2655 Park Center Dr., Suite A
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www.alsglobal.com

LABORATORY REPORT

November 30, 2016

Matt Macosko
Divine Tribe
455 I St Ste 204
Arcata, CA 95521

RE: Product Testing - Vaporizer

Dear Matt:

Enclosed are the results of the sample submitted to our laboratory on October 25, 2016. The sample was sent out for partial analysis to our Salt Lake City facility. Please find their report (Work Order 1632229) attached. For your reference, these analyses have been assigned our service request number P1605022.

All analyses were performed according to our laboratory's NELAP and DoD-ELAP-approved quality assurance program. The test results meet requirements of the current NELAP and DoD-ELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP and DoD-ELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. Results are intended to be considered in their entirety and apply only to the samples analyzed and reported herein.

If you have any questions, please call me at (805) 526-7161.

Respectfully submitted,

ALS | Environmental

Samantha Henningsen

By Samantha Henningsen at 4:11 pm, Nov 30, 2016

Samantha Henningsen
Project Manager

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Client: Divine Tribe
Project: Product Testing - Vaporizer

Service Request No: P1605022

CASE NARRATIVE

The sample was received intact under chain of custody on October 25, 2016 and was stored in accordance with the analytical method requirements. Please refer to the sample acceptance check form for additional information. The results reported herein are applicable only to the condition of the sample at the time of sample receipt.

Sample Preparation

The Vaporizer was connected via the mouth piece to the appropriate media using silicone tubing and PTFE tape. The vaporizer was operated at the settings specified by the client and that vapor drawn onto the thermal desorption tube for the TO-17 analysis and onto the MCE cassette for the metals analysis being performed by our Salt Lake City facility. Approximately 150mL of air was drawn onto each tube using a 250 ml ground-glass syringe over a twenty second period starting when the device was fired. The fire button was held for five seconds although it appeared the maximum temperature was achieved in less than five seconds. Controls were prepared for each analysis using the same procedure but without firing the device.

For the VOC analysis the ambient conditions were 77.4 F (25.2 C) at 27% RH.

For the Metals analysis the ambient conditions were 76.7 F (24.8 C) at 31% RH.

Volatile Organic Compound Analysis

The thermal desorption tube collected was then analyzed for tentatively identified compounds (TICs) in accordance with the methodology outlined in EPA Method TO-17. This procedure is described in laboratory SOP VOA-TO17. The analyses were performed by thermal desorption/gas chromatography/mass spectrometry. This analysis is not included on the laboratory's NELAP, DoD-ELAP, or AIHA-LAP, LLC scope of accreditation.

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ALS Environmental – Simi Valley

CERTIFICATIONS, ACCREDITATIONS, AND REGISTRATIONS

Agency	Web Site	Number
Arizona DHS	http://www.azdhs.gov/lab/license/env.htm	AZ0694
PJLA (DoD ELAP)	http://www.pjlabs.com/search-accredited-labs	65818 (Testing)
Florida DOH (NELAP)	http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm	E871020
Maine DHHS	http://www.maine.gov/dhhs/mecdc/environmental-health/water/dwp-services/labcert/labcert.htm	2016036
Minnesota DOH (NELAP)	http://www.health.state.mn.us/accreditation	977273
New Jersey DEP (NELAP)	http://www.nj.gov/dep/oqa/	CA009
New York DOH (NELAP)	http://www.wadsworth.org/labcert/elap/elap.html	11221
Oregon PHD (NELAP)	http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	4068-003
Pennsylvania DEP	http://www.depweb.state.pa.us/labs	68-03307 (Registration)
Texas CEQ (NELAP)	http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html	T104704413-16-7
Utah DOH (NELAP)	http://www.health.utah.gov/lab/labimp/certification/index.html	CA016272016-6
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C946

Analyses were performed according to our laboratory's NELAP and DoD-ELAP approved quality assurance program. A complete listing of specific NELAP and DoD-ELAP certified analytes can be found in the certifications section at www.alsglobal.com, or at the accreditation body's website.

Each of the certifications listed above have an explicit Scope of Accreditation that applies to specific matrices/methods/analytes; therefore, please contact the laboratory for information corresponding to a particular certification.

ALS ENVIRONMENTAL

DETAIL SUMMARY REPORT

Client: Divine Tribe
Service Request: P1605022
Project ID: Product Testing - Vaporizer

Date Received: 10/25/2016
Time Received: 16:00

Client Sample ID	Lab Code	Matrix	Date Collected	Time Collected	TO-17 Modified - VOC Solid	None - Misc Out 1
Vaporizer	P1605022-001	Solid	10/25/2016	00:00	X	X

Air - Chain of Custody Record & Analytical Service Request

Page _____ of _____

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Requested Turnaround Time in Business Days (Surcharges) please circle
1 Day (100%) 2 Day (75%) 3 Day (50%) 4 Day (35%) 5 Day (25%) 10 Day-Standard

ALS Project No. P1605822

ALS Contact:

Company Name & Address (Reporting Information)	Project Name	Analysis Method		
Divine Tribe 455 I st. ste 204 Arcata CA 95521	Product Testing - Vaporizer			
	Project Number n/a			
Project Manager Samantha Henningsen	P.O. # / Billing Information credit card			
Phone 805-895-8967 / Fax				
Email Address for Result Reporting divinetribe1@yahoo.com	Sampler (Print & Sign) n/a			

Client Sample ID	Laboratory ID Number	Date Collected	Time Collected	Canister ID (Bar code # - AC, SC, etc.)	Flow Controller ID (Bar code # - FC #)	Canister Start Pressure "Hg	Canister End Pressure "Hg/psig	Sample Volume	TO-17 TICs - VOCs and SVOCs	27 Metals - MCE Cassette. Analysis by ALS Salt Lake City	Comments e.g. Actual Preservative or specific instructions
Vaporizer		n/a	n/a	n/a	n/a	n/a	n/a	n/a	x	x	Product testing as previously scoped

6 of 17

Report Tier Levels - please select

Tier I - Results (Default if not specified) _____ Tier III (Results + QC & Calibration Summaries) _____
Tier II (Results + QC Summaries) X Tier IV (Data Validation Package) 10% Surcharge _____

EDD required Yes / No
Type: Lab Basic Units:_____

Chain of Custody Seal: (Circle)
INTACT BROKEN ABSENT

Project Requirements (MRLs, QAPP)

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
				10/25/16	16:00
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:

Cooler / Blank Temperature ____°C

ALS Environmental
Sample Acceptance Check Form

Client: Divine Tribe Work order: P1605022

Project: Product Testing-Vaporizer

Sample(s) received on: 10/25/16 Date opened: 10/25/16 by: KKELPE

Note: This form is used for all samples received by ALS. The use of this form for custody seals is strictly meant to indicate presence/absence and not as an indication of compliance or nonconformity. Thermal preservation and pH will only be evaluated either at the request of the client and/or as required by the method/SOP.

		Yes	No	N/A
1	Were **sample containers** properly marked with client sample ID?	☒	☐	☐
2	Did **sample containers** arrive in good condition?	☒	☐	☐
3	Were **chain-of-custody** papers used and filled out?	☒	☐	☐
4	Did **sample container labels** and/or tags agree with custody papers?	☒	☐	☐
5	Was **sample volume** received adequate for analysis?	☒	☐	☐
6	Are samples within specified holding times?	☒	☐	☐
7	Was proper **temperature** (thermal preservation) of cooler at receipt adhered to?	☐	☐	☒
8	Were **custody seals** on outside of cooler/Box/Container?	☐	☒	☐
	Location of seal(s)? _____ Sealing Lid?	☐	☐	☒
	Were signature and date included?	☐	☐	☒
	Were seals intact?	☐	☐	☒
9	Do containers have appropriate **preservation**, according to method/SOP or Client specified information?	☐	☐	☒
	Is there a client indication that the submitted samples are **pH** preserved?	☐	☐	☒
	Were **VOA vials** checked for presence/absence of air bubbles?	☐	☐	☒
	Does the client/method/SOP require that the analyst check the sample pH and if necessary alter it?	☐	☐	☒
10	**Tubes:** Are the tubes capped and intact?	☐	☐	☒
11	**Badges:** Are the badges properly capped and intact?	☐	☐	☒
	Are dual bed badges separated and individually capped and intact?	☐	☐	☒

Lab Sample ID	Container Description	Required pH *	Received pH	Adjusted pH	VOA Headspace (Presence/Absence)	Receipt / Preservation Comments
P1605022-001.01						
P1605022-001.02	Tube, TD					
P1605022-001.03	Acetic Detector Tube					

Explain any discrepancies: (include lab sample ID numbers):

RSK - MEEPP, HCL (pH<2); RSK - CO2, (pH 5-8); Sulfur (pH>4)

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Divine Tribe**
Client Sample ID: **Vaporizer** ALS Project ID: P1605022
Client Project ID: **Product Testing - Vaporizer** ALS Sample ID: P1605022-001

Tentatively Identified Compounds

Test Code: EPA TO-17 Date Collected: 10/25/16
Instrument ID: Markes ATD/Agilent 5975Cinert/7890A/MS18 Date Received: 10/25/16
Analyst: Rui Malinowski Date Analyzed: 11/10/16
Sampling Media: Solid Volume(s) Analyzed: NA Liter(s)
Test Notes: **T**

GC/MS Retention Time	**Compound Identification**	**Concentration ng/Tube**	**Data Qualifier**
5.35	Acetaldehyde	**5.3**	
6.99	Acetone	**6.1**	
9.68	Acetic Acid	**11**	
24.90	Siloxane unknown	**12**	
27.18	Siloxane unknown	**29**	

T = Analyte is a tentatively identified compound, result is estimated.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Divine Tribe**
Client Sample ID: **Vaporizer Blank** ALS Project ID: P1605022
Client Project ID: **Product Testing - Vaporizer** ALS Sample ID: P161110-VB

Tentatively Identified Compounds

Test Code: EPA TO-17 Date Collected: NA
Instrument ID: Markes ATD/Agilent 5975Cinert/7890A/MS18 Date Received: NA
Analyst: Rui Malinowski Date Analyzed: 11/10/16
Sampling Media: Solid Volume(s) Analyzed: NA Liter(s)
Test Notes: **T**

GC/MS Retention Time	**Compound Identification**	**Concentration ng/Tube**	**Data Qualifier**
4.73	1,1-Difluoroethane	**160**	
4.84	Propene	**5.0**	
24.90	Siloxane unknown	**11**	
27.18	Siloxane unknown	**20**	

T = Analyte is a tentatively identified compound, result is estimated.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **Divine Tribe**
Client Sample ID: **Method Blank** ALS Project ID: P1605022
Client Project ID: **Product Testing - Vaporizer** ALS Sample ID: P160202-MB

Tentatively Identified Compounds

Test Code: EPA TO-17 Date Collected: NA
Instrument ID: Markes ATD/Agilent 5975Cinert/7890A/MS18 Date Received: NA
Analyst: Rui Malinowski Date Analyzed: 2/02/16
Sampling Media: Solid Volume(s) Analyzed: NA Liter(s)
Test Notes:

GC/MS Retention Time	**Compound Identification**	**Concentration ng/Tube**	**Data Qualifier**
4.84	Propene	**9.3**	

NF = Compound was searched for, but not found.

ANALYTICAL REPORT

Report Date: November 22, 2016

Samantha Henningsen
ALS Environmental Laboratory
2655 Park Center Drive
Suite A
Simi Valley, CA 93065

Phone: (805) 526-7161

E-mail: Samantha.Henningsen@alsglobal.com

Workorder: **34-1632229**
Client Project ID: P1605022 111716
Purchase Order: P1605022
Project Manager: Paul Pope

Analytical Results

Sample ID: **Vaporizer** Collected: 10/25/2016
Lab ID: 1632229001 Sampling Location: P1605022 Received: 11/17/2016

Method: **NIOSH 7300, MCE** **Media:** MCE Filter **Prepared:** 11/21/2016
Sampling Parameter: **Air Volume Not Provided** **Analyzed:** 11/21/2016

Analyte	Result (ug/sample)	Result (mg/m³)	RL (ug/sample)
Aluminum	<5.0	NA	5.0
Arsenic	<2.5	NA	2.5
Beryllium	<0.013	NA	0.013
Cadmium	<0.075	NA	0.075
Calcium	<15	NA	15
Chromium	<1.3	NA	1.3
Cobalt	<0.075	NA	0.075
Copper	<1.2	NA	1.2
Iron	<5.0	NA	5.0
Lead	<1.3	NA	1.3
Lithium	<0.50	NA	0.50
Magnesium	<1.3	NA	1.3
Manganese	<0.31	NA	0.31
Molybdenum	<0.38	NA	0.38
Nickel	<0.34	NA	0.34
Phosphorus	<5.0	NA	5.0
Platinum	<3.8	NA	3.8
Selenium	<2.5	NA	2.5
Silver	<0.25	NA	0.25
Sodium	<5.1	NA	5.1
Tellurium	<1.3	NA	1.3
Thallium	<1.3	NA	1.3
Titanium	<0.075	NA	0.075
Vanadium	**0.10**	NA	0.075
Yttrium	<0.075	NA	0.075
Zinc	<0.50	NA	0.50

Results Continued on Next Page

ANALYTICAL REPORT

Workorder: **34-1632229**
Client Project ID: P1605022 111716
Purchase Order: P1605022
Project Manager: Paul Pope

Analytical Results

Sample ID: **Vaporizer** Collected: 10/25/2016
Lab ID: 1632229001 Sampling Location: P1605022 Received: 11/17/2016

Method: **NIOSH 7300, MCE** **Media:** MCE Filter **Prepared:** 11/21/2016
Sampling Parameter: **Air Volume Not Provided** **Analyzed:** 11/21/2016

Analyte	Result (ug/sample)	Result (mg/m³)	RL (ug/sample)
Zirconium	<0.50	NA	0.50

Sample ID: **Blank** Collected: 10/25/2016
Lab ID: 1632229002 Sampling Location: P1605022 Received: 11/17/2016

Method: **NIOSH 7300, MCE** **Media:** MCE Filter **Prepared:** 11/21/2016
Sampling Parameter: **Air Volume Not Applicable** **Analyzed:** 11/21/2016

Analyte	Result (ug/sample)	Result (mg/m³)	RL (ug/sample)
Aluminum	<5.0	NA	5.0
Arsenic	<2.5	NA	2.5
Beryllium	<0.013	NA	0.013
Cadmium	<0.075	NA	0.075
Calcium	<15	NA	15
Chromium	<1.3	NA	1.3
Cobalt	<0.075	NA	0.075
Copper	<1.2	NA	1.2
Iron	<5.0	NA	5.0
Lead	<1.3	NA	1.3
Lithium	<0.50	NA	0.50
Magnesium	<1.3	NA	1.3
Manganese	<0.31	NA	0.31
Molybdenum	<0.38	NA	0.38
Nickel	<0.34	NA	0.34
Phosphorus	<5.0	NA	5.0
Platinum	<3.8	NA	3.8
Selenium	<2.5	NA	2.5
Silver	<0.25	NA	0.25
Sodium	<5.1	NA	5.1
Tellurium	<1.3	NA	1.3
Thallium	<1.3	NA	1.3
Titanium	<0.075	NA	0.075
Vanadium	**0.080**	NA	0.075
Yttrium	<0.075	NA	0.075
Zinc	<0.50	NA	0.50
Zirconium	<0.50	NA	0.50

ANALYTICAL REPORT

Workorder: **34-1632229**
Client Project ID: P1605022 111716
Purchase Order: P1605022
Project Manager: Paul Pope

Report Authorization (/S/ is an electronic signature that complies with 21 CFR Part 11)

Method	Analyst	Peer Review
NIOSH 7300, MCE	/S/ Peter P. Steen 11/22/2016 09:31	/S/ Lauren Jones 11/22/2016 10:54

Laboratory Contact Information

ALS Environmental
960 W Levoy Drive
Salt Lake City, Utah 84123

Phone: (801) 266-7700
Email: alslt.lab@ALSGlobal.com
Web: www.alsslc.com

General Lab Comments

The results provided in this report relate only to the items tested.
Samples were received in acceptable condition unless otherwise noted.
Samples have not been blank corrected unless otherwise noted.
This test report shall not be reproduced, except in full, without written approval of ALS.

ALS provides professional analytical services for all samples submitted. ALS is not in a position to interpret the data and assumes no responsibility for the quality of the samples submitted.

All quality control samples processed with the samples in this report yielded acceptable results unless otherwise noted.

ALS is accredited for specific fields of testing (scopes) in the following testing sectors. The quality system implemented at ALS conforms to accreditation requirements and is applied to all analytical testing performed by ALS. The following table lists testing sector, accreditation body, accreditation number and website. Please contact these accrediting bodies or your ALS project manager for the current scope of accreditation that applies to your analytical testing.

Testing Sector	Accreditation Body (Standard)	Certificate Number	Website
Environmental	ANAB (DoD ELAP)	ADE-1420	http://www.anab.org/accredited-organizations/
	Utah (NELAC)	DATA1	http://health.utah.gov/lab/labimp/
	Nevada	UT00009	http://ndep.nv.gov/bsdw/labservice.htm
	Oklahoma	UT00009	http://www.deq.state.ok.us/CSDnew/
	Iowa	IA# 376	http://www.iowadnr.gov/InsideDNR/RegulatoryWater.aspx
	Texas (TNI)	T104704456-11-1	http://www.tceq.texas.gov/field/qa/lab_accred_certif.html
	Washington	C596-16	http://www.ecy.wa.gov/programs/eap/labs/index.html
	Kansas	E-10416	http://www.kdheks.gov/lipo/index.html
Industrial Hygiene	AIHA LAP LLC (ISO 17025 & IHLAP/ELLAP)	101574	http://www.aihaaccreditedlabs.org
	Washington	C596-16	http://www.ecy.wa.gov/programs/eap/labs/index.html
Lead Testing:			
CPSC	ANAB (ISO 17025, CPSC)	ADE-1420	http://www.anab.org/accredited-organizations/
Soil, Dust, Paint ,Air	AIHA LAP LLC (ISO 17025 & IHLAP/ELLAP)	101574	http://www.aihaaccreditedlabs.org
Dietary Supplements	ACLASS (ISO 17025)	ADE-1420	http://www.aclasscorp.com

ANALYTICAL REPORT

Workorder: **34-1632229**
Client Project ID: P1605022 111716
Purchase Order: P1605022
Project Manager: Paul Pope

Definitions

LOD = Limit of Detection = MDL = Method Detection Limit, A statistical estimate of method/media/instrument sensitivity.
LOQ = Limit of Quantitation = RL = Reporting Limit, A verified value of method/media/instrument sensitivity.
ND = Not Detected, Testing result not detected above the LOD or LOQ.
NA = Not Applicable.
** No result could be reported, see sample comments for details.
< This testing result is less than the numerical value.
( ) This testing result is between the LOD and LOQ and has higher analytical uncertainty than values at or above the LOQ.

Quality Control Sample
Batch Report

Analysis Information

Workorder: 1632229

Limits: Historical/Performance	**Preparation:** IH Metals, MCE Prep	**Analysis:** IH Metals, MCE QC
Basis: ALS Laboratory Group	**Batch:** IIPX/20656 (HBN: 181049)	**Batch:** IICP/13014 (HBN: 181104)
	Prepared By: Jacob Knudson	**Analyzed By:** Peter P. Steen

Blank

LRB: 528002
Analyzed: 11/21/2016 16:29

Units: ug/sample

Analyte	Result	MDL	RL
Aluminum	ND	1.5	5.00
Arsenic	ND	0.75	2.50
Beryllium	ND	0.00375	0.0125
Cadmium	ND	0.0225	0.0750
Calcium	ND	4.5	15.0
Chromium	ND	0.375	1.25
Cobalt	ND	0.0225	0.0750
Copper	ND	0.373	1.24
Iron	ND	1.5	5.00
Lead	ND	0.375	1.25
Lithium	ND	0.15	0.500
Magnesium	ND	0.375	1.25
Manganese	ND	0.0938	0.313
Molybdenum	ND	0.113	0.375
Nickel	ND	0.101	0.338
Phosphorus	ND	1.5	5.00
Platinum	ND	1.13	3.75
Selenium	ND	0.75	2.50
Silver	ND	0.075	0.250
Sodium	ND	1.54	5.13
Tellurium	ND	0.375	1.25
Thallium	ND	0.375	1.25
Titanium	ND	0.0225	0.0750
Vanadium	ND	0.0225	0.0750
Yttrium	ND	0.0225	0.0750
Zinc	ND	0.15	0.500
Zirconium	ND	0.15	0.500

LMB: 528003
Analyzed: 11/21/2016 16:32

Units: ug/sample

Analyte	Result	MDL	RL
Aluminum	ND	1.5	5.00
Arsenic	ND	0.75	2.50
Beryllium	ND	0.00375	0.0125
Cadmium	ND	0.0225	0.0750
Calcium	ND	4.5	15.0

Quality Control Sample
Batch Report

Analysis Information

Workorder: 1632229

Limits: Historical/Performance	**Preparation:** IH Metals, MCE Prep	**Analysis:** IH Metals, MCE QC
Basis: ALS Laboratory Group	**Batch:** IIPX/20656 (HBN: 181049)	**Batch:** IICP/13014 (HBN: 181104)
	Prepared By: Jacob Knudson	**Analyzed By:** Peter P. Steen

Blank

LMB: 528003
Analyzed: 11/21/2016 16:32
Units: ug/sample

Analyte	Result	MDL	RL
Chromium	ND	0.375	1.25
Cobalt	ND	0.0225	0.0750
Copper	ND	0.373	1.24
Iron	ND	1.5	5.00
Lead	ND	0.375	1.25
Lithium	ND	0.15	0.500
Magnesium	ND	0.375	1.25
Manganese	ND	0.0938	0.313
Molybdenum	ND	0.113	0.375
Nickel	ND	0.101	0.338
Phosphorus	ND	1.5	5.00
Platinum	ND	1.13	3.75
Selenium	ND	0.75	2.50
Silver	ND	0.075	0.250
Sodium	ND	1.54	5.13
Tellurium	ND	0.375	1.25
Thallium	ND	0.375	1.25
Titanium	ND	0.0225	0.0750
Vanadium	ND	0.0225	0.0750
Yttrium	ND	0.0225	0.0750
Zinc	ND	0.15	0.500
Zirconium	ND	0.15	0.500

Laboratory Control Sample - Laboratory Control Sample Duplicate

LCS: 528004
Analyzed: 11/21/2016 16:36
Dilution: 1
Units: ug/sample

LCSD: 528005
Analyzed: 11/21/2016 16:39
Dilution: 1
Units: ug/sample

Analyte	Result	Target	% Rec	QC Limits		Result	% Rec	RPD	QC Limits	
Aluminum	102	100	102	86.6	116.0	101	101	0.572	0.0	15.0
Arsenic	97.0	100	97.0	88.4	107.7	96.4	96.4	0.617	0.0	15.0
Beryllium	10.4	10.0	104	90.4	116.1	10.3	103	0.318	0.0	15.0
Calcium	111	100	111	90.2	126.8	110	110	1.07	0.0	15.0
Cadmium	10.3	10.0	103	91.7	114.3	10.1	101	1.48	0.0	15.0
Cobalt	10.4	10.0	104	95.8	117.8	10.3	103	0.465	0.0	15.0
Chromium	105	100	105	90.9	117.0	104	104	0.335	0.0	15.0
Copper	11.2	10.0	112	94.8	122.2	10.9	109	2.70	0.0	15.0
Iron	106	100	106	92.8	116.4	105	105	0.951	0.0	15.0

Quality Control Sample
Batch Report

Analysis Information

Workorder: **1632229**

Limits: Historical/Performance	**Preparation:** IH Metals, MCE Prep	**Analysis:** IH Metals, MCE QC
Basis: ALS Laboratory Group	**Batch:** IIPX/20656 (HBN: 181049)	**Batch:** IICP/13014 (HBN: 181104)
	Prepared By: Jacob Knudson	**Analyzed By:** Peter P. Steen

Laboratory Control Sample - Laboratory Control Sample Duplicate

LCS: 528004	**LCSD:** 528005
Analyzed: 11/21/2016 16:36	**Analyzed:** 11/21/2016 16:39
Dilution: 1	**Dilution:** 1
Units: ug/sample	**Units:** ug/sample

Analyte	Result	Target	% Rec	QC Limits		Result	% Rec	RPD	QC Limits	
Lithium	101	100	101	88.7	115.5	100	100	0.109	0.0	15.0
Magnesium	103	100	103	90.4	113.1	101	101	2.11	0.0	15.0
Manganese	108	100	108	93.4	113.0	107	107	0.307	0.0	15.0
Nickel	10.4	10.0	104	97.0	120.8	10.2	102	1.51	0.0	15.0
Lead	108	100	108	92.4	116.7	106	106	1.70	0.0	15.0
Selenium	101	100	101	90.0	110.1	101	101	0.365	0.0	15.0
Silver	101	100	101	80.0	118.0	99.8	99.8	1.15	0.0	15.0
Sodium	103	100	103	92.9	116.4	104	104	0.435	0.0	15.0
Thallium	107	100	107	87.7	114.5	107	107	0.337	0.0	15.0
Vanadium	110	100	110	92.8	115.3	109	109	0.329	0.0	15.0
Yttrium	10.7	10.0	107	93.9	113.8	10.6	106	0.413	0.0	15.0
Zinc	107	100	107	95.2	117.5	105	105	1.21	0.0	15.0
Molybdenum	10.7	10.0	107	91.1	121.2	10.7	107	0.243	0.0	15.0
Phosphorus	96.1	100	96.1	86.7	118.1	95.4	95.4	0.765	0.0	15.0
Tellurium	103	100	103	90.3	115.5	101	101	1.35	0.0	15.0
Titanium	10.3	10.0	103	90.1	115.3	10.1	101	1.10	0.0	15.0
Zirconium	102	100	102	88.8	114.2	102	102	0.382	0.0	15.0

QC Report Authorization (/S/ is an electronic signature that complies with 21 CFR Part 11)

Analyst	Peer Review
/S/ Peter P. Steen	/S/ Lauren Jones
11/22/2016 09:31	11/22/2016 10:54

Symbols and Definitions

- * - Analyte above reporting limit or outside of control limits
- ▲ - Sample result is greater than 4 times the spike added
- ◓ - Sample and Matrix Duplicate less than 5 times the reporting limit
- ● - Result is above the calibration range

RPD - Relative % Difference (Spike / Spike Duplicate)
ND - Not Detected (U - Qualifier also flags analyte as not detected)
NA - Not Applicable
QC results are not adjusted for moisture correction, where applicable