

December 06, 2016

Tasman Geosciences

Bob Cornez

6899 Pecos Street, Unit C

Denver CO 80211

Project Name - KMG - Nishimoto 10-36

Project Number - 89169443

Attached are your analytical results for KMG - Nishimoto 10-36 received by Origins Laboratory, Inc. December 05, 2016. This project is associated with Origins project number X612064-01.

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



Tasman Geosciences  
6899 Pecos Street, Unit C  
Denver CO 80211

Bob Cornez  
Project Number: 89169443  
Project: KMG - Nishimoto 10-36

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
N01 @ 3.5'	X612064-01	Soil	December 5, 2016 15:30	12/05/2016 17:15
E01 @ 3.5'	X612064-02	Soil	December 5, 2016 15:35	12/05/2016 17:15
S01 @ 3.5'	X612064-03	Soil	December 5, 2016 15:40	12/05/2016 17:15
W01 @ 3.5'	X612064-04	Soil	December 5, 2016 15:45	12/05/2016 17:15
GW01	X612064-06	Water	December 5, 2016 15:15	12/05/2016 17:15

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 Project: KMG - Nishimoto 10-36

Origins Laboratory

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

**Sample Receipt Checklist**

Origins Work Order: XG12064

Client: Tasman

Client Project ID: Nishimoto 10-36

Checklist Completed by: Jef Smith

Shipped Via: Priority Pick Up  
(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 12-5-16

Airbill #: NA

Matrix(s) Received: (Check all that apply):  Soil/Solid  Water  Other: \_\_\_\_\_

Cooler Number/Temperature: 1 / 10.4 °C  / \_\_\_\_\_ °C  / \_\_\_\_\_ °C (Describe)  / \_\_\_\_\_ °C

Thermometer ID: T003

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"/>			
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"/>			PH
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? <b>If yes, contact client and note in narrative.</b>		<input checked="" type="checkbox"/>		12-5-16 ✓ (30)
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 HNO3, HCL, H2SO4) / (pH >10 for samples preserved with NaAsO2+NaOH, ZnAc+NaOH)	<input checked="" type="checkbox"/>			12-5-16 ✓ (K) HCL
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.

Jef Smith  
 Reviewed by (Project Manager)

12-5-16  
 Date/Time Reviewed

Origins Laboratory, Inc.



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**N01 @ 3.5'**  
**12/5/2016 3:30:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**X612064-01 (Soil)**

**DRO/RRO by EPA8015C**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B6L0503	12/05/2016	12/05/2016	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

*Surrogate: o-Terphenyl* 82.0 % 59-131 " " "

**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B6L0502	12/05/2016	12/05/2016	U
Benzene	<b>0.328</b>	0.050	"	"	"	"	"	
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	<b>0.128</b>	0.050	"	"	"	"	"	
Xylenes, total	<b>0.656</b>	0.050	"	"	"	"	"	

*Surrogate: 1,2-Dichloroethane-d4* 92.5 % 70-130 " " "  
*Surrogate: Toluene-d8* 98.2 % 70-130 " " "  
*Surrogate: 4-Bromofluorobenzene* 102 % 70-130 " " "

**pH in Soil by EPA 9045D**

pH	<b>7.83</b>		pH Units	1	B6L0507	12/05/2016	12/05/2016	
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	<b>0.281</b>		mmhos/cm	"	B6L0508	12/05/2016	12/05/2016	
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 Project: KMG - Nishimoto 10-36

**E01 @ 3.5'**  
**12/5/2016 3:35:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**X612064-02 (Soil)**

**DRO/RRO by EPA8015C**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B6L0503	12/05/2016	12/05/2016	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

*Surrogate: o-Terphenyl* 81.1 % 59-131 " " "

**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B6L0502	12/05/2016	12/05/2016	U
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	<b>0.136</b>	0.050	"	"	"	"	"	
Xylenes, total	<b>0.182</b>	0.050	"	"	"	"	"	

*Surrogate: 1,2-Dichloroethane-d4* 91.3 % 70-130 " " "  
*Surrogate: Toluene-d8* 98.0 % 70-130 " " "  
*Surrogate: 4-Bromofluorobenzene* 101 % 70-130 " " "

**pH in Soil by EPA 9045D**

pH	<b>7.59</b>		pH Units	1	B6L0507	12/05/2016	12/05/2016	
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	<b>0.163</b>		mmhos/cm	"	B6L0508	12/05/2016	12/05/2016	
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**S01 @ 3.5'**  
**12/5/2016 3:40:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**X612064-03 (Soil)**

**DRO/RRO by EPA8015C**

Diesel (C10-C28)	<b>432</b>	25.0	mg/kg	1	B6L0503	12/05/2016	12/05/2016	
Residual Range Organics (C28-C40)	<b>175</b>	100	"	"	"	"	"	

Surrogate: *o*-Terphenyl 96.1 % 59-131 " " "

**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	<b>205</b>	5.00	mg/kg	25	B6L0502	12/05/2016	12/05/2016	
Benzene	<b>0.424</b>	0.050	"	"	"	"	"	
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	<b>1.42</b>	0.050	"	"	"	"	"	
Xylenes, total	<b>8.09</b>	0.050	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4 96.8 % 70-130 " " "  
 Surrogate: Toluene-d8 81.5 % 70-130 " " "  
 Surrogate: 4-Bromofluorobenzene 116 % 70-130 " " "

**pH in Soil by EPA 9045D**

pH	<b>7.68</b>		pH Units	1	B6L0507	12/05/2016	12/05/2016	
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	<b>0.0749</b>		mmhos/cm	"	B6L0508	12/05/2016	12/05/2016	
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**W01 @ 3.5'**  
**12/5/2016 3:45:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**X612064-04 (Soil)**

**DRO/RRO by EPA8015C**

Diesel (C10-C28)	<b>432</b>	25.0	mg/kg	1	B6L0503	12/05/2016	12/05/2016	
Residual Range Organics (C28-C40)	<b>168</b>	100	"	"	"	"	"	

Surrogate: *o*-Terphenyl 102 % 59-131 " " "

**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	<b>160</b>	5.00	mg/kg	25	B6L0502	12/05/2016	12/05/2016	
Benzene	<b>0.742</b>	0.050	"	"	"	"	"	
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	<b>0.482</b>	0.050	"	"	"	"	"	
Xylenes, total	<b>3.68</b>	0.050	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4 96.5 % 70-130 " " "  
 Surrogate: Toluene-d8 88.8 % 70-130 " " "  
 Surrogate: 4-Bromofluorobenzene 113 % 70-130 " " "

**pH in Soil by EPA 9045D**

pH	<b>7.42</b>		pH Units	1	B6L0507	12/05/2016	12/05/2016	
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	<b>0.0739</b>		mmhos/cm	"	B6L0508	12/05/2016	12/05/2016	
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**GW01**  
**12/5/2016 3:15:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**X612064-06 (Water)**

**BTEX by EPA 8260C**

Benzene	116	4.00	ug/L	4	B6L0501	12/05/2016	12/05/2016	
Toluene	292	4.00	"	"	"	"	"	
Ethylbenzene	83.8	4.00	"	"	"	"	"	
Xylenes, total	864	4.00	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4	104 %	84-121			"	"	"	
Surrogate: Toluene-d8	101 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	98.2 %	84-114			"	"	"	

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**Volatile Organic Compounds by GC/MS SW846 8260C - 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 B6L0501 - EPA 5030B (Water)**

**Blank (B6L0501-BLK1)**

Prepared: 12/05/2016 Analyzed: 12/05/2016

Benzene	ND	1.00	ug/L							U
Toluene	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Xylenes, total	ND	1.00	"							U
Surrogate: 1,2-Dichloroethane-d4	63		"	62.5		100	84-121			
Surrogate: Toluene-d8	60		"	62.5		96.0	85-115			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		98.2	84-114			

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**Volatile Organic Compounds by GC/MS SW846 8260C - 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 B6L0501 - EPA 5030B (Water)**

**LCS (B6L0501-BS1)**

Prepared: 12/05/2016 Analyzed: 12/05/2016

Benzene	53.0	1.00	ug/L	50.0		106	73.3-129			
Toluene	53.3	1.00	"	50.0		107	76.2-123			
Ethylbenzene	55.9	1.00	"	50.0		112	73.6-130			
m,p-Xylene	110	2.00	"	100		110	76.1-126			
o-Xylene	54.8	1.00	"	50.0		110	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	62		"	62.5		98.4	84-121			
Surrogate: Toluene-d8	63		"	62.5		101	85-115			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	84-114			

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**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B6L0501 - EPA 5030B (Water)

Matrix Spike (B6L0501-MS1)	Source: X612030-02			Prepared: 12/05/2016 Analyzed: 12/05/2016						
Benzene	51.4	1.00	ug/L	50.0	103	74-130				
Toluene	52.3	1.00	"	50.0	105	73-131				
Ethylbenzene	54.3	1.00	"	50.0	109	76-132				
m,p-Xylene	107	2.00	"	100	107	69-139				
o-Xylene	53.2	1.00	"	50.0	106	74-131				
Surrogate: 1,2-Dichloroethane-d4	62		"	62.5	99.8	84-121				
Surrogate: Toluene-d8	62		"	62.5	99.0	85-115				
Surrogate: 4-Bromofluorobenzene	62		"	62.5	99.3	84-114				

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**Volatile Organic Compounds by GC/MS SW846 8260C - 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 B6L0501 - EPA 5030B (Water)**

Matrix Spike Dup (B6L0501-MSD1)	Source: X612030-02			Prepared: 12/05/2016 Analyzed: 12/05/2016						
Benzene	51.0	1.00	ug/L	50.0	102	74-130	0.664	20		
Toluene	51.3	1.00	"	50.0	103	73-131	1.95	20		
Ethylbenzene	52.6	1.00	"	50.0	105	76-132	3.14	20		
m,p-Xylene	106	2.00	"	100	106	69-139	0.442	20		
o-Xylene	52.2	1.00	"	50.0	104	74-131	1.90	20		
Surrogate: 1,2-Dichloroethane-d4	60		"	62.5	96.6	84-121				
Surrogate: Toluene-d8	61		"	62.5	98.1	85-115				
Surrogate: 4-Bromofluorobenzene	59		"	62.5	94.8	84-114				

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B6L0502 - EPA 5030 (soil)</b>										
<b>Blank (B6L0502-BLK1)</b>										
					Prepared: 12/05/2016 Analyzed: 12/05/2016					
Gasoline Range Hydrocarbons	ND	0.200	mg/kg							U
Benzene	ND	0.002	"							U
Toluene	ND	0.002	"							U
Ethylbenzene	ND	0.002	"							U
Xylenes, total	ND	0.002	"							U
Surrogate: 1,2-Dichloroethane-d4	58		ug/kg	62.5		93.1	70-130			
Surrogate: Toluene-d8	60		"	62.5		95.9	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		98.3	70-130			

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**Volatile Organic Compounds by GC/MS SW846 8260C - 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 B6L0502 - EPA 5030 (soil)**

**LCS (B6L0502-BS1)**

Prepared: 12/05/2016 Analyzed: 12/05/2016

Benzene	0.110	0.002	mg/kg	0.100		110	77.1-124			
Toluene	0.105	0.002	"	0.100		105	74.5-128			
Ethylbenzene	0.106	0.002	"	0.100		106	66.4-127			
m,p-Xylene	0.212	0.004	"	0.200		106	76.6-124			
o-Xylene	0.106	0.002	"	0.100		106	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	48		ug/kg	62.5		77.2	70-130			
Surrogate: Toluene-d8	61		"	62.5		97.3	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.7	70-130			

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B6L0502 - EPA 5030 (soil)**

<b>Matrix Spike (B6L0502-MS1)</b>	<b>Source: X612024-01</b>			<b>Prepared: 12/05/2016 Analyzed: 12/05/2016</b>						
Benzene	0.104	0.002	mg/kg	0.100	ND	104	71.8-126			
Toluene	0.096	0.002	"	0.100	ND	96.3	65.1-130			
Ethylbenzene	0.101	0.002	"	0.100	ND	101	62.2-130			
m,p-Xylene	0.204	0.004	"	0.200	ND	102	46.5-137			
o-Xylene	0.101	0.002	"	0.100	ND	101	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	66		ug/kg	62.5		105	70-130			
Surrogate: Toluene-d8	60		"	62.5		96.0	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	70-130			

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**Volatile Organic Compounds by GC/MS SW846 8260C - 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 B6L0502 - EPA 5030 (soil)

Matrix Spike Dup (B6L0502-MSD1)	Source: X612024-01			Prepared: 12/05/2016 Analyzed: 12/05/2016						
Benzene	0.100	0.002	mg/kg	0.100	ND	99.9	71.8-126	4.23	11.3	
Toluene	0.094	0.002	"	0.100	ND	94.1	65.1-130	2.29	15.4	
Ethylbenzene	0.097	0.002	"	0.100	ND	96.8	62.2-130	4.42	19.6	
m,p-Xylene	0.193	0.004	"	0.200	ND	96.6	46.5-137	5.61	19.2	
o-Xylene	0.096	0.002	"	0.100	ND	96.3	54.2-134	5.04	17.9	
Surrogate: 1,2-Dichloroethane-d4	66		ug/kg	62.5		105	70-130			
Surrogate: Toluene-d8	61		"	62.5		97.9	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		103	70-130			

Origins Laboratory, Inc.



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Tasman Geosciences  
 6899 Pecos Street, Unit C  
 Denver CO 80211

Bob Cornez  
 Project Number: 89169443  
 Project: KMG - Nishimoto 10-36

**Volatile Organic Compounds by GC/MS SW846 8260C - 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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**Extractable Petroleum Hydrocarbons by 8015C - 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 B6L0503 - EPA 3580**

**Blank (B6L0503-BLK1)**

Prepared: 12/05/2016 Analyzed: 12/05/2016

Diesel (C10-C28)	ND	50.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	38		"	50.0		76.2	59-131			

**LCS (B6L0503-BS1)**

Prepared: 12/05/2016 Analyzed: 12/05/2016

Diesel (C10-C28)	796	50.0	mg/kg	1000		79.6	64-121			
Residual Range Organics (C28-C40)	967	200	"	1000		96.7	58-124			
Surrogate: o-Terphenyl	41		"	50.0		81.9	59-131			

**Matrix Spike (B6L0503-MS1)**

Source: X612024-01

Prepared: 12/05/2016 Analyzed: 12/05/2016

Diesel (C10-C28)	843	50.0	mg/kg	1000	26.4	81.7	53-125			
Residual Range Organics (C28-C40)	981	200	"	1000	49.9	93.1	47-133			
Surrogate: o-Terphenyl	43		"	50.0		85.1	59-131			

**Matrix Spike Dup (B6L0503-MSD1)**

Source: X612024-01

Prepared: 12/05/2016 Analyzed: 12/05/2016

Diesel (C10-C28)	837	50.0	mg/kg	1000	26.4	81.0	53-125	0.816	20	
Residual Range Organics (C28-C40)	990	200	"	1000	49.9	94.0	47-133	0.971	20	
Surrogate: o-Terphenyl	44		"	50.0		88.1	59-131			

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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
<b>Batch B6L0507 - NO PREP</b>										
<b>Duplicate (B6L0507-DUP1)</b>		<b>Source: X612064-01</b>			Prepared: 12/05/2016 Analyzed: 12/05/2016					
pH	7.81		pH Units		7.83			0.256	25	
<b>Batch B6L0508 - NO PREP</b>										
<b>Blank (B6L0508-BLK1)</b>		Prepared: 12/05/2016 Analyzed: 12/05/2016								
Specific Conductance (EC)	0.00320		mmhos/cm							
<b>Duplicate (B6L0508-DUP1)</b>		<b>Source: X612064-01</b>			Prepared: 12/05/2016 Analyzed: 12/05/2016					
Specific Conductance (EC)	0.292		mmhos/cm		0.281			3.84	25	

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Denver CO 80211

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**Notes and Definitions**

U Sample is Non-Detect.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

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Jen Pellegrini For Noelle Doyle Mathis, President