

September 27, 2017

Great Western Operating Company, LLC
1801 South Broadway, Suite 500
Denver, Colorado 80202

Attention: Scot Donato, Vice President Government Affairs/EH&S

Subject: Spill Reporting and Soil Sampling Activities
Kodak North
Windsor, Colorado
Project Number 166137

Dear Mr. Donato,

A.G. Wassenaar, Inc. (AGW) documented a release of approximately 20 barrels (bbls) of oil and conducted follow-up soil sampling at Great Western Operating Company, LLC's (GWOC's) Kodak North drilling location. This letter summarizes the project activities and analytical results.

BACKGROUND

On December 31, 2016, a hose burst while the crews were tripping pipe, and approximately 20 bbls of oil were released at the site. The spill was due to equipment failure. Approximately five (5) bbls were estimated to have been released outside of containment.

SPILL REPORTING

On January 1, 2017, in accordance with regulatory requirements, GWOC notified the Colorado Oil and Gas Conservation Commission (COGCC), the surface owner, Weld County, and the Town of Windsor of a release of approximately 20 bbls of oil. On January 3, 2017, AGW submitted a Form 19 Spill/Release Report. A supplemental Spill/Release Report was submitted on January 10, 2017. Copies of all COGCC forms and notifications are included in Attachment A.

SOIL SAMPLING ACTIVITIES

Initial spill response activities included using a hydrovac truck to remove all visible oil from the spill location. Absorbent material was added to the location to soak up any oil that couldn't be vacuumed up, and the absorbent material was disposed of offsite.

Following initial spill response activities, AGW visited the site on January 10, 2017 at GWOC's request, to conduct soil sampling activities in order to confirm the removal of impacted soils remaining at the spill location. AGW collected four (4) discrete soil samples from the spill area from between 3 and 4 inches below the ground surface. The samples were placed into a new, laboratory-supplied glass jars for laboratory submittal. During this project, AGW followed sampling procedures, equipment

decontamination methods, and chain-of-custody procedures in general accordance with U.S. Environmental Protection Agency (EPA) guidelines. On the day of collection, the soil samples (designated 137-1 through 137-4) were submitted to Origins Laboratory, Inc. (Origins) in Denver, Colorado for analysis. Origins analyzed the soil samples for benzene, toluene, ethylbenzene, and total xylenes (BTEX) and gasoline range organics (GRO) by U.S. EPA Method 8260; and for diesel range organics (DRO) by U.S. EPA Method 8015C. Based on the analytical results, three (3) of the four (4) samples contained concentrations of DRO which exceed the COGCC Table 910-1 concentration of 500 milligrams per kilogram (mg/kg).

AGW returned to the site on March 15, 2017, to collect soil samples following additional soil removal activities by GWOC. AGW collected three (3) discrete soil samples from the spill area from between 3 and 4 inches below the ground surface. On the day of collection, the soil samples (designated 137-5 through 137-7) were submitted to Origins for analysis. Based on the analytical results, all three (3) of the samples contained concentrations of DRO which exceed the COGCC Table 910-1 concentration of 500 milligrams per kilogram (mg/kg).

AGW returned to the site on July 26, 2017, to collect soil samples following additional soil removal activities by GWOC. AGW collected five (5) discrete soil samples from the spill area from between 3 and 4 inches below the ground surface. On the day of collection, the soil samples (designated 137-8 through 137-12) were submitted to Origins for analysis. Based on the analytical results, all five (5) of the samples contained concentrations of DRO which exceed the COGCC Table 910-1 concentration of 500 milligrams per kilogram (mg/kg).

On August 7, 2017, AGW was onsite during additional soil excavation and removal at the spill location. Approximately 24 inches of soil were removed within the entire spill location. AGW collected four (4) discrete soil samples from the spill area from between 3 and 4 inches below the base of the excavation area. On the day of collection, the soil samples (designated 137-13 through 137-16) were submitted to Origins for analysis. Based on the analytical results, all none of the samples contained concentrations of BTEX, GRO, DRO which exceed the COGCC Table 910-1 concentration of 500 milligrams per kilogram (mg/kg).

The soil sample analytical results are included in Table 1, below, and the laboratory analytical reports are included in Attachment B.

**Table 1: Kodak North
Soil Sample Results
January 2017 – August 2017**

Sample Number	Sampling Date	BTEX (mg/kg)*	GRO (mg/kg)	DRO (mg/kg)	Final Disposition of Soil
137-1	01/10/2017	ND	27.8	137	Excavated and disposed of offsite
137-2	01/10/2017	ND	ND	656	
137-3	01/10/2017	<Table 910-1	192	6,790	
137-4	01/10/2017	ND	14.8	864	
137-5	03/15/2017	<Table 910-1	147	74,700	
137-6	03/15/2017	ND	22.8	45,500	
137-7	03/15/2017	<Table 910-1	49.3	58,500	
137-8	07/26/2017	ND	ND	1,960	

Sample Number	Sampling Date	BTEX (mg/kg)*	GRO (mg/kg)	DRO (mg/kg)	Final Disposition of Soil
137-9	07/26/2017	ND	ND	1,190	
137-10	07/26/2017	ND	ND	5,070	
137-11	07/26/2017	ND	ND	5,960	
137-12	07/26/2017	ND	ND	3,150	
137-13	08/07/2017	ND	ND	ND	N/A
137-14	08/07/2017	ND	ND	ND	
137-15	08/07/2017	ND	ND	ND	
137-16	08/07/2017	ND	ND	ND	
COGCC Table 910-1 Standards**		B: 0.17 T: 85 E: 100 X: 175	GRO + DRO = 500		

BTEX: Benzene, Toluene, Ethylbenzene, Total Xylenes

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

*mg/kg: Milligrams per kilogram

** Standards from Colorado Oil and Gas Conservation Commission Table 910-1, effective January 30, 2015.

ND: Not detected above laboratory method detection level or COGCC standard

N/A: Not Applicable

CONCLUSIONS

To evaluate analytical results associated with oil and gas related sites in Colorado, AGW compares detected concentrations to the regulatory standards published on Table 910-1 of the COGCC Series 900 Rules. Based on the final soil analytical results obtained at the site, any impacted soils resulting from a release of approximately 20 bbls of oil have been removed from the spill area and remaining soils do not contain any of the analyzed compounds at concentrations greater than their Table 910-1 concentrations. AGW recommends that GWOC request closure for this project from the COGCC.

Thank you for allowing AGW to assist you with these environmental consulting services. Please contact us for any clarification of the information presented in this report. We look forward to the opportunity to serve you on future projects.

Sincerely,
A.G. Wassenaar, Inc.



Brian J. Glade, P.E.
Vice President

RAP/BJG/mjg

Attachments

ATTACHMENT A

SPILL NOTIFICATION REPORTS



State of Colorado Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80203
Phone: (303) 894-2100 Fax: (303) 894-2109



Document Number:

401176254

Date Received:

01/03/2017

Spill report taken by:

ALLISON, RICK

Spill/Release Point ID:

448872

SPILL/RELEASE REPORT (INITIAL)

This form is to be submitted by the party responsible for the oil and gas spill or release. Refer to COGCC Rule 906.b. for reporting requirements of spills or releases of E&P Waste or produced fluids. Submit a Site Investigation and Remediation Workplan (Form 27) when requested by the Director.

OPERATOR INFORMATION

Name of Operator: <u>GREAT WESTERN OPERATING COMPANY LLC</u>	Operator No: <u>10110</u>	Phone Numbers
Address: <u>1801 BROADWAY #500</u>		Phone: <u>(303) 398-0302</u>
City: <u>DENVER</u>	State: <u>CO</u>	Mobile: <u>(303) 549-7739</u>
Zip: <u>80202</u>		Email: <u>sdonato@gwogco.com</u>
Contact Person: <u>Scot Donato</u>		

INITIAL SPILL/RELEASE REPORT

Initial Spill/Release Report Doc# 401176254

Initial Report Date: 01/03/2017 Date of Discovery: 12/31/2016 Spill Type: Recent Spill

Spill/Release Point Location:

Location of Spill/Release: QTRQTR SENW SEC 26 TWP 6N RNG 67W MERIDIAN 6

Latitude: 40.459390 Longitude: -104.863360

Municipality (if within municipal boundaries): _____ County: WELD

Reference Location:

Facility Type: WELL PAD ☒ Facility/Location ID No 333035
☐ No Existing Facility or Location ID No.
☐ Well API No. (Only if the reference facility is well) 05- -

Fluid(s) Spilled/Released (please answer Yes/No):

Was one (1) barrel or more spilled outside of berms or secondary containment? Yes

Secondary containment, including walls & floor regardless of construction material, must be sufficiently impervious to contain any discharge from primary containment until cleanup occurs.

Were Five (5) barrels or more spilled? Yes

Estimated Total Spill Volume: use same ranges as others for values

Estimated Oil Spill Volume(bbl): >=5 and <100

Estimated Condensate Spill Volume(bbl): 0

Estimated Flow Back Fluid Spill Volume(bbl): 0

Estimated Produced Water Spill Volume(bbl): 0

Estimated Other E&P Waste Spill Volume(bbl): 0

Estimated Drilling Fluid Spill Volume(bbl): 0

Specify: _____

Land Use:

Current Land Use: OTHER Other(Specify): production

Weather Condition: sunny, cool

Surface Owner: FEE Other(Specify): _____

Check if impacted or threatened by spill/Release (please answer Yes/No to all that apply):

Waters of the State ☐ Residence/Occupied Structure ☐ Livestock ☐ Public Byway ☐ Surface Water Supply Area ☐

As defined in COGCC 100-Series Rules

Describe what is known about the spill/release event (what happened -- including how it was stopped, contained, and recovered):

GUN LINE HOSE BETWEEN SHAKER PIT & SUB BURST WHILE CREWS WERE TRIPPING PIPE. RELEASING 20+ BBLs, ESTIMATED 5+ BBLs OBM OUTSIDE OF CONTAINMENT

List Agencies and Other Parties Notified:

OTHER NOTIFICATIONS

<u>Date</u>	<u>Agency/Party</u>	<u>Contact</u>	<u>Phone</u>	<u>Response</u>
1/1/2017	COGCC		-	notified by email
1/1/2017	Weld County		-	notified by email
1/1/2017	Town of Windsor		-	notified by email
1/1/2017	surface owner	OmniTRAX	-	notified by email

OPERATOR COMMENTS:

I hereby certify all statements made in this form are to the best of my knowledge true, correct, and complete.

Signed: _____ Print Name: Rachel Peterson

Title: Senior Project Manager Date: 01/03/2017 Email: petersonr@agwassenaar.com

COA Type

Description

	<p>Per Rule 906.b., the Operator shall make a supplemental report on Form 19 not more than 10 calendar days after the spill/release is discovered that includes an 8 1/2 x 11 inch topographic map showing the governmental section and location of the spill or an aerial photograph showing the location of the spill; all pertinent information about the spill/release known to the Operator that has not been reported previously; and information relating to the initial mitigation, site investigation, and remediation measures conducted by the Operator.</p> <p>COGCC notes that the Aerial Photograph required by rule 906.b. has been submitted. The Supplemental Spill Detail Report for this release is due by January 10, 2017.</p>
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Attachment Check List

Att Doc Num

Name

2615459	INITIAL NOTIFICATION
401176254	SPILL/RELEASE REPORT(INITIAL)

Total Attach: 2 Files

General Comments

User Group

Comment

Comment Date

		Stamp Upon Approval
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Total: 0 comment(s)

State of Colorado Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80203
Phone: (303) 894-2100 Fax: (303) 894-2109



Document Number:

401180850

Date Received:

01/10/2017

Spill report taken by:

ALLISON, RICK

Spill/Release Point ID:

448872

SPILL/RELEASE REPORT (SUPPLEMENTAL)

This form is to be submitted by the party responsible for the oil and gas spill or release. Refer to COGCC Rule 906.b. for reporting requirements of spills or releases of E&P Waste or produced fluids. Submit a Site Investigation and Remediation Workplan (Form 27) when requested by the Director.

OPERATOR INFORMATION

Name of Operator: <u>GREAT WESTERN OPERATING COMPANY LLC</u>	Operator No: <u>10110</u>	Phone Numbers Phone: <u>(303) 398-0302</u> Mobile: <u>(303) 549-7739</u> Email: <u>sdonato@gwogco.com</u>
Address: <u>1801 BROADWAY #500</u>		
City: <u>DENVER</u>	State: <u>CO</u> Zip: <u>80202</u>	
Contact Person: <u>Scot Donato</u>		

INITIAL SPILL/RELEASE REPORT

Initial Spill/Release Report Doc# 401176254

Initial Report Date: 01/03/2017 Date of Discovery: 12/31/2016 Spill Type: Recent Spill

Spill/Release Point Location:

Location of Spill/Release: QTRQTR SENW SEC 26 TWP 6N RNG 67W MERIDIAN 6Latitude: 40.459390 Longitude: -104.863360Municipality (if within municipal boundaries): _____ County: WELD

Reference Location:

Facility Type: WELL PAD ☒ Facility/Location ID No 333035☐ No Existing Facility or Location ID No.☐ Well API No. (Only if the reference facility is well) 05- -

Fluid(s) Spilled/Released (please answer Yes/No):

Was one (1) barrel or more spilled outside of berms or secondary containment? Yes

Secondary containment, including walls & floor regardless of construction material, must be sufficiently impervious to contain any discharge from primary containment until cleanup occurs.

Were Five (5) barrels or more spilled? Yes

Estimated Total Spill Volume: use same ranges as others for values

Estimated Oil Spill Volume(bbl): >=5 and <100Estimated Condensate Spill Volume(bbl): 0Estimated Flow Back Fluid Spill Volume(bbl): 0Estimated Produced Water Spill Volume(bbl): 0Estimated Other E&P Waste Spill Volume(bbl): 0Estimated Drilling Fluid Spill Volume(bbl): 0

Specify: _____

Land Use:

Current Land Use: OTHER Other(Specify): productionWeather Condition: sunny, coolSurface Owner: FEE Other(Specify): _____

Check if impacted or threatened by spill/Release (please answer Yes/No to all that apply):

Waters of the State ☐ Residence/Occupied Structure ☐ Livestock ☐ Public Byway ☐ Surface Water Supply Area ☐

As defined in COGCC 100-Series Rules

Describe what is known about the spill/release event (what happened -- including how it was stopped, contained, and recovered):

GUN LINE HOSE BETWEEN SHAKER PIT & SUB BURST WHILE CREWS WERE TRIPPING PIPE. RELEASING 20+ BBLs, ESTIMATED 5+ BBLs OBM OUTSIDE OF CONTAINMENT

List Agencies and Other Parties Notified:

OTHER NOTIFICATIONS

Date	Agency/Party	Contact	Phone	Response
1/1/2017	COGCC		-	notified by email
1/1/2017	Weld County		-	notified by email
1/1/2017	Town of Windsor		-	notified by email
1/1/2017	surface owner	OmniTRAX	-	notified by email

SPILL/RELEASE DETAIL REPORTS

#1	Supplemental Report Date: 01/10/2017		
FLUIDS	BBL's SPILLED	BBL's RECOVERED	Unknown
OIL	20	20	<input type="checkbox"/>
CONDENSATE	0	0	<input type="checkbox"/>
PRODUCED WATER	0	0	<input type="checkbox"/>
DRILLING FLUID	0	0	<input type="checkbox"/>
FLOW BACK FLUID	0	0	<input type="checkbox"/>
OTHER E&P WASTE	0	0	<input type="checkbox"/>
specify: _____			
Was spill/release completely contained within berms or secondary containment? <u>NO</u> Was an Emergency Pit constructed? <u>NO</u>			
<i>Secondary containment, including walls & floor regardless of construction material, must be sufficiently impervious to contain any discharge from primary containment until cleanup occurs.</i>			
A Form 15 Pit Report shall be submitted within 30 calendar days after the construction of an emergency pit			
Impacted Media (Check all that apply) <input checked="" type="checkbox"/> Soil <input type="checkbox"/> Groundwater <input type="checkbox"/> Surface Water <input type="checkbox"/> Dry Drainage Feature			
Surface Area Impacted: Length of Impact (feet): 20		Width of Impact (feet): 20	
Depth of Impact (feet BGS): 0		Depth of Impact (inches BGS): _____	
How was extent determined?			
Visual determination			
Soil/Geology Description:			
Nunn Clay Loam, 0 to 1 percent slopes			
Depth to Groundwater (feet BGS) 30		Number Water Wells within 1/2 mile radius: 28	
If less than 1 mile, distance in feet to nearest		Water Well 763 None <input type="checkbox"/>	Surface Water 895 None <input type="checkbox"/>
		Wetlands None <input checked="" type="checkbox"/>	Springs None <input checked="" type="checkbox"/>
		Livestock None <input checked="" type="checkbox"/>	Occupied Building 1100 None <input type="checkbox"/>
Additional Spill Details Not Provided Above:			

Soil sampling will be conducted to confirm adequate cleanup of release. Further documentation of soil sampling will be provided.

CORRECTIVE ACTIONS

#1 Supplemental Report Date: 01/10/2017

Cause of Spill (Check all that apply) ☐ Human Error ☒ Equipment Failure ☐ Historical-Unknown
☐ Other (specify) _____

Describe Incident & Root Cause (include specific equipment and point of failure)

GUN LINE HOSE BETWEEN SHAKER PIT & SUB BURST WHILE CREWS WERE TRIPPING PIPE. RELEASING 20+ BBLS, ESTIMATED 5+ BBLS OBM OUTSIDE OF CONTAINMENT

Describe measures taken to prevent the problem(s) from reoccurring:

Hose was replaced and personnel will inspect remaining hoses for defect or wear and replace as needed.

Volume of Soil Excavated (cubic yards): 1

Disposition of Excavated Soil (attach documentation) ☒ Offsite Disposal ☐ Onsite Treatment
☐ Other (specify) _____

Volume of Impacted Ground Water Removed (bbls): 0

Volume of Impacted Surface Water Removed (bbls): 0

REQUEST FOR CLOSURE

Spill/Release Reports should be closed when impacts have been remediated or when further investigation and corrective actions will take place under an approved Form 27.

Basis for Closure: ☐ Corrective Actions Completed (documentation attached)

☐ Work proceeding under an approved Form 27

Form 27 Remediation Project No: _____

OPERATOR COMMENTS:

I hereby certify all statements made in this form are to the best of my knowledge true, correct, and complete.

Signed: _____ Print Name: Rachel A. Peterson

Title: Senior Project Manager Date: 01/10/2017 Email: petersonr@agwassenaar.com

COA Type

Description

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Attachment Check List

Att Doc Num

Name

401180850	SPILL/RELEASE REPORT(SUPPLEMENTAL)
401184052	FORM 19 SUBMITTED

Total Attach: 2 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Environmental	COGCC notes that the closest mapped water well permit documents to this location show that depth to ground water may be as shallow as 9 feet.	01/13/2017

Total: 1 comment(s)

ATTACHMENT B

LABORATORY ANALYTICAL REPORTS





January 16, 2017

A.G. Wassenaar

Rachel Peterson

2180 South Ivanhoe Street - Suite 5

Denver

CO 80222

Project Name - Kodale North

Project Number - 166137

Attached are your analytical results for Kodale North received by Origins Laboratory, Inc. January 10, 2017. This project is associated with Origins project number X701089-01.

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



1725 Elk Place, Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645

A.G. Wassenaar

2180 South Ivanhoe Street - Suite 5

Denver CO 80222

Rachel Peterson

Project Number: 166137

Project: Kodale North

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
137-1	X701089-01	Soil	January 10, 2017 11:45	01/10/2017 13:12
137-2	X701089-02	Soil	January 10, 2017 11:45	01/10/2017 13:12
137-3	X701089-03	Soil	January 10, 2017 11:45	01/10/2017 13:12
137-4	X701089-04	Soil	January 10, 2017 11:45	01/10/2017 13:12

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.

A.G. Wassenaar

2180 South Ivanhoe Street - Suite 5

Denver CO 80222

Rachel Peterson

Project Number: 166137

Project: Kodale North

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: X701089

Client: A.G. Wassenaar

Client Project ID: Kodale North

Checklist Completed by: J. Se Smith

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

Date/time completed: 1-10-17

Airbill #: 11

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

Cooler Number/Temperature: 1 / 9.7 °C 1 °C 1 °C (Describe) _____ °C

Thermometer ID: T003

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?		<input checked="" type="checkbox"/>		<u>Sampled Sunday</u>
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact ⁽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"/>			
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 NaAsO 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 JP Project Manager

Date/Time Reviewed 01/10/17

Origins Laboratory, Inc.

Jen Pellegrini

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.

A.G. Wassenaar

2180 South Ivanhoe Street - Suite 5

Denver CO 80222

Rachel Peterson

Project Number: 166137

Project: Kodale North

137-1

1/10/2017 11:45:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X701089-01 (Soil)

Diesel Range Organics (DRO/TEPH) by EPA 8015C

Diesel (C10-C28)	137	50.0	mg/kg	1	B7A1104	01/11/2017	01/11/2017
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Surrogate: o-Terphenyl	87.2 %	59-131			"	"	"
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GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	27.8	5.00	mg/kg	25	B7A1101	01/11/2017	01/11/2017	
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	96.7 %	70-130			"	"	"
Surrogate: Toluene-d8	98.5 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	98.1 %	70-130			"	"	"

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.

A.G. Wassenaar

2180 South Ivanhoe Street - Suite 5

Denver CO 80222

Rachel Peterson

Project Number: 166137

Project: Kodale North

137-2

1/10/2017 11:45:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X701089-02 (Soil)

Diesel Range Organics (DRO/TEPH) by EPA 8015C

Diesel (C10-C28)	656	50.0	mg/kg	1	B7A1104	01/11/2017	01/11/2017
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Surrogate: o-Terphenyl	93.0 %	59-131			"	"	"
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GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7A1101	01/11/2017	01/11/2017	U
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Benzene	ND	0.050	"	"	"	"	"	U
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Toluene	ND	0.050	"	"	"	"	"	U
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Ethylbenzene	ND	0.050	"	"	"	"	"	U
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Xylenes, total	ND	0.050	"	"	"	"	"	U
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Surrogate: 1,2-Dichloroethane-d4	100 %	70-130			"	"	"
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Surrogate: Toluene-d8	99.7 %	70-130			"	"	"
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Surrogate: 4-Bromofluorobenzene	101 %	70-130			"	"	"
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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.

A.G. Wassenaar

2180 South Ivanhoe Street - Suite 5

Denver CO 80222

Rachel Peterson

Project Number: 166137

Project: Kodale North

137-3

1/10/2017 11:45:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X701089-03 (Soil)

Diesel Range Organics (DRO/TEPH) by EPA 8015C

Diesel (C10-C28)	6790	50.0	mg/kg	1	B7A1104	01/11/2017	01/11/2017
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Surrogate: o-Terphenyl	86.6 %	59-131			"	"	"
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GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	192	5.00	mg/kg	25	B7A1101	01/11/2017	01/11/2017
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Benzene	ND	0.050	"	"	"	"	" U
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Toluene	0.378	0.050	"	"	"	"	"
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Ethylbenzene	0.336	0.050	"	"	"	"	"
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Xylenes, total	2.31	0.050	"	"	"	"	"
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Surrogate: 1,2-Dichloroethane-d4	104 %	70-130			"	"	"
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Surrogate: Toluene-d8	95.4 %	70-130			"	"	"
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Surrogate: 4-Bromofluorobenzene	111 %	70-130			"	"	"
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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.

A.G. Wassenaar

2180 South Ivanhoe Street - Suite 5

Denver CO 80222

Rachel Peterson

Project Number: 166137

Project: Kodale North

137-4

1/10/2017 11:45:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X701089-04 (Soil)

Diesel Range Organics (DRO/TEPH) by EPA 8015C

Diesel (C10-C28)	864	50.0	mg/kg	1	B7A1104	01/11/2017	01/11/2017
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Surrogate: o-Terphenyl	109 %	59-131			"	"	"
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GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	14.8	5.00	mg/kg	25	B7A1101	01/11/2017	01/11/2017
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Benzene	ND	0.050	"	"	"	"	U
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Toluene	ND	0.050	"	"	"	"	U
---------	----	-------	---	---	---	---	---

Ethylbenzene	ND	0.050	"	"	"	"	U
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Xylenes, total	ND	0.050	"	"	"	"	U
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Surrogate: 1,2-Dichloroethane-d4	97.3 %	70-130			"	"	"
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Surrogate: Toluene-d8	101 %	70-130			"	"	"
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Surrogate: 4-Bromofluorobenzene	97.9 %	70-130			"	"	"
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Origins Laboratory, Inc.



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A.G. Wassenaar

2180 South Ivanhoe Street - Suite 5

Denver CO 80222

Rachel Peterson

Project Number: 166137

Project: Kodale North

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 B7A1101 - EPA 5030 (soil)

Blank (B7A1101-BLK1)

Prepared: 01/11/2017 Analyzed: 01/11/2017

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	62		ug/kg	62.5		99.9	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.2	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.4	70-130			

Origins Laboratory, Inc.



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A.G. Wassenaar

2180 South Ivanhoe Street - Suite 5

Denver CO 80222

Rachel Peterson

Project Number: 166137

Project: Kodale North

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 B7A1101 - EPA 5030 (soil)

LCS (B7A1101-BS1)

Prepared: 01/11/2017 Analyzed: 01/11/2017

Benzene	0.111	0.002	mg/kg	0.100	111	77.1-124
Toluene	0.119	0.002	"	0.100	119	74.5-128
Ethylbenzene	0.116	0.002	"	0.100	116	66.4-127
m,p-Xylene	0.231	0.004	"	0.200	115	76.6-124
o-Xylene	0.118	0.002	"	0.100	118	76.6-124
Surrogate: 1,2-Dichloroethane-d4	54		ug/kg	62.5	85.6	70-130
Surrogate: Toluene-d8	63		"	62.5	102	70-130
Surrogate: 4-Bromofluorobenzene	62		"	62.5	98.5	70-130

Origins Laboratory, Inc.



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A.G. Wassenaar

2180 South Ivanhoe Street - Suite 5

Denver CO 80222

Rachel Peterson

Project Number: 166137

Project: Kodale North

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 B7A1101 - EPA 5030 (soil)

Matrix Spike (B7A1101-MS1)		Source: X701087-01			Prepared: 01/11/2017 Analyzed: 01/11/2017					
Benzene	0.111	0.002	mg/kg	0.100	ND	111	71.8-126			
Toluene	0.113	0.002	"	0.100	ND	113	65.1-130			
Ethylbenzene	0.112	0.002	"	0.100	ND	112	62.2-130			
m,p-Xylene	0.223	0.004	"	0.200	ND	111	46.5-137			
o-Xylene	0.114	0.002	"	0.100	ND	114	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	69		ug/kg	62.5		111	70-130			
Surrogate: Toluene-d8	61		"	62.5		97.8	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.8	70-130			

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A.G. Wassenaar

2180 South Ivanhoe Street - Suite 5

Denver CO 80222

Rachel Peterson

Project Number: 166137

Project: Kodale North

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 B7A1101 - EPA 5030 (soil)

Matrix Spike Dup (B7A1101-MSD1)		Source: X701087-01			Prepared: 01/11/2017 Analyzed: 01/11/2017					
Benzene	0.110	0.002	mg/kg	0.100	ND	110	71.8-126	0.488	11.3	
Toluene	0.116	0.002	"	0.100	ND	116	65.1-130	1.97	15.4	
Ethylbenzene	0.108	0.002	"	0.100	ND	108	62.2-130	4.08	19.6	
m,p-Xylene	0.216	0.004	"	0.200	ND	108	46.5-137	2.96	19.2	
o-Xylene	0.110	0.002	"	0.100	ND	110	54.2-134	3.17	17.9	
Surrogate: 1,2-Dichloroethane-d4	68		ug/kg	62.5		108	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.2	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		96.4	70-130			

Origins Laboratory, Inc.



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A.G. Wassenaar
2180 South Ivanhoe Street - Suite 5
Denver CO 80222

Rachel Peterson
Project Number: 166137
Project: Kodale North

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 B7A1104 - EPA 3580

Blank (B7A1104-BLK1)

Prepared: 01/11/2017 Analyzed: 01/11/2017

Diesel (C10-C28)	ND	50.0	mg/kg							U
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Surrogate: o-Terphenyl

49

"

50.0

98.0

59-131

LCS (B7A1104-BS1)

Prepared: 01/11/2017 Analyzed: 01/11/2017

Diesel (C10-C28)	874	50.0	mg/kg	1000		87.4	64-121			
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Surrogate: o-Terphenyl

50

"

50.0

99.6

59-131

Matrix Spike (B7A1104-MS1)

Source: X701088-01

Prepared: 01/11/2017 Analyzed: 01/11/2017

Diesel (C10-C28)	927	50.0	mg/kg	1000	43.7	88.4	53-125			
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Surrogate: o-Terphenyl

55

"

50.0

111

59-131

Matrix Spike Dup (B7A1104-MSD1)

Source: X701088-01

Prepared: 01/11/2017 Analyzed: 01/11/2017

Diesel (C10-C28)	935	50.0	mg/kg	1000	43.7	89.2	53-125	0.875	20	
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Surrogate: o-Terphenyl

47

"

50.0

93.7

59-131

Origins Laboratory, Inc.



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A.G. Wassenaar

2180 South Ivanhoe Street - Suite 5

Denver CO 80222

Rachel Peterson

Project Number: 166137

Project: Kodale North

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



March 21, 2017

A.G. Wassenaar

Rachel Peterson

2180 South Ivanhoe Street - Suite 5

Denver

CO 80222

Project Name - Kodak North

Project Number - 166137

Attached are your analytical results for Kodak North received by Origins Laboratory, Inc. March 15, 2017. This project is associated with Origins project number Y703230-01.

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



1725 Elk Place, Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645

A.G. Wassenaar

2180 South Ivanhoe Street - Suite 5

Denver CO 80222

Rachel Peterson

Project Number: 166137

Project: Kodak North

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
137-5	Y703230-01	Soil	March 15, 2017 14:55	03/15/2017 17:00
137-6	Y703230-02	Soil	March 15, 2017 15:00	03/15/2017 17:00
137-7	Y703230-03	Soil	March 15, 2017 15:05	03/15/2017 17:00

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

A.G. Wassenaar

2180 South Ivanhoe Street - Suite 5

Denver CO 80222

Rachel Peterson

Project Number: 166137

Project: Kodak North

www.originslaboratory.com

page 1 of 1

Y703230

ORIGINS
LABORATORY, INC

Client: A.G. Wassenaar
Address: 2180 S. Ivanhoe
Telephone Number: 303-217-5104
Email Address: hazzelagood@agwco.com
Project Manager: RACHEL PETERSON
Project Name: KODAK NORTH
Project Number: 166137
Samples Collected By: Dett

hazzelagood@agwco.com
peterson@agwco.com

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis			Sample Instructions	
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa	Other	GP0	DE0		STEX (8260)
137-5	3-15-17	14:55	2	X					X						1
137-6	3-15-17	15:00	2	X					X						2
137-7	3-15-17	15:05	2	X					X						3
															4
															5
															6
															7
															8
															9
															10

Relinquished By:	Date:	Time:	Received By:	Date:	Time:	Turnaround Time:
J. M. Mathis	3-15-17	17:00	R. Peterson	3-15-17	17:00	Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input checked="" type="checkbox"/>

1725 Elk Place | Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645

Origins Laboratory, Inc.

Jen Pellegrini

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.

A.G. Wassenaar

2180 South Ivanhoe Street - Suite 5

Denver CO 80222

Rachel Peterson

Project Number: 166137

Project: Kodak North

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y7CB230

Client: A.G. Wassenaar

Client Project ID: Kodak North

Checklist Completed by: DMW

Shipped Via: 4D
(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 3-16-17 1247

Airbill #: NA

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

Cooler Number/Temperature: 1 12.4 °C 1 °C 1 °C (Describe) 1 °C

Thermometer ID: TCCB

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	/			
Is there ice present (document if blue ice is used)	/			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		/		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		/		
Were all samples received intact ⁽¹⁾ ?	/			
Was adequate sample volume provided ⁽¹⁾ ?	/			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		/		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	/			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	/			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	/			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	/			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			/	
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 NaAsO ₂ +NaOH, ZnAc+NaOH)		/		
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) DMW

3-16-17 1247
Date/Time Reviewed

Origins Laboratory, Inc.

Jefe Pellegrini

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.

A.G. Wassenaar

2180 South Ivanhoe Street - Suite 5

Denver CO 80222

Rachel Peterson

Project Number: 166137

Project: Kodak North

137-5

3/15/2017 2:55:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y703230-01 (Soil)

Diesel Range Organics (DRO/TEPH) by EPA 8015C

Diesel (C10-C28)	74700	500	mg/kg	10	B7C1602	03/16/2017	03/20/2017
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Surrogate: o-Terphenyl	93.3 %	59-131			"	"	03/16/2017
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GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	147	5.00	mg/kg	25	B7C1601	03/16/2017	03/16/2017	
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	0.126	0.050	"	"	"	"	"	
Xylenes, total	1.03	0.050	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	109 %	70-130			"	"	"
Surrogate: Toluene-d8	101 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	119 %	70-130			"	"	"

Origins Laboratory, Inc.



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A.G. Wassenaar

2180 South Ivanhoe Street - Suite 5

Denver CO 80222

Rachel Peterson

Project Number: 166137

Project: Kodak North

137-6

3/15/2017 3:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y703230-02 (Soil)

Diesel Range Organics (DRO/TEPH) by EPA 8015C

Diesel (C10-C28)	45500	500	mg/kg	10	B7C1602	03/16/2017	03/20/2017
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Surrogate: o-Terphenyl	112 %	59-131			"	"	03/16/2017
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GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	22.8	5.00	mg/kg	25	B7C1601	03/16/2017	03/21/2017	
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	107 %	70-130			"	"	"
Surrogate: Toluene-d8	98.6 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	113 %	70-130			"	"	"

Origins Laboratory, Inc.



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A.G. Wassenaar
2180 South Ivanhoe Street - Suite 5
Denver CO 80222

Rachel Peterson
Project Number: 166137
Project: Kodak North

137-7

3/15/2017 3:05:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y703230-03 (Soil)

Diesel Range Organics (DRO/TEPH) by EPA 8015C

Diesel (C10-C28)	58500	500	mg/kg	10	B7C1602	03/16/2017	03/20/2017
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Surrogate: o-Terphenyl	77.8 %	59-131			"	"	03/17/2017
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GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	49.3	5.00	mg/kg	25	B7C1601	03/16/2017	03/21/2017	
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	0.154	0.050	"	"	"	"	"	
Xylenes, total	0.272	0.050	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	108 %	70-130			"	"	"
Surrogate: Toluene-d8	100 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	117 %	70-130			"	"	"

Origins Laboratory, Inc.



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A.G. Wassenaar

2180 South Ivanhoe Street - Suite 5

Denver CO 80222

Rachel Peterson

Project Number: 166137

Project: Kodak North

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 B7C1601 - EPA 5030 (soil)

Blank (B7C1601-BLK1)

Prepared: 03/16/2017 Analyzed: 03/16/2017

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		96.6	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		95.9	70-130			

Origins Laboratory, Inc.



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A.G. Wassenaar

2180 South Ivanhoe Street - Suite 5

Denver CO 80222

Rachel Peterson

Project Number: 166137

Project: Kodak North

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 B7C1601 - EPA 5030 (soil)

Blank (B7C1601-BLK2)

Prepared: 03/16/2017 Analyzed: 03/16/2017

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	69		ug/kg	62.5		110	70-130			
Surrogate: Toluene-d8	60		"	62.5		96.2	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.2	70-130			

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.

A.G. Wassenaar

2180 South Ivanhoe Street - Suite 5

Denver CO 80222

Rachel Peterson

Project Number: 166137

Project: Kodak North

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 B7C1601 - EPA 5030 (soil)

LCS (B7C1601-BS1)

Prepared: 03/16/2017 Analyzed: 03/16/2017

Benzene	0.109	0.002	mg/kg	0.100		109	77.1-124			
Toluene	0.105	0.002	"	0.100		105	74.5-128			
Ethylbenzene	0.103	0.002	"	0.100		103	66.4-127			
m,p-Xylene	0.207	0.004	"	0.200		104	76.6-124			
o-Xylene	0.103	0.002	"	0.100		103	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	62		ug/kg	62.5		99.4	70-130			
Surrogate: Toluene-d8	61		"	62.5		96.9	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		96.0	70-130			

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

A.G. Wassenaar

2180 South Ivanhoe Street - Suite 5

Denver CO 80222

Rachel Peterson

Project Number: 166137

Project: Kodak North

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 B7C1601 - EPA 5030 (soil)

LCS (B7C1601-BS2)

Prepared: 03/16/2017 Analyzed: 03/16/2017

Benzene	0.111	0.002	mg/kg	0.100	111	77.1-124
Toluene	0.106	0.002	"	0.100	106	74.5-128
Ethylbenzene	0.103	0.002	"	0.100	103	66.4-127
m,p-Xylene	0.209	0.004	"	0.200	105	76.6-124
o-Xylene	0.104	0.002	"	0.100	104	76.6-124
Surrogate: 1,2-Dichloroethane-d4	74		ug/kg	62.5	119	70-130
Surrogate: Toluene-d8	60		"	62.5	96.0	70-130
Surrogate: 4-Bromofluorobenzene	62		"	62.5	99.8	70-130

Origins Laboratory, Inc.



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A.G. Wassenaar

2180 South Ivanhoe Street - Suite 5

Denver CO 80222

Rachel Peterson

Project Number: 166137

Project: Kodak North

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 B7C1601 - EPA 5030 (soil)

Matrix Spike (B7C1601-MS1)		Source: Y703206-02			Prepared: 03/16/2017 Analyzed: 03/16/2017					
Benzene	0.108	0.002	mg/kg	0.100	ND	108	71.8-126			
Toluene	0.106	0.002	"	0.100	ND	106	65.1-130			
Ethylbenzene	0.104	0.002	"	0.100	ND	104	62.2-130			
m,p-Xylene	0.208	0.004	"	0.200	ND	104	46.5-137			
o-Xylene	0.103	0.002	"	0.100	ND	103	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	62		ug/kg	62.5		99.6	70-130			
Surrogate: Toluene-d8	61		"	62.5		97.6	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.0	70-130			

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A.G. Wassenaar

2180 South Ivanhoe Street - Suite 5

Denver CO 80222

Rachel Peterson

Project Number: 166137

Project: Kodak North

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 B7C1601 - EPA 5030 (soil)

Matrix Spike Dup (B7C1601-MSD1)		Source: Y703206-02			Prepared: 03/16/2017 Analyzed: 03/16/2017					
Benzene	0.108	0.002	mg/kg	0.100	ND	108	71.8-126	0.408	11.3	
Toluene	0.102	0.002	"	0.100	ND	102	65.1-130	3.90	15.4	
Ethylbenzene	0.102	0.002	"	0.100	ND	102	62.2-130	2.66	19.6	
m,p-Xylene	0.202	0.004	"	0.200	ND	101	46.5-137	2.91	19.2	
o-Xylene	0.100	0.002	"	0.100	ND	100	54.2-134	2.48	17.9	
Surrogate: 1,2-Dichloroethane-d4	65		ug/kg	62.5		104	70-130			
Surrogate: Toluene-d8	60		"	62.5		96.3	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.4	70-130			

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Jen Pellegrini For Noelle Doyle Mathis, President

A.G. Wassenaar
2180 South Ivanhoe Street - Suite 5
Denver CO 80222

Rachel Peterson
Project Number: 166137
Project: Kodak North

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 B7C1602 - EPA 3580

Blank (B7C1602-BLK1)				Prepared: 03/16/2017 Analyzed: 03/16/2017						
Diesel (C10-C28)	ND	50.0	mg/kg							U
Surrogate: o-Terphenyl	43		"	50.0		86.3	59-131			
Blank (B7C1602-BLK2)				Prepared: 03/16/2017 Analyzed: 03/16/2017						
Diesel (C10-C28)	ND	50.0	mg/kg							U
Surrogate: o-Terphenyl	43		"	50.0		86.6	59-131			
LCS (B7C1602-BS1)				Prepared: 03/16/2017 Analyzed: 03/16/2017						
Diesel (C10-C28)	862	50.0	mg/kg	1000		86.2	64-121			
Surrogate: o-Terphenyl	42		"	50.0		84.7	59-131			
LCS (B7C1602-BS2)				Prepared: 03/16/2017 Analyzed: 03/16/2017						
Diesel (C10-C28)	900	50.0	mg/kg	1000		90.0	64-121			
Surrogate: o-Terphenyl	47		"	50.0		93.3	59-131			
Matrix Spike (B7C1602-MS1)				Source: Y703224-01		Prepared: 03/16/2017 Analyzed: 03/16/2017				
Diesel (C10-C28)	2060	50.0	mg/kg	1000	904	115	53-125			
Surrogate: o-Terphenyl	51		"	50.0		101	59-131			
Matrix Spike (B7C1602-MS2)				Source: Y703224-02		Prepared: 03/16/2017 Analyzed: 03/16/2017				
Diesel (C10-C28)	1170	50.0	mg/kg	1000	529	64.3	53-125			
Surrogate: o-Terphenyl	44		"	50.0		88.7	59-131			

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Denver CO 80222

Rachel Peterson

Project Number: 166137

Project: Kodak North

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 B7C1602 - EPA 3580

Matrix Spike Dup (B7C1602-MSD1)		Source: Y703224-01			Prepared: 03/16/2017 Analyzed: 03/16/2017					
Diesel (C10-C28)	2060	50.0	mg/kg	1000	904	116	53-125	0.0637	20	
Surrogate: o-Terphenyl	52		"	50.0		103	59-131			
Matrix Spike Dup (B7C1602-MSD2)		Source: Y703224-02			Prepared: 03/16/2017 Analyzed: 03/16/2017					
Diesel (C10-C28)	1360	50.0	mg/kg	1000	529	83.4	53-125	15.0	20	
Surrogate: o-Terphenyl	48		"	50.0		96.9	59-131			

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A.G. Wassenaar

2180 South Ivanhoe Street - Suite 5

Denver CO 80222

Rachel Peterson

Project Number: 166137

Project: Kodak North

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



August 02, 2017

A.G. Wassenaar

Rachel Peterson

2180 South Ivanhoe Street - Suite 5

Denver

CO 80222

Project Name - Kodak North

Project Number - 166137

Attached are your analytical results for Kodak North received by Origins Laboratory, Inc. July 26, 2017. This project is associated with Origins project number Y707317-01.

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



1725 Elk Place, Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645

A.G. Wassenaar

2180 South Ivanhoe Street - Suite 5

Denver CO 80222

Rachel Peterson

Project Number: 166137

Project: Kodak North

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
137-8	Y707317-01	Soil	July 26, 2017 12:00	07/26/2017 15:55
137-9	Y707317-02	Soil	July 26, 2017 12:00	07/26/2017 15:55
137-10	Y707317-03	Soil	July 26, 2017 12:00	07/26/2017 15:55
137-11	Y707317-04	Soil	July 26, 2017 12:00	07/26/2017 15:55
137-12	Y707317-05	Soil	July 26, 2017 12:00	07/26/2017 15:55

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

Page 3 of 20

A.G. Wassenaar

2180 South Ivanhoe Street - Suite 5

Denver CO 80222

Rachel Peterson

Project Number: 166137

Project: Kodak North

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4707317

Client: AG Wassenaar Inc

Client Project ID: Kodak North

Checklist Completed by: Dee L

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

Date/time completed: 7-26-11 1626

Airbill #: NA

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

Cooler Number/Temperature: 11.5 °C 1 °C 1 °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 ⁽¹⁾ ?		<input checked="" type="checkbox"/>		<i>Sampled same day</i>
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"/>			
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 NaAsO 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) 900

Date/Time Reviewed 7/27/11

Origins Laboratory, Inc.

Jefe Pellegrini

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.

A.G. Wassenaar

2180 South Ivanhoe Street - Suite 5

Denver CO 80222

Rachel Peterson

Project Number: 166137

Project: Kodak North

137-8

7/26/2017 12:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y707317-01 (Soil)

Diesel Range Organics (DRO/TEPH) by EPA 8015C

Diesel (C10-C28)	1960	50.0	mg/kg	1	B7G2705	07/27/2017	07/28/2017
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Surrogate: o-Terphenyl	112 %	59-131			"	"	"
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GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B7G2704	07/27/2017	07/28/2017	U
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Benzene	ND	0.002	"	"	"	"	"	U
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Toluene	ND	0.002	"	"	"	"	"	U
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Ethylbenzene	ND	0.002	"	"	"	"	"	U
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Xylenes, total	ND	0.002	"	"	"	"	"	U
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Surrogate: 1,2-Dichloroethane-d4	102 %	70-130			"	"	"
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Surrogate: Toluene-d8	105 %	70-130			"	"	"
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Surrogate: 4-Bromofluorobenzene	101 %	70-130			"	"	"
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Origins Laboratory, Inc.



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A.G. Wassenaar

2180 South Ivanhoe Street - Suite 5

Denver CO 80222

Rachel Peterson

Project Number: 166137

Project: Kodak North

137-9

7/26/2017 12:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y707317-02 (Soil)

Diesel Range Organics (DRO/TEPH) by EPA 8015C

Diesel (C10-C28)	1190	50.0	mg/kg	1	B7G2705	07/27/2017	07/28/2017
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Surrogate: o-Terphenyl	126 %	59-131			"	"	"
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GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B7G2704	07/27/2017	07/28/2017	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	99.8 %	70-130			"	"	"
Surrogate: Toluene-d8	101 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	99.2 %	70-130			"	"	"

Origins Laboratory, Inc.



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2180 South Ivanhoe Street - Suite 5

Denver CO 80222

Rachel Peterson

Project Number: 166137

Project: Kodak North

137-10

7/26/2017 12:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y707317-03 (Soil)

Diesel Range Organics (DRO/TEPH) by EPA 8015C

Diesel (C10-C28)	5070	50.0	mg/kg	1	B7G2705	07/27/2017	07/28/2017
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Surrogate: o-Terphenyl	107 %	59-131			"	"	"
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GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B7G2704	07/27/2017	07/28/2017	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	105 %	70-130			"	"	"
Surrogate: Toluene-d8	101 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	105 %	70-130			"	"	"

Origins Laboratory, Inc.



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2180 South Ivanhoe Street - Suite 5

Denver CO 80222

Rachel Peterson

Project Number: 166137

Project: Kodak North

137-11

7/26/2017 12:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y707317-04 (Soil)

Diesel Range Organics (DRO/TEPH) by EPA 8015C

Diesel (C10-C28)	5960	50.0	mg/kg	1	B7G2705	07/27/2017	07/28/2017
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Surrogate: o-Terphenyl	117 %	59-131			"	"	"
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GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B7G2704	07/27/2017	07/28/2017	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	105 %	70-130			"	"	"
Surrogate: Toluene-d8	102 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	100 %	70-130			"	"	"

Origins Laboratory, Inc.



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2180 South Ivanhoe Street - Suite 5

Denver CO 80222

Rachel Peterson

Project Number: 166137

Project: Kodak North

137-12

7/26/2017 12:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y707317-05 (Soil)

Diesel Range Organics (DRO/TEPH) by EPA 8015C

Diesel (C10-C28)	3150	50.0	mg/kg	1	B7G2705	07/27/2017	07/28/2017
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Surrogate: o-Terphenyl	98.7 %	59-131			"	"	"
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GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B7G2704	07/27/2017	07/28/2017	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	109 %	70-130			"	"	"
Surrogate: Toluene-d8	103 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	101 %	70-130			"	"	"

Origins Laboratory, Inc.



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A.G. Wassenaar

2180 South Ivanhoe Street - Suite 5

Denver CO 80222

Rachel Peterson

Project Number: 166137

Project: Kodak North

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 B7G2704 - EPA 5030 (soil)										
Blank (B7G2704-BLK1)					Prepared: 07/27/2017 Analyzed: 07/27/2017					
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		105	70-130			
Surrogate: Toluene-d8	67		"	62.5		107	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.2	70-130			

Origins Laboratory, Inc.



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A.G. Wassenaar

2180 South Ivanhoe Street - Suite 5

Denver CO 80222

Rachel Peterson

Project Number: 166137

Project: Kodak North

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 B7G2704 - EPA 5030 (soil)										
Blank (B7G2704-BLK2)					Prepared: 07/27/2017 Analyzed: 07/27/2017					
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	68		ug/kg	62.5		108	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		98.8	70-130			

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2180 South Ivanhoe Street - Suite 5

Denver CO 80222

Rachel Peterson

Project Number: 166137

Project: Kodak North

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 B7G2704 - EPA 5030 (soil)

LCS (B7G2704-BS1)

Prepared: 07/27/2017 Analyzed: 07/27/2017

Benzene	0.118	0.002	mg/kg	0.100		118	77.1-124			
Toluene	0.108	0.002	"	0.100		108	74.5-128			
Ethylbenzene	0.107	0.002	"	0.100		107	66.4-127			
m,p-Xylene	0.214	0.004	"	0.200		107	76.6-124			
o-Xylene	0.107	0.002	"	0.100		107	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	61		ug/kg	62.5		97.4	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.5	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		96.3	70-130			

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

A.G. Wassenaar

2180 South Ivanhoe Street - Suite 5

Denver CO 80222

Rachel Peterson

Project Number: 166137

Project: Kodak North

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 B7G2704 - EPA 5030 (soil)

LCS (B7G2704-BS2)

Prepared: 07/27/2017 Analyzed: 07/27/2017

Benzene	0.107	0.002	mg/kg	0.100		107	77.1-124			
Toluene	0.107	0.002	"	0.100		107	74.5-128			
Ethylbenzene	0.098	0.002	"	0.100		98.4	66.4-127			
m,p-Xylene	0.200	0.004	"	0.200		99.9	76.6-124			
o-Xylene	0.100	0.002	"	0.100		99.9	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	65		ug/kg	62.5		105	70-130			
Surrogate: Toluene-d8	64		"	62.5		103	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.4	70-130			

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

A.G. Wassenaar

2180 South Ivanhoe Street - Suite 5

Denver CO 80222

Rachel Peterson

Project Number: 166137

Project: Kodak North

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 B7G2704 - EPA 5030 (soil)

Matrix Spike (B7G2704-MS1)		Source: Y707314-01			Prepared: 07/27/2017 Analyzed: 07/27/2017					
Benzene	0.116	0.002	mg/kg	0.100	ND	116	71.8-126			
Toluene	0.108	0.002	"	0.100	ND	108	65.1-130			
Ethylbenzene	0.109	0.002	"	0.100	ND	109	62.2-130			
m,p-Xylene	0.218	0.004	"	0.200	ND	109	46.5-137			
o-Xylene	0.110	0.002	"	0.100	ND	110	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	67		ug/kg	62.5		108	70-130			
Surrogate: Toluene-d8	60		"	62.5		96.0	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		98.2	70-130			

Origins Laboratory, Inc.



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2180 South Ivanhoe Street - Suite 5

Denver CO 80222

Rachel Peterson

Project Number: 166137

Project: Kodak North

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 B7G2704 - EPA 5030 (soil)

Matrix Spike (B7G2704-MS2)		Source: Y707314-02			Prepared: 07/27/2017 Analyzed: 07/27/2017					
Benzene	0.103	0.002	mg/kg	0.100	ND	103	71.8-126			
Toluene	0.098	0.002	"	0.100	ND	98.0	65.1-130			
Ethylbenzene	0.088	0.002	"	0.100	ND	87.7	62.2-130			
m,p-Xylene	0.180	0.004	"	0.200	ND	89.8	46.5-137			
o-Xylene	0.091	0.002	"	0.100	ND	91.2	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	67		ug/kg	62.5		107	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.3	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	70-130			

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Rachel Peterson

Project Number: 166137

Project: Kodak North

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 B7G2704 - EPA 5030 (soil)

Matrix Spike Dup (B7G2704-MSD1)		Source: Y707314-01			Prepared: 07/27/2017 Analyzed: 07/27/2017					
Benzene	0.106	0.002	mg/kg	0.100	ND	106	71.8-126	9.31	11.3	
Toluene	0.101	0.002	"	0.100	ND	101	65.1-130	6.72	15.4	
Ethylbenzene	0.097	0.002	"	0.100	ND	97.2	62.2-130	11.0	19.6	
m,p-Xylene	0.195	0.004	"	0.200	ND	97.7	46.5-137	10.7	19.2	
o-Xylene	0.097	0.002	"	0.100	ND	97.4	54.2-134	12.4	17.9	
Surrogate: 1,2-Dichloroethane-d4	67		ug/kg	62.5		107	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.5	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		100	70-130			

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2180 South Ivanhoe Street - Suite 5

Denver CO 80222

Rachel Peterson

Project Number: 166137

Project: Kodak North

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 B7G2704 - EPA 5030 (soil)

Matrix Spike Dup (B7G2704-MSD2)		Source: Y707314-02			Prepared: 07/27/2017 Analyzed: 07/27/2017					
Benzene	0.115	0.002	mg/kg	0.100	ND	115	71.8-126	10.2	11.3	
Toluene	0.098	0.002	"	0.100	ND	97.5	65.1-130	0.430	15.4	
Ethylbenzene	0.091	0.002	"	0.100	ND	91.0	62.2-130	3.74	19.6	
m,p-Xylene	0.180	0.004	"	0.200	ND	89.8	46.5-137	0.0334	19.2	
o-Xylene	0.091	0.002	"	0.100	ND	91.2	54.2-134	0.0219	17.9	
Surrogate: 1,2-Dichloroethane-d4	71		ug/kg	62.5		113	70-130			
Surrogate: Toluene-d8	60		"	62.5		95.7	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.8	70-130			

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2180 South Ivanhoe Street - Suite 5
Denver CO 80222

Rachel Peterson
Project Number: 166137
Project: Kodak North

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 B7G2705 - EPA 3580

Blank (B7G2705-BLK1)				Prepared: 07/27/2017 Analyzed: 07/27/2017						
Diesel (C10-C28)	ND	50.0	mg/kg							U
Surrogate: o-Terphenyl	45		"	50.0		89.6	59-131			
Blank (B7G2705-BLK2)				Prepared: 07/27/2017 Analyzed: 07/28/2017						
Diesel (C10-C28)	ND	50.0	mg/kg							U
Surrogate: o-Terphenyl	40		"	50.0		80.6	59-131			
LCS (B7G2705-BS1)				Prepared: 07/27/2017 Analyzed: 07/27/2017						
Diesel (C10-C28)	859	50.0	mg/kg	1000		85.9	64-121			
Surrogate: o-Terphenyl	42		"	50.0		84.5	59-131			
LCS (B7G2705-BS2)				Prepared: 07/27/2017 Analyzed: 07/28/2017						
Diesel (C10-C28)	860	50.0	mg/kg	1000		86.0	64-121			
Surrogate: o-Terphenyl	41		"	50.0		82.8	59-131			
Matrix Spike (B7G2705-MS1)				Source: Y707314-01		Prepared: 07/27/2017 Analyzed: 07/27/2017				
Diesel (C10-C28)	1000	50.0	mg/kg	1000	ND	100	53-125			
Surrogate: o-Terphenyl	43		"	50.0		85.1	59-131			
Matrix Spike (B7G2705-MS2)				Source: Y707314-02		Prepared: 07/27/2017 Analyzed: 07/28/2017				
Diesel (C10-C28)	1090	50.0	mg/kg	1000	100	98.6	53-125			
Surrogate: o-Terphenyl	49		"	50.0		98.1	59-131			

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Denver CO 80222

Rachel Peterson

Project Number: 166137

Project: Kodak North

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 B7G2705 - EPA 3580

Matrix Spike Dup (B7G2705-MSD1)		Source: Y707314-01			Prepared: 07/27/2017 Analyzed: 07/27/2017					
Diesel (C10-C28)	938	50.0	mg/kg	1000	ND	93.8	53-125	6.41	20	
Surrogate: o-Terphenyl	43		"	50.0		86.3	59-131			
Matrix Spike Dup (B7G2705-MSD2)		Source: Y707314-02			Prepared: 07/27/2017 Analyzed: 07/28/2017					
Diesel (C10-C28)	950	50.0	mg/kg	1000	100	85.0	53-125	13.4	20	
Surrogate: o-Terphenyl	39		"	50.0		78.1	59-131			

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A.G. Wassenaar

2180 South Ivanhoe Street - Suite 5

Denver CO 80222

Rachel Peterson

Project Number: 166137

Project: Kodak North

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



August 07, 2017

A.G. Wassenaar

Rachel Peterson

2180 South Ivanhoe Street - Suite 5

Denver

CO 80222

Project Name - Kodak North

Project Number - 166137

Attached are your analytical results for Kodak North received by Origins Laboratory, Inc. August 07, 2017. This project is associated with Origins project number Y708069-01.

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



1725 Elk Place, Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645

A.G. Wassenaar

2180 South Ivanhoe Street - Suite 5

Denver CO 80222

Rachel Peterson

Project Number: 166137

Project: Kodak North

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
137-13	Y708069-01	Soil	August 7, 2017 8:25	08/07/2017 10:22
137-14	Y708069-02	Soil	August 7, 2017 8:25	08/07/2017 10:22
137-15	Y708069-03	Soil	August 7, 2017 8:25	08/07/2017 10:22
137-16	Y708069-04	Soil	August 7, 2017 8:25	08/07/2017 10:22

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

A.G. Wassenaar

2180 South Ivanhoe Street - Suite 5

Denver CO 80222

Rachel Peterson

Project Number: 166137

Project: Kodak North

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 7708069

Client: A.G. Wassenaar

Client Project ID: Kodak North

Checklist Completed by: Dan

Shipped Via: M/D
(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 6-7-17 1031

Airbill #: NR

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

Cooler Number/Temperature: 1 / 33 °C 1 / _____ °C 1 / _____ °C 1 / _____ °C

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 ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		No, sampled same Day
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"/>			
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 NaAsO 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 6-7-17 1031

Origins Laboratory, Inc.

Jefe Pellegrini

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A.G. Wassenaar

2180 South Ivanhoe Street - Suite 5

Denver CO 80222

Rachel Peterson

Project Number: 166137

Project: Kodak North

137-13

8/7/2017 8:25:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y708069-01 (Soil)

Diesel Range Organics (DRO/TEPH) by EPA 8015C

Diesel (C10-C28)	ND	50.0	mg/kg	1	B7H0702	08/07/2017	08/07/2017	U
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Surrogate: o-Terphenyl	81.7 %	59-131			"	"	"	
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GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7H0701	08/07/2017	08/07/2017	U
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Benzene	ND	0.050	"	"	"	"	"	U
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Toluene	ND	0.050	"	"	"	"	"	U
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Ethylbenzene	ND	0.050	"	"	"	"	"	U
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Xylenes, total	ND	0.050	"	"	"	"	"	U
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Surrogate: 1,2-Dichloroethane-d4	99.8 %	70-130			"	"	"	
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Surrogate: Toluene-d8	101 %	70-130			"	"	"	
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Surrogate: 4-Bromofluorobenzene	92.9 %	70-130			"	"	"	
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Origins Laboratory, Inc.



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A.G. Wassenaar

2180 South Ivanhoe Street - Suite 5

Denver CO 80222

Rachel Peterson

Project Number: 166137

Project: Kodak North

137-14

8/7/2017 8:25:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y708069-02 (Soil)

Diesel Range Organics (DRO/TEPH) by EPA 8015C

Diesel (C10-C28)	ND	50.0	mg/kg	1	B7H0702	08/07/2017	08/07/2017	U
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Surrogate: o-Terphenyl	62.2 %	59-131			"	"	"	
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GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7H0701	08/07/2017	08/07/2017	U
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Benzene	ND	0.050	"	"	"	"	"	U
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Toluene	ND	0.050	"	"	"	"	"	U
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Ethylbenzene	ND	0.050	"	"	"	"	"	U
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Xylenes, total	ND	0.050	"	"	"	"	"	U
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Surrogate: 1,2-Dichloroethane-d4	100 %	70-130			"	"	"	
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Surrogate: Toluene-d8	100 %	70-130			"	"	"	
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Surrogate: 4-Bromofluorobenzene	93.6 %	70-130			"	"	"	
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2180 South Ivanhoe Street - Suite 5

Denver CO 80222

Rachel Peterson

Project Number: 166137

Project: Kodak North

137-15

8/7/2017 8:25:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y708069-03 (Soil)

Diesel Range Organics (DRO/TEPH) by EPA 8015C

Diesel (C10-C28)	ND	50.0	mg/kg	1	B7H0702	08/07/2017	08/07/2017	U
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Surrogate: o-Terphenyl	61.2 %	59-131			"	"	"	
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GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7H0701	08/07/2017	08/07/2017	U
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Benzene	ND	0.050	"	"	"	"	"	U
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Toluene	ND	0.050	"	"	"	"	"	U
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Ethylbenzene	ND	0.050	"	"	"	"	"	U
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Xylenes, total	ND	0.050	"	"	"	"	"	U
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Surrogate: 1,2-Dichloroethane-d4	99.8 %	70-130			"	"	"	
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Surrogate: Toluene-d8	101 %	70-130			"	"	"	
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Surrogate: 4-Bromofluorobenzene	94.8 %	70-130			"	"	"	
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A.G. Wassenaar

2180 South Ivanhoe Street - Suite 5

Denver CO 80222

Rachel Peterson

Project Number: 166137

Project: Kodak North

137-16

8/7/2017 8:25:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y708069-04 (Soil)

Diesel Range Organics (DRO/TEPH) by EPA 8015C

Diesel (C10-C28)	ND	50.0	mg/kg	1	B7H0702	08/07/2017	08/07/2017	U
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Surrogate: o-Terphenyl	64.0 %	59-131			"	"	"	
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GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7H0701	08/07/2017	08/07/2017	U
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Benzene	ND	0.050	"	"	"	"	"	U
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Toluene	ND	0.050	"	"	"	"	"	U
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Ethylbenzene	ND	0.050	"	"	"	"	"	U
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Xylenes, total	ND	0.050	"	"	"	"	"	U
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Surrogate: 1,2-Dichloroethane-d4	101 %	70-130			"	"	"	
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Surrogate: Toluene-d8	99.7 %	70-130			"	"	"	
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Surrogate: 4-Bromofluorobenzene	94.5 %	70-130			"	"	"	
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A.G. Wassenaar

2180 South Ivanhoe Street - Suite 5

Denver CO 80222

Rachel Peterson

Project Number: 166137

Project: Kodak North

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 B7H0701 - EPA 5030 (soil)										
Blank (B7H0701-BLK1)					Prepared: 08/07/2017 Analyzed: 08/07/2017					
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	64		ug/kg	62.5		102	70-130			
Surrogate: Toluene-d8	63		"	62.5		100	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		96.6	70-130			

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Rachel Peterson

Project Number: 166137

Project: Kodak North

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 B7H0701 - EPA 5030 (soil)

LCS (B7H0701-BS1)

Prepared: 08/07/2017 Analyzed: 08/07/2017

Benzene	0.084	0.002	mg/kg	0.100		84.5	77.1-124			
Toluene	0.084	0.002	"	0.100		83.5	74.5-128			
Ethylbenzene	0.085	0.002	"	0.100		85.2	66.4-127			
m,p-Xylene	0.172	0.004	"	0.200		86.0	76.6-124			
o-Xylene	0.084	0.002	"	0.100		84.5	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	60		ug/kg	62.5		96.8	70-130			
Surrogate: Toluene-d8	62		"	62.5		100	70-130			
Surrogate: 4-Bromofluorobenzene	59		"	62.5		94.3	70-130			

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Project: Kodak North

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 B7H0701 - EPA 5030 (soil)

Matrix Spike (B7H0701-MS1)		Source: Y708069-01			Prepared: 08/07/2017 Analyzed: 08/07/2017					
Benzene	2.24	0.050	mg/kg	2.50	ND	89.7	71.8-126			
Toluene	2.18	0.050	"	2.50	ND	87.3	65.1-130			
Ethylbenzene	2.24	0.050	"	2.50	ND	89.6	62.2-130			
m,p-Xylene	4.50	0.100	"	5.00	ND	90.0	46.5-137			
o-Xylene	2.21	0.050	"	2.50	ND	88.3	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	61		ug/kg	62.5		97.7	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.1	70-130			
Surrogate: 4-Bromofluorobenzene	58		"	62.5		93.6	70-130			

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Project Number: 166137

Project: Kodak North

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 B7H0701 - EPA 5030 (soil)

Matrix Spike Dup (B7H0701-MSD1)		Source: Y708069-01			Prepared: 08/07/2017 Analyzed: 08/07/2017					
Benzene	2.33	0.050	mg/kg	2.50	ND	93.1	71.8-126	3.79	11.3	
Toluene	2.20	0.050	"	2.50	ND	87.8	65.1-130	0.525	15.4	
Ethylbenzene	2.26	0.050	"	2.50	ND	90.4	62.2-130	0.867	19.6	
m,p-Xylene	4.55	0.100	"	5.00	ND	91.0	46.5-137	1.06	19.2	
o-Xylene	2.26	0.050	"	2.50	ND	90.5	54.2-134	2.55	17.9	
Surrogate: 1,2-Dichloroethane-d4	60		ug/kg	62.5		96.6	70-130			
Surrogate: Toluene-d8	62		"	62.5		98.5	70-130			
Surrogate: 4-Bromofluorobenzene	58		"	62.5		92.8	70-130			

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Project Number: 166137
Project: Kodak North

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 B7H0702 - EPA 3550B

Blank (B7H0702-BLK1)

Prepared: 08/07/2017 Analyzed: 08/07/2017

Diesel (C10-C28)	ND	50.0	mg/kg							U
Surrogate: o-Terphenyl	39		"	50.0		77.2	59-131			

LCS (B7H0702-BS1)

Prepared: 08/07/2017 Analyzed: 08/07/2017

Diesel (C10-C28)	996	50.0	mg/kg	1000		99.6	64-121			
Surrogate: o-Terphenyl	48		"	50.0		95.5	59-131			

Matrix Spike (B7H0702-MS1)

Source: Y708069-01

Prepared: 08/07/2017 Analyzed: 08/07/2017

Diesel (C10-C28)	801	50.0	mg/kg	1000	15.3	78.6	53-125			
Surrogate: o-Terphenyl	38		"	50.0		76.3	59-131			

Matrix Spike Dup (B7H0702-MSD1)

Source: Y708069-01

Prepared: 08/07/2017 Analyzed: 08/07/2017

Diesel (C10-C28)	1010	50.0	mg/kg	1000	15.3	99.9	53-125	23.5	20	QR-02
Surrogate: o-Terphenyl	49		"	50.0		97.8	59-131			

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Project: Kodak North

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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