

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 / 4.4 °C 1 °C 1 °C (Describe) 1 °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 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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**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)**

<b>Matrix Spike (B6L0501-MS1)</b>	<b>Source: X612030-02</b>			<b>Prepared: 12/05/2016 Analyzed: 12/05/2016</b>						
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)**

<b>Matrix Spike Dup (B6L0501-MSD1)</b>	<b>Source: X612030-02</b>			<b>Prepared: 12/05/2016 Analyzed: 12/05/2016</b>						
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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 Denver CO 80211

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

**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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6899 Pecos Street, Unit C  
Denver CO 80211

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

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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.

Origins Laboratory, Inc.



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---

Jen Pellegrini For Noelle Doyle Mathis, President

December 07, 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 06, 2016. This project is associated with Origins project number X612087-01.

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
N02 @ 3.5'	X612087-01	Soil	December 6, 2016 15:40	12/06/2016 17:10
W02 @ 3.5'	X612087-02	Soil	December 6, 2016 15:45	12/06/2016 17:10
S02 @ 3.5'	X612087-03	Soil	December 6, 2016 15:50	12/06/2016 17:10

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

Origins Laboratory

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

**Sample Receipt Checklist**

Origins Work Order: X612087 Client: Tasman  
 Client Project ID: Nishimoto 10-36  
 Checklist Completed by: Jose Smith Shipped Via: Hand Pick Up  
 Date/time completed: 12-6-12 (UPS, FedEx, Hand Delivered, Pick-up, etc.)  
 Airbill #: NA  
 Matrix(s) Received: (Check all that apply):  Soil/Solid  Water  Other: \_\_\_\_\_  
 Cooler Number/Temperature: 1 / 1.3 °C 1 °C 1 °C (Describe)  
 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"/>	<u>12-6-12</u>		<u>PH</u>
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 HNO3, HCL, H2SO4) / (pH >10 for samples preserved with NaAsO2+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) [Signature] Date/Time Reviewed 12-6-12

Origins Laboratory, Inc.

*Jose Pellegrini*

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Tasman Geosciences  
 6899 Pecos Street, Unit C  
 Denver CO 80211

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

**N02 @ 3.5'**  
**12/6/2016 3:40:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**X612087-01 (Soil)**

**DRO/RRO by EPA8015C**

Diesel (C10-C28)	<b>869</b>	25.0	mg/kg	1	B6L0605	12/06/2016	12/06/2016	
Residual Range Organics (C28-C40)	<b>225</b>	100	"	"	"	"	"	

Surrogate: *o*-Terphenyl 69.2 % 59-131 " " "

**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	<b>310</b>	5.00	mg/kg	25	B6L0604	12/06/2016	12/07/2016	
Benzene	<b>0.140</b>	0.050	"	"	"	"	"	
Toluene	<b>0.068</b>	0.050	"	"	"	"	"	
Ethylbenzene	<b>0.749</b>	0.050	"	"	"	"	"	
Xylenes, total	<b>8.44</b>	0.050	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4 105 % 70-130 " " "  
 Surrogate: Toluene-d8 108 % 70-130 " " "  
 Surrogate: 4-Bromofluorobenzene 92.1 % 70-130 " " "

**pH in Soil by EPA 9045D**

pH	<b>8.64</b>		pH Units	1	B6L0606	12/06/2016	12/06/2016	
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	<b>0.0773</b>		mmhos/cm	"	B6L0607	"	12/06/2016	
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Origins Laboratory, Inc.



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 6899 Pecos Street, Unit C  
 Denver CO 80211

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

**W02 @ 3.5'**  
**12/6/2016 3:45:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**X612087-02 (Soil)**

**DRO/RRO by EPA8015C**

Diesel (C10-C28)	103	25.0	mg/kg	1	B6L0605	12/06/2016	12/06/2016	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: *o*-Terphenyl 57.6 % 59-131 " " " S-DUP

**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	49.4	5.00	mg/kg	25	B6L0604	12/06/2016	12/07/2016	
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 109 % 70-130 " " " "  
 Surrogate: Toluene-d8 98.6 % 70-130 " " " "  
 Surrogate: 4-Bromofluorobenzene 92.3 % 70-130 " " " "

**pH in Soil by EPA 9045D**

pH	8.29		pH Units	1	B6L0606	12/06/2016	12/06/2016	
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.0983		mmhos/cm	"	B6L0607	"	12/06/2016	
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 6899 Pecos Street, Unit C  
 Denver CO 80211

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

**S02 @ 3.5'**  
**12/6/2016 3:50:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**X612087-03 (Soil)**

**DRO/RRO by EPA8015C**

Diesel (C10-C28)	27.1	25.0	mg/kg	1	B6L0605	12/06/2016	12/06/2016	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: *o*-Terphenyl 63.2 % 59-131 " " "

**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	11.4	5.00	mg/kg	25	B6L0604	12/06/2016	12/07/2016	
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 103 % 70-130 " " "

Surrogate: Toluene-d8 99.0 % 70-130 " " "

Surrogate: 4-Bromofluorobenzene 94.2 % 70-130 " " "

**pH in Soil by EPA 9045D**

pH	8.70		pH Units	1	B6L0606	12/06/2016	12/06/2016	
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.0476		mmhos/cm	"	B6L0607	"	12/06/2016	
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 6899 Pecos Street, Unit C  
 Denver CO 80211

Bob Cornez  
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 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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**Batch B6L0604 - EPA 5030 (soil)**

**Blank (B6L0604-BLK1)**

Prepared: 12/06/2016 Analyzed: 12/06/2016

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	61		ug/kg	62.5		97.4	70-130			
Surrogate: Toluene-d8	60		"	62.5		95.5	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		103	70-130			

Origins Laboratory, Inc.



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 Denver CO 80211

Bob Cornez  
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 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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**Batch B6L0604 - EPA 5030 (soil)**

**LCS (B6L0604-BS1)**

Prepared: 12/06/2016 Analyzed: 12/06/2016

Benzene	0.109	0.002	mg/kg	0.100		109	77.1-124			
Toluene	0.099	0.002	"	0.100		99.4	74.5-128			
Ethylbenzene	0.106	0.002	"	0.100		106	66.4-127			
m,p-Xylene	0.218	0.004	"	0.200		109	76.6-124			
o-Xylene	0.108	0.002	"	0.100		108	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	61		ug/kg	62.5		97.5	70-130			
Surrogate: Toluene-d8	59		"	62.5		94.5	70-130			
Surrogate: 4-Bromofluorobenzene	65		"	62.5		104	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 B6L0604 - EPA 5030 (soil)

Matrix Spike (B6L0604-MS1)	Source: X612033-06			Prepared: 12/06/2016 Analyzed: 12/06/2016						
Benzene	0.107	0.002	mg/kg	0.100	ND	107	71.8-126			
Toluene	0.097	0.002	"	0.100	ND	97.1	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	0.100	0.002	"	0.100	ND	99.9	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	62		ug/kg	62.5		99.4	70-130			
Surrogate: Toluene-d8	60		"	62.5		95.9	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		102	70-130			

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 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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Batch B6L0604 - EPA 5030 (soil)

Matrix Spike Dup (B6L0604-MSD1)	Source: X612033-06			Prepared: 12/06/2016 Analyzed: 12/06/2016						
Benzene	0.113	0.002	mg/kg	0.100	ND	113	71.8-126	5.50	11.3	
Toluene	0.104	0.002	"	0.100	ND	104	65.1-130	6.96	15.4	
Ethylbenzene	0.110	0.002	"	0.100	ND	110	62.2-130	8.00	19.6	
m,p-Xylene	0.226	0.004	"	0.200	ND	113	46.5-137	10.1	19.2	
o-Xylene	0.110	0.002	"	0.100	ND	110	54.2-134	9.74	17.9	
Surrogate: 1,2-Dichloroethane-d4	50		ug/kg	62.5		79.8	70-130			
Surrogate: Toluene-d8	60		"	62.5		95.9	70-130			
Surrogate: 4-Bromofluorobenzene	65		"	62.5		103	70-130			

Origins Laboratory, Inc.



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 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 B6L0605 - EPA 3580**

**Blank (B6L0605-BLK1)**

Prepared: 12/06/2016 Analyzed: 12/06/2016

Diesel (C10-C28)	ND	50.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	34		"	50.0		68.0	59-131			

**LCS (B6L0605-BS1)**

Prepared: 12/06/2016 Analyzed: 12/06/2016

Diesel (C10-C28)	754	50.0	mg/kg	1000		75.4	64-121			
Residual Range Organics (C28-C40)	844	200	"	1000		84.4	58-124			
Surrogate: o-Terphenyl	30		"	50.0		60.0	59-131			

**Matrix Spike (B6L0605-MS1)**

Source: X612033-06

Prepared: 12/06/2016 Analyzed: 12/06/2016

Diesel (C10-C28)	847	50.0	mg/kg	1000	26.1	82.1	53-125			
Residual Range Organics (C28-C40)	991	200	"	1000	49.8	94.1	47-133			
Surrogate: o-Terphenyl	36		"	50.0		72.2	59-131			

**Matrix Spike Dup (B6L0605-MSD1)**

Source: X612033-06

Prepared: 12/06/2016 Analyzed: 12/06/2016

Diesel (C10-C28)	755	50.0	mg/kg	1000	26.1	72.9	53-125	11.8	20	
Residual Range Organics (C28-C40)	833	200	"	1000	49.8	78.3	47-133	18.4	20	
Surrogate: o-Terphenyl	32		"	50.0		64.5	59-131			

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences  
 6899 Pecos Street, Unit C  
 Denver CO 80211

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

**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 B6L0606 - NO PREP</b>										
<b>Duplicate (B6L0606-DUP1)</b>		<b>Source: X612033-06</b>			Prepared: 12/06/2016 Analyzed: 12/06/2016					
pH	8.94		pH Units		9.01			0.780	25	
<b>Batch B6L0607 - NO PREP</b>										
<b>Blank (B6L0607-BLK1)</b>		Prepared: 12/06/2016 Analyzed: 12/06/2016								
Specific Conductance (EC)	0.00280		mmhos/cm							
<b>Duplicate (B6L0607-DUP1)</b>		<b>Source: X612033-06</b>			Prepared: 12/06/2016 Analyzed: 12/06/2016					
Specific Conductance (EC)	0.0471		mmhos/cm		0.0430			9.10	25	

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

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**Notes and Definitions**

U Sample is Non-Detect.

S-DUP Duplicate analysis confirmed surrogate failure due to matrix effects.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

---

Jen Pellegrini For Noelle Doyle Mathis, President

December 08, 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 07, 2016. This project is associated with Origins project number X612104-01.

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
N03@3.5'	X612104-01	Soil	December 7, 2016 15:20	12/07/2016 17:05
E02@3.5'	X612104-02	Soil	December 7, 2016 15:25	12/07/2016 17:05
W03@3.5'	X612104-03	Soil	December 7, 2016 15:30	12/07/2016 17:05

Sample ID W02@3.5' was changed to W03@3.5' per the phone call with Rob on 12/8/16.

Origins Laboratory, Inc.



*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*



Tasman Geosciences  
 6899 Pecos Street, Unit C  
 Denver CO 80211

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

Origins Laboratory

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

**Sample Receipt Checklist**

Origins Work Order: X612104

Client: Tasman Geosciences

Client Project ID: Nishimoto 10-36

Checklist Completed by: Jeff Henderson

Shipped Via: Dickweed

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

Date/time completed: 12/7/12 17:26

Airbill #: NA

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

Cooler Number/Temperature: 1 / 15.3 °C / \_\_\_\_\_ °C / \_\_\_\_\_ °C (Describe)

Thermometer ID: 1003

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> ?	X			
Is there ice present (document if blue ice is used)	X			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		X		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		X		
Were all samples received intact <sup>(1)</sup> ?	X			
Was adequate sample volume provided <sup>(1)</sup> ?	X			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?	X			pH
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	X			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	X			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	X			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	X			
For volatiles in water – is there headspace (> ¼ inch bubble) present? <b>If yes, contact client and note in narrative.</b>			X	
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)			X	
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.

Jeff Henderson  
 Reviewed by (Project Manager)

12-7-12  
 Date/Time Reviewed

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences  
 6899 Pecos Street, Unit C  
 Denver CO 80211

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

**N03@3.5'**  
**12/7/2016 3:20:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**X612104-01 (Soil)**

**DRO/RRO by EPA8015C**

Diesel (C10-C28)	27.3	25.0	mg/kg	1	B6L0705	12/07/2016	12/07/2016	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: *o*-Terphenyl 66.4 % 59-131 " " "

**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B6L0703	12/07/2016	12/07/2016	U
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 108 % 70-130 " " "  
 Surrogate: Toluene-d8 99.9 % 70-130 " " "  
 Surrogate: 4-Bromofluorobenzene 93.0 % 70-130 " " "

**pH in Soil by EPA 9045D**

pH	8.24		pH Units	1	B6L0707	12/07/2016	12/07/2016	
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.283		mmhos/cm	"	B6L0708	"	12/07/2016	
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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

**E02@3.5'**  
**12/7/2016 3:25:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**X612104-02 (Soil)**

**DRO/RRO by EPA8015C**

Diesel (C10-C28)	<b>480</b>	25.0	mg/kg	1	B6L0705	12/07/2016	12/07/2016	
Residual Range Organics (C28-C40)	<b>172</b>	100	"	"	"	"	"	

Surrogate: *o*-Terphenyl 73.8 % 59-131 " " "

**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	<b>166</b>	5.00	mg/kg	25	B6L0703	12/07/2016	12/07/2016	
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	<b>0.050</b>	0.050	"	"	"	"	"	
Xylenes, total	<b>0.816</b>	0.050	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4 110 % 70-130 " " "  
 Surrogate: Toluene-d8 103 % 70-130 " " "  
 Surrogate: 4-Bromofluorobenzene 93.5 % 70-130 " " "

**pH in Soil by EPA 9045D**

pH	<b>8.29</b>		pH Units	1	B6L0707	12/07/2016	12/07/2016	
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	<b>0.0488</b>		mmhos/cm	"	B6L0708	"	12/07/2016	
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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

**W03@3.5'**  
**12/7/2016 3:30:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**X612104-03 (Soil)**

**DRO/RRO by EPA8015C**

Diesel (C10-C28)	27.3	25.0	mg/kg	1	B6L0705	12/07/2016	12/07/2016	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	59.3 %	59-131			"	"	"	
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**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B6L0703	12/07/2016	12/07/2016	U
Benzene	0.073	0.050	"	"	"	"	"	
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	0.226	0.050	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	106 %	70-130			"	"	"	
Surrogate: Toluene-d8	102 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	90.0 %	70-130			"	"	"	

**pH in Soil by EPA 9045D**

pH	7.96		pH Units	1	B6L0707	12/07/2016	12/07/2016	
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.0626		mmhos/cm	"	B6L0708	"	12/07/2016	
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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
<b>Batch B6L0703 - EPA 5030 (soil)</b>										
<b>Blank (B6L0703-BLK1)</b>										
					Prepared: 12/07/2016 Analyzed: 12/07/2016					
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	57		ug/kg	62.5		91.6	70-130			
Surrogate: Toluene-d8	58		"	62.5		92.8	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		102	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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**Batch B6L0703 - EPA 5030 (soil)**

**LCS (B6L0703-BS1)**

Prepared: 12/07/2016 Analyzed: 12/07/2016

Benzene	0.113	0.002	mg/kg	0.100		113	77.1-124			
Toluene	0.101	0.002	"	0.100		101	74.5-128			
Ethylbenzene	0.106	0.002	"	0.100		106	66.4-127			
m,p-Xylene	0.218	0.004	"	0.200		109	76.6-124			
o-Xylene	0.106	0.002	"	0.100		106	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	62		ug/kg	62.5		99.2	70-130			
Surrogate: Toluene-d8	59		"	62.5		94.8	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	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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Batch B6L0703 - EPA 5030 (soil)

Matrix Spike (B6L0703-MS1)	Source: X612055-01			Prepared: 12/07/2016 Analyzed: 12/07/2016						
Benzene	0.119	0.002	mg/kg	0.100	ND	119	71.8-126			
Toluene	0.107	0.002	"	0.100	ND	107	65.1-130			
Ethylbenzene	0.111	0.002	"	0.100	ND	111	62.2-130			
m,p-Xylene	0.227	0.004	"	0.200	ND	113	46.5-137			
o-Xylene	0.109	0.002	"	0.100	ND	109	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	52		ug/kg	62.5		83.9	70-130			
Surrogate: Toluene-d8	59		"	62.5		95.1	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	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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Batch B6L0703 - EPA 5030 (soil)

Matrix Spike Dup (B6L0703-MSD1)	Source: X612055-01			Prepared: 12/07/2016 Analyzed: 12/07/2016						
Benzene	0.121	0.002	mg/kg	0.100	ND	121	71.8-126	1.72	11.3	
Toluene	0.108	0.002	"	0.100	ND	108	65.1-130	1.21	15.4	
Ethylbenzene	0.114	0.002	"	0.100	ND	114	62.2-130	2.51	19.6	
m,p-Xylene	0.235	0.004	"	0.200	ND	117	46.5-137	3.53	19.2	
o-Xylene	0.115	0.002	"	0.100	ND	115	54.2-134	4.63	17.9	
Surrogate: 1,2-Dichloroethane-d4	50		ug/kg	62.5		80.4	70-130			
Surrogate: Toluene-d8	60		"	62.5		96.5	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		102	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 B6L0705 - EPA 3580**

**Blank (B6L0705-BLK1)**

Prepared: 12/07/2016 Analyzed: 12/07/2016

Diesel (C10-C28)	ND	50.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	36		"	50.0		71.8	59-131			

**LCS (B6L0705-BS1)**

Prepared: 12/07/2016 Analyzed: 12/07/2016

Diesel (C10-C28)	729	50.0	mg/kg	1000		72.9	64-121			
Residual Range Organics (C28-C40)	862	200	"	1000		86.2	58-124			
Surrogate: o-Terphenyl	30		"	50.0		60.7	59-131			

**Matrix Spike (B6L0705-MS1)**

Source: X612059-01

Prepared: 12/07/2016 Analyzed: 12/07/2016

Diesel (C10-C28)	674	50.0	mg/kg	1000	40.3	63.4	53-125			
Residual Range Organics (C28-C40)	854	200	"	1000	105	74.9	47-133			
Surrogate: o-Terphenyl	34		"	50.0		67.5	59-131			

**Matrix Spike Dup (B6L0705-MSD1)**

Source: X612059-01

Prepared: 12/07/2016 Analyzed: 12/07/2016

Diesel (C10-C28)	692	50.0	mg/kg	1000	40.3	65.2	53-125	2.72	20	
Residual Range Organics (C28-C40)	868	200	"	1000	105	76.3	47-133	1.82	20	
Surrogate: o-Terphenyl	37		"	50.0		73.7	59-131			

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Tasman Geosciences  
 6899 Pecos Street, Unit C  
 Denver CO 80211

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

**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 B6L0707 - NO PREP</b>										
<b>Duplicate (B6L0707-DUP1)</b>		<b>Source: X612103-01</b>			Prepared: 12/07/2016 Analyzed: 12/07/2016					
pH	8.86		pH Units		8.90			0.450	25	
<b>Batch B6L0708 - NO PREP</b>										
<b>Blank (B6L0708-BLK1)</b>		Prepared: 12/07/2016 Analyzed: 12/07/2016								
Specific Conductance (EC)	0.00320		mmhos/cm							
<b>Duplicate (B6L0708-DUP1)</b>		<b>Source: X612103-01</b>			Prepared: 12/07/2016 Analyzed: 12/07/2016					
Specific Conductance (EC)	0.122		mmhos/cm		0.116			5.38	25	

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

---

**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.

Origins Laboratory, Inc.



*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

---

Jen Pellegrini For Noelle Doyle Mathis, President

December 09, 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 08, 2016. This project is associated with Origins project number X612112-01.

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
E03 @ 3.5	X612112-01	Soil	December 8, 2016 10:30	12/08/2016 16:35

Origins Laboratory, Inc.



*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*



Tasman Geosciences  
 6899 Pecos Street, Unit C  
 Denver CO 80211

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

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: X612112

Client: Tasman

Client Project ID: Nishimoto 10-36

Checklist Completed by: Jeff Smith

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

Date/time completed: 12-5-12

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 1.4 °C \_\_\_\_\_ °C \_\_\_\_\_ °C (Describe)

Thermometer ID: T203

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"/>			DH
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"/>	
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"/>	
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: [Signature] (Project Manager)

Date/Time Reviewed: 12-8-12

Origins Laboratory, Inc.

[Signature]

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 Denver CO 80211

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**E03 @ 3.5**  
**12/8/2016 10:30:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**X612112-01 (Soil)**

**DRO/RRO by EPA8015C**

Diesel (C10-C28)	30.7	25.0	mg/kg	1	B6L0805	12/08/2016	12/09/2016	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: *o*-Terphenyl 65.5 % 59-131 " " "

**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B6L0804	12/08/2016	12/08/2016	U
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 94.2 % 70-130 " " "  
 Surrogate: Toluene-d8 96.6 % 70-130 " " "  
 Surrogate: 4-Bromofluorobenzene 99.6 % 70-130 " " "

**pH in Soil by EPA 9045D**

pH	7.62		pH Units	1	B6L0807	12/08/2016	12/08/2016	
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**Specific Conductance by Modified 9050A**

Specific Conductance (EC)	0.822		mmhos/cm	"	B6L0808	12/08/2016	12/08/2016	
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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 B6L0804 - EPA 5030 (soil)</b>										
<b>Blank (B6L0804-BLK1)</b>										
					Prepared: 12/08/2016 Analyzed: 12/08/2016					
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	60		ug/kg	62.5		95.4	70-130			
Surrogate: Toluene-d8	60		"	62.5		95.2	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 B6L0804 - EPA 5030 (soil)**

**LCS (B6L0804-BS1)**

Prepared: 12/08/2016 Analyzed: 12/08/2016

Benzene	0.117	0.002	mg/kg	0.100		117	77.1-124			
Toluene	0.108	0.002	"	0.100		108	74.5-128			
Ethylbenzene	0.113	0.002	"	0.100		113	66.4-127			
m,p-Xylene	0.231	0.004	"	0.200		116	76.6-124			
o-Xylene	0.112	0.002	"	0.100		112	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	62		ug/kg	62.5		99.7	70-130			
Surrogate: Toluene-d8	60		"	62.5		96.4	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 B6L0804 - EPA 5030 (soil)**

<b>Matrix Spike (B6L0804-MS1)</b>	<b>Source: X612109-01</b>			<b>Prepared: 12/08/2016 Analyzed: 12/08/2016</b>						
Benzene	0.124	0.002	mg/kg	0.100	ND	124	71.8-126			
Toluene	0.113	0.002	"	0.100	ND	113	65.1-130			
Ethylbenzene	0.117	0.002	"	0.100	ND	117	62.2-130			
m,p-Xylene	0.242	0.004	"	0.200	ND	121	46.5-137			
o-Xylene	0.116	0.002	"	0.100	ND	116	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	46		ug/kg	62.5		73.5	70-130			
Surrogate: Toluene-d8	59		"	62.5		95.1	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		100	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 B6L0804 - EPA 5030 (soil)

Matrix Spike Dup (B6L0804-MSD1)	Source: X612109-01			Prepared: 12/08/2016 Analyzed: 12/08/2016						
Benzene	0.123	0.002	mg/kg	0.100	ND	123	71.8-126	0.681	11.3	
Toluene	0.114	0.002	"	0.100	ND	114	65.1-130	0.937	15.4	
Ethylbenzene	0.117	0.002	"	0.100	ND	117	62.2-130	0.189	19.6	
m,p-Xylene	0.242	0.004	"	0.200	ND	121	46.5-137	0.0578	19.2	
o-Xylene	0.116	0.002	"	0.100	ND	116	54.2-134	0.0344	17.9	
Surrogate: 1,2-Dichloroethane-d4	49		ug/kg	62.5		78.5	70-130			
Surrogate: Toluene-d8	60		"	62.5		96.7	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		100	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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**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 B6L0805 - EPA 3580**

**Blank (B6L0805-BLK1)**

Prepared: 12/08/2016 Analyzed: 12/08/2016

Diesel (C10-C28)	ND	50.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	37		"	50.0		73.4	59-131			

**LCS (B6L0805-BS1)**

Prepared: 12/08/2016 Analyzed: 12/08/2016

Diesel (C10-C28)	837	50.0	mg/kg	1000		83.7	64-121			
Residual Range Organics (C28-C40)	877	200	"	1000		87.7	58-124			
Surrogate: o-Terphenyl	34		"	50.0		67.4	59-131			

**Matrix Spike (B6L0805-MS1)**

**Source: X612109-01**

Prepared: 12/08/2016 Analyzed: 12/08/2016

Diesel (C10-C28)	754	50.0	mg/kg	1000	32.6	72.1	53-125			
Residual Range Organics (C28-C40)	758	200	"	1000	61.9	69.6	47-133			
Surrogate: o-Terphenyl	34		"	50.0		68.5	59-131			

**Matrix Spike Dup (B6L0805-MSD1)**

**Source: X612109-01**

Prepared: 12/08/2016 Analyzed: 12/08/2016

Diesel (C10-C28)	728	50.0	mg/kg	1000	32.6	69.5	53-125	3.68	20	
Residual Range Organics (C28-C40)	780	200	"	1000	61.9	71.8	47-133	3.14	20	
Surrogate: o-Terphenyl	36		"	50.0		72.7	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 B6L0807 - NO PREP</b>										
<b>Duplicate (B6L0807-DUP1)</b>		<b>Source: X612112-01</b>			Prepared: 12/08/2016 Analyzed: 12/08/2016					
pH	7.60		pH Units		7.62			0.263	25	
<b>Batch B6L0808 - NO PREP</b>										
<b>Blank (B6L0808-BLK1)</b>		Prepared: 12/08/2016 Analyzed: 12/08/2016								
Specific Conductance (EC)	0.00290		mmhos/cm							
<b>Duplicate (B6L0808-DUP1)</b>		<b>Source: X612112-01</b>			Prepared: 12/08/2016 Analyzed: 12/08/2016					
Specific Conductance (EC)	0.802		mmhos/cm		0.822			2.46	25	

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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