



RECEIVED

DEC 1 2014

November 25, 2014

BUREAU OF
ENVIRONMENTAL REMEDIATION

Ms. Holly Burke
State Cooperative Program/Remedial Section
Kansas Department of Health and Environment
1000 SW Jackson Street, Suite 410
Topeka, Kansas 66612-1367

APPROVED

1/28/15 H.B.

RE: **Catchment Dike System Compliance Sampling Report** ^{Sept.} ~~October~~ 2014
National Zinc Smelter Site, Cherryvale, Kansas

Dear Ms. Burke,

On September 11, 2014 Project Navigator, Ltd. on behalf of United States Steel Corporation (USS) and Citigroup Global Market Holdings, Inc. (Respondents), completed an inspection of the Drum Creek Catchment Dike System (CDS) and collected three composite sediment samples for laboratory analysis as part of the agreed-upon bi-annual compliance monitoring. The work was performed by Philip Jen, P.G. of Project Navigator, Ltd.

The results of the inspection, the sediment collection methodology and associated analytical results, including a comparison to the results of the samples taken during previous sampling events are provided in this letter report.

Inspection

The location of the CDS is provided in Figure 1. Water depth between the dikes was approximately 1 foot deep measured at the inside of the upstream catchment dike at the time of inspection and flow was low. The catchment was observed to be in good condition, however, two small trees were observed within the catchment. The upstream dike did not appear to have sustained any damage. However, the downstream dike appears to have a displaced gabion. Despite the displaced gabion, the dike itself appears to be intact as the gabion that was positioned behind the displaced one is intact. As there is no immediate need for repairs, the replacement of the displaced gabion will coincide with a future mobilization of field crew and equipment to the catchment dike. The trees were left in place as they do not appear to pose any danger to the catchment and will likely pass on downstream during a future storm event. With the exception of the displaced gabion on the downstream dike no other washouts were observed along or around the edges of the dikes. Depictions of the sampling locations are provided in Figure 2 and photos of the catchment are provided in Figure 3. A photo of the displaced gabion on the downstream dike is provided in Figure 4.

Minimal accumulated sediment was observed within the catchment with sediment primarily trapped on the downstream gabion.

Analytical Sampling and Results

The sampling locations and representative sediment photographs are depicted in Figures 2 and 3. Samples consisted of poorly sorted medium grained gravel, with minor sand and silt. Minor organic materials consisting of wood and leaf debris were observed.

Samples were collected with a retriever scoop, placed into 5 gallon buckets and homogenized prior to placement in 4 ounce sample jars provided by the laboratory. Samples were composites of accumulated sediment from random points across the area of accumulation; to the extent the locations were accessible. Water present in the samples was slowly decanted from the sample container following collection. Samples contained minimal excess water. Sample containers were then sealed and deposited into a cooler with ice for shipment to the laboratory for analysis.

The Respondents' samples were submitted to PACE Analytical Laboratory for analysis of cadmium, arsenic, lead and zinc. The laboratory was instructed to grind the entire sample prior to analyses. Results are compared to the consensus-based sediment quality guidelines developed for the site (CBG). Historical values for all samples collected by the Respondents are presented in Table 1. The laboratory reports for the current sampling events are included in Attachment 1.

The current sample results with a comparison with previous sample events are shown on the following page. Values above the CBG are in red font.

	Sample ID	Date	Arsenic (mg/kg)	Cadmium (mg/kg)	Lead (mg/kg)	Zinc (mg/kg)
Upstream	SD-20	March 2011	38.6	4.6	57.4	500
	SD-23	August 2011	20.3	< 2.7	44.5	612
	SD-26	March 2012	78.3	4.9	75.2	766
	SD-29	August 2012	20.8	3.6	45.6	489
	SD-32	February 2013	44.6	< 2.4	33.6	538
	SD-35	October 2013	70.2	6.9	49.2	758
	SD-38	March 2014	7.1	0.71	424	226
	SD-41	September 2014	83.5	3.1	81.8	839
Midstream	SD-19	March 2011	31.9	6.1	36.4	343
	SD-22	August 2011	10	< 1.1	42.1	596
	SD-25	March 2012	5.9	< 0.55	13.7	41.3
	SD-28	August 2012	20	3.3	35.2	463
	SD-31	February 2013	28.3	8.1	131	695
	SD-34	October 2013	70.7	5.4	70.5	685
	SD-37	March 2014	68	3.2	54.7	638
	SD-40	September 2014	67	<3.2	54.5	624
Downstream	SD-18	March 2011	47.2	6.1	61.4	475
	SD-21	August 2011	12.1	< 0.89	13.3	280
	SD-24	March 2012	< 5.1	< 2.5	13.8	93.5
	SD-27	August 2012	20.7	3.7	50.7	611
	SD-30	February 2013	46.8	< 5.0	49.4	589
	SD-33	October 2013	87.3	< 2.2	58.8	697
	SD-36	March 2014	55	3.2	76.1	753
	SD-39	September 2014	116	< 4.2	87.1	751
Consensus Based Guideline			33	4.98	128	459

Analytical Summary

Upstream: The concentration of zinc and arsenic was detected above the CBG in the upstream catchment segment while the cadmium and lead concentrations were detected below the CBG. As discussed in the previous report, the sample collected in March 2014 may be an outlier due to the significant shift in arsenic, lead, and zinc when compared to historic concentrations as well as concentrations observed in both the midstream and downstream samples.

Between: The concentration of zinc and arsenic was detected above the CBG in the upstream catchment segment while the cadmium and lead concentrations were detected below the CBG.

Ms. Holly Burke, KDHE
Drum Creek Catchment Sampling
November, 2014

Downstream: The concentration of zinc and arsenic was detected above the CBG in the downstream catchment segment while the cadmium and lead concentrations were detected below the CBG.

Analyses of all results show the average of cadmium and lead are below the consensus-based sediment quality guidelines while the arsenic and zinc concentration were above the guidelines for the site. A table of the sediment sample result summaries is available in Table 1.

The historical data shows fluctuations with no obvious pattern from which to conclude a definite cause for the variation. Variation in sediment concentrations could be the result of a combination of potential sources including: wastewater discharges, surface runoff from adjacent farmlands, metal containing debris, as well as naturally occurring concentrations from the indigenous geology.

The CDS appears to be functioning as designed to catch sediment traveling downstream in Drum Creek. We will continue to monitor the sediment accumulation as part of the periodic inspection and maintenance of the CDS.

Sincerely,



Mark Landress P.G. Kansas Licensed Geologist No. 793
Project Navigator, Ltd.

Attachment

Cc: William C. Anderson, Doerner, Saunders, Daniel & Anderson, L.L.P.
Mark S. Weber, United States Steel Corporation
Mark Rupnow, United States Steel Corporation
Andrew G. Thiros, United States Steel Corporation
Mike Stoub, ENTACT
Philip Jen, PNL

TABLES

TABLE 1

Drum Creek Catchment Sediment Sample Result Summary
Former National Zinc Smelter Site
Cherryvale, Kansas
Respondent's Sampling

Consensus Based Result Limit (ppm)

33	4.98	128	459
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Sample Location	Sample ID	Date	Arsenic	Cadmium	Lead	Zinc	Note
Upstream of Dikes	NS	8/1/2007					Not Sampled
Upstream of Dikes	NS	10/24/2007					Not Sampled
Upstream of Dikes	NS	2/14/2008					Not Sampled
Upstream of Dikes	SD-006-01	9/24/2008	17.5	2.2	23.3	332	Periodic Sample
Upstream of Dikes	SD-008	2/26/2009	37.7	0.94	42.4	487	Periodic Sample
Upstream of Dikes	SD-011	9/3/2009	41.1	5	54.6	499	Periodic Sample
Upstream of Dikes	SD-012	3/17/2010	27	2.8	62.4	678	Periodic Sample
Upstream of Dikes	SD-17	10/11/2010	36.5	2.5	55.6	477.0	Periodic Sample
Upstream of Dikes	SD-20	3/29/2011	38.6	4.6	57.4	500.0	Periodic Sample
Upstream of Dikes	SD-23	8/3/2011	20.3	2.7	44.5	612	Periodic Sample
Upstream of Dikes	SD-26	3/9/2012	78.3	4.9	75.2	766	Periodic Sample
Upstream of Dikes	SD-29	8/28/2012	20.8	3.6	45.6	489	Periodic Sample
Upstream of Dikes	SD-32	2/19/2013	44.6	2.4	33.6	538	Periodic Sample
Upstream of Dikes	SD-35	10/1/2013	70.2	6.9	49.2	758	Periodic Sample
Upstream of Dikes	SD-38	3/19/2014	7.1	0.71	424	226	Periodic Sample
Upstream of Dikes	SD-41	9/11/2014	83.5	3.1	81.8	839	Periodic Sample

Sample Location	Sample ID	Date	Arsenic	Cadmium	Lead	Zinc	Note
Between Dikes	NS	8/1/2007					Not Sampled
Between Dikes	NS	10/24/2007					Not Sampled
Between Dikes	NS	2/14/2008					Not Sampled
Between Dikes	SD-005-01	9/24/2008	10	0.93	15.9	45.2	Periodic Sample
Between Dikes	NS	2/26/2009					Not Sampled
Between Dikes	SD-010	9/3/2009	28.4	5.7	34.9	376	Periodic Sample
Between Dikes	SD-013	3/17/2010	35.1	3.1	66.1	695	Periodic Sample
Between Dikes	SD-16	10/11/2010	26.2	1.2	24.4	273	Periodic Sample
Between Dikes	SD-19	3/29/2011	31.9	6.1	36.4	343	Periodic Sample
Between Dikes	SD-22	8/3/2011	10.0	1.1	42.1	596	Periodic Sample
Between Dikes	SD-25	3/9/2012	5.9	0.55	13.7	41.3	Periodic Sample
Between Dikes	SD-28	8/28/2012	20	3.3	35.2	463	Periodic Sample
Between Dikes	SD-31	2/19/2013	28.3	8.1	131	695	Periodic Sample
Between Dikes	SD-34	10/1/2013	70.7	5.4	70.5	685	Periodic Sample
Between Dikes	SD-37	3/19/2014	68	3.2	54.7	638	Periodic Sample
Between Dikes	SD-40	9/11/2014	67	3.2	54.5	624	Periodic Sample
AVERAGE BETWEEN DIKES			33.5	3.5	48.3	456	

Sample Location	Sample ID	Date	Arsenic	Cadmium	Lead	Zinc	Note
Downstream of Dikes	SD-001	8/1/2007	9.9	2.1	15.4	155	Baseline
Downstream of Dikes	SD-002	10/24/2007	14	5.6	35.1	508	Initial post remedial
Downstream of Dikes	SD-003-1	2/14/2008	22.4	3.4	40	318	Periodic Sample
Downstream of Dikes	SD-004-01	9/24/2008	9.6	1	16.6	108	Periodic Sample
Downstream of Dikes	SD-007	2/26/2009	14	6.2	40.5	414	Periodic Sample
Downstream of Dikes	SD-009	9/3/2009	38.8	4.8	65.4	533	Periodic Sample
Downstream of Dikes	SD-014	3/17/2010	19.3	3	36.6	511	Periodic Sample
Downstream of Dikes	SD-15	10/11/2010	51.6	5.1	57.7	915	Periodic Sample
Downstream of Dikes	SD-18	3/29/2011	47.2	6.1	61.4	475	Periodic Sample
Downstream of Dikes	SD-21	8/3/2011	12.1	0.9	13.3	280	Periodic Sample
Downstream of Dikes	SD-24	3/9/2012	5.1	2.5	13.8	93.5	Periodic Sample
Downstream of Dikes	SD-27	8/28/2012	20.7	3.7	50.7	611	Periodic Sample
Downstream of Dikes	SD-30	2/19/2013	46.8	5	49.4	589	Periodic Sample
Downstream of Dikes	SD-33	10/1/2013	87.3	2.2	58.8	697	Periodic Sample
Downstream of Dikes	SD-36	3/19/2014	55	3.2	76.1	753	Periodic Sample
Downstream of Dikes	SD-39	9/11/2014	116	4.2	87.1	751	Periodic Sample

NS = No Sample

Italics = result at or below detection limit

All results mg/kg (ppm)

Bold - Above PEC

Consensus Based Result Limit PEC (ppm)

Consensus Limit ppm

33	4.98	128	459
Arsenic	Cadmium	Lead	Zinc

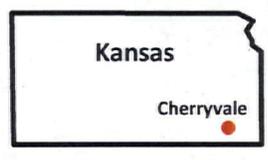
Total Project Average

36.5	3.5	57.2	497.2
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Pre Remedial

Sample Location	Sample ID	Date	Arsenic	Cadmium	Lead	Zinc	Note
5100 Bridge	5100 Bridge	11/22/2005	61.35	7.5	50.2	755	Pre Remediation
4200 Road Bridge	4200 Road Bridge	11/22/2005	33.9	4.72	46	459	Pre Remediation
low water crossing	S17-D10	6/24/2003	18.5	14.3	48.2	517	Pre Remediation

FIGURES



**Catchment Dike Sediment Sampling
Cherryvale, KS**

Location Map



Figure 2

Drum Creek Catchment Sample Locations

September 11, 2014

Schematic layout of sample locations and accumulated sediment, Drum Creek Catchment, Montgomery County, KS

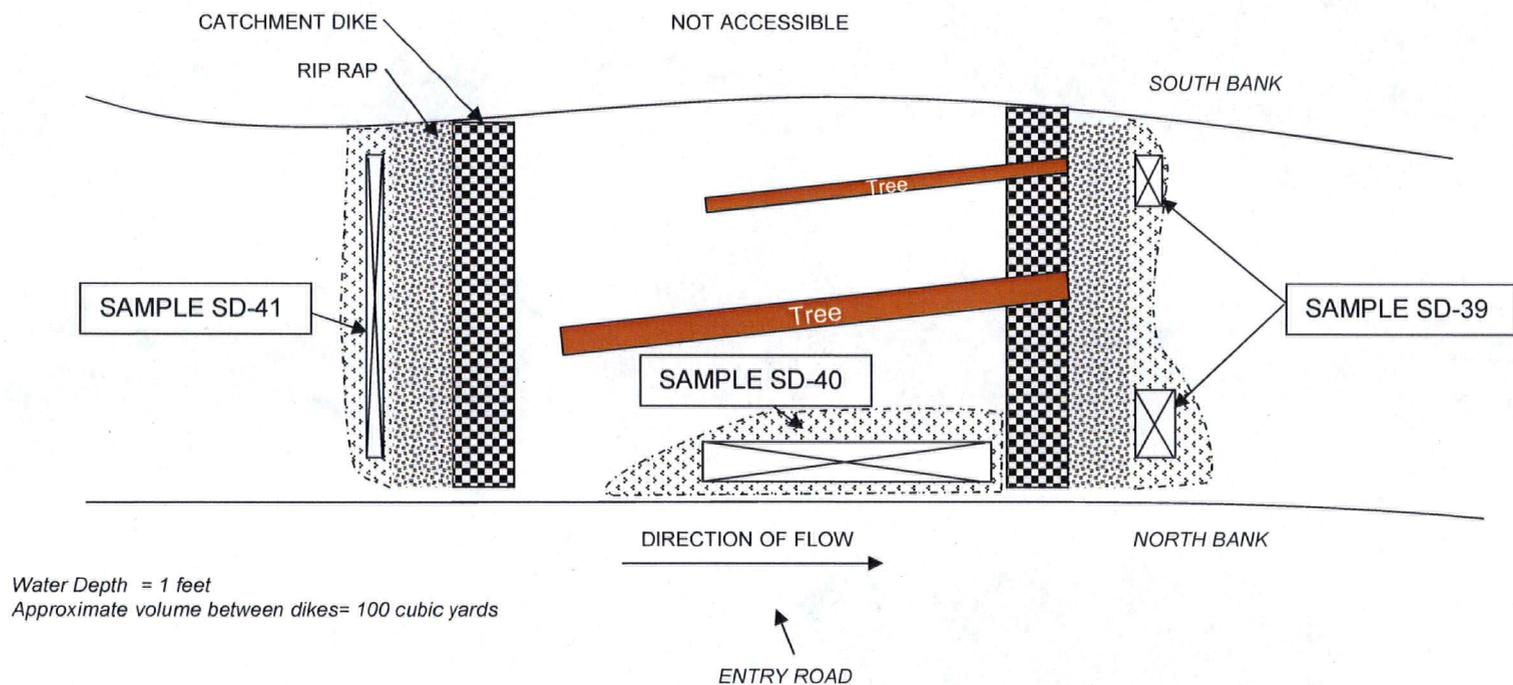
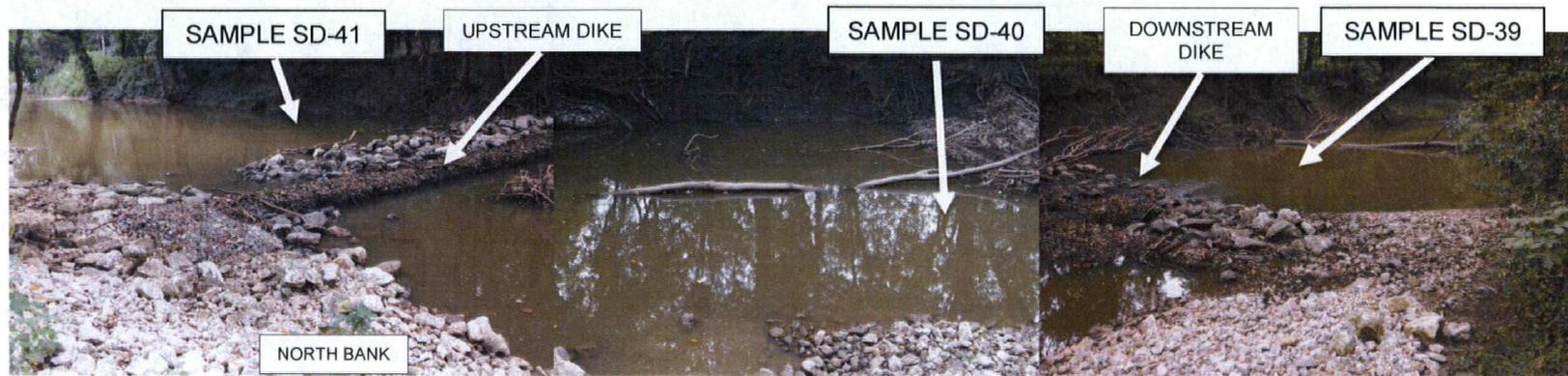


Figure 3 Drum Creek Catchment Sample Locations September 11, 2014



DIRECTION OF FLOW --->

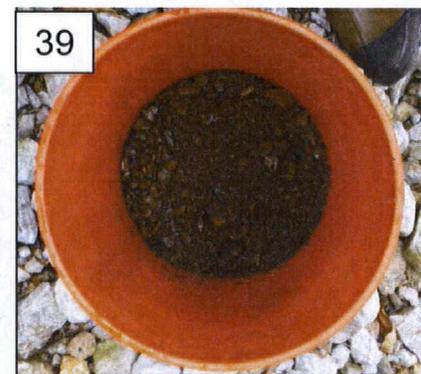
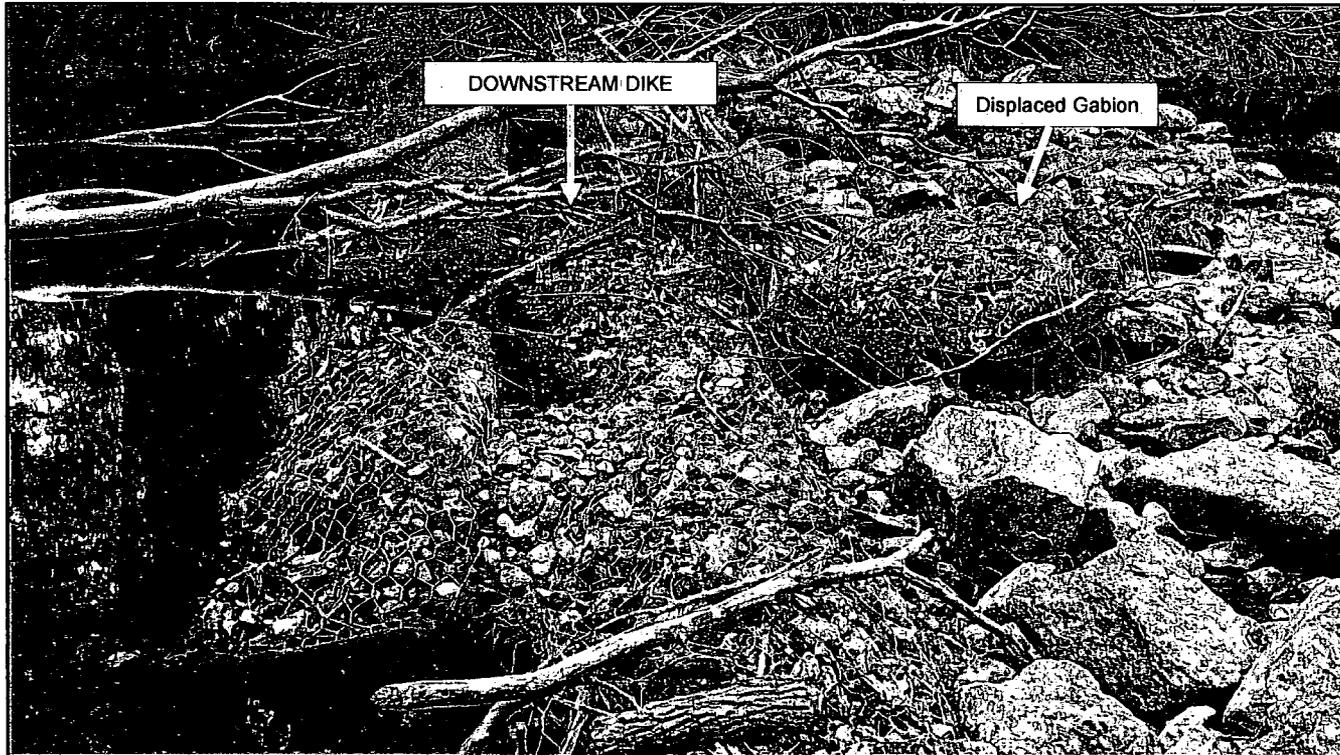


Figure 4
Drum Creek Catchment Downstream Dike
September 11, 2014



DIRECTION OF FLOW --->

ATTACHMENTS



Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

September 22, 2014

Mark Landress
Project Navigator, Ltd.
10497 Town and Country Way
Suite 830
Houston, TX 77024

RE: Project: NATIONAL ZINC
Pace Project No.: 60177889

Dear Mark Landress:

Enclosed are the analytical results for sample(s) received by the laboratory on September 12, 2014. 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,

Jamie Church
jamie.church@pacelabs.com
Project Manager

Enclosures

cc: Philip Jen, Project Navigator, Ltd.



REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

CERTIFICATIONS

Project: NATIONAL ZINC
Pace Project No.: 60177889

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
Utah Certification #: KS00021

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: NATIONAL ZINC
Pace Project No.: 60177889

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60177889001	SD-39	Solid	09/11/14 09:30	09/12/14 09:00
60177889002	SD-40	Solid	09/11/14 09:35	09/12/14 09:00
60177889003	SD-41	Solid	09/11/14 09:40	09/12/14 09:00

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SAMPLE ANALYTE COUNT

Project: NATIONAL ZINC
Pace Project No.: 60177889

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60177889001	SD-39	EPA 6010	TDS	4	PASI-K
		ASTM D2974	DWC	1	PASI-K
60177889002	SD-40	EPA 6010	TDS	4	PASI-K
		ASTM D2974	DWC	1	PASI-K
60177889003	SD-41	EPA 6010	TDS	4	PASI-K
		ASTM D2974	DWC	1	PASI-K

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ANALYTICAL RESULTS

Project: NATIONAL ZINC
Pace Project No.: 60177889

Sample: SD-39 Lab ID: 60177889001 Collected: 09/11/14 09:30 Received: 09/12/14 09:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Red. Interference		Analytical Method: EPA 6010 Preparation Method: EPA 3050						
Arsenic	116 mg/kg		4.2	5	09/18/14 11:22	09/19/14 11:14	7440-38-2	
Cadmium	ND mg/kg		4.2	10	09/18/14 11:22	09/19/14 11:39	7440-43-9	D3
Lead	87.1 mg/kg		8.4	10	09/18/14 11:22	09/19/14 11:39	7439-92-1	
Zinc	751 mg/kg		84.2	10	09/18/14 11:22	09/19/14 11:39	7440-66-6	
Percent Moisture		Analytical Method: ASTM D2974						
Percent Moisture	13.9 %		0.50	1		09/17/14 00:00		

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ANALYTICAL RESULTS

Project: NATIONAL ZINC
Pace Project No.: 60177889

Sample: SD-40 Lab ID: 60177889002 Collected: 09/11/14 09:35 Received: 09/12/14 09:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Red. Interference		Analytical Method: EPA 6010 Preparation Method: EPA 3050						
Arsenic	67.0	mg/kg	3.2	5	09/18/14 11:22	09/19/14 11:16	7440-38-2	
Cadmium	ND	mg/kg	3.2	10	09/18/14 11:22	09/19/14 11:42	7440-43-9	D3
Lead	54.5	mg/kg	6.3	10	09/18/14 11:22	09/19/14 11:42	7439-92-1	
Zinc	624	mg/kg	63.2	10	09/18/14 11:22	09/19/14 11:42	7440-66-6	
Percent Moisture		Analytical Method: ASTM D2974						
Percent Moisture	14.0	%	0.50	1		09/17/14 00:00		

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ANALYTICAL RESULTS

Project: NATIONAL ZINC
Pace Project No.: 60177889

Sample: SD-41 Lab ID: 60177889003 Collected: 09/11/14 09:40 Received: 09/12/14 09:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Red. Interference		Analytical Method: EPA 6010 Preparation Method: EPA 3050						
Arsenic	83.5	mg/kg	4.3	5	09/18/14 11:22	09/19/14 11:18	7440-38-2	
Cadmium	3.1	mg/kg	2.2	5	09/18/14 11:22	09/19/14 11:18	7440-43-9	
Lead	81.8	mg/kg	4.3	5	09/18/14 11:22	09/19/14 11:18	7439-92-1	
Zinc	839	mg/kg	43.4	5	09/18/14 11:22	09/19/14 11:18	7440-66-6	
Percent Moisture		Analytical Method: ASTM D2974						
Percent Moisture	19.9	%	0.50	1		09/17/14 00:00		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: NATIONAL ZINC
Pace Project No.: 60177889

QC Batch: MPRP/28949 Analysis Method: EPA 6010
QC Batch Method: EPA 3050 Analysis Description: 6010 MET
Associated Lab Samples: 60177889001, 60177889002, 60177889003

METHOD BLANK: 1444221 Matrix: Solid
Associated Lab Samples: 60177889001, 60177889002, 60177889003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/kg	ND	1.0	09/19/14 10:35	
Cadmium	mg/kg	ND	0.50	09/19/14 10:35	
Lead	mg/kg	ND	1.0	09/19/14 10:35	
Zinc	mg/kg	ND	10.0	09/19/14 10:35	

LABORATORY CONTROL SAMPLE: 1444222

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	100	94.4	94	80-120	
Cadmium	mg/kg	100	96.9	97	80-120	
Lead	mg/kg	100	97.8	98	80-120	
Zinc	mg/kg	100	100	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1444223 1444224

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual	
		60177772005 Result	Spike Conc.	Spike Conc.	MS Result						MSD Result
Arsenic	mg/kg	5.5	105	111	105	111	94	94	75-125	6	20
Cadmium	mg/kg	0.56	105	111	103	109	97	97	75-125	5	20
Lead	mg/kg	10.8	105	111	110	116	94	95	75-125	6	20
Zinc	mg/kg	63.1	105	111	160	169	91	96	75-125	6	20

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALITY CONTROL DATA

Project: NATIONAL ZINC
Pace Project No.: 60177889

QC Batch: PMST/10029 Analysis Method: ASTM D2974
QC Batch Method: ASTM D2974 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 60177889001, 60177889002, 60177889003

METHOD BLANK: 1444009 Matrix: Solid
Associated Lab Samples: 60177889001, 60177889002, 60177889003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Percent Moisture	%	ND	0.50	09/17/14 00:00	

SAMPLE DUPLICATE: 1444010

Parameter	Units	60177901006 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	16.9	15.4	9	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: NATIONAL ZINC
Pace Project No.: 60177889

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.

PQL - Practical Quantitation 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.

LABORATORIES

PASI-K Pace Analytical Services - Kansas City

ANALYTE QUALIFIERS

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

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: NATIONAL ZINC
Pace Project No.: 60177889

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60177889001	SD-39	EPA 3050	MPRP/28949	EPA 6010	ICP/21813
60177889002	SD-40	EPA 3050	MPRP/28949	EPA 6010	ICP/21813
60177889003	SD-41	EPA 3050	MPRP/28949	EPA 6010	ICP/21813
60177889001	SD-39	ASTM D2974	PMST/10029		
60177889002	SD-40	ASTM D2974	PMST/10029		
60177889003	SD-41	ASTM D2974	PMST/10029		

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt

WO#: 60177889



60177889

Client Name: Project Navigator

Courier: Fed Ex [checked] UPS [] USPS [] Client [] Commercial [] Pace [] Other []

Tracking #: 8540 7504 5430 Pace Shipping Label Used? Yes [] No [checked]

Custody Seal on Cooler/Box Present: Yes [checked] No [] Seals intact: Yes [checked] No []

Packing Material: Bubble Wrap [checked] Bubble Bags [] Foam [] None [] Other []

Thermometer Used: T-239 / T-194 Type of Ice: [checked] Blue None [] Samples received on ice, cooling process has begun.

Cooler Temperature: 4.0

Optional
Proj Due Date:
Proj Name:

Date and initials of person examining contents: [initials] 9/12/14 1445

Temperature should be above freezing to 6°C

Table with 17 rows of inspection items and checkboxes. Items include Chain of Custody, Short Hold Time analyses, Rush Turn Around Time, etc.

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N

Person Contacted: Date/Time:

Comments/ Resolution:

Project Manager Review: [Signature] 9/15/14 Date:

