

March 11, 2022

Entrada Consulting Group

Ben Baugh

330 Grand Ave. Unit C

Grand Junction CO 81501

Project Name - Heinze #1

Project Number - -

Attached are your analytical results for Heinze #1 received by Origins Laboratory, Inc. February 25, 2022. This project is associated with Origins project number Y202563-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.  
303.433.1322  
o-squad@oelabinc.com



Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: -

Project: Heinze #1

## CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WC01-3	Y202563-01	Soil	February 25, 2022 10:50	02/25/2022 16:28

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Ben Baugh  
Project Number: -  
Project: Heinze #1

# ORIGINS

LABORATORY, INC

Bill To JASON DAVIDSON

www.originslaboratory.com

4202503

page 1 of 1

Client: Entrada Consulting Group

Project Manager: Ben Baugh

Address:

Project Name: HENGE #1

Telephone Number:

435-630-4748

Project Number:

Email Address:

J.DAVIDSON@ENTRADA-INC.COM, BBAUGH@ENTRADA-INC.COM, J.DAVIDSON@BWP.COM

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis	Sample Instructions
				Unpreserved	HCl	HNO <sub>3</sub>	Other	Groundwater	Soil	Air Summa #		
W01-3	2/25/02	10:50	2	X				X			FULL TANK 915-1	1
												2
												3
												4
												5
												6
												7
												8
												9
												10
Relinquished By: <i>[Signature]</i>	Date: 2/25/02	Time: 1425	Received By: <i>[Signature]</i>	Date: 2/25/02	Time: 16:28	Turnaround Time: Same Day <input checked="" type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input checked="" type="checkbox"/>						
Relinquished By:	Date:	Time:	Received By:	Date:	Time:							

Fax: 303.265.9645

Phone: 303.433.1322

Denver, CO 80211

1725 Elk Place

Date Results Needed: ASAP

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Origins Laboratory, Inc.

Jeff Pelligrini

**Jen Pellegrini, Project Manager**

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330 Grand Ave. Unit C

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Project Number: -

Project: Heinze #1

Origins Laboratory

## Sample Receipt Checklist

F-012207-01-R1  
Effective Date: 01/09/12

Origins Work Order: 1202503

Client: Entrada

Client Project ID: Heinze #1

Checklist Completed by: KH

Shipped Via: HD

(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 2/25/12

Airbill #: NA

Matrix(s) Received: (Check all that apply):

☒ Soil/Solid

☐ Water

☐ Other:

(Describe)

Cooler Number/Temperature: 1 / 5.1 °C /     °C /     °C /     °C

Thermometer ID: TC03

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C <sup>(1)</sup> ?		<input checked="" type="checkbox"/>		<u>same day</u>
Is there ice present (document if blue ice is used)?	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked <sup>(1)</sup> ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ) / (pH >10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH)			<input checked="" type="checkbox"/>	
Additional Comments (if any):				

<sup>(1)</sup> If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.

Reviewed by (Project Manager)

Date/Time Reviewed

Origins Laboratory, Inc.

*Jen Pellegrini*

Jen Pellegrini, Project Manager

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Entrada Consulting Group  
330 Grand Ave. Unit C  
Grand Junction CO 81501

Ben Baugh  
Project Number: -  
Project: Heinze #1

## WC01-3

2/25/2022 10:50:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y202563-01 (Soil)

### Boron (DTPA Sorbitol)

Boron	0.200	0.100	mg/L	1	B2B2812	02/28/2022	03/01/2022
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### DRO/ORO by EPA 8015D

Diesel (C10-C28)	603	25.0	mg/kg	1	B2B2509	02/25/2022	02/26/2022
Residual Range Organics (C28-C40)	224	100	"	"	"	"	"

Surrogate: o-Terphenyl	105 %	50-150	"	"	"
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### GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	6.79	0.0500	mg/kg	25	B2B2510	02/25/2022	02/26/2022
1,3,5-Trimethylbenzene	1.90	0.0500	"	"	"	"	"
Benzene	0.0528	0.00200	"	1	"	"	02/28/2022
Ethylbenzene	1.98	0.0500	"	25	"	"	02/26/2022
Toluene	ND	0.00200	"	1	"	"	02/28/2022 U
Xylenes, total	9.72	0.0500	"	25	"	"	02/26/2022
Gasoline Range Hydrocarbons	214	5.00	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	93.4 %	70-130	"	"	"
Surrogate: Toluene-d8	91.4 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	120 %	70-130	"	"	"

Origins Laboratory, Inc.



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Project: Heinze #1

WC01-3

2/25/2022 10:50:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.

Y202563-01 (Soil)

## Metals by Saturated Paste by EPA 6010

Calcium	2.35	0.499	meq/L	10	[CALC]	02/28/2022	03/01/2022
Magnesium	1.81	0.823	"	"	"	"	"
Sodium	2.67	0.435	"	"	"	"	"

## PAH by 8270D SIM

1-Methylnaphthalene	3.1	0.00364	0.0067	mg/Kg	10	L602652	03/03/2022	03/03/2022
2-Methylnaphthalene	4.04	0.00645	0.0067	"	"	"	"	"
Acenaphthene	0.103	0.00304	0.0067	"	"	"	"	"
Anthracene	0.00686	0.00334	0.0067	"	"	"	"	"
Benzo(a)anthracene	0.00881	0.00493	0.0067	"	"	"	"	"
Benzo(a)pyrene	0.00533	0.00468	0.0067	"	"	"	"	J
Benzo(b)fluoranthene	ND	0.00585	0.0067	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.00437	0.0067	"	"	"	"	"
Chrysene	0.103	0.00624	0.0067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.00614	0.0067	"	"	"	"	"
Fluoranthene	0.0061	0.00394	0.0067	"	"	"	"	J
Fluorene	0.363	0.00286	0.0067	"	"	"	"	"
Indeno(1,2,3-cd)pyrene	ND	0.00627	0.0067	"	"	"	"	"
Naphthalene	1.24	0.00484	0.0067	"	"	"	"	"
Pyrene	0.0357	0.00643	0.0067	"	"	"	"	"
Surrogate: 2-Fluorobiphenyl	58.9 %		33-115			"	"	"
Surrogate: 4-Terphenyl-d14	63.4 %		33-122			"	"	"

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WC01-3

2/25/2022 10:50:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.

Y202563-01 (Soil)

## PAH by 8270D SIM

Surrogate: Nitrobenzene-d5	84.6 %	29-110	L6026 52	03/03/2022	03/03/2022
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## pH in Soil by 9045D

pH	7.71	pH Units	1	B2B2819	02/28/2022	03/01/2022
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## SAR by 20B Saturated Paste

SAR	0.585	SAR	1	B2B2816	02/28/2022	03/01/2022
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## Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.336	0.00500	mmhos/cm	1	B2B2818	02/28/2022	03/01/2022
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## Total Metals by 6020B

Arsenic	2.91	0.0855	0.25	mg/Kg	5	L602310	03/01/2022	03/05/2022	
Barium	85.3	0.042	0.25	"	"	"	"	"	
Cadmium	0.113	0.0259	0.25	"	"	"	"	"	J
Copper	6.52	0.0806	0.25	"	"	"	"	"	
Lead	7.34	0.031	0.25	"	"	"	"	"	
Nickel	7.54	0.0633	0.25	"	"	"	"	"	
Selenium	0.374	0.103	0.25	"	"	"	"	"	
Silver	0.0332	0.0067	0.25	"	"	"	"	"	J
Zinc	30.1	0.534	2.5	"	"	"	"	"	

Origins Laboratory, Inc.



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WC01-3

2/25/2022 10:50:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.

Y202563-01 (Soil)

## Total Metals by 7196A

Chromium, Hexavalent	ND	0.252	0.517	mg/Kg	1	L603224	02/25/2022	03/07/2022
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Project: Heinze #1

## Extractable Petroleum Hydrocarbons by 8015D - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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### Batch B2B2509 - EPA 3550B

#### Blank (B2B2509-BLK1)

Prepared: 02/25/2022 Analyzed: 02/25/2022

Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	28		"	24.9		111	50-150			

Origins Laboratory, Inc.



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Project: Heinze #1

**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B2B2509 - EPA 3550B**

**LCS (B2B2509-BS1)**

Prepared: 02/25/2022 Analyzed: 02/25/2022

Diesel (C10-C28)	965	50.0	mg/kg	1000		96.5	70-130			
Residual Range Organics (C28-C40)	923	200	"	1000		92.3	70-130			
Surrogate: o-Terphenyl	52		"	49.8		105	50-150			

Origins Laboratory, Inc.



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Project: Heinze #1

## Extractable Petroleum Hydrocarbons by 8015D - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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### Batch B2B2509 - EPA 3550B

Matrix Spike (B2B2509-MS1)		Source: Y202559-01			Prepared: 02/25/2022 Analyzed: 02/25/2022					
Diesel (C10-C28)	812	50.0	mg/kg	1000	ND	81.2	70-130			
Residual Range Organics (C28-C40)	771	200	"	1000	ND	77.1	70-130			
Surrogate: o-Terphenyl	42		"	49.8		84.9	50-150			

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330 Grand Ave. Unit C

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## Extractable Petroleum Hydrocarbons by 8015D - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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### Batch B2B2509 - EPA 3550B

Matrix Spike Dup (B2B2509-MSD1)		Source: Y202559-01			Prepared: 02/25/2022 Analyzed: 02/25/2022					
Diesel (C10-C28)	969	50.0	mg/kg	1000	ND	96.9	70-130	17.7	35	
Residual Range Organics (C28-C40)	956	200	"	1000	ND	95.6	70-130	21.5	35	
Surrogate: o-Terphenyl	50		"	49.8		101	50-150			

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330 Grand Ave. Unit C

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Project: Heinze #1

## Extractable Petroleum Hydrocarbons by 8015D - Quality Control

### Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch B2B2510 - EPA 5030 (soil)

#### Blank (B2B2510-BLK1)

Prepared: 02/25/2022 Analyzed: 02/25/2022

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.0100	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125	106		70-130			
Surrogate: Toluene-d8	0.12		"	0.125	98.8		70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125	102		70-130			

Origins Laboratory, Inc.



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330 Grand Ave. Unit C  
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Project Number: -  
Project: Heinze #1

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B2B2510 - EPA 5030 (soil)</b>										
<b>LCS (B2B2510-BS1)</b>					Prepared: 02/25/2022 Analyzed: 02/25/2022					
1,2,4-Trimethylbenzene	0.0916	0.00200	mg/kg	0.100		91.6	70-130			
1,3,5-Trimethylbenzene	0.0939	0.00200	"	0.100		93.9	70-130			
Benzene	0.0917	0.00200	"	0.100		91.7	70-130			
Ethylbenzene	0.0906	0.00200	"	0.100		90.6	70-130			
Naphthalene	0.0967	0.0100	"	0.100		96.7	70-130			
Toluene	0.0888	0.00200	"	0.100		88.8	70-130			
o-Xylene	0.0925	0.00200	"	0.100		92.5	70-130			
m,p-Xylene	0.182	0.00400	"	0.200		91.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		103	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		103	70-130			

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330 Grand Ave. Unit C  
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Ben Baugh  
Project Number: -  
Project: Heinze #1

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B2B2510 - EPA 5030 (soil)**

Matrix Spike (B2B2510-MS1)		Source: Y202559-01			Prepared: 02/25/2022 Analyzed: 02/25/2022					
1,2,4-Trimethylbenzene	0.0885	0.00200	mg/kg	0.100	ND	88.5	70-130			
1,3,5-Trimethylbenzene	0.0901	0.00200	"	0.100	ND	90.1	70-130			
Benzene	0.0910	0.00200	"	0.100	ND	91.0	70-130			
Ethylbenzene	0.0875	0.00200	"	0.100	ND	87.5	70-130			
Naphthalene	0.0968	0.0100	"	0.100	0.00116	95.7	70-130			
Toluene	0.0859	0.00200	"	0.100	ND	85.9	70-130			
o-Xylene	0.0896	0.00200	"	0.100	ND	89.6	70-130			
m,p-Xylene	0.176	0.00400	"	0.200	ND	88.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		104	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B2B2510 - EPA 5030 (soil)**

Matrix Spike Dup (B2B2510-MSD1)		Source: Y202559-01			Prepared: 02/25/2022 Analyzed: 02/25/2022					
1,2,4-Trimethylbenzene	0.0890	0.00200	mg/kg	0.100	ND	89.0	70-130	0.564	20	
1,3,5-Trimethylbenzene	0.0894	0.00200	"	0.100	ND	89.4	70-130	0.758	20	
Benzene	0.0875	0.00200	"	0.100	ND	87.5	70-130	3.99	20	
Ethylbenzene	0.0869	0.00200	"	0.100	ND	86.9	70-130	0.688	20	
Naphthalene	0.0997	0.0100	"	0.100	0.00116	98.6	70-130	2.97	20	
Toluene	0.0861	0.00200	"	0.100	ND	86.1	70-130	0.209	20	
o-Xylene	0.0886	0.00200	"	0.100	ND	88.6	70-130	1.10	20	
m,p-Xylene	0.174	0.00400	"	0.200	ND	86.8	70-130	1.57	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		105	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: -

Project: Heinze #1

## Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control

### Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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## Classical Chemistry Parameters - Quality Control

### Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch B2B2812 - Default Prep Metals

##### Blank (B2B2812-BLK1)

Prepared: 02/28/2022 Analyzed: 03/01/2022

Boron	ND	0.100	mg/L							U
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##### Duplicate (B2B2812-DUP1)

Source: Y202557-02

Prepared: 02/28/2022 Analyzed: 03/01/2022

Boron	1.70	0.0991	mg/L		1.63			4.76	50	
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330 Grand Ave. Unit C  
Grand Junction CO 81501

Ben Baugh  
Project Number: -  
Project: Heinze #1

## Saturated Paste - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B2B2818 - NO PREP</b>										
<b>Blank (B2B2818-BLK1)</b>					Prepared: 02/28/2022 Analyzed: 03/01/2022					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
<b>Duplicate (B2B2818-DUP1)</b>					<b>Source: Y202563-01</b> Prepared: 02/28/2022 Analyzed: 03/01/2022					
Specific Conductance (EC)	0.312	0.00500	mmhos/cm		0.336			7.35	25	
<b>Batch B2B2819 - NO PREP</b>										
<b>Duplicate (B2B2819-DUP1)</b>					<b>Source: Y202563-01</b> Prepared: 02/28/2022 Analyzed: 03/01/2022					
pH	7.66		pH Units		7.71			0.651	25	

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Jen Pellegrini, Project Manager

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Entrada Consulting Group  
330 Grand Ave. Unit C  
Grand Junction CO 81501

Ben Baugh  
Project Number: -  
Project: Heinze #1

**PAH by 8270D SIM - Quality Control**  
**Waypoint Analytical, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch L602652 - 3550B**

MSD (L 94850-MSD-L602652)		Source: 94850			Prepared: 03/03/2022 Analyzed: 03/03/2022					
Chrysene	0.105	0.000624	mg/Kg	0.166	94850	63.2	30-130	0	30	
1-Methylnaphthalene	0.0896	0.000364	"	0.166	94850	53.9	30-130	3.4	30	
Pyrene	0.107	0.000643	"	0.166	94850	64.4	30-130	0.9	30	
Naphthalene	0.0898	0.000484	"	0.166	94850	54	30-130	7.3	30	
Indeno(1,2,3-cd)pyrene	0.0882	0.000627	"	0.166	94850	53.1	30-130	0.2	30	
Fluorene	0.0872	0.000286	"	0.166	94850	52.5	30-130	2.6	30	
Fluoranthene	0.0817	0.000394	"	0.166	94850	49.2	30-130	10.5	30	
Dibenz(a,h)anthracene	0.124	0.000614	"	0.166	94850	74.6	30-130	5.8	30	
Benzo(k)fluoranthene	0.0914	0.000437	"	0.166	94850	55	30-130	4.2	30	
Benzo(b)fluoranthene	0.0941	0.000585	"	0.166	94850	56.6	30-130	1.6	30	
Benzo(a)pyrene	0.131	0.000468	"	0.166	94850	78.9	30-130	10.4	30	
Benzo(a)anthracene	0.102	0.000493	"	0.166	94850	61.4	30-130	4.5	30	
Anthracene	0.0936	0.000334	"	0.166	94850	56.3	30-130	1.8	30	
Acenaphthene	0.0789	0.000304	"	0.166	94850	47.5	30-130	0.6	30	
2-Methylnaphthalene	0.0831	0.000645	"	0.166	94850	50	30-130	2.9	30	
Surrogate: Nitrobenzene-d5	53		"	0.332	165	53	29-110			
Surrogate: 4-Terphenyl-d14	75.9		"	0.332	216	75.9	33-122			
Surrogate: 2-Fluorobiphenyl	58.4		"	0.332	187	58.4	33-115			

MS (L 94850-MS-L602652)		Source: 94850			Prepared: 03/03/2022 Analyzed: 03/03/2022					
Anthracene	0.0919	0.000334	mg/Kg	0.167	0.00686	55	30-130			
1-Methylnaphthalene	0.0866	0.000364	"	0.167	3.1	51.8	30-130			
2-Methylnaphthalene	0.0807	0.000645	"	0.167	4.04	48.3	30-130			
Benzo(a)anthracene	0.0975	0.000493	"	0.167	0.00881	58.3	30-130			
Naphthalene	0.0834	0.000484	"	0.167	1.24	49.9	30-130			
Acenaphthene	0.0784	0.000304	"	0.167	0.103	46.9	30-130			
Indeno(1,2,3-cd)pyrene	0.0884	0.000627	"	0.167	94850	52.9	30-130			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Entrada Consulting Group  
330 Grand Ave. Unit C  
Grand Junction CO 81501

Ben Baugh  
Project Number: -  
Project: Heinze #1

**PAH by 8270D SIM - Quality Control**  
**Waypoint Analytical, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch L602652 - 3550B**

MS (L 94850-MS-L602652)		Source: 94850			Prepared: 03/03/2022 Analyzed: 03/03/2022					
Fluorene	0.0849	0.000286	mg/Kg	0.167	0.363	50.8	30-130			
Fluoranthene	0.0735	0.000394	"	0.167	0.0061	44	30-130			
Dibenz(a,h)anthracene	0.117	0.000614	"	0.167	94850	70	30-130			
Chrysene	0.105	0.000624	"	0.167	0.103	62.8	30-130			
Benzo(k)fluoranthene	0.0954	0.000437	"	0.167	94850	57.1	30-130			
Benzo(b)fluoranthene	0.0957	0.000585	"	0.167	94850	57.3	30-130			
Benzo(a)pyrene	0.118	0.000468	"	0.167	0.00533	70.6	30-130			
Pyrene	0.108	0.000643	"	0.167	0.0357	64.6	30-130			
Surrogate: 2-Fluorobiphenyl	56.1		"	0.333	187	56.1	33-115			
Surrogate: 4-Terphenyl-d14	76.2		"	0.333	216	76.2	33-122			
Surrogate: Nitrobenzene-d5	46.8		"	0.333	165	46.8	29-110			

LCS (LCS-L602652)		Prepared: 03/03/2022 Analyzed: 03/03/2022								
Benzo(k)fluoranthene	0.107	0.000437	mg/Kg	0.167		64	30-130			
Anthracene	0.0933	0.000334	"	0.167		55.8	30-130			
Benzo(a)anthracene	0.0941	0.000493	"	0.167		56.3	30-130			
Benzo(a)pyrene	0.105	0.000468	"	0.167		62.8	30-130			
Benzo(b)fluoranthene	0.0918	0.000585	"	0.167		54.9	30-130			
Chrysene	0.103	0.000624	"	0.167		61.6	30-130			
Dibenz(a,h)anthracene	0.109	0.000614	"	0.167		65.2	30-130			
Fluoranthene	0.101	0.000394	"	0.167		60.4	30-130			
Fluorene	0.0866	0.000286	"	0.167		51.8	30-130			
1-Methylnaphthalene	0.0905	0.000364	"	0.167		54.1	30-130			
Naphthalene	0.0882	0.000484	"	0.167		52.8	30-130			
2-Methylnaphthalene	0.0829	0.000645	"	0.167		49.6	30-130			
Pyrene	0.102	0.000643	"	0.167		61	30-130			
Indeno(1,2,3-cd)pyrene	0.0839	0.000627	"	0.167		50.2	30-130			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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Entrada Consulting Group  
330 Grand Ave. Unit C  
Grand Junction CO 81501

Ben Baugh  
Project Number: -  
Project: Heinze #1

**PAH by 8270D SIM - Quality Control**  
**Waypoint Analytical, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch L602652 - 3550B**

**LCS (LCS-L602652)**

Prepared: 03/03/2022 Analyzed: 03/03/2022

Acenaphthene	0.0772	0.000304	mg/Kg	0.167		46.2	30-130			
Surrogate: Nitrobenzene-d5	57.6		"	0.333		57.6	29-110			
Surrogate: 2-Fluorobiphenyl	65.4		"	0.333		65.4	33-115			
Surrogate: 4-Terphenyl-d14	81.3		"	0.333		81.3	33-122			

**LRB (LRB-L602652)**

Prepared: 03/03/2022 Analyzed: 03/03/2022

Benzo(a)anthracene	ND	0.00067	mg/Kg				-			
1-Methylnaphthalene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00067	"				-			
Pyrene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Chrysene	ND	0.00067	"				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Naphthalene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
Surrogate: 2-Fluorobiphenyl	64.5		"	0.333		64.5	33-115			
Surrogate: 4-Terphenyl-d14	64.2		"	0.333		64.2	33-122			
Surrogate: Nitrobenzene-d5	54		"	0.333		54	29-110			

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Entrada Consulting Group  
330 Grand Ave. Unit C  
Grand Junction CO 81501

Ben Baugh  
Project Number: -  
Project: Heinze #1

## Total Metals by 6020B - Quality Control Waypoint Analytical, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch L602310 - 3050B</b>										
<b>MSD (L 99395-MSD-L602310)</b>			<b>Source: 99395</b>		Prepared: 03/01/2022 Analyzed: 03/08/2022					
Barium	102	0.042	mg/Kg	4.89	110	NR	75-125	22.6	80	*
Lead	11.2	0.031	"	2.45	10	49	75-125	8.5	80	*
Arsenic	3.18	0.0855	"	2.45	2.86	13	75-125	6.3	80	*
Cadmium	0.594	0.0259	"	0.489	0.183	121	75-125	2.2	80	
Copper	12.5	0.0806	"	2.45	12.9	NR	75-125	7.6	80	*
Selenium	3.8	0.103	"	4.89	0.409	69	75-125	3.7	80	*
Silver	0.548	0.0067	"	0.489	0.0515	112	75-125	3.9	80	
Zinc	62.3	0.534	"	24.5	42.9	79	75-125	2.2	80	
Nickel	15.8	0.0633	"	2.45	14	74	75-125	8.5	80	*
<b>MS (L 99395-MS-L602310)</b>			<b>Source: 99395</b>		Prepared: 03/01/2022 Analyzed: 03/05/2022					
Cadmium	0.581	0.0259	mg/Kg	0.483	0.183	120	75-125			
Zinc	63.7	0.534	"	24.2	42.9	86	75-125			
Selenium	3.66	0.103	"	4.83	0.409	67	75-125			*
Nickel	14.5	0.0633	"	2.42	14	21	75-125			*
Lead	12.2	0.031	"	2.42	10	91	75-125			
Copper	13.5	0.0806	"	2.42	12.9	25	75-125			*
Arsenic	3.39	0.0855	"	2.42	2.86	22	75-125			*
Silver	0.527	0.0067	"	0.483	0.0515	109	75-125			
Barium	128	0.042	"	4.83	110	373	75-125			*
<b>LCS (LCS-L602310)</b>			Prepared: 03/01/2022 Analyzed: 03/08/2022							
Arsenic	2.4	0.0855	mg/Kg	2.5		96	80-120			
Barium	5.24	0.042	"	5		105	80-120			
Cadmium	0.52	0.0259	"	0.5		104	80-120			
Copper	2.52	0.0806	"	2.5		101	80-120			
Lead	2.59	0.031	"	2.5		104	80-120			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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330 Grand Ave. Unit C  
Grand Junction CO 81501

Ben Baugh  
Project Number: -  
Project: Heinze #1

## Total Metals by 6020B - Quality Control Waypoint Analytical, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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### Batch L602310 - 3050B

#### LCS (LCS-L602310)

Prepared: 03/01/2022 Analyzed: 03/08/2022

Nickel	2.78	0.0633	mg/Kg	2.5		111	80-120			
Selenium	5.02	0.103	"	5		100	80-120			
Zinc	27	0.534	"	25		108	80-120			
Silver	0.542	0.0067	"	0.5		108	80-120			

#### LRB (LRB-L602310)

Prepared: 03/01/2022 Analyzed: 03/05/2022

Copper	ND	0.25	mg/Kg				-			
Arsenic	ND	0.25	"				-			
Barium	0.0494	0.25	"				-			J
Cadmium	ND	0.25	"				-			
Zinc	ND	2.5	"				-			
Silver	ND	0.25	"				-			
Selenium	ND	0.25	"				-			
Nickel	ND	0.25	"				-			
Lead	ND	0.25	"				-			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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330 Grand Ave. Unit C  
Grand Junction CO 81501

Ben Baugh  
Project Number: -  
Project: Heinze #1

**Total Metals by 7196A - Quality Control**  
**Waypoint Analytical, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch L603224 -</b>										
<b>DUP (L 94848-DUP)</b>		<b>Source: 94848</b>			Prepared: Analyzed: 03/07/2022					
Chromium, Hexavalent	ND	0.244	mg/Kg		94848	-		0	20	
<b>MS (L 94848-MS)</b>		<b>Source: 94848</b>			Prepared: Analyzed: 03/07/2022					
Chromium, Hexavalent	4.01	0.251	mg/Kg	8.27	94848	48	75-125			*
<b>LCS (LCS)</b>					Prepared: Analyzed: 03/07/2022					
Chromium, Hexavalent	6.68	0.244	mg/Kg	8		84	75-125			
<b>LRB (LRB)</b>					Prepared: Analyzed: 03/07/2022					
Chromium, Hexavalent	ND	0.5	mg/Kg							

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Jen Pellegrini, Project Manager

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Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Ben Baugh

Project Number: -

Project: Heinze #1

### Notes and Definitions

U Sample is Non-Detect.

J Estimated Value. Analyte below reported quantitation limit.

\* QC Failure

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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