/L	0.50		5	11/26/13 16:30	11/29/13 12:55	7439-92-1	
Percent Moisture									
Analytical Method: ASTM D2974									
Percent Moisture	14.1	%	0.50		1		11/25/13 00:00		

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ANALYTICAL RESULTS

Project: SANGAMON ST ROW 204997.0002

Pace Project No.: 60157822

Sample: P-35 0-2 **Lab ID: 60157822068** Collected: 11/14/13 08:44 Received: 11/16/13 09:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Red. Interference									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Lead	888	mg/kg	4.5		5	11/21/13 13:00	11/23/13 16:52	7439-92-1	
6010 MET ICP, TCLP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Leachate Method/Date: EPA 1311; 11/26/13 00:00									
Lead	ND	mg/L	0.50	5	1	11/26/13 16:30	11/29/13 12:58	7439-92-1	
Percent Moisture									
Analytical Method: ASTM D2974									
Percent Moisture	18.5	%	0.50		1		11/25/13 00:00		

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ANALYTICAL RESULTS

Project: SANGAMON ST ROW 204997.0002

Pace Project No.: 60157822

Sample: P-35 2-4 **Lab ID: 60157822069** Collected: 11/14/13 08:45 Received: 11/16/13 09:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Red. Interference									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Lead	26.1	mg/kg	5.6		5	11/21/13 13:00	11/23/13 16:55	7439-92-1	
6010 MET ICP, TCLP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Leachate Method/Date: EPA 1311; 11/26/13 00:00									
Lead	ND	mg/L	0.50		5	11/26/13 16:30	11/29/13 13:02	7439-92-1	
Percent Moisture									
Analytical Method: ASTM D2974									
Percent Moisture	12.9	%	0.50		1		11/25/13 00:00		

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ANALYTICAL RESULTS

Project: SANGAMON ST ROW 204997.0002

Pace Project No.: 60157822

Sample: P-36 0-2 **Lab ID: 60157822070** Collected: 11/14/13 10:03 Received: 11/16/13 09:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Red. Interference									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Lead	377	mg/kg	4.3		5	11/21/13 13:00	11/23/13 16:58	7439-92-1	
6010 MET ICP, TCLP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Leachate Method/Date: EPA 1311; 11/26/13 00:00									
Lead	ND	mg/L	0.50	5	1	11/26/13 16:30	11/29/13 13:05	7439-92-1	
Percent Moisture									
Analytical Method: ASTM D2974									
Percent Moisture	11.5	%	0.50		1		11/25/13 00:00		

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ANALYTICAL RESULTS

Project: SANGAMON ST ROW 204997.0002

Pace Project No.: 60157822

Sample: P-36 2-4 **Lab ID: 60157822071** Collected: 11/14/13 10:04 Received: 11/16/13 09:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Red. Interference									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Lead	82.5	mg/kg	5.8		5	11/21/13 13:00	11/23/13 17:08	7439-92-1	
6010 MET ICP, TCLP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Leachate Method/Date: EPA 1311; 11/26/13 00:00									
Lead	ND	mg/L	0.50	5	1	11/26/13 16:30	11/29/13 13:16	7439-92-1	
Percent Moisture									
Analytical Method: ASTM D2974									
Percent Moisture	13.2	%	0.50		1		11/25/13 00:00		

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ANALYTICAL RESULTS

Project: SANGAMON ST ROW 204997.0002

Pace Project No.: 60157822

Sample: DUP1 **Lab ID:** 60157822072 Collected: 11/14/13 08:00 Received: 11/16/13 09:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Red. Interference									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Lead	1360	mg/kg	4.2		5	11/21/13 13:00	11/23/13 17:11	7439-92-1	
6010 MET ICP, TCLP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Leachate Method/Date: EPA 1311; 11/26/13 00:00									
Lead	1.1	mg/L	0.50	5	1	11/26/13 16:30	11/29/13 13:19	7439-92-1	
Percent Moisture									
Analytical Method: ASTM D2974									
Percent Moisture	17.8	%	0.50		1		11/25/13 00:00		

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ANALYTICAL RESULTS

Project: SANGAMON ST ROW 204997.0002

Pace Project No.: 60157822

Sample: DUP2 **Lab ID:** 60157822073 Collected: 11/14/13 08:00 Received: 11/16/13 09:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Red. Interference									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Lead	53.9	mg/kg	5.2		5	11/21/13 13:00	11/23/13 17:15	7439-92-1	
6010 MET ICP, TCLP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Leachate Method/Date: EPA 1311; 11/26/13 00:00									
Lead	ND	mg/L	0.50		5	11/26/13 16:30	11/29/13 13:23	7439-92-1	
Percent Moisture									
Analytical Method: ASTM D2974									
Percent Moisture	12.6	%	0.50		1		11/25/13 00:00		

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ANALYTICAL RESULTS

Project: SANGAMON ST ROW 204997.0002

Pace Project No.: 60157822

Sample: DUP3 **Lab ID:** 60157822074 Collected: 11/14/13 08:00 Received: 11/16/13 09:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Red. Interference									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Lead	1010	mg/kg	5.7		5	11/21/13 13:00	11/23/13 17:18	7439-92-1	
6010 MET ICP, TCLP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Leachate Method/Date: EPA 1311; 11/26/13 00:00									
Lead	0.60	mg/L	0.50		5	11/26/13 16:30	11/29/13 13:26	7439-92-1	
Percent Moisture									
Analytical Method: ASTM D2974									
Percent Moisture	17.5	%	0.50		1		11/25/13 00:00		

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ANALYTICAL RESULTS

Project: SANGAMON ST ROW 204997.0002

Pace Project No.: 60157822

Sample: DUP4 **Lab ID:** 60157822075 **Collected:** 11/14/13 08:00 **Received:** 11/16/13 09:00 **Matrix:** Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Red. Interference									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Lead	950	mg/kg	5.2		5	11/21/13 13:00	11/23/13 17:21	7439-92-1	
6010 MET ICP, TCLP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Leachate Method/Date: EPA 1311; 11/26/13 00:00									
Lead	0.98	mg/L	0.50		5	11/26/13 16:30	11/29/13 13:30	7439-92-1	
Percent Moisture									
Analytical Method: ASTM D2974									
Percent Moisture	13.0	%	0.50		1		11/25/13 00:00		

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QUALITY CONTROL DATA

Project: SANGAMON ST ROW 204997.0002

Pace Project No.: 60157822

QC Batch:	MPRP/25248	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3050	Analysis Description:	6010 MET
Associated Lab Samples:	60157822001, 60157822002, 60157822003, 60157822004, 60157822005, 60157822006, 60157822007, 60157822008, 60157822009, 60157822010, 60157822011, 60157822012, 60157822013, 60157822014, 60157822015, 60157822016, 60157822017, 60157822018, 60157822019, 60157822020		

METHOD BLANK: 1293426

Matrix: Solid

Associated Lab Samples: 60157822001, 60157822002, 60157822003, 60157822004, 60157822005, 60157822006, 60157822007, 60157822008, 60157822009, 60157822010, 60157822011, 60157822012, 60157822013, 60157822014, 60157822015, 60157822016, 60157822017, 60157822018, 60157822019, 60157822020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	mg/kg	ND	1.0	11/23/13 11:37	

LABORATORY CONTROL SAMPLE: 1293427

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	mg/kg	100	96.6	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1293428 1293429

Parameter	Units	60157822001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lead	mg/kg	1540	111	122	1550	1730	14	160	75-125	11	20	M1

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QUALITY CONTROL DATA

Project: SANGAMON ST ROW 204997.0002

Pace Project No.: 60157822

QC Batch:	MPRP/25249	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3050	Analysis Description:	6010 MET
Associated Lab Samples:	60157822021, 60157822022, 60157822023, 60157822024, 60157822025, 60157822026, 60157822027, 60157822028, 60157822029, 60157822030, 60157822031, 60157822032, 60157822033, 60157822034, 60157822035, 60157822036, 60157822037, 60157822038, 60157822039, 60157822040		

METHOD BLANK: 1293431

Matrix: Solid

Associated Lab Samples: 60157822021, 60157822022, 60157822023, 60157822024, 60157822025, 60157822026, 60157822027, 60157822028, 60157822029, 60157822030, 60157822031, 60157822032, 60157822033, 60157822034, 60157822035, 60157822036, 60157822037, 60157822038, 60157822039, 60157822040

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	mg/kg	ND	1.0	12/02/13 13:40	

LABORATORY CONTROL SAMPLE: 1293432

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	mg/kg	100	105	105	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1293433 1293434

Parameter	Units	60157822021 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lead	mg/kg	661	100	110	764	801	102	128	75-125	5	20	M1

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: SANGAMON ST ROW 204997.0002

Pace Project No.: 60157822

QC Batch:	MPRP/25250	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3050	Analysis Description:	6010 MET
Associated Lab Samples:	60157822041, 60157822042, 60157822043, 60157822044, 60157822045, 60157822046, 60157822047, 60157822048, 60157822049, 60157822050, 60157822051, 60157822052, 60157822053, 60157822054, 60157822055, 60157822056, 60157822057, 60157822058, 60157822059, 60157822060		

METHOD BLANK: 1293435

Matrix: Solid

Associated Lab Samples: 60157822041, 60157822042, 60157822043, 60157822044, 60157822045, 60157822046, 60157822047, 60157822048, 60157822049, 60157822050, 60157822051, 60157822052, 60157822053, 60157822054, 60157822055, 60157822056, 60157822057, 60157822058, 60157822059, 60157822060

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	mg/kg	ND	1.0	11/23/13 14:43	

LABORATORY CONTROL SAMPLE: 1293436

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	mg/kg	100	89.2	89	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1293437 1293438

Parameter	Units	60157822041 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lead	mg/kg	24.5	97.1	97.1	104	125	82	104	75-125	18	20	

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QUALITY CONTROL DATA

Project: SANGAMON ST ROW 204997.0002

Pace Project No.: 60157822

QC Batch:	MPRP/25251	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3050	Analysis Description:	6010 MET
Associated Lab Samples:	60157822061, 60157822062, 60157822063, 60157822064, 60157822065, 60157822066, 60157822067, 60157822068, 60157822069, 60157822070, 60157822071, 60157822072, 60157822073, 60157822074, 60157822075		

METHOD BLANK: 1293439 Matrix: Solid

Associated Lab Samples: 60157822061, 60157822062, 60157822063, 60157822064, 60157822065, 60157822066, 60157822067, 60157822068, 60157822069, 60157822070, 60157822071, 60157822072, 60157822073, 60157822074, 60157822075

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	mg/kg	ND	1.0	11/23/13 16:13	

LABORATORY CONTROL SAMPLE: 1293440

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	mg/kg	100	99.0	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1293441 1293442

Parameter	Units	60157822061 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lead	mg/kg	154	145	111	371	191	150	33	75-125	64	20	M1,R1

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QUALITY CONTROL DATA

Project: SANGAMON ST ROW 204997.0002

Pace Project No.: 60157822

QC Batch:	MPRP/25203	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3010	Analysis Description:	6010 MET TCLP
Associated Lab Samples:	60157822001, 60157822002, 60157822003, 60157822004, 60157822005, 60157822006, 60157822007, 60157822008, 60157822009, 60157822010		

METHOD BLANK: 1292211 Matrix: Water
Associated Lab Samples: 60157822001, 60157822002, 60157822003, 60157822004, 60157822005, 60157822006, 60157822007, 60157822008, 60157822009, 60157822010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	mg/L	ND	0.50	11/20/13 19:14	

LABORATORY CONTROL SAMPLE: 1292212

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	mg/L	1	1.0	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1292213 1292214

Parameter	Units	60157822001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lead	mg/L	0.53	10	10	10.4	10.3	98	97	75-125	1	20	

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QUALITY CONTROL DATA

Project: SANGAMON ST ROW 204997.0002

Pace Project No.: 60157822

QC Batch:	MPRP/25240	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3010	Analysis Description:	6010 MET TCLP
Associated Lab Samples:	60157822011, 60157822012, 60157822013, 60157822014, 60157822015, 60157822016, 60157822017, 60157822018, 60157822019, 60157822020, 60157822021, 60157822022, 60157822023, 60157822024, 60157822025, 60157822026, 60157822027, 60157822028, 60157822029, 60157822030		

METHOD BLANK: 1293020

Matrix: Water

Associated Lab Samples: 60157822011, 60157822012, 60157822013, 60157822014, 60157822015, 60157822016, 60157822017, 60157822018, 60157822019, 60157822020, 60157822021, 60157822022, 60157822023, 60157822024, 60157822025, 60157822026, 60157822027, 60157822028, 60157822029, 60157822030

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	mg/L	ND	0.50	11/23/13 10:07	

LABORATORY CONTROL SAMPLE: 1293021

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	mg/L	1	1.0	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1293022 1293023

Parameter	Units	60157822026 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lead	mg/L	ND	10	10	9.3	9.3	93	92	75-125	1	20	

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QUALITY CONTROL DATA

Project: SANGAMON ST ROW 204997.0002

Pace Project No.: 60157822

QC Batch:	MPRP/25305	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3010	Analysis Description:	6010 MET TCLP
Associated Lab Samples:	60157822031, 60157822032, 60157822033, 60157822034, 60157822035, 60157822036, 60157822037, 60157822038, 60157822039, 60157822040, 60157822041, 60157822042, 60157822043, 60157822044, 60157822045, 60157822046		

METHOD BLANK: 1296092

Matrix: Water

Associated Lab Samples: 60157822031, 60157822032, 60157822033, 60157822034, 60157822035, 60157822036, 60157822037, 60157822038, 60157822039, 60157822040, 60157822041, 60157822042, 60157822043, 60157822044, 60157822045, 60157822046

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	mg/L	ND	0.50	11/29/13 12:39	

LABORATORY CONTROL SAMPLE: 1296093

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	mg/L	1	1.0	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1296094 1296095

Parameter	Units	60157822043 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lead	mg/L	0.77	10	10	10.9	11.0	101	102	75-125	1	20	

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QUALITY CONTROL DATA

Project: SANGAMON ST ROW 204997.0002

Pace Project No.: 60157822

QC Batch:	MPRP/25310	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3010	Analysis Description:	6010 MET TCLP
Associated Lab Samples:	60157822047, 60157822048, 60157822049, 60157822050, 60157822051, 60157822052, 60157822053, 60157822054, 60157822055, 60157822056, 60157822057, 60157822058		

METHOD BLANK: 1296161 Matrix: Water
Associated Lab Samples: 60157822047, 60157822048, 60157822049, 60157822050, 60157822051, 60157822052, 60157822053, 60157822054, 60157822055, 60157822056, 60157822057, 60157822058

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	mg/L	ND	0.50	11/29/13 11:09	

LABORATORY CONTROL SAMPLE: 1296162

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	mg/L	1	1.0	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1296163 1296164

Parameter	Units	60157822047 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
Lead	mg/L	1.3	10	10	11.0	11.2	97	98	75-125	2	20

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QUALITY CONTROL DATA

Project: SANGAMON ST ROW 204997.0002

Pace Project No.: 60157822

QC Batch:	MPRP/25348	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3010	Analysis Description:	6010 MET TCLP
Associated Lab Samples:	60157822059, 60157822060, 60157822061, 60157822062, 60157822063, 60157822064, 60157822065, 60157822066, 60157822067, 60157822068, 60157822069, 60157822070, 60157822071, 60157822072, 60157822073, 60157822074, 60157822075		

METHOD BLANK: 1297033

Matrix: Water

Associated Lab Samples: 60157822059, 60157822060, 60157822061, 60157822062, 60157822063, 60157822064, 60157822065, 60157822066, 60157822067, 60157822068, 60157822069, 60157822070, 60157822071, 60157822072, 60157822073, 60157822074, 60157822075

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	mg/L	ND	0.50	11/29/13 12:12	

LABORATORY CONTROL SAMPLE: 1297034

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	mg/L	1	0.96	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1297035 1297036

Parameter	Units	60157822073 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lead	mg/L	ND	10	10	8.9	9.2	89	91	75-125	3	20	

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QUALITY CONTROL DATA

Project: SANGAMON ST ROW 204997.0002

Pace Project No.: 60157822

QC Batch:	PMST/9165	Analysis Method:	ASTM D2974
QC Batch Method:	ASTM D2974	Analysis Description:	Dry Weight/Percent Moisture
Associated Lab Samples:	60157822001, 60157822002, 60157822003, 60157822004, 60157822005, 60157822006, 60157822007, 60157822008, 60157822009, 60157822010, 60157822011, 60157822012		

METHOD BLANK:	1293281	Matrix:	Solid
Associated Lab Samples:	60157822001, 60157822002, 60157822003, 60157822004, 60157822005, 60157822006, 60157822007, 60157822008, 60157822009, 60157822010, 60157822011, 60157822012		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Percent Moisture	%	ND	0.50	11/21/13 00:00	

SAMPLE DUPLICATE: 1293282

Parameter	Units	60157781005 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	4.2	4.1	2	20	

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QUALITY CONTROL DATA

Project: SANGAMON ST ROW 204997.0002

Pace Project No.: 60157822

QC Batch:	PMST/9166	Analysis Method:	ASTM D2974
QC Batch Method:	ASTM D2974	Analysis Description:	Dry Weight/Percent Moisture
Associated Lab Samples:	60157822013, 60157822014, 60157822015, 60157822016, 60157822017, 60157822018, 60157822019, 60157822020, 60157822021, 60157822022, 60157822023, 60157822024, 60157822025, 60157822026, 60157822027, 60157822028, 60157822029, 60157822030, 60157822031, 60157822032		

METHOD BLANK: 1293283

Matrix: Solid

Associated Lab Samples: 60157822013, 60157822014, 60157822015, 60157822016, 60157822017, 60157822018, 60157822019, 60157822020, 60157822021, 60157822022, 60157822023, 60157822024, 60157822025, 60157822026, 60157822027, 60157822028, 60157822029, 60157822030, 60157822031, 60157822032

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Percent Moisture	%	ND	0.50	11/21/13 00:00	

SAMPLE DUPLICATE: 1293284

Parameter	Units	60157822013 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	19.4	20.7	6	20	

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QUALITY CONTROL DATA

Project: SANGAMON ST ROW 204997.0002

Pace Project No.: 60157822

QC Batch:	PMST/9171	Analysis Method:	ASTM D2974
QC Batch Method:	ASTM D2974	Analysis Description:	Dry Weight/Percent Moisture
Associated Lab Samples:	60157822033, 60157822034, 60157822035, 60157822036, 60157822037, 60157822038, 60157822039, 60157822040		

METHOD BLANK:	1294159	Matrix:	Solid
Associated Lab Samples:	60157822033, 60157822034, 60157822035, 60157822036, 60157822037, 60157822038, 60157822039, 60157822040		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Percent Moisture	%	ND	0.50	11/22/13 00:00	

SAMPLE DUPLICATE: 1294160

Parameter	Units	60157613028 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	8.4	8.4	0	20	

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QUALITY CONTROL DATA

Project: SANGAMON ST ROW 204997.0002

Pace Project No.: 60157822

QC Batch:	PMST/9172	Analysis Method:	ASTM D2974
QC Batch Method:	ASTM D2974	Analysis Description:	Dry Weight/Percent Moisture
Associated Lab Samples:	60157822041, 60157822042, 60157822043, 60157822044, 60157822045, 60157822046, 60157822047, 60157822048, 60157822049, 60157822050, 60157822051, 60157822052, 60157822053, 60157822054, 60157822055, 60157822056, 60157822057, 60157822058, 60157822059, 60157822060		

METHOD BLANK: 1294161

Matrix: Solid

Associated Lab Samples: 60157822041, 60157822042, 60157822043, 60157822044, 60157822045, 60157822046, 60157822047, 60157822048, 60157822049, 60157822050, 60157822051, 60157822052, 60157822053, 60157822054, 60157822055, 60157822056, 60157822057, 60157822058, 60157822059, 60157822060

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Percent Moisture	%	ND	0.50	11/22/13 00:00	

SAMPLE DUPLICATE: 1294162

Parameter	Units	60157822041 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	11.2	11.9	5	20	

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QUALITY CONTROL DATA

Project: SANGAMON ST ROW 204997.0002

Pace Project No.: 60157822

QC Batch:	PMST/9176	Analysis Method:	ASTM D2974
QC Batch Method:	ASTM D2974	Analysis Description:	Dry Weight/Percent Moisture
Associated Lab Samples:	60157822061, 60157822062, 60157822063, 60157822064, 60157822065, 60157822066, 60157822067, 60157822068, 60157822069, 60157822070, 60157822071, 60157822072, 60157822073, 60157822074, 60157822075		

METHOD BLANK: 1295808

Matrix: Solid

Associated Lab Samples: 60157822061, 60157822062, 60157822063, 60157822064, 60157822065, 60157822066, 60157822067, 60157822068, 60157822069, 60157822070, 60157822071, 60157822072, 60157822073, 60157822074, 60157822075

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Percent Moisture	%	ND	0.50	11/25/13 00:00	

SAMPLE DUPLICATE: 1295809

Parameter	Units	60157822061 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	33.7	30.2	11	20	

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QUALIFIERS

Project: SANGAMON ST ROW 204997.0002

Pace Project No.: 60157822

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

1e Revised

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

R1 RPD value was outside control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: SANGAMON ST ROW 204997.0002

Pace Project No.: 60157822

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60157822001	P-1 0-2	EPA 3050	MPRP/25248	EPA 6010	ICP/19464
60157822002	P-1 2-4	EPA 3050	MPRP/25248	EPA 6010	ICP/19464
60157822003	P-2 0-2	EPA 3050	MPRP/25248	EPA 6010	ICP/19464
60157822004	P-2 2-4	EPA 3050	MPRP/25248	EPA 6010	ICP/19464
60157822005	P-3 0-2	EPA 3050	MPRP/25248	EPA 6010	ICP/19464
60157822006	P-3 2-4	EPA 3050	MPRP/25248	EPA 6010	ICP/19464
60157822007	P-4 0-2	EPA 3050	MPRP/25248	EPA 6010	ICP/19464
60157822008	P-4 2-4	EPA 3050	MPRP/25248	EPA 6010	ICP/19464
60157822009	P-5 0-2	EPA 3050	MPRP/25248	EPA 6010	ICP/19464
60157822010	P-5 2-4	EPA 3050	MPRP/25248	EPA 6010	ICP/19464
60157822011	P-6 0-2	EPA 3050	MPRP/25248	EPA 6010	ICP/19464
60157822012	P-6 2-4	EPA 3050	MPRP/25248	EPA 6010	ICP/19464
60157822013	P-7 0-2	EPA 3050	MPRP/25248	EPA 6010	ICP/19464
60157822014	P-7 2-4	EPA 3050	MPRP/25248	EPA 6010	ICP/19464
60157822015	P-8 0-2	EPA 3050	MPRP/25248	EPA 6010	ICP/19464
60157822016	P-8 2-4	EPA 3050	MPRP/25248	EPA 6010	ICP/19464
60157822017	P-9 0-2	EPA 3050	MPRP/25248	EPA 6010	ICP/19464
60157822018	P-9 2-4	EPA 3050	MPRP/25248	EPA 6010	ICP/19464
60157822019	P-10 0-2	EPA 3050	MPRP/25248	EPA 6010	ICP/19464
60157822020	P-10 2-4	EPA 3050	MPRP/25248	EPA 6010	ICP/19464
60157822021	P-11 0-2	EPA 3050	MPRP/25249	EPA 6010	ICP/19465
60157822022	P-11 2-4	EPA 3050	MPRP/25249	EPA 6010	ICP/19465
60157822023	P-12 0-2	EPA 3050	MPRP/25249	EPA 6010	ICP/19465
60157822024	P-12 2-4	EPA 3050	MPRP/25249	EPA 6010	ICP/19465
60157822025	P-13 0-2	EPA 3050	MPRP/25249	EPA 6010	ICP/19465
60157822026	P-13 2-4	EPA 3050	MPRP/25249	EPA 6010	ICP/19465
60157822027	P-14 0-2	EPA 3050	MPRP/25249	EPA 6010	ICP/19465
60157822028	P-14 2-4	EPA 3050	MPRP/25249	EPA 6010	ICP/19465
60157822029	P-15 0-2	EPA 3050	MPRP/25249	EPA 6010	ICP/19465
60157822030	P-15 2-4	EPA 3050	MPRP/25249	EPA 6010	ICP/19465
60157822031	P-16 0-2	EPA 3050	MPRP/25249	EPA 6010	ICP/19465
60157822032	P-16 2-4	EPA 3050	MPRP/25249	EPA 6010	ICP/19465
60157822033	P-17 0-2	EPA 3050	MPRP/25249	EPA 6010	ICP/19465
60157822034	P-17 2-4	EPA 3050	MPRP/25249	EPA 6010	ICP/19465
60157822035	P-18 0-2	EPA 3050	MPRP/25249	EPA 6010	ICP/19465
60157822036	P-18 2-4	EPA 3050	MPRP/25249	EPA 6010	ICP/19465
60157822037	P-19 0-2	EPA 3050	MPRP/25249	EPA 6010	ICP/19465
60157822038	P-19 2-4	EPA 3050	MPRP/25249	EPA 6010	ICP/19465
60157822039	P-20 0-2	EPA 3050	MPRP/25249	EPA 6010	ICP/19465
60157822040	P-20 2-4	EPA 3050	MPRP/25249	EPA 6010	ICP/19465
60157822041	P-21 0-2	EPA 3050	MPRP/25250	EPA 6010	ICP/19466
60157822042	P-21 2-4	EPA 3050	MPRP/25250	EPA 6010	ICP/19466
60157822043	P-22 0-2	EPA 3050	MPRP/25250	EPA 6010	ICP/19466
60157822044	P-22 2-4	EPA 3050	MPRP/25250	EPA 6010	ICP/19466
60157822045	P-23 0-2	EPA 3050	MPRP/25250	EPA 6010	ICP/19466
60157822046	P-23 2-4	EPA 3050	MPRP/25250	EPA 6010	ICP/19466
60157822047	P-24 0-2	EPA 3050	MPRP/25250	EPA 6010	ICP/19466
60157822048	P-24 2-4	EPA 3050	MPRP/25250	EPA 6010	ICP/19466

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: SANGAMON ST ROW 204997.0002

Pace Project No.: 60157822

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60157822049	P-25 0-2	EPA 3050	MPRP/25250	EPA 6010	ICP/19466
60157822050	P-25 2-4	EPA 3050	MPRP/25250	EPA 6010	ICP/19466
60157822051	P-26 0-2	EPA 3050	MPRP/25250	EPA 6010	ICP/19466
60157822052	P-26 2-4	EPA 3050	MPRP/25250	EPA 6010	ICP/19466
60157822053	P-27 0-2	EPA 3050	MPRP/25250	EPA 6010	ICP/19466
60157822054	P-27 2-4	EPA 3050	MPRP/25250	EPA 6010	ICP/19466
60157822055	P-28 0-4	EPA 3050	MPRP/25250	EPA 6010	ICP/19466
60157822056	P-29 0-2	EPA 3050	MPRP/25250	EPA 6010	ICP/19466
60157822057	P-29 2-4	EPA 3050	MPRP/25250	EPA 6010	ICP/19466
60157822058	P-30 0-2	EPA 3050	MPRP/25250	EPA 6010	ICP/19466
60157822059	P-30 2-4	EPA 3050	MPRP/25250	EPA 6010	ICP/19466
60157822060	P-31 0-2	EPA 3050	MPRP/25250	EPA 6010	ICP/19466
60157822061	P-31 2-4	EPA 3050	MPRP/25251	EPA 6010	ICP/19467
60157822062	P-32 0-2	EPA 3050	MPRP/25251	EPA 6010	ICP/19467
60157822063	P-32 2-4	EPA 3050	MPRP/25251	EPA 6010	ICP/19467
60157822064	P-33 0-2	EPA 3050	MPRP/25251	EPA 6010	ICP/19467
60157822065	P-33 2-4	EPA 3050	MPRP/25251	EPA 6010	ICP/19467
60157822066	P-34 0-2	EPA 3050	MPRP/25251	EPA 6010	ICP/19467
60157822067	P-34 2-4	EPA 3050	MPRP/25251	EPA 6010	ICP/19467
60157822068	P-35 0-2	EPA 3050	MPRP/25251	EPA 6010	ICP/19467
60157822069	P-35 2-4	EPA 3050	MPRP/25251	EPA 6010	ICP/19467
60157822070	P-36 0-2	EPA 3050	MPRP/25251	EPA 6010	ICP/19467
60157822071	P-36 2-4	EPA 3050	MPRP/25251	EPA 6010	ICP/19467
60157822072	DUP1	EPA 3050	MPRP/25251	EPA 6010	ICP/19467
60157822073	DUP2	EPA 3050	MPRP/25251	EPA 6010	ICP/19467
60157822074	DUP3	EPA 3050	MPRP/25251	EPA 6010	ICP/19467
60157822075	DUP4	EPA 3050	MPRP/25251	EPA 6010	ICP/19467
60157822001	P-1 0-2	EPA 3010	MPRP/25203	EPA 6010	ICP/19455
60157822002	P-1 2-4	EPA 3010	MPRP/25203	EPA 6010	ICP/19455
60157822003	P-2 0-2	EPA 3010	MPRP/25203	EPA 6010	ICP/19455
60157822004	P-2 2-4	EPA 3010	MPRP/25203	EPA 6010	ICP/19455
60157822005	P-3 0-2	EPA 3010	MPRP/25203	EPA 6010	ICP/19455
60157822006	P-3 2-4	EPA 3010	MPRP/25203	EPA 6010	ICP/19455
60157822007	P-4 0-2	EPA 3010	MPRP/25203	EPA 6010	ICP/19455
60157822008	P-4 2-4	EPA 3010	MPRP/25203	EPA 6010	ICP/19455
60157822009	P-5 0-2	EPA 3010	MPRP/25203	EPA 6010	ICP/19455
60157822010	P-5 2-4	EPA 3010	MPRP/25203	EPA 6010	ICP/19455
60157822011	P-6 0-2	EPA 3010	MPRP/25240	EPA 6010	ICP/19461
60157822012	P-6 2-4	EPA 3010	MPRP/25240	EPA 6010	ICP/19461
60157822013	P-7 0-2	EPA 3010	MPRP/25240	EPA 6010	ICP/19461
60157822014	P-7 2-4	EPA 3010	MPRP/25240	EPA 6010	ICP/19461
60157822015	P-8 0-2	EPA 3010	MPRP/25240	EPA 6010	ICP/19461
60157822016	P-8 2-4	EPA 3010	MPRP/25240	EPA 6010	ICP/19461
60157822017	P-9 0-2	EPA 3010	MPRP/25240	EPA 6010	ICP/19461
60157822018	P-9 2-4	EPA 3010	MPRP/25240	EPA 6010	ICP/19461
60157822019	P-10 0-2	EPA 3010	MPRP/25240	EPA 6010	ICP/19461
60157822020	P-10 2-4	EPA 3010	MPRP/25240	EPA 6010	ICP/19461

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: SANGAMON ST ROW 204997.0002

Pace Project No.: 60157822

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60157822021	P-11 0-2	EPA 3010	MPRP/25240	EPA 6010	ICP/19461
60157822022	P-11 2-4	EPA 3010	MPRP/25240	EPA 6010	ICP/19461
60157822023	P-12 0-2	EPA 3010	MPRP/25240	EPA 6010	ICP/19461
60157822024	P-12 2-4	EPA 3010	MPRP/25240	EPA 6010	ICP/19461
60157822025	P-13 0-2	EPA 3010	MPRP/25240	EPA 6010	ICP/19461
60157822026	P-13 2-4	EPA 3010	MPRP/25240	EPA 6010	ICP/19461
60157822027	P-14 0-2	EPA 3010	MPRP/25240	EPA 6010	ICP/19461
60157822028	P-14 2-4	EPA 3010	MPRP/25240	EPA 6010	ICP/19461
60157822029	P-15 0-2	EPA 3010	MPRP/25240	EPA 6010	ICP/19461
60157822030	P-15 2-4	EPA 3010	MPRP/25240	EPA 6010	ICP/19461
60157822031	P-16 0-2	EPA 3010	MPRP/25305	EPA 6010	ICP/19494
60157822032	P-16 2-4	EPA 3010	MPRP/25305	EPA 6010	ICP/19494
60157822033	P-17 0-2	EPA 3010	MPRP/25305	EPA 6010	ICP/19494
60157822034	P-17 2-4	EPA 3010	MPRP/25305	EPA 6010	ICP/19494
60157822035	P-18 0-2	EPA 3010	MPRP/25305	EPA 6010	ICP/19494
60157822036	P-18 2-4	EPA 3010	MPRP/25305	EPA 6010	ICP/19494
60157822037	P-19 0-2	EPA 3010	MPRP/25305	EPA 6010	ICP/19494
60157822038	P-19 2-4	EPA 3010	MPRP/25305	EPA 6010	ICP/19494
60157822039	P-20 0-2	EPA 3010	MPRP/25305	EPA 6010	ICP/19494
60157822040	P-20 2-4	EPA 3010	MPRP/25305	EPA 6010	ICP/19494
60157822041	P-21 0-2	EPA 3010	MPRP/25305	EPA 6010	ICP/19494
60157822042	P-21 2-4	EPA 3010	MPRP/25305	EPA 6010	ICP/19494
60157822043	P-22 0-2	EPA 3010	MPRP/25305	EPA 6010	ICP/19494
60157822044	P-22 2-4	EPA 3010	MPRP/25305	EPA 6010	ICP/19494
60157822045	P-23 0-2	EPA 3010	MPRP/25305	EPA 6010	ICP/19494
60157822046	P-23 2-4	EPA 3010	MPRP/25305	EPA 6010	ICP/19494
60157822047	P-24 0-2	EPA 3010	MPRP/25310	EPA 6010	ICP/19497
60157822048	P-24 2-4	EPA 3010	MPRP/25310	EPA 6010	ICP/19497
60157822049	P-25 0-2	EPA 3010	MPRP/25310	EPA 6010	ICP/19497
60157822050	P-25 2-4	EPA 3010	MPRP/25310	EPA 6010	ICP/19497
60157822051	P-26 0-2	EPA 3010	MPRP/25310	EPA 6010	ICP/19497
60157822052	P-26 2-4	EPA 3010	MPRP/25310	EPA 6010	ICP/19497
60157822053	P-27 0-2	EPA 3010	MPRP/25310	EPA 6010	ICP/19497
60157822054	P-27 2-4	EPA 3010	MPRP/25310	EPA 6010	ICP/19497
60157822055	P-28 0-4	EPA 3010	MPRP/25310	EPA 6010	ICP/19497
60157822056	P-29 0-2	EPA 3010	MPRP/25310	EPA 6010	ICP/19497
60157822057	P-29 2-4	EPA 3010	MPRP/25310	EPA 6010	ICP/19497
60157822058	P-30 0-2	EPA 3010	MPRP/25310	EPA 6010	ICP/19497
60157822059	P-30 2-4	EPA 3010	MPRP/25348	EPA 6010	ICP/19521
60157822060	P-31 0-2	EPA 3010	MPRP/25348	EPA 6010	ICP/19521
60157822061	P-31 2-4	EPA 3010	MPRP/25348	EPA 6010	ICP/19521
60157822062	P-32 0-2	EPA 3010	MPRP/25348	EPA 6010	ICP/19521
60157822063	P-32 2-4	EPA 3010	MPRP/25348	EPA 6010	ICP/19521
60157822064	P-33 0-2	EPA 3010	MPRP/25348	EPA 6010	ICP/19521
60157822065	P-33 2-4	EPA 3010	MPRP/25348	EPA 6010	ICP/19521
60157822066	P-34 0-2	EPA 3010	MPRP/25348	EPA 6010	ICP/19521
60157822067	P-34 2-4	EPA 3010	MPRP/25348	EPA 6010	ICP/19521

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: SANGAMON ST ROW 204997.0002

Pace Project No.: 60157822

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60157822068	P-35 0-2	EPA 3010	MPRP/25348	EPA 6010	ICP/19521
60157822069	P-35 2-4	EPA 3010	MPRP/25348	EPA 6010	ICP/19521
60157822070	P-36 0-2	EPA 3010	MPRP/25348	EPA 6010	ICP/19521
60157822071	P-36 2-4	EPA 3010	MPRP/25348	EPA 6010	ICP/19521
60157822072	DUP1	EPA 3010	MPRP/25348	EPA 6010	ICP/19521
60157822073	DUP2	EPA 3010	MPRP/25348	EPA 6010	ICP/19521
60157822074	DUP3	EPA 3010	MPRP/25348	EPA 6010	ICP/19521
60157822075	DUP4	EPA 3010	MPRP/25348	EPA 6010	ICP/19521
60157822001	P-1 0-2	ASTM D2974	PMST/9165		
60157822002	P-1 2-4	ASTM D2974	PMST/9165		
60157822003	P-2 0-2	ASTM D2974	PMST/9165		
60157822004	P-2 2-4	ASTM D2974	PMST/9165		
60157822005	P-3 0-2	ASTM D2974	PMST/9165		
60157822006	P-3 2-4	ASTM D2974	PMST/9165		
60157822007	P-4 0-2	ASTM D2974	PMST/9165		
60157822008	P-4 2-4	ASTM D2974	PMST/9165		
60157822009	P-5 0-2	ASTM D2974	PMST/9165		
60157822010	P-5 2-4	ASTM D2974	PMST/9165		
60157822011	P-6 0-2	ASTM D2974	PMST/9165		
60157822012	P-6 2-4	ASTM D2974	PMST/9165		
60157822013	P-7 0-2	ASTM D2974	PMST/9166		
60157822014	P-7 2-4	ASTM D2974	PMST/9166		
60157822015	P-8 0-2	ASTM D2974	PMST/9166		
60157822016	P-8 2-4	ASTM D2974	PMST/9166		
60157822017	P-9 0-2	ASTM D2974	PMST/9166		
60157822018	P-9 2-4	ASTM D2974	PMST/9166		
60157822019	P-10 0-2	ASTM D2974	PMST/9166		
60157822020	P-10 2-4	ASTM D2974	PMST/9166		
60157822021	P-11 0-2	ASTM D2974	PMST/9166		
60157822022	P-11 2-4	ASTM D2974	PMST/9166		
60157822023	P-12 0-2	ASTM D2974	PMST/9166		
60157822024	P-12 2-4	ASTM D2974	PMST/9166		
60157822025	P-13 0-2	ASTM D2974	PMST/9166		
60157822026	P-13 2-4	ASTM D2974	PMST/9166		
60157822027	P-14 0-2	ASTM D2974	PMST/9166		
60157822028	P-14 2-4	ASTM D2974	PMST/9166		
60157822029	P-15 0-2	ASTM D2974	PMST/9166		
60157822030	P-15 2-4	ASTM D2974	PMST/9166		
60157822031	P-16 0-2	ASTM D2974	PMST/9166		
60157822032	P-16 2-4	ASTM D2974	PMST/9166		
60157822033	P-17 0-2	ASTM D2974	PMST/9171		
60157822034	P-17 2-4	ASTM D2974	PMST/9171		
60157822035	P-18 0-2	ASTM D2974	PMST/9171		
60157822036	P-18 2-4	ASTM D2974	PMST/9171		
60157822037	P-19 0-2	ASTM D2974	PMST/9171		
60157822038	P-19 2-4	ASTM D2974	PMST/9171		
60157822039	P-20 0-2	ASTM D2974	PMST/9171		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: SANGAMON ST ROW 204997.0002

Pace Project No.: 60157822

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60157822040	P-20 2-4	ASTM D2974	PMST/9171		
60157822041	P-21 0-2	ASTM D2974	PMST/9172		
60157822042	P-21 2-4	ASTM D2974	PMST/9172		
60157822043	P-22 0-2	ASTM D2974	PMST/9172		
60157822044	P-22 2-4	ASTM D2974	PMST/9172		
60157822045	P-23 0-2	ASTM D2974	PMST/9172		
60157822046	P-23 2-4	ASTM D2974	PMST/9172		
60157822047	P-24 0-2	ASTM D2974	PMST/9172		
60157822048	P-24 2-4	ASTM D2974	PMST/9172		
60157822049	P-25 0-2	ASTM D2974	PMST/9172		
60157822050	P-25 2-4	ASTM D2974	PMST/9172		
60157822051	P-26 0-2	ASTM D2974	PMST/9172		
60157822052	P-26 2-4	ASTM D2974	PMST/9172		
60157822053	P-27 0-2	ASTM D2974	PMST/9172		
60157822054	P-27 2-4	ASTM D2974	PMST/9172		
60157822055	P-28 0-4	ASTM D2974	PMST/9172		
60157822056	P-29 0-2	ASTM D2974	PMST/9172		
60157822057	P-29 2-4	ASTM D2974	PMST/9172		
60157822058	P-30 0-2	ASTM D2974	PMST/9172		
60157822059	P-30 2-4	ASTM D2974	PMST/9172		
60157822060	P-31 0-2	ASTM D2974	PMST/9172		
60157822061	P-31 2-4	ASTM D2974	PMST/9176		
60157822062	P-32 0-2	ASTM D2974	PMST/9176		
60157822063	P-32 2-4	ASTM D2974	PMST/9176		
60157822064	P-33 0-2	ASTM D2974	PMST/9176		
60157822065	P-33 2-4	ASTM D2974	PMST/9176		
60157822066	P-34 0-2	ASTM D2974	PMST/9176		
60157822067	P-34 2-4	ASTM D2974	PMST/9176		
60157822068	P-35 0-2	ASTM D2974	PMST/9176		
60157822069	P-35 2-4	ASTM D2974	PMST/9176		
60157822070	P-36 0-2	ASTM D2974	PMST/9176		
60157822071	P-36 2-4	ASTM D2974	PMST/9176		
60157822072	DUP1	ASTM D2974	PMST/9176		
60157822073	DUP2	ASTM D2974	PMST/9176		
60157822074	DUP3	ASTM D2974	PMST/9176		
60157822075	DUP4	ASTM D2974	PMST/9176		

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Sample Condition Upon Receipt
ESI Tech Spec Client

WO#: 60157822



60157822

Client Name: BNSF Railway CO TRC

Courier: Fed Ex ☒ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other ☐

Tracking #: 441312275246 Pace Shipping Label Used? Yes ☐ No ☒

Custody Seal on Cooler/Box Present: Yes ☒ No ☐ Seals intact: Yes ☒ No ☐

Packing Material: Bubble Wrap ☐ Bubble Bags ☒ Foam ☐ None ☐ Other ☒ 2 P/C

Thermometer Used: T-238 / T-194

Type of Ice: Wet Blue ☐ None ☐ Samples received on ice, cooling process has begun.
(circle one)

Cooler Temperature: 0.8/1.8/2.2/1.8/1.4/1.6

Date and initials of person examining contents: 11/16/13

Temperature should be above freezing to 6°C

Chain of Custody present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody filled out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler name & signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples arrived within holding time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time analyses (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
Pace containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Containers intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	11.
Unpreserved 5035A soils frozen w/in 48hrs?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	12.
Filtered volume received for dissolved tests?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	13.
Sample labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	14.
Includes date/time/ID/analyses	Matrix: <u>SL</u>	15.
All containers needing preservation have been checked.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	16.
All containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	17.
Exceptions: VOA, coliform, TOC, O&G, WI-DRO (water), Phenolics	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Initial when completed
Trip Blank present:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Lot # of added preservative
Pace Trip Blank lot # (if purchased):		18.
Headspace in VOA vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	19.
Project sampled in USDA Regulated Area:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	20. List State:

Client Notification/ Resolution:

Copy COC to Client? Y / N

Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____

Date: 11/16/13

Temp Log: Record start and finish times when unpacking cooler, if >20 min, recheck sample temps.

Start: <u>1100</u>	Start:
End: <u>1120</u>	End:
Temp:	Temp:

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company: BNSF RAILWAYS CO_TRC		Report To:		Attention:	
Address: 230 W. Monroe St.		Copy To:		Company Name:	
Chicago, IL 60606		Purchase Order No.:		Address:	
Email To: lmcghee@resolutions.com		Project Name: BNSF		Pace Quote Reference:	
Phone: 312 574-0830		Project Number: 204997-0002-0000		Face Project Manager:	
Requested Due Date/TAT: Standard				Pace Profile #:	

Page: 1 of 7

Section D Required Client Information		Valid Matrix Codes		COLLECTED		SAMPLE TEMP AT COLLECTION		# OF CONTAINERS		Preservatives		Analysis Test		Requested Analysis Filtered (Y/N)		Residual Chlorine (Y/N)		Pace Project No./ Lab I.D.	
ITEM #	Matrix Code	Matrix Code	Matrix Code	COMPOSITE START	COMPOSITE END/GRAB	DATE	TIME	DATE	TIME	Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ O ₃	Methanol	Other	Y/N	
1	P-1 0-2	SL	G			11/14/13	1400			2									11/15/13
2	P-1 2-4						1402												11/15/13
3	P-2 0-2						1405												11/15/13
4	P-2 2-4						1406												11/15/13
5	P-3 0-2						1355												11/15/13
6	P-3 2-4						1356												11/15/13
7	P-4 0-2						1350												11/15/13
8	P-4 2-4						1351												11/15/13
9	P-5 0-2						1336												11/15/13
10	P-5 2-4						1337												11/15/13
11	P-6 0-2						1318												11/15/13
12	P-6 2-4						1319												11/15/13

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
	Caroline Boehner / TRC	11/15/13	1300	Caroline Boehner	11/15/13	1330
	Caroline Boehner	11/15	1700	Caroline Boehner	11/16/13	0900

SAMPLER NAME AND SIGNATURE	
PRINT Name of SAMPLER: Caroline Boehner	DATE Signed (MM/DD/YY): 11/15/13
SIGNATURE OF SAMPLER: <i>Caroline Boehner</i>	

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company: BNSF RAILWAYS CO_TRC		Report To:		Attention:	
Address: 230 W. Monroe St.		Copy To:		Company Name:	
Chicago, IL 60606				Address:	
Email To: <u>lmeagher@resolutions.com</u>		Purchase Order No.:		Pace Quote Reference:	
Phone: (312) 573-0870 Fax:		Project Name: BNSF		Pace Project Manager:	
Requested Due Date/TAT: <u>Standard</u>		Project Number: <u>204997.0002.0000</u>		Pace Profile #:	

REGULATORY AGENCY	
<input checked="" type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER	<input type="checkbox"/> UST <input type="checkbox"/> RCRA <input type="checkbox"/> OTHER
Site Location	STATE: IL

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE DW WT WAW WASTE WATER PRODUCT SOLID OIL WIFE AIR OTHER TISSUE	COLLECTED		SAMPLE TYPE (G=GRAB C=COMP)	MATRIX CODE (see valid codes to left)	# OF CONTAINERS	Preservatives H ₂ SO ₄ HNO ₃ HCl NaOH Na ₂ S ₂ O ₃ Methanol Other	Analysis Test Y/N	PAHs EPA 8270 SIM BTX EPA 8260 DRO EPA 8015B	TCEP test TCEP test	Residual Chlorine (Y/N)	Pace Project No./Lab I.D.
			COMPOSITE START	COMPOSITE END/GRAB									
1	P-7 0-2'		DATE	TIME		SL							60157822
2	P-7 2-4'		11/14/13	1330	G	1	2						1W/65A 1W/15A 013
3	P-8 0-2'			1331									014
4	P-8 2-4'			1315									015
5	P-9 0-2'			1316									016
6	P-9 2-4'			1300									017
7	P-10 0-2'			1301									018
8	P-10 2-4'			1341									019
9	P-11 0-2'			1342									020
10	P-11 2-4'			1307									021
11	P-12 0-2'			1308									022
12	P-12 2-4'			1253									023
				1254									024

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION		ACCEPTED BY / AFFILIATION		DATE	TIME	SAMPLE CONDITIONS
	DATE	TIME	DATE	TIME			
Caroline Bucher / TRC	11/15/13	1330	Caroline Bucher	11/15/13	1330		
	11/15	1700	Caroline Bucher	11/15/13	0900		
			Caroline Bucher	11/16/13	0900		
			Caroline Bucher	11/16/13	0900		
			Caroline Bucher	11/16/13	0900		

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company: BNSF RAILWAYS CO_TRC		Report To:		Attention:	
Address: 230 W. Monroe St.		Copy To:		Company Name:	
Chicago, IL 60606				Address:	
Email To: lmeagier@trcsolutions.com		Purchase Order No.:		Pace Quote Reference:	
Phone: (312) 578-0870		Project Name: BNSF		Pace Project Manager:	
Requested Due Date/TAT: Standard		Project Number: 204997.0002.0000		Pace Profile #:	

Section D Required Client Information		Valid Matrix Codes		COLLECTED		SAMPLE TYPE (G=GRAB C=COMP)		MATRIX CODE (see valid codes to left)		SAMPLE TEMP AT COLLECTION		# OF CONTAINERS		Preservatives		Analysis Test ↑		Requested Analysis Filtered (Y/N)		Pace Project No./ Lab I.D.	
ITEM #	Sample ID (A-Z, 0-9 / -)	DRINKING WATER	WASTE WATER	PRODUCT	SOILS	COMPOSITE START	COMPOSITE END/GRAB	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME
1	P-13 0-2'							11/14/13	1245												
2	P-13 2-4'								1246												
3	P-14 0-2'								1235												
4	P-14 2-4'								1236												
5	P-15 0-2'								1230												
6	P-15 2-4'								1231												
7	P-16 0-2'								1223												
8	P-16 2-4'								1224												
9	P-17 0-2'								1115												
10	P-17 2-4'								1116												
11	P-18 0-2'								1125												
12	P-18 2-4'								1126												

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company: BNSF RAILWAYS CO., TRC		Report To:		Attention:	
Address: 230 W. Monroe St.		Copy To:		Company Name:	
Chicago, IL 60606				Address:	
Email To: <u>lmcgheer@tracolutions.com</u>		Purchase Order No.:		Pace Quote Reference:	
Phone: <u>(312) 570-0870</u> Fax:		Project Name: BNSF		Pace Project Manager:	
Requested Due Date/TAT: <u>standard</u>		Project Number: <u>204997-0002-0000</u>		Pace Profile #:	

REGULATORY AGENCY	
<input checked="" type="checkbox"/> NPDES	<input type="checkbox"/> GROUND WATER
<input type="checkbox"/> UST	<input type="checkbox"/> RCRA
<input type="checkbox"/> OTHER	
Site Location:	STATE: IL

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE DW WATER WASTE WATER PRODUCT SOIL/SOLID OIL WIPE AIR OTHER TISSUE	COLLECTED		SAMPLE TYPE (G=GRAB C=COMP)	MATRIX CODE (see valid codes to left)	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives Unpreserved H ₂ SO ₄ HNO ₃ HCl NaOH Na ₂ S ₂ O ₃ Methanol Other	Y/N	Requested Analysis Filtered (Y/N)				Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
			COMPOSITE START	COMPOSITE END/GRAB							DATE	TIME	PAHs EPA 8270 SIM	BTEX EPA 8260		
1	P-19 0-2'			11/15/13	1107	G		2								12/15/13
2	P-19 2-4'				1108											098
3	P-20 0-2'				1130											099
4	P-20 2-4'				1131											040
5	P-21 0-2'				1138											041
6	P-21 2-4'				1139											042
7	P-22 0-2'				0950											043
8	P-22 2-4'				0951											044
9	P-23 0-2'				0942											045
10	P-23 2-4'				0943											046
11	P-24 0-2'				1150											047
12	P-24 2-4'				1151											048

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION		ACCEPTED BY / AFFILIATION		DATE	TIME	SAMPLE CONDITIONS									
	DATE	TIME	DATE	TIME			Temp in °C	Received on	Custody Sealed	Cooler (Y/N)	Samples Intact					
Caroline Becker / TRC	11/15/13	1330	11/15/13	1330	11/15/13	1330										
	11/15	1700	11/15	1700	11/15	1700										

SAMPLER NAME AND SIGNATURE	
PRINT Name of SAMPLER: <u>Caroline Becker</u>	DATE Signed (MM/DD/YY): <u>11/15/13</u>
SIGNATURE of SAMPLER: <u>Caroline Becker</u>	

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A

Required Client Information:

Company: BNSF RAILWAYS CO_TRC

Address: 230 W. Monroe St.

City: Chicago, IL 60606

Phone: (312) 578-0870

Fac: [blank]

Requested Due Date/TAT: Standard

Section B

Required Project Information:

Report To:

Copy To:

Purchase Order No.:

Project Name: BNSF

Project Number: 204997.0002.0000

Section C

Invoice Information:

Attention:

Company Name:

Address:

Pace Quote Reference:

Pace Project Manager:

Pace Profile #:

REGULATORY AGENCY

☒ NPDES ☐ GROUND WATER ☐ DRINKING WATER

☐ UST ☐ RCRA ☐ OTHER

Site Location: IL

STATE:

Requested Analysis Filtered (Y/N)

Analysis Test

Preservatives

NaOH

HCl

HNO₃

H₂SO₄

Unpreserved

Other

Methanol

Na₂S₂O₃

Analysis Test

PAHs EPA 8270 SIM

BTEX EPA 8260

DRO EPA 8015B

Total test

Total test

Residual Chlorine (Y/N)

Pace Project No./ Lab I.D.

12/1/13 12/1/13 009

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Section D

Required Client Information:

Valid Matrix Codes

MATRIX CODE

DRINKING WATER

WASTE WATER

PRODUCT

SOILSOLID

OIL

WIPE

AIR

OTHER

TISSUE

TS

CODE

DW

WT

WW

P

SL

OL

WP

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ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Christina Jones / HPL	11/15/13	1330	Aggarwal	11/15/13	1330	
	Aggarwal	11/15	1700	PC/5-01010101			
				PC/5-01010101	11/14/13	0900	✓
				PAST	11/14/13	0900	✓

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Section A Required Client Information:						Section B Required Project Information:								Section C Invoice Information							
Company:			BNSF RAILWAYS CO_TRC			Report To:									Attention:						
Address:			230 W. Monroe St.			Copy To:									Company Name:						
			Chicago, IL 60606																		
Email To:			lamminger@resolution.com			Purchase Order No.:									Pace Quote Reference:						
Phone: (312) 578-0840						Project Name:									Pace Project Manager:						
Fax:						BNSF									Pace Profile #:						
Requested Due Date/TAT:			Standard			Project Number:									204997.0002.0000						

[illegible]