



ENVision Laboratories, Inc.
1439 Sadlier Circle West Drive
Indianapolis, IN 46239
Tel: 317.351.8632
Fax: 317.351.8639
www.envisionlaboratories.com

Mr. Josh Randall
QEPI
1611 South Franklin Road
Indianapolis, IN 46239

November 13, 2015

ENVision Project Number: 2015-2916
Client Project Name: 13-09-035 Seerley Road Site

Dear Mr. Randall,

Please find the attached analytical report for the samples received November 11, 2015. All test methods performed were fully compliant with local, state, and federal EPA methods unless otherwise noted. The project was analyzed as requested on the enclosed chain of custody record. Please review the comments section for additional information about your results or Quality Control data.

Feel free to contact me if you have any questions or comments regarding your analytical report or service.

Thank you for your business. ENVision Laboratories looks forward to working with you on your next project.

Yours Sincerely,

A handwritten signature in black ink that reads "David Norris". The signature is written in a cursive, flowing style.

David Norris

Client Services Manager
ENVision Laboratories, Inc.



Client Name: QEPI
Project ID: SEERLEY ROAD SITE
Client Project Manager: JOSH RANDALL
ENVision Project Number: 2015-2916

Analytical Method: EPA 6010B
Prep Method: EPA 3050B

Client Sample ID: DRUM-1 102115 **Sample Collection Date/Time:** 10/21/15
Envision Sample Number: 15-22536 **Sample Received Date/Time:** 11/11/15 16:35
Sample Matrix: soil

<u>Compounds</u>	<u>Sample Results (mg/kg)</u>	<u>Reporting Limit (mg/kg)</u>	<u>Flags</u>
Aluminum	3,700	5	
Antimony	< 2	2	
Arsenic	2.5	2	
Barium	17	2	
Beryllium	< 2	1	
Boron	35	2	
Cadmium	3.0	2	
Chromium	11	2	
Cobalt	< 2	2	
Copper	12	2	
Iron	3,250	5	
Lead	10	2	
Magnesium	910	5	
Manganese	43	2	
Molybdenum	< 2	2	
Nickel	9.5	2	
Phosphorus	< 5	5	
Selenium	< 2	2	
Silver	< 2	2	
Thallium	< 2	2	
Vanadium	< 2	2	

Analysis Date/Time: 11-12-15/21:40
Analyst Initials: gjd
Date Digested: 11/11/2015
Initial Sample Weight: 1.0 g
Final Volume: 50 mL
Analytical Batch: 111215icp

Analytical Method: EPA 7471A

<u>Compounds</u>	<u>Sample Results (mg/kg)</u>	<u>Reporting Limit (mg/kg)</u>	<u>Flags</u>
Mercury	< 1	1	

Hg Analysis Date/Time: 11-13-15/12:51
Hg Analyst Initials: ajg
Date Digested: 11/13/2015
Initial Sample Weight: 0.6 g
Final Volume: 50 mL
Analytical Batch: 111315hg

All results reported on "as received" basis.



Element Materials Technology - Daleville
9301 Innovation Drive
Daleville, IN 47334
TEL: (765) 378-4103 FAX: (765) 378-4109
Website: www.element.com

November 13, 2015

Cheryl Crum
ENVision Laboratories
1439 Sadlier Circle West
Indianapolis, IN 46239
TEL: (317) 351-8632
FAX:

RE: 2015-2916

Order No.: 15111279

Dear Cheryl Crum:

Element Materials Technology - Daleville received 1 sample(s) on 11/12/2015 for the analyses presented in the following report.

In accordance with your instructions, Element Materials Technology Indiana conducted the analysis shown on the following pages on samples submitted by your company. The results relate only to the items tested. Unless otherwise noted, all analysis was conducted using approved methodologies from EPA, SM, or other client-specified methods. All relevant sampling information is on the attached chain-of-custody form. The initials SUB as the analyst designate any testing sub-contracted by Element Materials Technology Indiana.

Certifications/Accreditation: IN# C-18-02 IN# M-18-5. A scope of Certified/Accredited parameters is available upon request.

This report shall not be reproduced except in full, without the written approval of the laboratory.

If you have any questions regarding these test results, please feel free to call.

Sincerely,

A handwritten signature in black ink that reads "Serena Shane".

Serena Shane
Project Manager
9301 Innovation Drive
Daleville, IN 47334

CC:
Dave Norris



Element Materials Technology - Daleville
9301 Innovation Drive
Daleville, IN 47334
TEL: (765) 378-4103 FAX: (765) 378-4109
Website: www.element.com

Case Narrative

WO#: 15111279

Date: 11/13/2015

CLIENT: ENVision Laboratories

Project: 2015-2916

This report has been re-issued as an amended report – The collection date and sample ID has been corrected per client.



Element Materials Technology - Daleville
 9301 Innovation Drive
 Daleville, IN 47334
 TEL: (765) 378-4103 FAX: (765) 378-4109
 Website: www.element.com

Analytical Report

(continuous)

WO#: 15111279

Date Reported 11/13/2015

CLIENT: ENVision Laboratories

Lab Order: 15111279

Project: 2015-2916

Lab ID: 15111279-001

Collection Date: 10/21/2015

Client Sample ID: 15-2236/Drum-1

Matrix: SOLID

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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METALS IN SOLID BY ICP, 3050B PREP

SW6010C

Analyst: CXC

Calcium	141,000	2,360		mg/Kg	25	11/13/2015 8:34:30 AM
Lithium	1.51	1.42		mg/Kg	1	11/13/2015 8:34:30 AM
Potassium	150,000	2,360		mg/Kg	25	11/13/2015 8:34:30 AM
Sodium	29,900	94.3		mg/Kg	1	11/13/2015 8:34:30 AM

METALS IN SOLIDS BY ICP-MS, 3050B PREP

SW6020

Analyst: CXC

Tin	< 0.566	0.566		mg/Kg	10	11/13/2015 8:39:20 AM
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Qualifiers:

H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 PQL Practical Quantitation Limit

M Manual Integration used to determine area response
 PL Permit Limit
 RL Reporting Detection Limit

EMENT



ENVISSION Proj#: 2015-2916 Page 1 of 1
15/11/279

CHAIN OF CUSTODY RECORD

ENVISSION Laboratories, Inc. | 1439 Sadlier Circle West Drive | Indianapolis, IN 46239 | Phone: (317) 351-8632 | Fax: (317) 351-8639

Client: ENVISSION Lab	Invoice Address: See Above	REQUESTED PARAMETERS	
Report Address: See Above	Project Name: 2015-2916	 Potassium Lithium Sodium Manganese	
Report To: David Norris	Lab Contact:		
Phone: See Above	Sampled by:		
Fax:	P.O. Number:		
Desired TAT: (Please Circle One)	QA/QC Required: (circle if applicable)		
1-2 days 3-6 days Std (7 bus. days)	Level III Level IV		

Please indicate number of containers per preservative below

Sample ID	Coll. Date	Coll. Time	Comp (C) Grab (G)	Matrix	HC	HNO ₃	H ₂ SO ₄	NaOH	Other	None	ENVISSION Sample ID
15-22526/Drum-1	10/29/15		6	Solid							

SAMPLE ACCEPTED
AS RECEIVED

Comments: PUSH DOW 11/13/15 Please!

Relinquished by: Ed Cor	Date: 11-12-15	Time: 1004
Received by: [Signature]	Date: 11/24/15	Time: 1004



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EPA 6010B/7471A Metals Quality Control Data

ENVision Batch Number: 111215icp/111315hg

<u>Method Blank (MB):</u>	<u>MB Results (mg/kg)</u>	<u>Rep Lim (mg/kg)</u>	<u>Flag</u>
Aluminum	< 5	5	
Antimony	< 2	2	
Arsenic	< 2	2	
Barium	< 2	2	
Beryllium	< 0.5	0.5	
Boron	< 2	2	
Cadmium	< 2	2	
Chromium	< 2	2	
Cobalt	< 2	2	
Copper	< 2	2	
Iron	< 5	5	
Lead	< 2	2	
Magnesium	< 5	5	
Manganese	< 2	2	
Mercury	< 1	1	
Molybdenum	< 2	2	
Nickel	< 2	2	
Selenium	< 2	2	
Thallium	< 2	2	
Vanadium	< 2	2	
Zinc	< 2	2	

Analysis Date/Time: 11-12-15/16:44icp/11-13-15

Analyst Initials: gjd



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<u>Laboratory Control Standard:</u>	<u>LCS Results (mg/kg)</u>	<u>LCS Conc(mg/kg)</u>	<u>% Rec</u>	<u>Flag</u>
Aluminum	0.58	0.50	116%	
Antimony	0.56	0.50	112%	
Arsenic	0.49	0.50	98%	
Barium	0.50	0.50	100%	
Beryllium	0.51	0.50	102%	
Boron	0.51	0.50	102%	
Cadmium	0.49	0.50	98%	
Chromium	0.50	0.50	100%	
Cobalt	0.10	0.10	100%	
Copper	0.54	0.50	108%	
Iron	0.54	0.50	108%	
Lead	0.51	0.50	102%	
Magnesium	0.48	0.50	96%	
Manganese	0.52	0.50	104%	
Mercury	0.005455	0.50	109%	
Molybdenum	0.50	0.50	100%	
Nickel	0.51	0.50	102%	
Selenium	0.45	0.50	90%	
Silver	0.55	0.50	110%	
Thallium	0.54	0.50	108%	
Vanadium	0.52	0.50	104%	
Zinc	0.42	0.50	84%	
Analysis Date/Time:	11-12-15/16:41cp/11-13-15/12:48			
Analyst Initials:	gjd			



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Flag Number

Comments



QUALITY ENVIRONMENTAL PROFESSIONALS, INC.

CHAIN OF CUSTODY RECORD

2015-2916

Project Name:	Secley Road Site		Laboratory:		
Job #:	B-09-035	Sampled By:			
Report To:	Quality Environmental Professionals, Inc. 1611 South Franklin Road • PHONE 317.351.4255 Indianapolis, IN 46239 • FAX 317.351.4265				
Attention: <i>Jak Randall</i>					

Sample Description	Date	Time	Comp	Garb	Sample (Matrix)		Analyses Requested			
					Total	Metals				

<i>Burn - 1 102115</i>	<i>10/29/15</i>				<i>X</i>	<i>SAW</i>	<i>X</i>									<i>15-20536</i>	Date Results Requested By: <i>24-hr</i> <input checked="" type="checkbox"/> Please return original copy of Chain Of Custody Record to QEPi <input checked="" type="checkbox"/> We request that you submit chromatographs with all laboratory results, plus QAVQC documentation.	Remarks <i>*Do not ship sample</i> <i>*Possibly water reactive</i>	Temperature When Shipped Total # of Containers <i>3</i>
Retrieved By: (Signature)	<i>Jak Randall</i>		Date/Time	<i>11/11/15</i>	USE	Received By: (Signature)	<i>Bruce Good</i>				Date/Time	<i>11/11/15</i>	<i>4:10</i>	Remarks					
Relinquished By: (Signature)			Date/Time			Received for Lab By: (Signature)					Date/Time			Remarks					