

September 25, 2017

Tasman Geosciences

Bob Cornez

6899 Pecos Street, Unit C

Denver CO 80211

Project Name - KMG - Kodak 34-21 FP

Project Number - [none]

Attached are your analytical results for KMG - Kodak 34-21 FP received by Origins Laboratory, Inc. September 22, 2017. This project is associated with Origins project number Y709312-01.

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: [none]
Project: KMG - Kodak 34-21 FP

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
N01@3'	Y709312-01	Soil	September 22, 2017 11:40	09/22/2017 17:10
S01@3'	Y709312-02	Soil	September 22, 2017 11:42	09/22/2017 17:10
E01@3'	Y709312-03	Soil	September 22, 2017 11:44	09/22/2017 17:10
W01@3'	Y709312-04	Soil	September 22, 2017 11:46	09/22/2017 17:10
GW01	Y709312-06	Water	September 22, 2017 11:30	09/22/2017 17:10

Per the email from Mike on 9/25/17, S01@3', E01@3', and W01@3' were taken off hold.

Origins Laboratory, Inc.



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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: [none]
 Project: KMG - Kodak 34-21 FP

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 1709312

Client: Tasman
 Client Project ID: 16m Cr. Kodak 34-21 FP

Checklist Completed by: Bob Cornez

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

Date/time completed: 9-22-17 18:17

Airbill #: _____

Matrix(s) Received: (Check all that apply): Soil/Solid Water _____ Other: _____ (Describe)

Cooler Number/Temperature: 1 / 4.2 °C _____ / _____ °C _____ / _____ °C _____ / _____ °C

Thermometer ID: 6003

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	<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 ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	<input checked="" type="checkbox"/>			pH
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<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 ⁽¹⁾ ? (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 ₃ , HCL, H ₂ SO ₄) / (pH >10 for samples preserved with Na ₂ SO ₂ +NaOH, ZnAc+NaOH)		<input checked="" type="checkbox"/>		
Additional Comments (if any):				

⁽¹⁾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 9-22-17 18:17

Origins Laboratory, Inc.

Jefe Pellegrini

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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: [none]
 Project: KMG - Kodak 34-21 FP

N01@3'
9/22/2017 11:40:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y709312-01 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	106	25.0	mg/kg	1	B712205	09/22/2017	09/23/2017	
Residual Range Organics (C28-C40)	138	100	"	"	"	"	"	

Surrogate: *o*-Terphenyl 92.3 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	0.284	0.200	mg/kg	1	B712204	"	09/22/2017	
Benzene	ND	0.002	"	"	"	"	"	U
Toluene	0.002	0.002	"	"	"	"	"	
Ethylbenzene	ND	0.002	"	"	"	"	"	U
Xylenes, total	ND	0.002	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 98.2 % 70-130 " " "
 Surrogate: Toluene-d8 98.1 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 98.6 % 70-130 " " "

pH in Soil by EPA 9045D

pH	8.39		pH Units	1	B712206	09/22/2017	09/22/2017	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0585		mmhos/cm	"	B712207	09/22/2017	"	
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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: [none]
 Project: KMG - Kodak 34-21 FP

S01@3'
9/22/2017 11:42:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y709312-02 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	50.0	mg/kg	1	B712502	09/25/2017	09/25/2017	U
Residual Range Organics (C28-C40)	ND	200	"	"	"	"	"	U

Surrogate: o-Terphenyl 77.8 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B712501	09/25/2017	09/25/2017	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 95.0 % 70-130 " " "
Surrogate: Toluene-d8 96.7 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 99.6 % 70-130 " " "

pH in Soil by EPA 9045D

pH	7.50		pH Units	1	B712503	09/25/2017	09/25/2017	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.479		mmhos/cm	"	B712504	09/25/2017	"	
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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: [none]
 Project: KMG - Kodak 34-21 FP

E01@3'
 9/22/2017 11:44:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y709312-03 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	50.0	mg/kg	1	B712502	09/25/2017	09/25/2017	U
Residual Range Organics (C28-C40)	ND	200	"	"	"	"	"	U

Surrogate: *o*-Terphenyl 71.7 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B712501	09/25/2017	09/25/2017	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 100 % 70-130 " " "
 Surrogate: Toluene-d8 98.7 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 97.4 % 70-130 " " "

pH in Soil by EPA 9045D

pH	7.73		pH Units	1	B712503	09/25/2017	09/25/2017	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.138		mmhos/cm	"	B712504	09/25/2017	"	
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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: [none]
 Project: KMG - Kodak 34-21 FP

W01@3'
9/22/2017 11:46:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y709312-04 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	50.0	mg/kg	1	B712502	09/25/2017	09/25/2017	U
Residual Range Organics (C28-C40)	ND	200	"	"	"	"	"	U

Surrogate: o-Terphenyl 78.2 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B712501	09/25/2017	09/25/2017	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 101 % 70-130 " " "
Surrogate: Toluene-d8 97.0 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 99.9 % 70-130 " " "

pH in Soil by EPA 9045D

pH	7.50		pH Units	1	B712503	09/25/2017	09/25/2017	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.533		mmhos/cm	"	B712504	09/25/2017	"	
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Bob Cornez
 Project Number: [none]
 Project: KMG - Kodak 34-21 FP

GW01
9/22/2017 11:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y709312-06 (Water)

BTEX by EPA 8260C

Benzene	6.55	1.00	ug/L	1	B712201	09/22/2017	09/22/2017	
Toluene	7.69	1.00	"	"	"	"	"	
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Xylenes, total	7.11	1.00	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4	101 %	84-121			"	"	"	
Surrogate: Toluene-d8	97.5 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	104 %	84-114			"	"	"	

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 Denver CO 80211

Bob Cornez
 Project Number: [none]
 Project: KMG - Kodak 34-21 FP

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 B712201 - EPA 5030B (Water)

Blank (B712201-BLK1)

Prepared: 09/22/2017 Analyzed: 09/22/2017

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		101	84-121			
Surrogate: Toluene-d8	61		"	62.5		97.8	85-115			
Surrogate: 4-Bromofluorobenzene	66		"	62.5		105	84-114			

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 Denver CO 80211

Bob Cornez
 Project Number: [none]
 Project: KMG - Kodak 34-21 FP

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 B712201 - EPA 5030B (Water)

Blank (B712201-BLK2)

Prepared: 09/22/2017 Analyzed: 09/22/2017

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		101	84-121			
Surrogate: Toluene-d8	60		"	62.5		96.7	85-115			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		102	84-114			

Origins Laboratory, Inc.



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 Denver CO 80211

Bob Cornez
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 Project: KMG - Kodak 34-21 FP

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 B712201 - EPA 5030B (Water)

LCS (B712201-BS1)

Prepared: 09/22/2017 Analyzed: 09/22/2017

Benzene	46.8	1.00	ug/L	50.0		93.6	73.3-129			
Toluene	43.2	1.00	"	50.0		86.3	76.2-123			
Ethylbenzene	43.3	1.00	"	50.0		86.6	73.6-130			
m,p-Xylene	83.5	2.00	"	100		83.5	76.1-126			
o-Xylene	44.1	1.00	"	50.0		88.3	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	60		"	62.5		95.3	84-121			
Surrogate: Toluene-d8	60		"	62.5		96.6	85-115			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		102	84-114			

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 Denver CO 80211

Bob Cornez
 Project Number: [none]
 Project: KMG - Kodak 34-21 FP

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 B712201 - EPA 5030B (Water)

LCS (B712201-BS2)

Prepared: 09/22/2017 Analyzed: 09/22/2017

Benzene	49.1	1.00	ug/L	50.0		98.2	73.3-129			
Toluene	47.4	1.00	"	50.0		94.7	76.2-123			
Ethylbenzene	48.0	1.00	"	50.0		96.0	73.6-130			
m,p-Xylene	92.3	2.00	"	100		92.3	76.1-126			
o-Xylene	46.4	1.00	"	50.0		92.7	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	60		"	62.5		95.4	84-121			
Surrogate: Toluene-d8	62		"	62.5		99.2	85-115			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		102	84-114			

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 Denver CO 80211

Bob Cornez
 Project Number: [none]
 Project: KMG - Kodak 34-21 FP

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 B712201 - EPA 5030B (Water)

Matrix Spike (B712201-MS1)	Source: Y709261-01			Prepared: 09/22/2017 Analyzed: 09/22/2017						
Benzene	53.2	1.00	ug/L	50.0	ND	106	74-130			
Toluene	51.2	1.00	"	50.0	ND	102	73-131			
Ethylbenzene	52.8	1.00	"	50.0	ND	106	76-132			
m,p-Xylene	101	2.00	"	100	ND	101	69-139			
o-Xylene	50.7	1.00	"	50.0	ND	101	74-131			
Surrogate: 1,2-Dichloroethane-d4	57		"	62.5		91.4	84-121			
Surrogate: Toluene-d8	63		"	62.5		100	85-115			
Surrogate: 4-Bromofluorobenzene	66		"	62.5		106	84-114			

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 Denver CO 80211

Bob Cornez
 Project Number: [none]
 Project: KMG - Kodak 34-21 FP

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 B712201 - EPA 5030B (Water)

Matrix Spike (B712201-MS2)	Source: Y709261-18			Prepared: 09/22/2017 Analyzed: 09/22/2017						
Benzene	53.9	1.00	ug/L	50.0	ND	108	74-130			
Toluene	51.0	1.00	"	50.0	ND	102	73-131			
Ethylbenzene	52.2	1.00	"	50.0	ND	104	76-132			
m,p-Xylene	100	2.00	"	100	ND	100	69-139			
o-Xylene	50.0	1.00	"	50.0	ND	100	74-131			
Surrogate: 1,2-Dichloroethane-d4	60		"	62.5		95.2	84-121			
Surrogate: Toluene-d8	62		"	62.5		99.2	85-115			
Surrogate: 4-Bromofluorobenzene	65		"	62.5		104	84-114			

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 Denver CO 80211

Bob Cornez
 Project Number: [none]
 Project: KMG - Kodak 34-21 FP

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 B712201 - EPA 5030B (Water)

Matrix Spike Dup (B712201-MSD1)	Source: Y709261-01			Prepared: 09/22/2017 Analyzed: 09/22/2017						
Benzene	52.4	1.00	ug/L	50.0	ND	105	74-130	1.38	20	
Toluene	50.3	1.00	"	50.0	ND	101	73-131	1.66	20	
Ethylbenzene	51.5	1.00	"	50.0	ND	103	76-132	2.55	20	
m,p-Xylene	99.9	2.00	"	100	ND	99.9	69-139	1.04	20	
o-Xylene	49.8	1.00	"	50.0	ND	99.5	74-131	1.93	20	
Surrogate: 1,2-Dichloroethane-d4	58		"	62.5		93.4	84-121			
Surrogate: Toluene-d8	61		"	62.5		97.9	85-115			
Surrogate: 4-Bromofluorobenzene	66		"	62.5		105	84-114			

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Bob Cornez
 Project Number: [none]
 Project: KMG - Kodak 34-21 FP

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 B712201 - EPA 5030B (Water)

Matrix Spike Dup (B712201-MSD2)	Source: Y709261-18			Prepared: 09/22/2017 Analyzed: 09/22/2017						
Benzene	51.4	1.00	ug/L	50.0	ND	103	74-130	4.75	20	
Toluene	48.5	1.00	"	50.0	ND	96.9	73-131	5.05	20	
Ethylbenzene	49.6	1.00	"	50.0	ND	99.2	76-132	5.13	20	
m,p-Xylene	96.7	2.00	"	100	ND	96.7	69-139	3.78	20	
o-Xylene	48.3	1.00	"	50.0	ND	96.6	74-131	3.38	20	
Surrogate: 1,2-Dichloroethane-d4	59		"	62.5		95.0	84-121			
Surrogate: Toluene-d8	62		"	62.5		99.1	85-115			
Surrogate: 4-Bromofluorobenzene	65		"	62.5		104	84-114			

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Bob Cornez
 Project Number: [none]
 Project: KMG - Kodak 34-21 FP

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
Batch B712204 - EPA 5030 (soil)										
Blank (B712204-BLK1)										
Prepared: 09/22/2017 Analyzed: 09/22/2017										
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	65		ug/kg	62.5		104	70-130			
Surrogate: Toluene-d8	60		"	62.5		96.4	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		102	70-130			

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Tasman Geosciences
 6899 Pecos Street, Unit C
 Denver CO 80211

Bob Cornez
 Project Number: [none]
 Project: KMG - Kodak 34-21 FP

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
Batch B712204 - EPA 5030 (soil)										
Blank (B712204-BLK2)										
					Prepared: 09/22/2017 Analyzed: 09/22/2017					
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	65		ug/kg	62.5		104	70-130			
Surrogate: Toluene-d8	61		"	62.5		97.6	70-130			
Surrogate: 4-Bromofluorobenzene	65		"	62.5		103	70-130			

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Bob Cornez
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 Project: KMG - Kodak 34-21 FP

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 B712204 - EPA 5030 (soil)

LCS (B712204-BS1)

Prepared: 09/22/2017 Analyzed: 09/22/2017

Benzene	0.100	0.002	mg/kg	0.100		100	77.1-124			
Toluene	0.092	0.002	"	0.100		92.1	74.5-128			
Ethylbenzene	0.090	0.002	"	0.100		90.1	66.4-127			
m,p-Xylene	0.175	0.004	"	0.200		87.4	76.6-124			
o-Xylene	0.087	0.002	"	0.100		86.7	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	62		ug/kg	62.5		99.3	70-130			
Surrogate: Toluene-d8	60		"	62.5		96.2	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		98.7	70-130			

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Bob Cornez
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 Project: KMG - Kodak 34-21 FP

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 B712204 - EPA 5030 (soil)

LCS (B712204-BS2)

Prepared: 09/22/2017 Analyzed: 09/22/2017

Benzene	0.104	0.002	mg/kg	0.100		104	77.1-124			
Toluene	0.095	0.002	"	0.100		95.0	74.5-128			
Ethylbenzene	0.095	0.002	"	0.100		94.9	66.4-127			
m,p-Xylene	0.182	0.004	"	0.200		91.2	76.6-124			
o-Xylene	0.091	0.002	"	0.100		91.4	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	62		ug/kg	62.5		99.5	70-130			
Surrogate: Toluene-d8	59		"	62.5		94.7	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.6	70-130			

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 Project: KMG - Kodak 34-21 FP

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 B712204 - EPA 5030 (soil)

Matrix Spike (B712204-MS1)	Source: Y709308-02			Prepared: 09/22/2017 Analyzed: 09/22/2017						
Benzene	0.095	0.002	mg/kg	0.100	ND	95.0	71.8-126			
Toluene	0.085	0.002	"	0.100	ND	85.4	65.1-130			
Ethylbenzene	0.082	0.002	"	0.100	ND	81.8	62.2-130			
m,p-Xylene	0.156	0.004	"	0.200	ND	77.9	46.5-137			
o-Xylene	0.078	0.002	"	0.100	ND	77.9	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	63		ug/kg	62.5		101	70-130			
Surrogate: Toluene-d8	61		"	62.5		98.4	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		98.1	70-130			

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 Project: KMG - Kodak 34-21 FP

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 B712204 - EPA 5030 (soil)

Matrix Spike (B712204-MS2)	Source: Y709308-04			Prepared: 09/22/2017 Analyzed: 09/22/2017						
Benzene	0.103	0.002	mg/kg	0.100	ND	103	71.8-126			
Toluene	0.096	0.002	"	0.100	ND	95.7	65.1-130			
Ethylbenzene	0.091	0.002	"	0.100	ND	91.0	62.2-130			
m,p-Xylene	0.176	0.004	"	0.200	ND	88.0	46.5-137			
o-Xylene	0.088	0.002	"	0.100	ND	88.2	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	61		ug/kg	62.5		98.0	70-130			
Surrogate: Toluene-d8	61		"	62.5		97.2	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		98.2	70-130			

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 Project: KMG - Kodak 34-21 FP

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 B712204 - EPA 5030 (soil)

Matrix Spike Dup (B712204-MSD1)	Source: Y709308-02			Prepared: 09/22/2017 Analyzed: 09/22/2017						
Benzene	0.091	0.002	mg/kg	0.100	ND	90.9	71.8-126	4.35	11.3	
Toluene	0.083	0.002	"	0.100	ND	82.6	65.1-130	3.36	15.4	
Ethylbenzene	0.081	0.002	"	0.100	ND	81.3	62.2-130	0.662	19.6	
m,p-Xylene	0.152	0.004	"	0.200	ND	75.8	46.5-137	2.79	19.2	
o-Xylene	0.078	0.002	"	0.100	ND	78.5	54.2-134	0.742	17.9	
Surrogate: 1,2-Dichloroethane-d4	63		ug/kg	62.5		101	70-130			
Surrogate: Toluene-d8	60		"	62.5		96.5	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		102	70-130			

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 Project: KMG - Kodak 34-21 FP

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 B712204 - EPA 5030 (soil)

Matrix Spike Dup (B712204-MSD2)	Source: Y709308-04			Prepared: 09/22/2017 Analyzed: 09/22/2017						
Benzene	0.092	0.002	mg/kg	0.100	ND	91.6	71.8-126	12.0	11.3	QR-02
Toluene	0.082	0.002	"	0.100	ND	82.3	65.1-130	15.0	15.4	
Ethylbenzene	0.076	0.002	"	0.100	ND	76.4	62.2-130	17.5	19.6	
m,p-Xylene	0.146	0.004	"	0.200	ND	73.2	46.5-137	18.3	19.2	
o-Xylene	0.074	0.002	"	0.100	ND	74.3	54.2-134	17.1	17.9	
Surrogate: 1,2-Dichloroethane-d4	62		ug/kg	62.5		98.9	70-130			
Surrogate: Toluene-d8	60		"	62.5		95.2	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
Batch B712501 - EPA 5030 (soil)										
Blank (B712501-BLK1)										
Prepared: 09/25/2017 Analyzed: 09/25/2017										
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		95.3	70-130			
Surrogate: Toluene-d8	61		"	62.5		98.3	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.7	70-130			

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 Project Number: [none]
 Project: KMG - Kodak 34-21 FP

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 B712501 - EPA 5030 (soil)

LCS (B712501-BS1)

Prepared: 09/25/2017 Analyzed: 09/25/2017

Benzene	0.108	0.002	mg/kg	0.100		108	77.1-124			
Toluene	0.100	0.002	"	0.100		99.5	74.5-128			
Ethylbenzene	0.096	0.002	"	0.100		96.2	66.4-127			
m,p-Xylene	0.184	0.004	"	0.200		92.2	76.6-124			
o-Xylene	0.092	0.002	"	0.100		92.4	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	56		ug/kg	62.5		89.0	70-130			
Surrogate: Toluene-d8	60		"	62.5		96.3	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.6	70-130			

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Bob Cornez
 Project Number: [none]
 Project: KMG - Kodak 34-21 FP

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 B712501 - EPA 5030 (soil)

Matrix Spike (B712501-MS1)	Source: Y709311-03			Prepared: 09/25/2017 Analyzed: 09/25/2017						
Benzene	0.094	0.002	mg/kg	0.100	ND	94.2	71.8-126			
Toluene	0.086	0.002	"	0.100	ND	85.8	65.1-130			
Ethylbenzene	0.081	0.002	"	0.100	ND	80.6	62.2-130			
m,p-Xylene	0.156	0.004	"	0.200	ND	78.1	46.5-137			
o-Xylene	0.077	0.002	"	0.100	ND	76.8	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	59		ug/kg	62.5		94.6	70-130			
Surrogate: Toluene-d8	60		"	62.5		96.3	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.6	70-130			

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Bob Cornez
 Project Number: [none]
 Project: KMG - Kodak 34-21 FP

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 B712501 - EPA 5030 (soil)

Matrix Spike Dup (B712501-MSD1)	Source: Y709311-03			Prepared: 09/25/2017 Analyzed: 09/25/2017						
Benzene	0.095	0.002	mg/kg	0.100	ND	95.0	71.8-126	0.824	11.3	
Toluene	0.087	0.002	"	0.100	ND	87.4	65.1-130	1.82	15.4	
Ethylbenzene	0.082	0.002	"	0.100	ND	81.7	62.2-130	1.33	19.6	
m,p-Xylene	0.157	0.004	"	0.200	ND	78.3	46.5-137	0.268	19.2	
o-Xylene	0.078	0.002	"	0.100	ND	78.5	54.2-134	2.16	17.9	
Surrogate: 1,2-Dichloroethane-d4	57		ug/kg	62.5		92.0	70-130			
Surrogate: Toluene-d8	60		"	62.5		96.5	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.4	70-130			

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Bob Cornez
 Project Number: [none]
 Project: KMG - Kodak 34-21 FP

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 B712205 - EPA 3550B

Blank (B712205-BLK1)

Prepared: 09/22/2017 Analyzed: 09/22/2017

Diesel (C10-C28)	ND	50.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	37		"	50.0		73.3	59-131			

Blank (B712205-BLK2)

Prepared: 09/22/2017 Analyzed: 09/22/2017

Diesel (C10-C28)	ND	50.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	42		"	50.0		83.7	59-131			

LCS (B712205-BS1)

Prepared: 09/22/2017 Analyzed: 09/22/2017

Diesel (C10-C28)	836	50.0	mg/kg	1000		83.6	64-121			
Residual Range Organics (C28-C40)	872	200	"	1000		87.2	58-124			
Surrogate: o-Terphenyl	39		"	50.0		77.6	59-131			

LCS (B712205-BS2)

Prepared: 09/22/2017 Analyzed: 09/22/2017

Diesel (C10-C28)	933	50.0	mg/kg	1000		93.3	64-121			
Residual Range Organics (C28-C40)	1010	200	"	1000		101	58-124			
Surrogate: o-Terphenyl	45		"	50.0		90.6	59-131			

Matrix Spike (B712205-MS1)

Source: Y709308-02

Prepared: 09/22/2017 Analyzed: 09/25/2017

Diesel (C10-C28)	1410	50.0	mg/kg	1000	275	113	53-125			
Residual Range Organics (C28-C40)	1550	200	"	1000	283	126	47-133			

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Bob Cornez
 Project Number: [none]
 Project: KMG - Kodak 34-21 FP

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
Batch B712205 - EPA 3550B										
Matrix Spike (B712205-MS1)			Source: Y709308-02		Prepared: 09/22/2017 Analyzed: 09/25/2017					
Surrogate: o-Terphenyl	54		mg/kg	50.0		108	59-131			
Matrix Spike (B712205-MS2)			Source: Y709308-04		Prepared: 09/22/2017 Analyzed: 09/22/2017					
Diesel (C10-C28)	1040	50.0	mg/kg	1000	204	83.2	53-125			
Residual Range Organics (C28-C40)	1130	200	"	1000	302	82.9	47-133			
Surrogate: o-Terphenyl	49		"	50.0		97.3	59-131			
Matrix Spike Dup (B712205-MSD1)			Source: Y709308-02		Prepared: 09/22/2017 Analyzed: 09/22/2017					
Diesel (C10-C28)	1410	50.0	mg/kg	1000	275	113	53-125	0.0623	20	
Residual Range Organics (C28-C40)	1510	200	"	1000	283	123	47-133	2.87	20	
Surrogate: o-Terphenyl	51		"	50.0		102	59-131			
Matrix Spike Dup (B712205-MSD2)			Source: Y709308-04		Prepared: 09/22/2017 Analyzed: 09/22/2017					
Diesel (C10-C28)	1160	50.0	mg/kg	1000	204	95.9	53-125	14.2	20	
Residual Range Organics (C28-C40)	1200	200	"	1000	302	90.2	47-133	8.51	20	
Surrogate: o-Terphenyl	47		"	50.0		94.4	59-131			
Batch B712502 - EPA 3550B										
Blank (B712502-BLK1)					Prepared: 09/25/2017 Analyzed: 09/25/2017					
Diesel (C10-C28)	ND	50.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	40		"	50.0		79.7	59-131			
LCS (B712502-BS1)					Prepared: 09/25/2017 Analyzed: 09/25/2017					
Diesel (C10-C28)	996	50.0	mg/kg	1000		99.6	64-121			
Residual Range Organics (C28-C40)	1020	200	"	1000		102	58-124			
Surrogate: o-Terphenyl	49		"	50.0		97.4	59-131			

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Bob Cornez
 Project Number: [none]
 Project: KMG - Kodak 34-21 FP

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
Batch B712502 - EPA 3550B										
Matrix Spike (B712502-MS1)			Source: Y709311-03			Prepared: 09/25/2017 Analyzed: 09/25/2017				
Diesel (C10-C28)	930	50.0	mg/kg	1000	13.8	91.6	53-125			
Residual Range Organics (C28-C40)	1030	200	"	1000	24.7	101	47-133			
Surrogate: o-Terphenyl	47		"	50.0		93.4	59-131			
Matrix Spike Dup (B712502-MSD1)			Source: Y709311-03			Prepared: 09/25/2017 Analyzed: 09/25/2017				
Diesel (C10-C28)	937	50.0	mg/kg	1000	13.8	92.3	53-125	0.761	20	
Residual Range Organics (C28-C40)	1010	200	"	1000	24.7	98.8	47-133	2.15	20	
Surrogate: o-Terphenyl	46		"	50.0		92.5	59-131			

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Bob Cornez
 Project Number: [none]
 Project: KMG - Kodak 34-21 FP

Classical Chemistry Parameters - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B712206 - NO PREP										
Duplicate (B712206-DUP1)		Source: Y709308-01			Prepared: 09/22/2017 Analyzed: 09/22/2017					
pH	9.14		pH Units		9.18			0.437	25	
Duplicate (B712206-DUP2)		Source: Y709315-02			Prepared: 09/22/2017 Analyzed: 09/22/2017					
pH	8.84		pH Units		8.89			0.564	25	
Batch B712207 - NO PREP										
Blank (B712207-BLK1)		Prepared: 09/22/2017 Analyzed: 09/22/2017								
Specific Conductance (EC)	0.00210		mmhos/cm							
Duplicate (B712207-DUP1)		Source: Y709308-01			Prepared: 09/22/2017 Analyzed: 09/22/2017					
Specific Conductance (EC)	1.21		mmhos/cm		1.27			4.89	25	
Duplicate (B712207-DUP2)		Source: Y709315-01			Prepared: 09/22/2017 Analyzed: 09/22/2017					
Specific Conductance (EC)	0.0335		mmhos/cm		0.0346			3.23	25	
Batch B712503 - NO PREP										
Duplicate (B712503-DUP1)		Source: Y709311-03			Prepared: 09/25/2017 Analyzed: 09/25/2017					
pH	7.86		pH Units		7.81			0.638	25	
Batch B712504 - NO PREP										
Blank (B712504-BLK1)		Prepared: 09/25/2017 Analyzed: 09/25/2017								
Specific Conductance (EC)	0.00480		mmhos/cm							

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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: [none]
 Project: KMG - Kodak 34-21 FP

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 B712504 - NO PREP

Duplicate (B712504-DUP1)

Source: Y709311-03

Prepared: 09/25/2017 Analyzed: 09/25/2017

Specific Conductance (EC)	0.143		mmhos/cm		0.157			9.31	25	
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Tasman Geosciences
6899 Pecos Street, Unit C
Denver CO 80211

Bob Cornez
Project Number: [none]
Project: KMG - Kodak 34-21 FP

Notes and Definitions

U Sample is Non-Detect.

QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.

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