

October 16, 2017

CGRS, Inc

Steve Hockett

1301 Academy Court

Fort Collins CO 80524

Project Name - North Poudre

Project Number - 16921aa

Attached are your analytical results for North Poudre received by Origins Laboratory, Inc. October 09, 2017. This project is associated with Origins project number Y710121-01.

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



CGRS, Inc
1301 Academy Court
Fort Collins CO 80524

Steve Hockett
Project Number: 16921aa
Project: North Poudre

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
North Poudre	Y710121-01	Water	October 6, 2017 0:00	10/09/2017 09:20
SS-South@7'	Y710121-02	Soil	October 6, 2017 0:00	10/09/2017 09:20
SS-East@3'	Y710121-03	Soil	October 6, 2017 0:00	10/09/2017 09:20
SS-Center@10'	Y710121-04	Soil	October 6, 2017 0:00	10/09/2017 09:20
SS-North@7'	Y710121-05	Soil	October 5, 2017 0:00	10/09/2017 09:20

Origins Laboratory, Inc.



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CGRS, Inc
 1301 Academy Court
 Fort Collins CO 80524

Steve Hockett
 Project Number: 16921aa
 Project: North Poudre

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4710121 Client: CGES Inc
 Client Project ID: North Poudre
 Checklist Completed by: Don W Shipped Via: Hand Delivered
 Date/time completed: 10-9-12 1105 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: 123
 Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____
 Cooler Number/Temperature: 12.5 °C _____ °C _____ °C (Describe) _____ °C
 Thermometer ID: 203

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"/>		
Is a chain-of-custody (COC) present and filled out completely ^{(1)?}		<input checked="" type="checkbox"/>		no samples collection time
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 HNO3, HCL, H2SO4) / (pH >10 for samples preserved with NaAsO2+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 10/10/12

Origins Laboratory, Inc.

Jefe Pellegrini

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CGRS, Inc
 1301 Academy Court
 Fort Collins CO 80524

Steve Hockett
 Project Number: 16921aa
 Project: North Poudre

North Poudre
10/6/2017 12:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y710121-01 (Water)

BTEX by EPA 8260C

Benzene	ND	0.00100	mg/L	1	B7J1101	10/11/2017	10/11/2017	U
Toluene	ND	0.00100	"	"	"	"	"	U
Ethylbenzene	ND	0.00100	"	"	"	"	"	U
Xylenes, total	ND	0.00100	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	89.7 %	84-121			"	"	"	
Surrogate: Toluene-d8	90.4 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	95.4 %	84-114			"	"	"	

GRO (TVPH)/DRO (TEPH)by EPA 8015C

Gasoline (C6-C10)	ND	5.00	mg/L	1	B7J1004	10/10/2017	10/12/2017	U
Diesel (C10-C28)	ND	5.00	"	"	"	"	"	U

Surrogate: o-Terphenyl	88.4 %	54-117			"	"	"	
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CGRS, Inc
 1301 Academy Court
 Fort Collins CO 80524

Steve Hockett
 Project Number: 16921aa
 Project: North Poudre

SS-South@7'

10/6/2017 12:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y710121-02 (Soil)

BTEX by EPA 8260C

Benzene	ND	0.002	mg/kg	1	B7J1002	10/10/2017	10/11/2017	U
Toluene	ND	0.002	"	"	"	"	"	U
Ethylbenzene	ND	0.002	"	"	"	"	"	U
Xylenes, total	ND	0.002	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	106 %	70-130			"	"	"	
Surrogate: Toluene-d8	98.8 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	99.0 %	70-130			"	"	"	

GRO (TVPH)/DRO (TEPH)by EPA 8015C

Gasoline (C6-C10)	ND	50.0	mg/kg	1	B7J1003	10/10/2017	10/12/2017	U
Diesel (C10-C28)	ND	50.0	"	"	"	"	"	U

Surrogate: o-Terphenyl	77.5 %	59-131			"	"	"	
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CGRS, Inc
 1301 Academy Court
 Fort Collins CO 80524

Steve Hockett
 Project Number: 16921aa
 Project: North Poudre

SS-East@3'

10/6/2017 12:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y710121-03 (Soil)

BTEX by EPA 8260C

Benzene	ND	0.002	mg/kg	1	B7J1002	10/10/2017	10/11/2017	U
Toluene	ND	0.002	"	"	"	"	"	U
Ethylbenzene	ND	0.002	"	"	"	"	"	U
Xylenes, total	ND	0.002	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	110 %	70-130			"	"	"	
Surrogate: Toluene-d8	99.3 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	99.7 %	70-130			"	"	"	

GRO (TVPH)/DRO (TEPH)by EPA 8015C

Gasoline (C6-C10)	ND	50.0	mg/kg	1	B7J1003	10/10/2017	10/12/2017	U
Diesel (C10-C28)	ND	50.0	"	"	"	"	"	U

Surrogate: o-Terphenyl	82.5 %	59-131			"	"	"	
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Steve Hockett
 Project Number: 16921aa
 Project: North Poudre

SS-Center@10'

10/6/2017 12:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y710121-04 (Soil)

BTEX by EPA 8260C

Benzene	ND	0.002	mg/kg	1	B7J1002	10/10/2017	10/11/2017	U
Toluene	ND	0.002	"	"	"	"	"	U
Ethylbenzene	ND	0.002	"	"	"	"	"	U
Xylenes, total	ND	0.002	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	107 %	70-130			"	"	"	
Surrogate: Toluene-d8	98.9 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	99.5 %	70-130			"	"	"	

GRO (TVPH)/DRO (TEPH)by EPA 8015C

Gasoline (C6-C10)	ND	50.0	mg/kg	1	B7J1003	10/10/2017	10/12/2017	U
Diesel (C10-C28)	ND	50.0	"	"	"	"	"	U

Surrogate: o-Terphenyl	81.5 %	59-131			"	"	"	
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 Fort Collins CO 80524

Steve Hockett
 Project Number: 16921aa
 Project: North Poudre

SS-North@7'

10/5/2017 12:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y710121-05 (Soil)

BTEX by EPA 8260C

Benzene	ND	0.002	mg/kg	1	B7J1002	10/10/2017	10/11/2017	U
Toluene	ND	0.002	"	"	"	"	"	U
Ethylbenzene	ND	0.002	"	"	"	"	"	U
Xylenes, total	ND	0.002	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	111 %	70-130			"	"	"	
Surrogate: Toluene-d8	98.0 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	100 %	70-130			"	"	"	

GRO (TVPH)/DRO (TEPH)by EPA 8015C

Gasoline (C6-C10)	ND	50.0	mg/kg	1	B7J1003	10/10/2017	10/12/2017	U
Diesel (C10-C28)	ND	50.0	"	"	"	"	"	U

Surrogate: o-Terphenyl	72.2 %	59-131			"	"	"	
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Steve Hockett
 Project Number: 16921aa
 Project: North Poudre

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 B7J1002 - EPA 5030 (soil)

Blank (B7J1002-BLK1)

Prepared: 10/10/2017 Analyzed: 10/10/2017

Benzene	ND	0.002	mg/kg							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	98.3		70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5	96.6		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 B7J1002 - EPA 5030 (soil)

LCS (B7J1002-BS1)

Prepared: 10/10/2017 Analyzed: 10/10/2017

Benzene	0.112	0.002	mg/kg	0.100		112	77.1-124			
Toluene	0.107	0.002	"	0.100		107	74.5-128			
Ethylbenzene	0.104	0.002	"	0.100		104	66.4-127			
m,p-Xylene	0.204	0.004	"	0.200		102	76.6-124			
o-Xylene	0.102	0.002	"	0.100		102	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	63		ug/kg	62.5		100	70-130			
Surrogate: Toluene-d8	63		"	62.5		100	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.9	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 B7J1002 - EPA 5030 (soil)

Matrix Spike (B7J1002-MS1)	Source: Y710084-01			Prepared: 10/10/2017 Analyzed: 10/10/2017						
Benzene	0.105	0.002	mg/kg	0.100	ND	105	71.8-126			
Toluene	0.097	0.002	"	0.100	ND	96.7	65.1-130			
Ethylbenzene	0.101	0.002	"	0.100	0.0009	100	62.2-130			
m,p-Xylene	0.194	0.004	"	0.200	0.001	96.6	46.5-137			
o-Xylene	0.098	0.002	"	0.100	0.0006	97.5	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	72		ug/kg	62.5		115	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	67		"	62.5		108	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 B7J1002 - EPA 5030 (soil)

Matrix Spike Dup (B7J1002-MSD1)	Source: Y710084-01			Prepared: 10/10/2017 Analyzed: 10/10/2017						
Benzene	0.106	0.002	mg/kg	0.100	ND	106	71.8-126	0.817	11.3	
Toluene	0.097	0.002	"	0.100	ND	96.9	65.1-130	0.269	15.4	
Ethylbenzene	0.104	0.002	"	0.100	0.0009	103	62.2-130	2.79	19.6	
m,p-Xylene	0.201	0.004	"	0.200	0.001	99.9	46.5-137	3.31	19.2	
o-Xylene	0.101	0.002	"	0.100	0.0006	101	54.2-134	3.11	17.9	
Surrogate: 1,2-Dichloroethane-d4	73		ug/kg	62.5		117	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	69		"	62.5		110	70-130			

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 Project Number: 16921aa
 Project: North Poudre

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 B7J1101 - EPA 5030B (Water)

Blank (B7J1101-BLK1)

Prepared: 10/11/2017 Analyzed: 10/11/2017

Benzene	ND	0.00100	mg/L							U
Toluene	ND	0.00100	"							U
Ethylbenzene	ND	0.00100	"							U
Xylenes, total	ND	0.00100	"							U
Surrogate: 1,2-Dichloroethane-d4	60		ug/L	62.5		96.5	84-121			
Surrogate: Toluene-d8	63		"	62.5		100	85-115			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		98.6	84-114			

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 Fort Collins CO 80524

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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 B7J1101 - EPA 5030B (Water)

LCS (B7J1101-BS1)

Prepared: 10/11/2017 Analyzed: 10/11/2017

Benzene	0.0467	0.00100	mg/L	0.0500		93.4	73.3-129			
Toluene	0.0452	0.00100	"	0.0500		90.4	76.2-123			
Ethylbenzene	0.0514	0.00100	"	0.0500		103	73.6-130			
m,p-Xylene	0.0939	0.00200	"	0.100		93.9	76.1-126			
o-Xylene	0.0483	0.00100	"	0.0500		96.7	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	58		ug/L	62.5		92.9	84-121			
Surrogate: Toluene-d8	63		"	62.5		101	85-115			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		96.6	84-114			

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Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
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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 B7J1101 - EPA 5030B (Water)

Matrix Spike (B7J1101-MS1)	Source: Y710108-01			Prepared: 10/11/2017 Analyzed: 10/11/2017						
Benzene	0.0497	0.00100	mg/L	0.0500	ND	99.3	74-130			
Toluene	0.0487	0.00100	"	0.0500	ND	97.3	73-131			
Ethylbenzene	0.0526	0.00100	"	0.0500	ND	105	76-132			
m,p-Xylene	0.0951	0.00200	"	0.100	ND	95.1	69-139			
o-Xylene	0.0492	0.00100	"	0.0500	ND	98.3	74-131			
Surrogate: 1,2-Dichloroethane-d4	58		ug/L	62.5		92.5	84-121			
Surrogate: Toluene-d8	63		"	62.5		100	85-115			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		96.2	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 B7J1101 - EPA 5030B (Water)

Matrix Spike Dup (B7J1101-MSD1)	Source: Y710108-01			Prepared: 10/11/2017 Analyzed: 10/11/2017						
Benzene	0.0496	0.00100	mg/L	0.0500	ND	99.2	74-130	0.101	20	
Toluene	0.0491	0.00100	"	0.0500	ND	98.2	73-131	0.859	20	
Ethylbenzene	0.0533	0.00100	"	0.0500	ND	107	76-132	1.36	20	
m,p-Xylene	0.0965	0.00200	"	0.100	ND	96.5	69-139	1.45	20	
o-Xylene	0.0501	0.00100	"	0.0500	ND	100	74-131	1.91	20	
Surrogate: 1,2-Dichloroethane-d4	57		ug/L	62.5		90.7	84-121			
Surrogate: Toluene-d8	64		"	62.5		103	85-115			
Surrogate: 4-Bromofluorobenzene	59		"	62.5		95.2	84-114			

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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 B7J1003 - EPA 3580

Blank (B7J1003-BLK1)

Prepared: 10/10/2017 Analyzed: 10/11/2017

Gasoline (C6-C10)	ND	50.0	mg/kg							U
Diesel (C10-C28)	ND	50.0	"							U
Surrogate: o-Terphenyl	44		"	50.0		87.0	59-131			

LCS (B7J1003-BS1)

Prepared: 10/10/2017 Analyzed: 10/11/2017

Gasoline (C6-C10)	956	50.0	mg/kg	1000		95.6	59-133			
Diesel (C10-C28)	904	50.0	"	1000		90.4	64-121			
Surrogate: o-Terphenyl	46		"	50.0		92.2	59-131			

Matrix Spike (B7J1003-MS1)

Source: Y710102-01

Prepared: 10/10/2017 Analyzed: 10/11/2017

Gasoline (C6-C10)	987	50.0	mg/kg	1000	ND	98.7	57-139			
Diesel (C10-C28)	899	50.0	"	1000	30.0	86.9	53-125			
Surrogate: o-Terphenyl	47		"	50.0		93.3	59-131			

Matrix Spike Dup (B7J1003-MSD1)

Source: Y710102-01

Prepared: 10/10/2017 Analyzed: 10/11/2017

Gasoline (C6-C10)	940	50.0	mg/kg	1000	ND	94.0	57-139	4.93	20	
Diesel (C10-C28)	820	50.0	"	1000	30.0	79.0	53-125	9.25	20	
Surrogate: o-Terphenyl	48		"	50.0		96.2	59-131			

Batch B7J1004 - EPA 3511 Mod.

Blank (B7J1004-BLK1)

Prepared: 10/10/2017 Analyzed: 10/12/2017

Origins Laboratory, Inc.



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CGRS, Inc
 1301 Academy Court
 Fort Collins CO 80524

Steve Hockett
 Project Number: 16921aa
 Project: North Poudre

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 B7J1004 - EPA 3511 Mod.										
Blank (B7J1004-BLK1)					Prepared: 10/10/2017 Analyzed: 10/12/2017					
Gasoline (C6-C10)	ND	5.00	mg/L							U
Diesel (C10-C28)	ND	5.00	"							U
Surrogate: o-Terphenyl	5.0		"	5.00		99.8	54-117			
LCS (B7J1004-BS1)					Prepared: 10/10/2017 Analyzed: 10/12/2017					
Gasoline (C6-C10)	109	5.00	mg/L	100		109	69-125			
Diesel (C10-C28)	95.7	5.00	"	100		95.7	61-120			
Surrogate: o-Terphenyl	5.0		"	5.00		99.6	54-117			
Matrix Spike (B7J1004-MS1)					Source: Y710108-01		Prepared: 10/10/2017 Analyzed: 10/12/2017			
Gasoline (C6-C10)	109	5.00	mg/L	100	ND	109	70-127			
Diesel (C10-C28)	94.8	5.00	"	100	2.33	92.5	54-126			
Surrogate: o-Terphenyl	5.0		"	5.00		101	54-117			
Matrix Spike Dup (B7J1004-MSD1)					Source: Y710108-01		Prepared: 10/10/2017 Analyzed: 10/12/2017			
Gasoline (C6-C10)	108	5.00	mg/L	100	ND	108	70-127	0.482	20	
Diesel (C10-C28)	93.9	5.00	"	100	2.33	91.6	54-126	0.979	20	
Surrogate: o-Terphenyl	4.9		"	5.00		98.4	54-117			

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1301 Academy Court
Fort Collins CO 80524

Steve Hockett
Project Number: 16921aa
Project: North Poudre

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