

TABLE 1
SOIL SAMPLE ANALYTICAL AND FIELD RESULTS
WILLIAMS 18-29, 36-20 WELLHEADS
WELD COUNTY, COLORADO
KERR-MCGEE OIL & GAS ONSHORE, LP

Analyte	Groundwater Protection Values (GPV)	B01@7'	B02@7'	BG01@7'	BG02@7'	BG03@7'
		6/30/2021	6/30/2021	6/30/2021	6/30/2021	6/30/2021
Photoionization Detector Reading						
PID (ppm)	NA	0.5	0.1	0.0	0.0	0.0
Total Petroleum Hydrocarbons by USEPA Method 8015D						
TPH-GRO* (mg/kg)	500	<0.200	<0.200	NA	NA	NA
TPH-DRO* (mg/kg)	500	<25.0	<25.0	NA	NA	NA
TPH-RRO* (mg/kg)	500	<100	<100	NA	NA	NA
Soil Suitability for Reclamation						
EC (mmhos/cm)	4	9.04	0.572	1.39	2.21	0.458
Sodium Adsorption Ratio (SAR)	6	2.76	0.387	2.99	3.30	0.382
pH, Lab (pH units)	6-8.3	12.5	8.51	7.88	7.66	7.23
Boron (mg/L)	2	0.603	0.198	1.11	0.602	<0.202
Soil Suitability for Reclamation (GPV for Soil)						
Benzene (mg/kg)	0.0026	<0.00200	<0.00200	NA	NA	NA
Toluene (mg/kg)	0.69	<0.00200	<0.00200	NA	NA	NA
Ethylbenzene (mg/kg)	0.78	<0.00200	<0.00200	NA	NA	NA
Xylenes, Total (mg/kg)	9.9	<0.00200	<0.00200	NA	NA	NA
1,2,4-Trimethylbenzene (mg/kg)	0.0081	<0.00200	<0.00200	NA	NA	NA
1,3,5-Trimethylbenzene (mg/kg)	0.0087	<0.00200	<0.00200	NA	NA	NA
Acenaphthene (mg/Kg)	0.55	<0.00067	<0.00067	NA	NA	NA
Anthracene (mg/Kg)	5.8	<0.00067	<0.00067	NA	NA	NA
Benzo (a) anthracene (mg/Kg)	0.011	<0.00067	0.000447	NA	NA	NA
Benzo (b) fluoranthene (mg/Kg)	0.3	0.000301	0.00101	NA	NA	NA
Benzo (k) fluoranthene (mg/Kg)	2.9	<0.00067	<0.00067	NA	NA	NA
Benzo (a) pyrene (mg/Kg)	0.24	0.000261	0.000916	NA	NA	NA
Chrysene (mg/Kg)	9	<0.00067	0.00159	NA	NA	NA
Dibenz (a,h) anthracene (mg/Kg)	0.096	<0.00067	<0.00067	NA	NA	NA
Fluoranthene (mg/Kg)	8.9	<0.00067	0.000809	NA	NA	NA
Fluorene (mg/Kg)	0.54	<0.00067	<0.00067	NA	NA	NA
Indeno (1,2,3-cd) pyrene (mg/Kg)	0.98	<0.00067	0.000606	NA	NA	NA
1-Methylnaphthalene (mg/Kg)	0.006	<0.00067	0.000705	NA	NA	NA
2-Methylnaphthalene (mg/Kg)	0.019	<0.00067	0.000865	NA	NA	NA
Naphthalene (mg/Kg)	0.0038	<0.00067	<0.00067	NA	NA	NA
Pyrene (mg/Kg)	1.3	<0.00067	0.00152	NA	NA	NA
Metals in Soils (GPV for Soil)						
Arsenic (mg/Kg)	0.29	1.6	2.33	2.47	1.36	0.472
Barium (mg/Kg)	82	73.8	54.4	135	68.7	11.3
Cadmium (mg/Kg)	0.38	0.136	0.147	0.225	0.16	0.192
Chromium, Hexavalent (mg/Kg)	0.00067	<3.35	<1	<1	<3.35	<1
Copper (mg/Kg)	46	8.37	8.81	12.6	9.51	3.37
Lead (mg/Kg)	14	8.4	11.4	11.2	13.1	16.7
Nickel (mg/Kg)	26	10.5	8.33	13.9	11.1	3.23
Selenium (mg/Kg)	0.26	0.248	0.197	0.161	0.275	0.148
Silver (mg/Kg)	0.8	0.0562	0.124	0.0546	0.108	0.146
Zinc (mg/Kg)	370	36.8	34.4	50.9	40.2	20.2

TABLE 1 (Continued)
SOIL SAMPLE ANALYTICAL AND FIELD RESULTS
WILLIAMS 18-29, 36-20 WELLHEADS
WELD COUNTY, COLORADO
KERR-MCGEE OIL & GAS ONSHORE, LP

Analyte	Groundwater Protection Values (GPV)	B02@11'	E01@7'	N01@7'	Native-BG04@11'	Native-BG05@11'
		7/29/2021	7/29/2021	7/29/2021	7/29/2021	7/29/2021
Photoionization Detector Reading						
PID (ppm)	NA	11.1	13.3	13.2	NA	NA
Total Petroleum Hydrocarbons by USEPA Method 8015D						
TPH-GRO* (mg/kg)	500	NA	<0.200	<0.200	NA	NA
TPH-DRO* (mg/kg)	500	NA	<25.0	<25.0	NA	NA
TPH-RRO* (mg/kg)	500	NA	<100	<100	NA	NA
Soil Suitability for Reclamation						
EC (mmhos/cm)	4	1.67	1.23	0.952	1.06	0.982
Sodium Adsorption Ratio (SAR)	6	NA	1.04	4.66	1.92	2.54
pH, Lab (pH units)	6-8.3	7.47	7.30	8.18	7.69	7.88
Boron (mg/L)	2	NA	<0.200	0.916	0.465	0.401
Soil Suitability for Reclamation (GPV for Soil)						
Benzene (mg/kg)	0.0026	NA	<0.00200	<0.00200	NA	NA
Toluene (mg/kg)	0.69	NA	<0.00200	<0.00200	NA	NA
Ethylbenzene (mg/kg)	0.78	NA	<0.00200	<0.00200	NA	NA
Xylenes, Total (mg/kg)	9.9	NA	<0.00200	<0.00200	NA	NA
1,2,4-Trimethylbenzene (mg/kg)	0.0081	NA	<0.00200	<0.00200	NA	NA
1,3,5-Trimethylbenzene (mg/kg)	0.0087	NA	<0.00200	<0.00200	NA	NA
Acenaphthene (mg/Kg)	0.55	NA	<0.00335	<0.00335	NA	NA
Anthracene (mg/Kg)	5.8	NA	<0.00335	<0.00335	NA	NA
Benzo (a) anthracene (mg/Kg)	0.011	NA	<0.00335	<0.00335	NA	NA
Benzo (b) fluoranthene (mg/Kg)	0.3	NA	<0.00335	<0.00335	NA	NA
Benzo (k) fluoranthene (mg/Kg)	2.9	NA	<0.00335	<0.00335	NA	NA
Benzo (a) pyrene (mg/Kg)	0.24	NA	<0.00335	<0.00335	NA	NA
Chrysene (mg/Kg)	9	NA	<0.00335	<0.00335	NA	NA
Dibenz (a,h) anthracene (mg/Kg)	0.096	NA	<0.00335	<0.00335	NA	NA
Fluoranthene (mg/Kg)	8.9	NA	<0.00335	<0.00335	NA	NA
Fluorene (mg/Kg)	0.54	NA	<0.00335	0.00261	NA	NA
Indeno (1,2,3-cd) pyrene (mg/Kg)	0.98	NA	<0.00335	<0.00335	NA	NA
1-Methylnaphthalene (mg/Kg)	0.006	NA	<0.00335	<0.00335	NA	NA
2-Methylnaphthalene (mg/Kg)	0.019	NA	<0.00335	<0.00335	NA	NA
Naphthalene (mg/Kg)	0.0038	NA	<0.00335	<0.00335	NA	NA
Pyrene (mg/Kg)	1.3	NA	<0.00335	<0.00335	NA	NA
Metals in Soils (GPV for Soil)						
Arsenic (mg/Kg)	0.29	NA	1.38	1.99	1.84	1.55
Barium (mg/Kg)	82	NA	35.5	97.9	80	88.8
Cadmium (mg/Kg)	0.38	NA	0.0562	0.126	0.0978	0.0961
Chromium, Hexavalent (mg/Kg)	0.00067	NA	<0.5	<0.5	<1	<1
Copper (mg/Kg)	46	NA	4.61	15.4	8.32	9.62
Lead (mg/Kg)	14	NA	6.78	9.17	8.27	7.64
Nickel (mg/Kg)	26	NA	5.92	11.2	11.6	13.7
Selenium (mg/Kg)	0.26	NA	0.299	0.719	0.537	0.504
Silver (mg/Kg)	0.8	NA	0.0609	0.0553	0.0389	0.0431
Zinc (mg/Kg)	370	NA	19.7	39	33.8	38.5

TABLE 1 (Continued)
SOIL SAMPLE ANALYTICAL AND FIELD RESULTS
WILLIAMS 18-29, 36-20 WELLHEADS
WELD COUNTY, COLORADO
KERR-MCGEE OIL & GAS ONSHORE, LP

Analyte	Groundwater Protection Values (GPV)	Native-BG06@11'	S01@7'	W01@7'	N02@7'	S02@7'
		7/29/2021	7/29/2021	7/29/2021	8/16/2021	8/16/2021
Photoionization Detector Reading						
PID (ppm)	NA	NA	11.1	11.4	0.0	1.8
Total Petroleum Hydrocarbons by USEPA Method 8015D						
TPH-GRO* (mg/kg)	500	NA	<0.200	<0.200	NA	NA
TPH-DRO* (mg/kg)	500	NA	<25.0	<25.0	NA	NA
TPH-RRO* (mg/kg)	500	NA	<100	<100	NA	NA
Soil Suitability for Reclamation						
EC (mmhos/cm)	4	0.933	0.265	1.09	NA	NA
Sodium Adsorption Ratio (SAR)	6	1.88	0.766	0.736	NA	NA
pH, Lab (pH units)	6-8.3	8.01	7.29	7.40	NA	NA
Boron (mg/L)	2	<0.201	0.616	0.300	NA	NA
Soil Suitability for Reclamation (GPV for Soil)						
Benzene (mg/kg)	0.0026	NA	<0.00200	<0.00200	NA	NA
Toluene (mg/kg)	0.69	NA	<0.00200	<0.00200	NA	NA
Ethylbenzene (mg/kg)	0.78	NA	<0.00200	<0.00200	NA	NA
Xylenes, Total (mg/kg)	9.9	NA	<0.00200	<0.00200	NA	NA
1,2,4-Trimethylbenzene (mg/kg)	0.0081	NA	<0.00200	<0.00200	NA	NA
1,3,5-Trimethylbenzene (mg/kg)	0.0087	NA	<0.00200	<0.00200	NA	NA
Acenaphthene (mg/Kg)	0.55	NA	<0.00067	<0.00067	NA	NA
Anthracene (mg/Kg)	5.8	NA	<0.00067	<0.00067	NA	NA
Benzo (a) anthracene (mg/Kg)	0.011	NA	<0.00067	<0.00067	NA	NA
Benzo (b) fluoranthene (mg/Kg)	0.3	NA	<0.00067	0.000309	NA	NA
Benzo (k) fluoranthene (mg/Kg)	2.9	NA	<0.00067	<0.00067	NA	NA
Benzo (a) pyrene (mg/Kg)	0.24	NA	<0.00067	0.000293	NA	NA
Chrysene (mg/Kg)	9	NA	<0.00067	<0.00067	NA	NA
Dibenz (a,h) anthracene (mg/Kg)	0.096	NA	<0.00067	<0.00067	NA	NA
Fluoranthene (mg/Kg)	8.9	NA	<0.00067	<0.00067	NA	NA
Fluorene (mg/Kg)	0.54	NA	<0.00067	<0.00067	NA	NA
Indeno (1,2,3-cd) pyrene (mg/Kg)	0.98	NA	<0.00067	<0.00067	NA	NA
1-Methylnaphthalene (mg/Kg)	0.006	NA	<0.00067	<0.00067	NA	NA
2-Methylnaphthalene (mg/Kg)	0.019	NA	<0.00067	<0.00067	NA	NA
Naphthalene (mg/Kg)	0.0038	NA	<0.00067	<0.00067	NA	NA
Pyrene (mg/Kg)	1.3	NA	<0.00067	0.000578	NA	NA
Metals in Soils (GPV for Soil)						
Arsenic (mg/Kg)	0.29	1.52	1.56	1.68	NA	NA
Barium (mg/Kg)	82	32.7	43.1	55	NA	NA
Cadmium (mg/Kg)	0.38	0.0669	0.0632	0.108	NA	NA
Chromium, Hexavalent (mg/Kg)	0.00067	<0.5	<0.5	<1	NA	NA
Copper (mg/Kg)	46	16.3	5	6.97	NA	NA
Lead (mg/Kg)	14	6.83	7.55	8.96	NA	NA
Nickel (mg/Kg)	26	12.7	7.65	9	NA	NA
Selenium (mg/Kg)	0.26	0.18	0.579	0.382	0.494	0.476
Silver (mg/Kg)	0.8	0.0128	0.0197	0.0636	NA	NA
Zinc (mg/Kg)	370	22.6	20.2	29.5	NA	NA

TABLE 1 (Continued)
SOIL SAMPLE ANALYTICAL AND FIELD RESULTS
WILLIAMS 18-29, 36-20 WELLHEADS
WELD COUNTY, COLORADO
KERR-MCGEE OIL & GAS ONSHORE, LP

Notes:

GPV - groundwater protection values
mg/kg - milligrams per kilogram
PID - Photoionization Detector
ppm - parts per million
TPH - total petroleum hydrocarbons
GRO - gasoline range organics
DRO - diesel range organics
RRO - residual range organics

EC - electrical conductivity
SAR - sodium adsorption ratio
mmhos/cm - millimhos per centimeter
<0.00200 - less than laboratory reporting limit
NA - Not Applicable / Not Analyzed
Bold indicates exceeds allowable level
*Allowable level for TPH is 500 mg/kg for combined GRO,
DRO, and RRO

TABLE 2
PHOTOIONIZATION DETECTOR FIELD RESULTS
WILLIAMS 18-29, 36-20 WELLHEADS
WELD COUNTY, COLORADO
KERR-MCGEE OIL & GAS ONSHORE, LP

Screening Location	Location	Date	PID Reading (ppm)
B01@7'	Wellhead Excavation	6/30/2021	0.5
North Wall Williams 36-20	Wellhead Excavation	6/30/2021	1.0
South Wall Williams 36-20	Wellhead Excavation	6/30/2021	0.0
East Wall Williams 36-20	Wellhead Excavation	6/30/2021	2.2
West Wall Williams 36-20	Wellhead Excavation	6/30/2021	0.1
B02@7'	Wellhead Excavation	6/30/2021	0.1
North Wall Williams 18-29	Wellhead Excavation	6/30/2021	0.1
South Wall Williams 18-29	Wellhead Excavation	6/30/2021	0.0
East Wall Williams 18-29	Wellhead Excavation	6/30/2021	0.0
West Wall Williams 18-29	Wellhead Excavation	6/30/2021	0.0
N01@7'	Wellhead Excavation	7/29/2021	13.2
E01@7'	Wellhead Background	7/29/2021	13.3
S01@7'	Wellhead Background	7/29/2021	11.1
W01@7'	Wellhead Background	7/29/2021	11.4
B02@11'	Wellhead Background	7/29/2021	11.1
N02@7'	Wellhead Background	8/16/2021	0.0
S02@7'	Wellhead Background	8/16/2021	1.8
FL01	Separator Flowline	6/30/2021	2.4
FL02	Separator Flowline	6/30/2021	0.0
BG01@7'	Background	6/30/2021	0.0
BG02@7'	Background	6/30/2021	0.0
BG03@7'	Background	6/30/2021	0.0
Native-BG04@11'	Background	7/29/2021	NA
Native-BG05@11'	Background	7/29/2021	NA
Native-BG06@11'	Background	7/29/2021	NA

Notes:

PID - Photoionization Detector

ppm - parts per million

NA - Not analyzed with PID; Sampled for inorganic parameters only.

**TABLE 3
GROUNDWATER ANALYTICAL AND FIELD RESULTS
WILLIAMS 18-29, 36-20 WELLHEADS
WELD COUNTY, COLORADO
KERR-MCGEE OIL & GAS ONSHORE, LP**

Well Name	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Naphthalene (µg/L)	1,2,4- trimethylbenzene (µg/L)	1,3,5- trimethylbenzene (µg/L)	Total Dissolved Solids (ug/L)	Chloride Ion (ug/L)	Sulfate Ion (ug/L)	Depth to Water/ (Product Thickness) (ft bgs)
COGCC Allowable Levels		5	560	700	1400	140	67	67	1,550,000	862,500	250,000	
GW01	7/29/2021	<1.00	<1.00	<1.00	<1.00	<4.00	<1.00	<1.00	1,470,000	57,000	698,000	11
GW-BG01	7/29/2021	NA	NA	NA	NA	NA	NA	NA	1,240,000	690,000	146,000	11

Notes: COGCC - Colorado Oil and Gas Conservation Commission µg/L - micrograms per liter
ft bgs - feet below ground surface < - less than laboratory reporting limit
NA - not analyzed/not available Excavation groundwater depth is approximate
NM - not measured
Corrected Relative GW Elev. is used when LNAPL is present.
BOLD = Analytical result is in exceedance of COGCC Table 915-1 groundwater standards.

July 08, 2021

WSP USA

Brian Sulzberger

4600 W. 60th Ave.

Arvada CO 80003

Project Name - KMG - Williams 18-29 & Williams 36-20 **Project Number - 31403177.85**

Attached are your analytical results for KMG - Williams 18-29 & Williams 36-20 received by Origins Laboratory, Inc. June 30, 2021. This project is associated with Origins project number Y106762-01.

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



WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.85
Project: KMG - Williams 18-29 & Williams 36-20

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B01@7'	Y106762-01	Soil	June 30, 2021 15:35	06/30/2021 17:57
B02@7'	Y106762-02	Soil	June 30, 2021 16:30	06/30/2021 17:57
BG01@7'	Y106762-03	Soil	June 30, 2021 15:46	06/30/2021 17:57
BG02@7'	Y106762-04	Soil	June 30, 2021 15:55	06/30/2021 17:57
BG03@7'	Y106762-05	Soil	June 30, 2021 16:00	06/30/2021 17:57

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.

WSP USA
 4600 W. 60th Ave.
 Arvada CO 80003

Brian Sulzberger
 Project Number: 31403177.85
 Project: KMG - Williams 18-29 & Williams 36-20

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y10676Z Client: WSP
 Client Project ID: Williams 18-29+Williams
 Checklist Completed by: JG Shipped Via: HD
 Date/time completed: 6/30/21 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: N/A
 Matrix(s) Received: (Check all that apply) Soil/Solid Water Other: _____
 Cooler Number/Temperature: 1, 4.4 °C _____ °C _____ °C _____ °C (Describe)
 Thermometer ID: 1003

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽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"/>			
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 [Signature] (Project Manager)

Date/Time Reviewed 6/30/21

Origins Laboratory, Inc.

[Signature]

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WSP USA
 4600 W. 60th Ave.
 Arvada CO 80003

Brian Sulzberger
 Project Number: 31403177.85
 Project: KMG - Williams 18-29 & Williams 36-20

B01@7'

6/30/2021 3:35:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y106762-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.603		0.201	mg/L	1	B1F3022	06/30/2021	07/02/2021	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B1F3013	06/30/2021	06/30/2021	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	80.6 %		50-150			"	"	"	
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GBTEX+TMBs

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B1F3012	06/30/2021	06/30/2021	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	104 %		70-130			"	"	"	
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Origins Laboratory, Inc.



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WSP USA
 4600 W. 60th Ave.
 Arvada CO 80003

Brian Sulzberger
 Project Number: 31403177.85
 Project: KMG - Williams 18-29 & Williams 36-20

B01@7'

6/30/2021 3:35:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y106762-01 (Soil)

GBTEX+TMBs

Surrogate: Toluene-d8	89.9 %		70-130			B1F30 12	06/30/2021	06/30/2021	
Surrogate: 4-Bromofluorobenzene	96.0 %		70-130			"	"	"	

Metals by Saturated Paste

Calcium	31.8			meq/L	1	[CALC]	07/01/2021	07/01/2021	
Magnesium	0.00741			"	"	"	"	"	
Sodium	11.0			"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00048	0.00067	mg/Kg	1	L562210	07/06/2021	07/06/2021	
2-Methylnaphthalene	ND	0.000542	0.00067	"	"	"	"	"	
Acenaphthene	ND	0.000431	0.00067	"	"	"	"	"	
Anthracene	ND	0.000426	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000441	0.00067	"	"	"	"	"	
Benzo(a)pyrene	0.000261	0.000133	0.00067	"	"	"	"	"	J
Benzo(b)fluoranthene	0.000301	0.000138	0.00067	"	"	"	"	"	J
Benzo(k)fluoranthene	ND	0.000486	0.00067	"	"	"	"	"	
Chrysene	ND	0.000256	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000279	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000529	0.00067	"	"	"	"	"	

Origins Laboratory, Inc.



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WSP USA
 4600 W. 60th Ave.
 Arvada CO 80003

Brian Sulzberger
 Project Number: 31403177.85
 Project: KMG - Williams 18-29 & Williams 36-20

B01@7'

6/30/2021 3:35:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y106762-01 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000501	0.00067	mg/Kg	1	L562210	07/06/2021	07/06/2021	
Indeno(1,2,3-cd)pyrene	ND	0.000344	0.00067	"	"	"	"	"	
Naphthalene	ND	0.000467	0.00067	"	"	"	"	"	
Pyrene	ND	0.000387	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	69.6 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	70.2 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	70.8 %		29-110			"	"	"	

pH in Soil by EPA 9045D

pH	12.5			pH Units	1	B1G0102	07/01/2021	07/01/2021	
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SAR by 20B Saturated Paste

SAR	2.76			SAR	1	B1G0106	07/01/2021	07/01/2021	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	9.04		0.00500	mmhos/cm	1	B1G0103	07/01/2021	07/01/2021	
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Total Metals by 6020B

Arsenic	1.6	0.0855	0.25	mg/Kg	5	L561955	07/02/2021	07/06/2021	
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Origins Laboratory, Inc.



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WSP USA
 4600 W. 60th Ave.
 Arvada CO 80003

Brian Sulzberger
 Project Number: 31403177.85
 Project: KMG - Williams 18-29 & Williams 36-20

B01@7'

6/30/2021 3:35:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y106762-01 (Soil)

Total Metals by 6020B

Barium	73.8	0.042	0.25	mg/Kg	5	L561955	07/02/2021	07/06/2021	
Cadmium	0.136	0.0259	0.25	"	"	"	"	"	J
Copper	8.37	0.0806	0.25	"	"	"	"	"	
Lead	8.4	0.031	0.25	"	"	"	"	"	
Nickel	10.5	0.0633	0.25	"	"	"	"	"	
Selenium	0.248	0.103	0.25	"	"	"	"	"	J
Silver	0.0562	0.0067	0.25	"	"	"	"	"	J
Zinc	36.8	0.534	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	1.63	3.35	mg/Kg	6.7	L562048	06/30/2021	07/06/2021	
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Origins Laboratory, Inc.



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WSP USA
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 Arvada CO 80003

Brian Sulzberger
 Project Number: 31403177.85
 Project: KMG - Williams 18-29 & Williams 36-20

B02@7'

6/30/2021 4:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y106762-02 (Soil)

Boron (DTPA Sorbitol)

Boron	0.198		0.198	mg/L	1	B1F3022	06/30/2021	07/02/2021	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B1F3013	06/30/2021	06/30/2021	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	78.7 %		50-150			"	"	"	
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GBTEX+TMBs

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B1F3012	06/30/2021	06/30/2021	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	104 %		70-130			"	"	"	
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Origins Laboratory, Inc.



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WSP USA
 4600 W. 60th Ave.
 Arvada CO 80003

Brian Sulzberger
 Project Number: 31403177.85
 Project: KMG - Williams 18-29 & Williams 36-20

B02@7'

6/30/2021 4:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y106762-02 (Soil)

GBTEX+TMBs

Surrogate: Toluene-d8	91.2 %		70-130			B1F30 12	06/30/2021	06/30/2021	
Surrogate: 4-Bromofluorobenzene	97.0 %		70-130			"	"	"	

Metals by Saturated Paste

Calcium	4.11			meq/L	1	[CALC]	07/01/2021	07/01/2021	
Magnesium	0.0280			"	"	"	"	"	
Sodium	0.557			"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	0.000705	0.00048	0.00067	mg/Kg	1	L562210	07/06/2021	07/06/2021	
2-Methylnaphthalene	0.000865	0.000542	0.00067	"	"	"	"	"	
Acenaphthene	ND	0.000431	0.00067	"	"	"	"	"	
Anthracene	ND	0.000426	0.00067	"	"	"	"	"	
Benzo(a)anthracene	0.000447	0.000441	0.00067	"	"	"	"	"	J
Benzo(a)pyrene	0.000916	0.000133	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	0.00101	0.000138	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000486	0.00067	"	"	"	"	"	
Chrysene	0.00159	0.000256	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000279	0.00067	"	"	"	"	"	
Fluoranthene	0.000809	0.000529	0.00067	"	"	"	"	"	
Fluorene	ND	0.000501	0.00067	"	"	"	"	"	

Origins Laboratory, Inc.



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WSP USA
 4600 W. 60th Ave.
 Arvada CO 80003

Brian Sulzberger
 Project Number: 31403177.85
 Project: KMG - Williams 18-29 & Williams 36-20

B02@7'

6/30/2021 4:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y106762-02 (Soil)

PAH by 8270D SIM

Indeno(1,2,3-cd)pyrene	0.000606	0.000344	0.00067	mg/Kg	1	L562210	07/06/2021	07/06/2021	J
Naphthalene	ND	0.000467	0.00067	"	"	"	"	"	
Pyrene	0.00152	0.000387	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	67.6 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	64.2 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	70.9 %		29-110			"	"	"	

pH in Soil by EPA 9045D

pH	8.51			pH Units	1	B1G0102	07/01/2021	07/01/2021	
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SAR by 20B Saturated Paste

SAR	0.387			SAR	1	B1G0106	07/01/2021	07/01/2021	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.572		0.00500	mmhos/cm	1	B1G0103	07/01/2021	07/01/2021	
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Total Metals by 6020B

Arsenic	2.33	0.0855	0.25	mg/Kg	5	L561955	07/02/2021	07/06/2021	
Barium	54.4	0.042	0.25	"	"	"	"	"	

Origins Laboratory, Inc.



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WSP USA
 4600 W. 60th Ave.
 Arvada CO 80003

Brian Sulzberger
 Project Number: 31403177.85
 Project: KMG - Williams 18-29 & Williams 36-20

B02@7'

6/30/2021 4:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y106762-02 (Soil)

Total Metals by 6020B

Cadmium	0.147	0.0259	0.25	mg/Kg	5	L561955	07/02/2021	07/06/2021	J
Copper	8.81	0.0806	0.25	"	"	"	"	"	
Lead	11.4	0.031	0.25	"	"	"	"	"	
Nickel	8.33	0.0633	0.25	"	"	"	"	"	
Selenium	0.197	0.103	0.25	"	"	"	"	"	J
Silver	0.124	0.0067	0.25	"	"	"	"	"	J
Zinc	34.4	0.534	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.488	1	mg/Kg	2	L562048	06/30/2021	07/06/2021	
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Origins Laboratory, Inc.



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WSP USA
 4600 W. 60th Ave.
 Arvada CO 80003

Brian Sulzberger
 Project Number: 31403177.85
 Project: KMG - Williams 18-29 & Williams 36-20

BG01@7'
6/30/2021 3:46:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y106762-03 (Soil)

Boron (DTPA Sorbitol)

Boron	1.11		0.198	mg/L	1	B1F3022	06/30/2021	07/02/2021	
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Metals by Saturated Paste

Calcium	3.07			meq/L	"	[CALC]	07/01/2021	07/01/2021	
Magnesium	6.10			"	"	"	"	"	
Sodium	6.38			"	"	"	"	"	

pH in Soil by EPA 9045D

pH	7.88			pH Units	1	B1G0102	07/01/2021	07/01/2021	
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SAR by 20B Saturated Paste

SAR	2.99			SAR	1	B1G0106	07/01/2021	07/01/2021	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	1.39		0.00500	mmhos/cm	1	B1G0103	07/01/2021	07/01/2021	
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Total Metals by 6020B

Arsenic	2.47	0.0855	0.25	mg/Kg	5	L561955	07/02/2021	07/06/2021	
Barium	135	0.042	0.25	"	"	"	"	"	
Cadmium	0.225	0.0259	0.25	"	"	"	"	"	J
Copper	12.6	0.0806	0.25	"	"	"	"	"	

Origins Laboratory, Inc.



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WSP USA
 4600 W. 60th Ave.
 Arvada CO 80003

Brian Sulzberger
 Project Number: 31403177.85
 Project: KMG - Williams 18-29 & Williams 36-20

BG01@7'
6/30/2021 3:46:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y106762-03 (Soil)

Total Metals by 6020B

Lead	11.2	0.031	0.25	mg/Kg	5	L561955	07/02/2021	07/06/2021	
Nickel	13.9	0.0633	0.25	"	"	"	"	"	
Selenium	0.161	0.103	0.25	"	"	"	"	"	J
Silver	0.0546	0.0067	0.25	"	"	"	"	"	J
Zinc	50.9	0.534	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.488	1	mg/Kg	2	L562048	06/30/2021	07/06/2021	
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Origins Laboratory, Inc.



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WSP USA
 4600 W. 60th Ave.
 Arvada CO 80003

Brian Sulzberger
 Project Number: 31403177.85
 Project: KMG - Williams 18-29 & Williams 36-20

BG02@7'
6/30/2021 3:55:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y106762-04 (Soil)

Boron (DTPA Sorbitol)

Boron	0.602		0.201	mg/L	1	B1F3022	06/30/2021	07/02/2021	
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Metals by Saturated Paste

Calcium	7.75			meq/L	"	[CALC]	07/01/2021	07/01/2021	
Magnesium	7.77			"	"	"	"	"	
Sodium	9.17			"	"	"	"	"	

pH in Soil by EPA 9045D

pH	7.66			pH Units	1	B1G0102	07/01/2021	07/01/2021	
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SAR by 20B Saturated Paste

SAR	3.30			SAR	1	B1G0106	07/01/2021	07/01/2021	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	2.21		0.00500	mmhos/cm	1	B1G0103	07/01/2021	07/01/2021	
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Total Metals by 6020B

Arsenic	1.36	0.0855	0.25	mg/Kg	5	L561955	07/02/2021	07/06/2021	
Barium	68.7	0.042	0.25	"	"	"	"	"	
Cadmium	0.16	0.0259	0.25	"	"	"	"	"	J
Copper	9.51	0.0806	0.25	"	"	"	"	"	

Origins Laboratory, Inc.



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WSP USA
 4600 W. 60th Ave.
 Arvada CO 80003

Brian Sulzberger
 Project Number: 31403177.85
 Project: KMG - Williams 18-29 & Williams 36-20

BG02@7'
6/30/2021 3:55:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y106762-04 (Soil)

Total Metals by 6020B

Lead	13.1	0.031	0.25	mg/Kg	5	L561955	07/02/2021	07/06/2021	
Nickel	11.1	0.0633	0.25	"	"	"	"	"	
Selenium	0.275	0.103	0.25	"	"	"	"	"	
Silver	0.108	0.0067	0.25	"	"	"	"	"	J
Zinc	40.2	0.534	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	1.63	3.35	mg/Kg	6.7	L562048	06/30/2021	07/06/2021	
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Origins Laboratory, Inc.



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WSP USA
 4600 W. 60th Ave.
 Arvada CO 80003

Brian Sulzberger
 Project Number: 31403177.85
 Project: KMG - Williams 18-29 & Williams 36-20

BG03@7'
6/30/2021 4:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y106762-05 (Soil)

Boron (DTPA Sorbitol)

Boron	ND		0.202	mg/L	1	B1F3022	06/30/2021	07/02/2021	
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Metals by Saturated Paste

Calcium	2.52			meq/L	"	[CALC]	07/01/2021	07/01/2021	
Magnesium	1.32			"	"	"	"	"	
Sodium	0.532			"	"	"	"	"	

pH in Soil by EPA 9045D

pH	7.23			pH Units	1	B1G0102	07/01/2021	07/01/2021	
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SAR by 20B Saturated Paste

SAR	0.382			SAR	1	B1G0106	07/01/2021	07/01/2021	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.458		0.00500	mmhos/cm	1	B1G0103	07/01/2021	07/01/2021	
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Total Metals by 6020B

Arsenic	0.472	0.0855	0.25	mg/Kg	5	L561955	07/02/2021	07/06/2021	
Barium	11.3	0.042	0.25	"	"	"	"	"	
Cadmium	0.192	0.0259	0.25	"	"	"	"	"	J
Copper	3.37	0.0806	0.25	"	"	"	"	"	

Origins Laboratory, Inc.



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WSP USA
 4600 W. 60th Ave.
 Arvada CO 80003

Brian Sulzberger
 Project Number: 31403177.85
 Project: KMG - Williams 18-29 & Williams 36-20

BG03@7'
6/30/2021 4:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y106762-05 (Soil)

Total Metals by 6020B

Lead	16.7	0.031	0.25	mg/Kg	5	L561955	07/02/2021	07/06/2021	
Nickel	3.23	0.0633	0.25	"	"	"	"	"	
Selenium	0.148	0.103	0.25	"	"	"	"	"	J
Silver	0.146	0.0067	0.25	"	"	"	"	"	J
Zinc	20.2	0.534	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.488	1	mg/Kg	2	L562048	06/30/2021	07/06/2021	
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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.

WSP USA
 4600 W. 60th Ave.
 Arvada CO 80003

Brian Sulzberger
 Project Number: 31403177.85
 Project: KMG - Williams 18-29 & Williams 36-20

Volatile Organic Compounds by GC/MS SW846 8260D - 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 B1F3012 - EPA 5030 (soil)

Blank (B1F3012-BLK1)

Prepared: 06/30/2021 Analyzed: 06/30/2021

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
Naphthalene	ND	0.00380	"							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		95.4	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		93.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		94.8	70-130			

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WSP USA
 4600 W. 60th Ave.
 Arvada CO 80003

Brian Sulzberger
 Project Number: 31403177.85
 Project: KMG - Williams 18-29 & Williams 36-20

Volatile Organic Compounds by GC/MS SW846 8260D - 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 B1F3012 - EPA 5030 (soil)

LCS (B1F3012-BS1)

Prepared: 06/30/2021 Analyzed: 06/30/2021

1,2,4-Trimethylbenzene	0.0500	0.00200	mg/kg	0.0500		100	70-130			
Naphthalene	0.0488	0.0100	"	0.0500		97.6	70-130			
1,3,5-Trimethylbenzene	0.0483	0.00200	"	0.0500		96.6	70-130			
Benzene	0.0511	0.00200	"	0.0500		102	70-130			
Ethylbenzene	0.0469	0.00200	"	0.0500		93.8	70-130			
m,p-Xylene	0.0969	0.00400	"	0.100		96.9	70-130			
o-Xylene	0.0480	0.00200	"	0.0500		96.0	70-130			
Toluene	0.0480	0.00200	"	0.0500		96.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		93.9	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		94.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		95.8	70-130			

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Brian Sulzberger
 Project Number: 31403177.85
 Project: KMG - Williams 18-29 & Williams 36-20

Volatile Organic Compounds by GC/MS SW846 8260D - 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 B1F3012 - EPA 5030 (soil)

Matrix Spike (B1F3012-MS1)	Source: Y106726-02			Prepared: 06/30/2021 Analyzed: 06/30/2021						
1,2,4-Trimethylbenzene	0.0467	0.00200	mg/kg	0.0500	ND	93.4	70-130			
Naphthalene	0.0466	0.0100	"	0.0500	ND	93.2	70-130			
1,3,5-Trimethylbenzene	0.0452	0.00200	"	0.0500	ND	90.3	70-130			
Benzene	0.0510	0.00200	"	0.0500	ND	102	70-130			
Ethylbenzene	0.0441	0.00200	"	0.0500	ND	88.2	70-130			
m,p-Xylene	0.0910	0.00400	"	0.100	ND	91.0	70-130			
o-Xylene	0.0456	0.00200	"	0.0500	ND	91.2	70-130			
Toluene	0.0453	0.00200	"	0.0500	ND	90.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		96.3	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		92.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		94.9	70-130			

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 Project: KMG - Williams 18-29 & Williams 36-20

Volatile Organic Compounds by GC/MS SW846 8260D - 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 B1F3012 - EPA 5030 (soil)

Matrix Spike Dup (B1F3012-MSD1)	Source: Y106726-02		Prepared: 06/30/2021 Analyzed: 06/30/2021							
1,2,4-Trimethylbenzene	0.0455	0.00200	mg/kg	0.0500	ND	91.0	70-130	2.60	20	
Naphthalene	0.0484	0.0100	"	0.0500	ND	96.9	70-130	3.87	20	
1,3,5-Trimethylbenzene	0.0438	0.00200	"	0.0500	ND	87.6	70-130	3.01	20	
Benzene	0.0496	0.00200	"	0.0500	ND	99.2	70-130	2.86	20	
Ethylbenzene	0.0429	0.00200	"	0.0500	ND	85.8	70-130	2.76	20	
m,p-Xylene	0.0881	0.00400	"	0.100	ND	88.1	70-130	3.24	20	
o-Xylene	0.0441	0.00200	"	0.0500	ND	88.1	70-130	3.39	20	
Toluene	0.0445	0.00200	"	0.0500	ND	89.0	70-130	1.83	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		96.6	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		92.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		94.7	70-130			

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Brian Sulzberger
 Project Number: 31403177.85
 Project: KMG - Williams 18-29 & Williams 36-20

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B1F3013 - EPA 3550B										
Blank (B1F3013-BLK1)										
					Prepared: 06/30/2021 Analyzed: 06/30/2021					
Diesel (C10-C28)	ND	50.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	50		"	50.0		99.6	50-150			

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Brian Sulzberger
 Project Number: 31403177.85
 Project: KMG - Williams 18-29 & Williams 36-20

Extractable Petroleum Hydrocarbons by 8015D - 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 B1F3013 - EPA 3550B

LCS (B1F3013-BS1)

Prepared: 06/30/2021 Analyzed: 06/30/2021

Diesel (C10-C28)	509	50.0	mg/kg	500		102	70-130			
Residual Range Organics (C28-C40)	510	200	"	500		102	70-130			
Surrogate: o-Terphenyl	48		"	50.0		95.8	50-150			

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Brian Sulzberger
 Project Number: 31403177.85
 Project: KMG - Williams 18-29 & Williams 36-20

Extractable Petroleum Hydrocarbons by 8015D - 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 B1F3013 - EPA 3550B

Matrix Spike (B1F3013-MS1)	Source: Y106726-02			Prepared: 06/30/2021 Analyzed: 06/30/2021						
Diesel (C10-C28)	414	50.0	mg/kg	500	ND	82.8	70-130			
Residual Range Organics (C28-C40)	424	200	"	500	47.2	75.4	70-130			
Surrogate: o-Terphenyl	41		"	50.0		81.6	50-150			

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Brian Sulzberger
 Project Number: 31403177.85
 Project: KMG - Williams 18-29 & Williams 36-20

Extractable Petroleum Hydrocarbons by 8015D - 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 B1F3013 - EPA 3550B

Matrix Spike Dup (B1F3013-MSD1)	Source: Y106726-02			Prepared: 06/30/2021 Analyzed: 06/30/2021						
Diesel (C10-C28)	495	50.0	mg/kg	500	ND	99.0	70-130	17.8	35	
Residual Range Organics (C28-C40)	503	200	"	500	47.2	91.1	70-130	17.0	35	
Surrogate: o-Terphenyl	51		"	50.0		102	50-150			

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Brian Sulzberger
 Project Number: 31403177.85
 Project: KMG - Williams 18-29 & Williams 36-20

PAH by 8270D SIM - Quality Control
Waypoint Analytical, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L562210 - 3550B

MS (L 94708-MS-L562210)	Source: Y106762-01			Prepared: 07/06/2021 Analyzed: 07/06/2021						
Pyrene	0.133	0.000387	mg/Kg	0.163	94708	81.5	30-130			
1-Methylnaphthalene	0.117	0.00048	"	0.163	94708	71.7	30-130			
Fluorene	0.126	0.000501	"	0.163	94708	77.3	30-130			
Naphthalene	0.111	0.000467	"	0.163	94708	68	30-130			
2-Methylnaphthalene	0.113	0.000542	"	0.163	94708	69.3	30-130			
Indeno(1,2,3-cd)pyrene	0.101	0.000344	"	0.163	94708	61.9	30-130			
Fluoranthene	0.132	0.000529	"	0.163	94708	80.9	30-130			
Dibenz(a,h)anthracene	0.112	0.000279	"	0.163	94708	68.7	30-130			
Chrysene	0.144	0.000256	"	0.163	94708	88.3	30-130			
Acenaphthene	0.114	0.000431	"	0.163	94708	69.9	30-130			
Benzo(b)fluoranthene	0.114	0.000138	"	0.163	0.000301	69.9	30-130			
Benzo(a)pyrene	0.14	0.000133	"	0.163	0.000261	85.8	30-130			
Benzo(a)anthracene	0.127	0.000441	"	0.163	94708	77.9	30-130			
Anthracene	0.128	0.000426	"	0.163	94708	78.5	30-130			
Benzo(k)fluoranthene	0.121	0.000486	"	0.163	94708	74.2	30-130			
Surrogate: 2-Fluorobiphenyl	71.2		"	0.327	229	71.2	33-115			
Surrogate: Nitrobenzene-d5	68.8		"	0.327	233	68.8	29-110			
Surrogate: 4-Terphenyl-d14	73.3		"	0.327	231	73.3	33-122			

LCS (LCS-L562210)	Prepared: 07/06/2021 Analyzed: 07/06/2021									
Chrysene	0.135	0.000256	mg/Kg	0.167		80.8	30-130			
Dibenz(a,h)anthracene	0.103	0.000279	"	0.167		61.6	30-130			
Fluoranthene	0.123	0.000529	"	0.167		73.6	30-130			
Fluorene	0.121	0.000501	"	0.167		72.4	30-130			
Naphthalene	0.109	0.000467	"	0.167		65.2	30-130			
Benzo(k)fluoranthene	0.106	0.000486	"	0.167		63.4	30-130			
1-Methylnaphthalene	0.112	0.00048	"	0.167		67	30-130			

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Brian Sulzberger
 Project Number: 31403177.85
 Project: KMG - Williams 18-29 & Williams 36-20

PAH by 8270D SIM - Quality Control
Waypoint Analytical, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L562210 - 3550B

LCS (LCS-L562210)

Prepared: 07/06/2021 Analyzed: 07/06/2021

Indeno(1,2,3-cd)pyrene	0.0983	0.000344	mg/Kg	0.167		58.8	30-130			
Benzo(b)fluoranthene	0.102	0.000138	"	0.167		61	30-130			
Benzo(a)pyrene	0.126	0.000133	"	0.167		75.4	30-130			
Benzo(a)anthracene	0.112	0.000441	"	0.167		67	30-130			
Anthracene	0.123	0.000426	"	0.167		73.6	30-130			
Acenaphthene	0.113	0.000431	"	0.167		67.6	30-130			
Pyrene	0.12	0.000387	"	0.167		71.8	30-130			
2-Methylnaphthalene	0.11	0.000542	"	0.167		65.8	30-130			
Surrogate: Nitrobenzene-d5	67.2		"	0.333		67.2	29-110			
Surrogate: 4-Terphenyl-d14	66		"	0.333		66	33-122			
Surrogate: 2-Fluorobiphenyl	68.1		"	0.333		68.1	33-115			

LRB (LRB-L562210)

Prepared: 07/06/2021 Analyzed: 07/06/2021

Benzo(k)fluoranthene	ND	0.00067	mg/Kg				-			
2-Methylnaphthalene	ND	0.00067	"				-			
Naphthalene	0.000479	0.00067	"				-			J
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Chrysene	ND	0.00067	"				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Pyrene	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			

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Brian Sulzberger
 Project Number: 31403177.85
 Project: KMG - Williams 18-29 & Williams 36-20

PAH by 8270D SIM - Quality Control
Waypoint Analytical, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L562210 - 3550B

LRB (LRB-L562210)

Prepared: 07/06/2021 Analyzed: 07/06/2021

Acenaphthene	ND	0.00067	mg/Kg				-			
Surrogate: Nitrobenzene-d5	81.3		"	0.333		81.3	29-110			
Surrogate: 4-Terphenyl-d14	66.6		"	0.333		66.6	33-122			
Surrogate: 2-Fluorobiphenyl	73.5		"	0.333		73.5	33-115			

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Brian Sulzberger
 Project Number: 31403177.85
 Project: KMG - Williams 18-29 & Williams 36-20

Total Metals by 6020B - Quality Control
Waypoint Analytical, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L561955 - 3050B

MSD (L 94731-MSD-L561955)		Source: 94731			Prepared: 07/02/2021 Analyzed: 07/06/2021					
Arsenic	3.49	0.0855	mg/Kg	2.38	2.06	60	75-125	3.1	80	*
Barium	116	0.042	"	4.76	104	252	75-125	2.5	80	I*
Cadmium	0.572	0.0259	"	0.476	0.126	120	75-125	1.5	80	
Copper	11.2	0.0806	"	2.38	8.97	94	75-125	4.3	80	
Lead	10.9	0.031	"	2.38	8.49	101	75-125	0.9	80	
Nickel	13.3	0.0633	"	2.38	11	97	75-125	2.2	80	
Selenium	3.13	0.103	"	4.76	0.168	66	75-125	1.2	80	*
Silver	0.463	0.0067	"	0.476	0.035	97	75-125	2.1	80	
Zinc	58.4	0.534	"	23.8	35.8	95	75-125	0.5	80	

MS (L 94731-MS-L561955)		Source: 94731			Prepared: 07/02/2021 Analyzed: 07/06/2021					
Copper	11.7	0.0806	mg/Kg	2.44	8.97	112	75-125			
Zinc	58.7	0.534	"	24.4	35.8	94	75-125			
Silver	0.473	0.0067	"	0.488	0.035	97	75-125			
Selenium	3.17	0.103	"	4.88	0.168	65	75-125			*
Lead	10.8	0.031	"	2.44	8.49	95	75-125			
Cadmium	0.563	0.0259	"	0.488	0.126	115	75-125			
Barium	119	0.042	"	4.88	104	307	75-125			I*
Arsenic	3.6	0.0855	"	2.44	2.06	63	75-125			*
Nickel	13.6	0.0633	"	2.44	11	106	75-125			

LCS (LCS-L561955)		Prepared: 07/02/2021 Analyzed: 07/06/2021								
Zinc	23.3	0.534	mg/Kg	25		93	80-120			
Selenium	4.71	0.103	"	5		94	80-120			
Nickel	2.29	0.0633	"	2.5		92	80-120			
Lead	2.47	0.031	"	2.5		99	80-120			
Copper	2.42	0.0806	"	2.5		97	80-120			

Origins Laboratory, Inc.



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Brian Sulzberger
 Project Number: 31403177.85
 Project: KMG - Williams 18-29 & Williams 36-20

Total Metals by 6020B - Quality Control
Waypoint Analytical, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L561955 - 3050B

LCS (LCS-L561955)

Prepared: 07/02/2021 Analyzed: 07/06/2021

Cadmium	0.477	0.0259	mg/Kg	0.5		95	80-120			
Barium	4.92	0.042	"	5		98	80-120			
Arsenic	2.29	0.0855	"	2.5		92	80-120			
Silver	0.49	0.0067	"	0.5		98	80-120			

LRB (LRB-L561955)

Prepared: 07/02/2021 Analyzed: 07/06/2021

Silver	ND	0.25	mg/Kg				-			
Zinc	ND	2.5	"				-			
Selenium	ND	0.25	"				-			
Nickel	ND	0.25	"				-			
Lead	ND	0.25	"				-			
Copper	0.134	0.25	"				-			J
Arsenic	ND	0.25	"				-			
Barium	ND	0.25	"				-			
Cadmium	ND	0.25	"				-			

Origins Laboratory, Inc.



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Brian Sulzberger
 Project Number: 31403177.85
 Project: KMG - Williams 18-29 & Williams 36-20

Total Metals by 7196A - Quality Control
Waypoint Analytical, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L562048 -										
DUP (L 94708-DUP)		Source: Y106762-01			Prepared: Analyzed: 07/06/2021					
Chromium, Hexavalent	ND	1.67	mg/Kg		94708		-	0	20	
MS (L 94708-MS)		Source: Y106762-01			Prepared: Analyzed: 07/06/2021					
Chromium, Hexavalent	ND	1.68	mg/Kg	8.22	94708	0	75-125			*
LCS (LCS)		Prepared: Analyzed: 07/06/2021								
Chromium, Hexavalent	6.93	0.244	mg/Kg	8		87	75-125			
LRB (LRB)		Prepared: Analyzed: 07/06/2021								
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

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Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.85
Project: KMG - Williams 18-29 & Williams 36-20

Notes and Definitions

- U Sample is Non-Detect.
- J Estimated Value. Analyte below reported quantitation limit.
- I* [Undefined]
- * QC Failure
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- All soil results are reported on a wet weight basis.

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August 09, 2021

WSP USA

Brian Sulzberger

4600 W. 60th Ave.

Arvada

CO

80003

Project Name - KMG - Williams 36-20

Project Number - 31403177.85

Attached are your analytical results for KMG - Williams 36-20 received by Origins Laboratory, Inc. July 29, 2021. This project is associated with Origins project number Y107610-01.

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

WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.85
Project: KMG - Williams 36-20

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
N01@7	Y107610-01	Soil	July 29, 2021 10:13	07/29/2021 18:04
E01@7	Y107610-02	Soil	July 29, 2021 10:20	07/29/2021 18:04
S01@7	Y107610-03	Soil	July 29, 2021 10:25	07/29/2021 18:04
W01@7	Y107610-04	Soil	July 29, 2021 10:30	07/29/2021 18:04
B02@11	Y107610-05	Soil	July 29, 2021 10:35	07/29/2021 18:04
GW01	Y107610-06	Water	July 29, 2021 10:40	07/29/2021 18:04
GW-BG01	Y107610-07	Water	July 29, 2021 10:45	07/29/2021 18:04
Native-BG04@11	Y107610-08	Soil	July 29, 2021 10:50	07/29/2021 18:04
Native-BG05@11	Y107610-09	Soil	July 29, 2021 10:55	07/29/2021 18:04
Native-BG06@11	Y107610-10	Soil	July 29, 2021 10:56	07/29/2021 18:04
GW-BG02	Y107610-11	Water	July 29, 2021 12:00	07/29/2021 18:04

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.

WSP USA
 4600 W. 60th Ave.
 Arvada CO 80003

Brian Sulzberger
 Project Number: 31403177.85
 Project: KMG - Williams 36-20

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

Sample Receipt Checklist

Origins Work Order: 7107610 Client: WSP USA
 Client Project ID: KMG - Williams 36-20
 Checklist Completed by: Das Lu Shipped Via: HD
 Date/time completed: 7/29/21 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: NA
 Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____
 Cooler Number/Temperature: 12.5 °C °C °C °C (Describe)
 Thermometer ID: 1003

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?		<input checked="" type="checkbox"/>		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 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 7/29/21

Origins Laboratory, Inc.



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WSP USA
 4600 W. 60th Ave.
 Arvada CO 80003

Brian Sulzberger
 Project Number: 31403177.85
 Project: KMG - Williams 36-20

N01@7
 7/29/2021 10:13:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y107610-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.916		0.199	mg/L	1	B1H0203	08/02/2021	08/04/2021	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B1G2904	07/29/2021	07/29/2021	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	88.0 %		50-150			"	"	"	
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GBTEX+TMBs

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B1G2903	"	07/30/2021	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	110 %		70-130			"	"	"	
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Origins Laboratory, Inc.



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WSP USA
 4600 W. 60th Ave.
 Arvada CO 80003

Brian Sulzberger
 Project Number: 31403177.85
 Project: KMG - Williams 36-20

N01@7

7/29/2021 10:13:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y107610-01 (Soil)

GBTEX+TMBs

Surrogate: Toluene-d8	103 %		70-130			B1G29 03	07/29/2021	07/30/2021	
Surrogate: 4-Bromofluorobenzene	100 %		70-130			"	"	"	

Metals by Saturated Paste

Calcium	1.90		0.0499	meq/L	1	[CALC]	08/07/2021	08/07/2021	
Magnesium	4.74		0.0823	"	"	"	"	"	
Sodium	8.48		0.0435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.0024	0.00335	mg/Kg	5	L566834	08/02/2021	08/02/2021	
2-Methylnaphthalene	ND	0.00271	0.00335	"	"	"	"	"	
Acenaphthene	ND	0.00216	0.00335	"	"	"	"	"	
Anthracene	ND	0.00213	0.00335	"	"	"	"	"	
Benzo(a)anthracene	ND	0.00221	0.00335	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000665	0.00335	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.00069	0.00335	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.00243	0.00335	"	"	"	"	"	
Chrysene	ND	0.00128	0.00335	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.0014	0.00335	"	"	"	"	"	
Fluoranthene	ND	0.00265	0.00335	"	"	"	"	"	

Origins Laboratory, Inc.



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WSP USA
 4600 W. 60th Ave.
 Arvada CO 80003

Brian Sulzberger
 Project Number: 31403177.85
 Project: KMG - Williams 36-20

N01@7

7/29/2021 10:13:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
 Y107610-01 (Soil)

PAH by 8270D SIM

Fluorene	0.00261	0.00251	0.00335	mg/Kg	5	L566834	08/02/2021	08/02/2021	J
Indeno(1,2,3-cd)pyrene	ND	0.00172	0.00335	"	"	"	"	"	
Naphthalene	ND	0.00234	0.00335	"	"	"	"	"	
Pyrene	ND	0.00194	0.00335	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	72.3 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	87.7 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	65.4 %		29-110			"	"	"	

pH in Soil by EPA 9045D

pH	8.18			pH Units	1	B1H0416	08/04/2021	08/04/2021	
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SAR by 20B Saturated Paste

SAR	4.66			SAR	1	B1H0616	08/07/2021	08/07/2021	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.952		0.00500	mmhos/cm	1	B1H0421	08/04/2021	08/04/2021	
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Total Metals by 6020B

Arsenic	1.99	0.0855	0.25	mg/Kg	5	L566929	08/02/2021	08/04/2021	
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Origins Laboratory, Inc.



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WSP USA
 4600 W. 60th Ave.
 Arvada CO 80003

Brian Sulzberger
 Project Number: 31403177.85
 Project: KMG - Williams 36-20

N01@7
 7/29/2021 10:13:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
 Y107610-01 (Soil)

Total Metals by 6020B

Barium	97.9	0.042	0.25	mg/Kg	5	L566929	08/02/2021	08/04/2021	
Cadmium	0.126	0.0259	0.25	"	"	"	"	"	J
Copper	15.4	0.0806	0.25	"	"	"	"	"	
Lead	9.17	0.031	0.25	"	"	"	"	"	
Nickel	11.2	0.0633	0.25	"	"	"	"	"	
Selenium	0.719	0.103	0.25	"	"	"	"	"	
Silver	0.0553	0.0067	0.25	"	"	"	"	"	J
Zinc	39	0.534	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L566998	07/29/2021	08/03/2021	
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Origins Laboratory, Inc.



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WSP USA
 4600 W. 60th Ave.
 Arvada CO 80003

Brian Sulzberger
 Project Number: 31403177.85
 Project: KMG - Williams 36-20

E01@7
7/29/2021 10:20:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y107610-02 (Soil)

Boron (DTPA Sorbitol)

Boron	ND		0.200	mg/L	1	B1H0203	08/02/2021	08/04/2021	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B1G2904	07/29/2021	07/29/2021	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	91.2 %		50-150			"	"	"	
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GBTEX+TMBs

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B1G2903	"	07/29/2021	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	114 %		70-130			"	"	"	
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Origins Laboratory, Inc.



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WSP USA
 4600 W. 60th Ave.
 Arvada CO 80003

Brian Sulzberger
 Project Number: 31403177.85
 Project: KMG - Williams 36-20

E01@7
 7/29/2021 10:20:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y107610-02 (Soil)

GBTEX+TMBs

Surrogate: Toluene-d8	100 %		70-130			B1G29 03	07/29/2021	07/29/2021	
Surrogate: 4-Bromofluorobenzene	100 %		70-130			"	"	"	

Metals by Saturated Paste

Calcium	6.16		0.0499	meq/L	1	[CALC]	08/03/2021	08/03/2021	
Magnesium	4.76		0.0823	"	"	"	"	"	
Sodium	2.44		0.0435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.0024	0.00335	mg/Kg	5	L566834	08/02/2021	08/02/2021	
2-Methylnaphthalene	ND	0.00271	0.00335	"	"	"	"	"	
Acenaphthene	ND	0.00216	0.00335	"	"	"	"	"	
Anthracene	ND	0.00213	0.00335	"	"	"	"	"	
Benzo(a)anthracene	ND	0.00221	0.00335	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000665	0.00335	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.00069	0.00335	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.00243	0.00335	"	"	"	"	"	
Chrysene	ND	0.00128	0.00335	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.0014	0.00335	"	"	"	"	"	
Fluoranthene	ND	0.00265	0.00335	"	"	"	"	"	

Origins Laboratory, Inc.



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WSP USA
 4600 W. 60th Ave.
 Arvada CO 80003

Brian Sulzberger
 Project Number: 31403177.85
 Project: KMG - Williams 36-20

E01@7
7/29/2021 10:20:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y107610-02 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.00251	0.00335	mg/Kg	5	L566834	08/02/2021	08/02/2021	
Indeno(1,2,3-cd)pyrene	ND	0.00172	0.00335	"	"	"	"	"	
Naphthalene	ND	0.00234	0.00335	"	"	"	"	"	
Pyrene	ND	0.00194	0.00335	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	70.5 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	85.4 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	65 %		29-110			"	"	"	

pH in Soil by EPA 9045D

pH	7.30			pH Units	1	B1H0301	08/03/2021	08/03/2021	
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SAR by 20B Saturated Paste

SAR	1.04			SAR	1	B1H0308	08/03/2021	08/03/2021	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	1.23		0.00500	mmhos/cm	1	B1H0302	08/03/2021	08/03/2021	
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Total Metals by 6020B

Arsenic	1.38	0.0855	0.25	mg/Kg	5	L566929	08/02/2021	08/04/2021	
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Origins Laboratory, Inc.



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WSP USA
 4600 W. 60th Ave.
 Arvada CO 80003

Brian Sulzberger
 Project Number: 31403177.85
 Project: KMG - Williams 36-20

E01@7

7/29/2021 10:20:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
 Y107610-02 (Soil)

Total Metals by 6020B

Barium	35.5	0.042	0.25	mg/Kg	5	L566929	08/02/2021	08/04/2021	
Cadmium	0.0562	0.0259	0.25	"	"	"	"	"	J
Copper	4.61	0.0806	0.25	"	"	"	"	"	
Lead	6.78	0.031	0.25	"	"	"	"	"	
Nickel	5.92	0.0633	0.25	"	"	"	"	"	
Selenium	0.299	0.103	0.25	"	"	"	"	"	
Silver	0.0609	0.0067	0.25	"	"	"	"	"	J
Zinc	19.7	0.534	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L566998	07/29/2021	08/03/2021	
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Origins Laboratory, Inc.



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WSP USA
 4600 W. 60th Ave.
 Arvada CO 80003

Brian Sulzberger
 Project Number: 31403177.85
 Project: KMG - Williams 36-20

S01@7

7/29/2021 10:25:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y107610-03 (Soil)

Boron (DTPA Sorbitol)

Boron	0.616		0.199	mg/L	1	B1H0203	08/02/2021	08/04/2021	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B1G2904	07/29/2021	07/29/2021	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	86.4 %		50-150			"	"	"	
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GBTEX+TMBs

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B1G2903	"	07/29/2021	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	116 %		70-130			"	"	"	
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Origins Laboratory, Inc.



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WSP USA
 4600 W. 60th Ave.
 Arvada CO 80003

Brian Sulzberger
 Project Number: 31403177.85
 Project: KMG - Williams 36-20

S01@7

7/29/2021 10:25:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y107610-03 (Soil)

GBTEX+TMBs

Surrogate: Toluene-d8	100 %		70-130			B1G29 03	07/29/2021	07/29/2021	
Surrogate: 4-Bromofluorobenzene	99.5 %		70-130			"	"	"	

Metals by Saturated Paste

Calcium	4.29		0.0499	meq/L	1	[CALC]	08/03/2021	08/03/2021	
Magnesium	2.95		0.0823	"	"	"	"	"	
Sodium	1.46		0.0435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00048	0.00067	mg/Kg	1	L566834	08/02/2021	08/02/2021	
2-Methylnaphthalene	ND	0.000542	0.00067	"	"	"	"	"	
Acenaphthene	ND	0.000431	0.00067	"	"	"	"	"	
Anthracene	ND	0.000426	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000441	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000133	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000138	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000486	0.00067	"	"	"	"	"	
Chrysene	ND	0.000256	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000279	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000529	0.00067	"	"	"	"	"	

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.

WSP USA
 4600 W. 60th Ave.
 Arvada CO 80003

Brian Sulzberger
 Project Number: 31403177.85
 Project: KMG - Williams 36-20

S01@7

7/29/2021 10:25:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y107610-03 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000501	0.00067	mg/Kg	1	L566834	08/02/2021	08/02/2021	
Indeno(1,2,3-cd)pyrene	ND	0.000344	0.00067	"	"	"	"	"	
Naphthalene	ND	0.000467	0.00067	"	"	"	"	"	
Pyrene	ND	0.000387	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	64.9 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	73.3 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	61 %		29-110			"	"	"	

pH in Soil by EPA 9045D

pH	7.29			pH Units	1	B1H0301	08/03/2021	08/03/2021	
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SAR by 20B Saturated Paste

SAR	0.766			SAR	1	B1H0308	08/03/2021	08/03/2021	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.265		0.00500	mmhos/cm	1	B1H0302	08/03/2021	08/03/2021	
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Total Metals by 6020B

Arsenic	1.56	0.0855	0.25	mg/Kg	5	L566929	08/02/2021	08/04/2021	
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Origins Laboratory, Inc.



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WSP USA
 4600 W. 60th Ave.
 Arvada CO 80003

Brian Sulzberger
 Project Number: 31403177.85
 Project: KMG - Williams 36-20

S01@7

7/29/2021 10:25:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
 Y107610-03 (Soil)

Total Metals by 6020B

Barium	43.1	0.042	0.25	mg/Kg	5	L566929	08/02/2021	08/04/2021	
Cadmium	0.0632	0.0259	0.25	"	"	"	"	"	J
Copper	5	0.0806	0.25	"	"	"	"	"	
Lead	7.55	0.031	0.25	"	"	"	"	"	
Nickel	7.65	0.0633	0.25	"	"	"	"	"	
Selenium	0.579	0.103	0.25	"	"	"	"	"	
Silver	0.0197	0.0067	0.25	"	"	"	"	"	J
Zinc	20.2	0.534	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L566998	07/29/2021	08/03/2021	
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Origins Laboratory, Inc.



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WSP USA
 4600 W. 60th Ave.
 Arvada CO 80003

Brian Sulzberger
 Project Number: 31403177.85
 Project: KMG - Williams 36-20

W01@7
 7/29/2021 10:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y107610-04 (Soil)

Boron (DTPA Sorbitol)

Boron	0.300		0.200	mg/L	1	B1H0203	08/02/2021	08/04/2021	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B1G2904	07/29/2021	07/29/2021	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	78.7 %		50-150			"	"	"	
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GBTEX+TMBs

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B1G2903	"	07/29/2021	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	116 %		70-130			"	"	"	
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Origins Laboratory, Inc.



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WSP USA
 4600 W. 60th Ave.
 Arvada CO 80003

Brian Sulzberger
 Project Number: 31403177.85
 Project: KMG - Williams 36-20

W01@7
 7/29/2021 10:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y107610-04 (Soil)

GBTEX+TMBs

Surrogate: Toluene-d8	98.9 %		70-130			B1G29 03	07/29/2021	07/29/2021	
Surrogate: 4-Bromofluorobenzene	100 %		70-130			"	"	"	

Metals by Saturated Paste

Calcium	5.57		0.0499	meq/L	1	[CALC]	08/03/2021	08/03/2021	
Magnesium	4.39		0.0823	"	"	"	"	"	
Sodium	1.64		0.0435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00048	0.00067	mg/Kg	1	L566796	08/02/2021	08/02/2021	
2-Methylnaphthalene	ND	0.000542	0.00067	"	"	"	"	"	
Acenaphthene	ND	0.000431	0.00067	"	"	"	"	"	
Anthracene	ND	0.000426	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000441	0.00067	"	"	"	"	"	
Benzo(a)pyrene	0.000293	0.000133	0.00067	"	"	"	"	"	J
Benzo(b)fluoranthene	0.000309	0.000138	0.00067	"	"	"	"	"	J
Benzo(k)fluoranthene	ND	0.000486	0.00067	"	"	"	"	"	
Chrysene	ND	0.000256	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000279	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000529	0.00067	"	"	"	"	"	

Origins Laboratory, Inc.



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WSP USA
 4600 W. 60th Ave.
 Arvada CO 80003

Brian Sulzberger
 Project Number: 31403177.85
 Project: KMG - Williams 36-20

W01@7
 7/29/2021 10:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
 Y107610-04 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000501	0.00067	mg/Kg	1	L566796	08/02/2021	08/02/2021	
Indeno(1,2,3-cd)pyrene	ND	0.000344	0.00067	"	"	"	"	"	
Naphthalene	ND	0.000467	0.00067	"	"	"	"	"	
Pyrene	0.000578	0.000387	0.00067	"	"	"	"	"	J

Surrogate: 2-Fluorobiphenyl	71.8 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	79.6 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	61.6 %		29-110			"	"	"	

pH in Soil by EPA 9045D

pH	7.40			pH Units	1	B1H0301	08/03/2021	08/03/2021	
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SAR by 20B Saturated Paste

SAR	0.736			SAR	1	B1H0308	08/03/2021	08/03/2021	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	1.09		0.00500	mmhos/cm	1	B1H0302	08/03/2021	08/03/2021	
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Total Metals by 6020B

Arsenic	1.68	0.0855	0.25	mg/Kg	5	L566929	08/02/2021	08/04/2021	
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Origins Laboratory, Inc.



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WSP USA
 4600 W. 60th Ave.
 Arvada CO 80003

Brian Sulzberger
 Project Number: 31403177.85
 Project: KMG - Williams 36-20

W01@7

7/29/2021 10:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
 Y107610-04 (Soil)

Total Metals by 6020B

Barium	55	0.042	0.25	mg/Kg	5	L566929	08/02/2021	08/04/2021	
Cadmium	0.108	0.0259	0.25	"	"	"	"	"	J
Copper	6.97	0.0806	0.25	"	"	"	"	"	
Lead	8.96	0.031	0.25	"	"	"	"	"	
Nickel	9	0.0633	0.25	"	"	"	"	"	
Selenium	0.382	0.103	0.25	"	"	"	"	"	
Silver	0.0636	0.0067	0.25	"	"	"	"	"	J
Zinc	29.5	0.534	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.488	1	mg/Kg	2	L566998	07/29/2021	08/03/2021	
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Origins Laboratory, Inc.



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WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.85
Project: KMG - Williams 36-20

B02@11

7/29/2021 10:35:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y107610-05 (Soil)

pH in Soil by EPA 9045D

pH	7.47			pH Units	1	B1H0301	08/03/2021	08/03/2021	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	1.67	0.00500		mmhos/cm	"	B1H0302	08/03/2021	08/03/2021	
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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.

WSP USA
 4600 W. 60th Ave.
 Arvada CO 80003

Brian Sulzberger
 Project Number: 31403177.85
 Project: KMG - Williams 36-20

GW01

7/29/2021 10:40:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y107610-06 (Water)

Anions by IC 300.0

Chloride	57.0		31.2	mg/L	125	B1G3017	07/30/2021	07/31/2021	
Sulfate	698		31.2	"	"	"	"	"	

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		1.00	ug/L	1	B1G2805	07/29/2021	07/29/2021	U
1,3,5-Trimethylbenzene	ND		1.00	"	"	"	"	"	U
Benzene	ND		1.00	"	"	"	"	"	U
Ethylbenzene	ND		1.00	"	"	"	"	"	U
Naphthalene	ND		4.00	"	"	"	"	"	U
Toluene	ND		1.00	"	"	"	"	"	U
Xylenes, total	ND		1.00	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	96.8 %		70-130			"	"	"	
Surrogate: Toluene-d8	102 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	97.5 %		70-130			"	"	"	

Total Dissolved Solids by 2540C

Total Dissolved Solids	1470		5.00	mg/L	1	B1G3020	07/30/2021	08/03/2021	
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Origins Laboratory, Inc.



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WSP USA
 4600 W. 60th Ave.
 Arvada CO 80003

Brian Sulzberger
 Project Number: 31403177.85
 Project: KMG - Williams 36-20

GW-BG01

7/29/2021 10:45:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y107610-07 (Water)

Anions by IC 300.0

Chloride	69.9		31.2	mg/L	125	B1H0204	08/02/2021	08/02/2021	
Sulfate	146		31.2	"	"	"	"	"	

Total Dissolved Solids by 2540C

Total Dissolved Solids	1240		5.00	"	1	B1H0205	08/02/2021	08/03/2021	
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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.

WSP USA
 4600 W. 60th Ave.
 Arvada CO 80003

Brian Sulzberger
 Project Number: 31403177.85
 Project: KMG - Williams 36-20

Native-BG04@11
7/29/2021 10:50:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y107610-08 (Soil)

Boron (DTPA Sorbitol)

Boron	0.465		0.202	mg/L	1	B1H0203	08/02/2021	08/04/2021	
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Metals by Saturated Paste

Calcium	4.24		0.0499	meq/L	"	[CALC]	08/03/2021	08/03/2021	
Magnesium	3.71		0.0823	"	"	"	"	"	
Sodium	3.82		0.0435	"	"	"	"	"	

pH in Soil by EPA 9045D

pH	7.69			pH Units	1	B1H0301	08/03/2021	08/03/2021	
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SAR by 20B Saturated Paste

SAR	1.92			SAR	1	B1H0308	08/03/2021	08/03/2021	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	1.06		0.00500	mmhos/cm	1	B1H0302	08/03/2021	08/03/2021	
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Total Metals by 6020B

Arsenic	1.84	0.0855	0.25	mg/Kg	5	L566929	08/02/2021	08/04/2021	
Barium	80	0.042	0.25	"	"	"	"	"	
Cadmium	0.0978	0.0259	0.25	"	"	"	"	"	J
Copper	8.32	0.0806	0.25	"	"	"	"	"	

Origins Laboratory, Inc.



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WSP USA
 4600 W. 60th Ave.
 Arvada CO 80003

Brian Sulzberger
 Project Number: 31403177.85
 Project: KMG - Williams 36-20

Native-BG04@11
7/29/2021 10:50:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y107610-08 (Soil)

Total Metals by 6020B

Lead	8.27	0.031	0.25	mg/Kg	5	L566929	08/02/2021	08/04/2021	
Nickel	11.6	0.0633	0.25	"	"	"	"	"	
Selenium	0.537	0.103	0.25	"	"	"	"	"	
Silver	0.0389	0.0067	0.25	"	"	"	"	"	J
Zinc	33.8	0.534	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.488	1	mg/Kg	2	L566998	07/29/2021	08/03/2021	
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Origins Laboratory, Inc.



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WSP USA
 4600 W. 60th Ave.
 Arvada CO 80003

Brian Sulzberger
 Project Number: 31403177.85
 Project: KMG - Williams 36-20

Native-BG05@11
7/29/2021 10:55:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y107610-09 (Soil)

Boron (DTPA Sorbitol)

Boron	0.401		0.200	mg/L	1	B1H0203	08/02/2021	08/04/2021	
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Metals by Saturated Paste

Calcium	3.25		0.0499	meq/L	"	[CALC]	08/03/2021	08/03/2021	
Magnesium	2.89		0.0823	"	"	"	"	"	
Sodium	4.46		0.0435	"	"	"	"	"	

pH in Soil by EPA 9045D

pH	7.88			pH Units	1	B1H0301	08/03/2021	08/03/2021	
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SAR by 20B Saturated Paste

SAR	2.54			SAR	1	B1H0308	08/03/2021	08/03/2021	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.982		0.00500	mmhos/cm	1	B1H0302	08/03/2021	08/03/2021	
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Total Metals by 6020B

Arsenic	1.55	0.0855	0.25	mg/Kg	5	L566931	08/02/2021	08/04/2021	
Barium	88.8	0.042	0.25	"	"	"	"	"	
Cadmium	0.0961	0.0259	0.25	"	"	"	"	"	J
Copper	9.62	0.0806	0.25	"	"	"	"	"	

Origins Laboratory, Inc.



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WSP USA
 4600 W. 60th Ave.
 Arvada CO 80003

Brian Sulzberger
 Project Number: 31403177.85
 Project: KMG - Williams 36-20

Native-BG05@11
7/29/2021 10:55:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y107610-09 (Soil)

Total Metals by 6020B

Lead	7.64	0.031	0.25	mg/Kg	5	L566931	08/02/2021	08/04/2021	
Nickel	13.7	0.0633	0.25	"	"	"	"	"	
Selenium	0.504	0.103	0.25	"	"	"	"	"	
Silver	0.0431	0.0067	0.25	"	"	"	"	"	J
Zinc	38.5	0.534	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.488	1	mg/Kg	2	L566998	07/29/2021	08/03/2021	
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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.

WSP USA
 4600 W. 60th Ave.
 Arvada CO 80003

Brian Sulzberger
 Project Number: 31403177.85
 Project: KMG - Williams 36-20

Native-BG06@11
7/29/2021 10:56:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y107610-10 (Soil)

Boron (DTPA Sorbitol)

Boron	ND		0.201	mg/L	1	B1H0202	08/02/2021	08/03/2021	
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Metals by Saturated Paste

Calcium	2.91		0.0499	meq/L	"	[CALC]	08/03/2021	08/03/2021	
Magnesium	3.23		0.0823	"	"	"	"	"	
Sodium	3.29		0.0435	"	"	"	"	"	

pH in Soil by EPA 9045D

pH	8.01			pH Units	1	B1H0301	08/03/2021	08/03/2021	
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SAR by 20B Saturated Paste

SAR	1.88			SAR	1	B1H0308	08/03/2021	08/03/2021	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.933		0.00500	mmhos/cm	1	B1H0302	08/03/2021	08/03/2021	
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Total Metals by 6020B

Arsenic	1.52	0.0855	0.25	mg/Kg	5	L566931	08/02/2021	08/04/2021	
Barium	32.7	0.042	0.25	"	"	"	"	"	
Cadmium	0.0669	0.0259	0.25	"	"	"	"	"	J
Copper	16.3	0.0806	0.25	"	"	"	"	"	

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WSP USA
 4600 W. 60th Ave.
 Arvada CO 80003

Brian Sulzberger
 Project Number: 31403177.85
 Project: KMG - Williams 36-20

Native-BG06@11
7/29/2021 10:56:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y107610-10 (Soil)

Total Metals by 6020B

Lead	6.83	0.031	0.25	mg/Kg	5	L566931	08/02/2021	08/04/2021	
Nickel	12.7	0.0633	0.25	"	"	"	"	"	
Selenium	0.18	0.103	0.25	"	"	"	"	"	J
Silver	0.0128	0.0067	0.25	"	"	"	"	"	J
Zinc	22.6	0.534	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L566998	07/29/2021	08/03/2021	
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4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.85
Project: KMG - Williams 36-20

GW-BG02

7/29/2021 12:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y107610-11 (Water)

Anions by IC 300.0

Chloride	89.1		31.2	mg/L	125	B1H0204	08/02/2021	08/02/2021	
Sulfate	808		31.2	"	"	"	"	"	

Total Dissolved Solids by 2540C

Total Dissolved Solids	1820		5.00	"	1	B1H0205	08/02/2021	08/03/2021	
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Brian Sulzberger
 Project Number: 31403177.85
 Project: KMG - Williams 36-20

Volatile Organic Compounds by GC/MS SW846 8260D - 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 B1G2805 - EPA 5030B (Water)

Blank (B1G2805-BLK1)

Prepared: 07/28/2021 Analyzed: 07/29/2021

1,2,4-Trimethylbenzene	ND	1.00	ug/L							U
1,3,5-Trimethylbenzene	ND	1.00	"							U
Benzene	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Naphthalene	ND	4.00	"							U
Toluene	ND	1.00	"							U
Xylenes, total	ND	1.00	"							U
Surrogate: 1,2-Dichloroethane-d4	64		"	62.5	102		70-130			
Surrogate: Toluene-d8	62		"	62.5	99.1		70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5	98.5		70-130			

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Brian Sulzberger
 Project Number: 31403177.85
 Project: KMG - Williams 36-20

Volatile Organic Compounds by GC/MS SW846 8260D - 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 B1G2805 - EPA 5030B (Water)

LCS (B1G2805-BS1)

Prepared: 07/28/2021 Analyzed: 07/29/2021

1,2,4-Trimethylbenzene	52.3	1.00	ug/L	50.0		105	70-130			
1,3,5-Trimethylbenzene	52.5	1.00	"	50.0		105	70-130			
Benzene	52.2	1.00	"	50.0		104	70-130			
Ethylbenzene	52.4	1.00	"	50.0		105	70-130			
m,p-Xylene	105	2.00	"	100		105	70-130			
Naphthalene	50.6	4.00	"	50.0		101	70-130			
o-Xylene	51.8	1.00	"	50.0		104	70-130			
Toluene	51.5	1.00	"	50.0		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	60		"	62.5		96.5	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	70-130			

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Brian Sulzberger
 Project Number: 31403177.85
 Project: KMG - Williams 36-20

Volatile Organic Compounds by GC/MS SW846 8260D - 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 B1G2805 - EPA 5030B (Water)

Matrix Spike (B1G2805-MS1)	Source: Y107525-21			Prepared: 07/28/2021 Analyzed: 07/30/2021						
1,2,4-Trimethylbenzene	50.0	1.00	ug/L	50.0	ND	99.9	70-130			
1,3,5-Trimethylbenzene	48.5	1.00	"	50.0	ND	97.0	70-130			
Benzene	50.2	1.00	"	50.0	ND	100	70-130			
Ethylbenzene	48.9	1.00	"	50.0	ND	97.8	70-130			
m,p-Xylene	97.6	2.00	"	100	ND	97.6	70-130			
Naphthalene	56.5	4.00	"	50.0	1.00	111	70-130			
o-Xylene	50.9	1.00	"	50.0	ND	102	70-130			
Toluene	49.5	1.00	"	50.0	ND	98.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	64		"	62.5		102	70-130			
Surrogate: Toluene-d8	64		"	62.5		102	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		102	70-130			

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 Project: KMG - Williams 36-20

Volatile Organic Compounds by GC/MS SW846 8260D - 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 B1G2805 - EPA 5030B (Water)

Matrix Spike Dup (B1G2805-MSD1)	Source: Y107525-21			Prepared: 07/28/2021 Analyzed: 07/30/2021						
1,2,4-Trimethylbenzene	51.5	1.00	ug/L	50.0	ND	103	70-130	3.02	20	
1,3,5-Trimethylbenzene	51.0	1.00	"	50.0	ND	102	70-130	4.97	20	
Benzene	51.2	1.00	"	50.0	ND	102	70-130	1.89	20	
Ethylbenzene	51.0	1.00	"	50.0	ND	102	70-130	4.13	20	
m,p-Xylene	102	2.00	"	100	ND	102	70-130	3.89	20	
Naphthalene	57.2	4.00	"	50.0	1.00	112	70-130	1.30	20	
o-Xylene	52.0	1.00	"	50.0	ND	104	70-130	2.08	20	
Toluene	50.5	1.00	"	50.0	ND	101	70-130	2.06	20	
Surrogate: 1,2-Dichloroethane-d4	62		"	62.5		98.5	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.7	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		102	70-130			

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Brian Sulzberger
 Project Number: 31403177.85
 Project: KMG - Williams 36-20

Volatile Organic Compounds by GC/MS SW846 8260D - 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 B1G2903 - EPA 5030 (soil)

Blank (B1G2903-BLK1)

Prepared: 07/29/2021 Analyzed: 07/29/2021

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
Naphthalene	ND	0.0100	"							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Toluene	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Xylenes, total	ND	0.00200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125	107		70-130			
Surrogate: Toluene-d8	0.13		"	0.125	103		70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125	99.5		70-130			

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Volatile Organic Compounds by GC/MS SW846 8260D - 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 B1G2903 - EPA 5030 (soil)

LCS (B1G2903-BS1)

Prepared: 07/29/2021 Analyzed: 07/29/2021

1,2,4-Trimethylbenzene	0.0603	0.00200	mg/kg	0.0500		121	70-130			
Naphthalene	0.0527	0.0100	"	0.0500		105	70-130			
1,3,5-Trimethylbenzene	0.0590	0.00200	"	0.0500		118	70-130			
Benzene	0.0568	0.00200	"	0.0500		114	70-130			
Ethylbenzene	0.0569	0.00200	"	0.0500		114	70-130			
m,p-Xylene	0.117	0.00400	"	0.100		117	70-130			
o-Xylene	0.0579	0.00200	"	0.0500		116	70-130			
Toluene	0.0581	0.00200	"	0.0500		116	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		108	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		100	70-130			

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 Project: KMG - Williams 36-20

Volatile Organic Compounds by GC/MS SW846 8260D - 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 B1G2903 - EPA 5030 (soil)

Matrix Spike (B1G2903-MS1)	Source: Y107604-01			Prepared: 07/29/2021 Analyzed: 07/29/2021						
1,2,4-Trimethylbenzene	0.0520	0.00200	mg/kg	0.0500	ND	104	70-130			
Naphthalene	0.0502	0.0100	"	0.0500	0.00276	95.0	70-130			
1,3,5-Trimethylbenzene	0.0490	0.00200	"	0.0500	ND	98.0	70-130			
Benzene	0.0538	0.00200	"	0.0500	ND	108	70-130			
Ethylbenzene	0.0465	0.00200	"	0.0500	ND	93.0	70-130			
m,p-Xylene	0.100	0.00400	"	0.100	0.000580	99.8	70-130			
o-Xylene	0.0505	0.00200	"	0.0500	ND	101	70-130			
Toluene	0.0518	0.00200	"	0.0500	ND	104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.15		"	0.125		123	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.2	70-130			

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Brian Sulzberger
 Project Number: 31403177.85
 Project: KMG - Williams 36-20

Volatile Organic Compounds by GC/MS SW846 8260D - 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 B1G2903 - EPA 5030 (soil)

Matrix Spike Dup (B1G2903-MSD1)	Source: Y107604-01			Prepared: 07/29/2021 Analyzed: 07/29/2021						
1,2,4-Trimethylbenzene	0.0597	0.00200	mg/kg	0.0500	ND	119	70-130	13.8	20	
Naphthalene	0.0541	0.0100	"	0.0500	0.00276	103	70-130	7.44	20	
1,3,5-Trimethylbenzene	0.0569	0.00200	"	0.0500	ND	114	70-130	15.0	20	
Benzene	0.0567	0.00200	"	0.0500	ND	113	70-130	5.14	20	
Ethylbenzene	0.0555	0.00200	"	0.0500	ND	111	70-130	17.7	20	
m,p-Xylene	0.117	0.00400	"	0.100	0.000580	116	70-130	14.9	20	
o-Xylene	0.0594	0.00200	"	0.0500	ND	119	70-130	16.2	20	
Toluene	0.0584	0.00200	"	0.0500	ND	117	70-130	11.9	20	
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		108	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

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Brian Sulzberger
 Project Number: 31403177.85
 Project: KMG - Williams 36-20

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B1G2904 - EPA 3550B										
Blank (B1G2904-BLK1)										
					Prepared: 07/29/2021 Analyzed: 07/29/2021					
Diesel (C10-C28)	ND	50.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	46		"	50.0		92.7	50-150			

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Brian Sulzberger
 Project Number: 31403177.85
 Project: KMG - Williams 36-20

Extractable Petroleum Hydrocarbons by 8015D - 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 B1G2904 - EPA 3550B

LCS (B1G2904-BS1)

Prepared: 07/29/2021 Analyzed: 07/29/2021

Diesel (C10-C28)	1010	50.0	mg/kg	1000		101	70-130			
Residual Range Organics (C28-C40)	1040	200	"	1000		104	70-130			
Surrogate: o-Terphenyl	54		"	50.0		108	50-150			

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Brian Sulzberger
 Project Number: 31403177.85
 Project: KMG - Williams 36-20

Extractable Petroleum Hydrocarbons by 8015D - 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 B1G2904 - EPA 3550B

Matrix Spike (B1G2904-MS1)	Source: Y107604-01			Prepared: 07/29/2021 Analyzed: 07/29/2021						
Diesel (C10-C28)	1020	50.0	mg/kg	1000	ND	102	70-130			
Residual Range Organics (C28-C40)	1120	200	"	1000	63.8	105	70-130			
Surrogate: o-Terphenyl	51		"	50.0		101	50-150			

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WSP USA
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Brian Sulzberger
 Project Number: 31403177.85
 Project: KMG - Williams 36-20

Extractable Petroleum Hydrocarbons by 8015D - 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 B1G2904 - EPA 3550B

Matrix Spike Dup (B1G2904-MSD1)	Source: Y107604-01			Prepared: 07/29/2021 Analyzed: 07/29/2021						
Diesel (C10-C28)	977	50.0	mg/kg	1000	ND	97.7	70-130	4.56	35	
Residual Range Organics (C28-C40)	1090	200	"	1000	63.8	102	70-130	2.71	35	
<i>Surrogate: o-Terphenyl</i>	<i>51</i>		<i>"</i>	<i>50.0</i>		<i>101</i>	<i>50-150</i>			

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WSP USA
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Brian Sulzberger
 Project Number: 31403177.85
 Project: KMG - Williams 36-20

Extractable Petroleum Hydrocarbons by 8015D - 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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Classical Chemistry Parameters - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B1G3017 - Filter .45um non acidified

Blank (B1G3017-BLK1)

Prepared: 07/30/2021 Analyzed: 07/30/2021

Chloride	ND	0.250	mg/L							
Fluoride	ND	0.100	"							
Bromide	ND	0.100	"							
Sulfate	ND	0.250	"							
Nitrate	ND	0.100	"							
Nitrite	ND	0.250	"							
Phosphate	ND	0.100	"							

LCS (B1G3017-BS1)

Prepared: 07/30/2021 Analyzed: 07/31/2021

Chloride	3.91	0.250	mg/L	4.00		97.9	90-110			
Fluoride	ND	0.100	"	4.00			90-110			
Bromide	ND	0.100	"	4.00			90-110			
Sulfate	3.79	0.250	"	4.00		94.9	90-110			
Nitrate	4.03	0.100	"	4.00		101	90-110			
Nitrite	ND	0.250	"	4.00			90-110			
Phosphate	ND	0.100	"	4.00			90-110			

Matrix Spike (B1G3017-MS1)

Source: Y107579-10

Prepared: 07/30/2021 Analyzed: 07/31/2021

Chloride	572		mg/L	500	87.8	96.8	80-120			
Fluoride	0.00		"	500	0.00		80-120			
Bromide	0.00		"	500	0.00		80-120			
Sulfate	6870		"	500	5990	177	80-120			QM-07

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WSP USA
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 Arvada CO 80003

Brian Sulzberger
 Project Number: 31403177.85
 Project: KMG - Williams 36-20

Classical Chemistry Parameters - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B1G3017 - Filter .45um non acidified										
Matrix Spike (B1G3017-MS1)			Source: Y107579-10		Prepared: 07/30/2021 Analyzed: 07/31/2021					
Nitrate	638		mg/L	500	141	99.4	80-120			
Nitrite	0.00		"	500	0.00		80-120			
Phosphate	0.00		"	500	0.00		80-120			
Matrix Spike Dup (B1G3017-MSD1)			Source: Y107579-10		Prepared: 07/30/2021 Analyzed: 07/31/2021					
Chloride	576		mg/L	500	87.8	97.7	80-120	0.732	20	
Fluoride	0.00		"	500	0.00		80-120		20	
Bromide	0.00		"	500	0.00		80-120		20	
Sulfate	6930		"	500	5990	190	80-120	0.951	20	QM-07
Nitrate	644		"	500	141	100	80-120	0.811	20	
Nitrite	0.00		"	500	0.00		80-120		20	
Phosphate	0.00		"	500	0.00		80-120		20	
Batch B1G3020 - NO PREP										
Blank (B1G3020-BLK1)			Prepared: 07/30/2021 Analyzed: 08/03/2021							
Total Dissolved Solids	ND	5.00	mg/L							
LCS (B1G3020-BS1)			Prepared: 07/30/2021 Analyzed: 08/03/2021							
Total Dissolved Solids	1010	5.00	mg/L	1000		101	85-115			
Duplicate (B1G3020-DUP1)			Source: Y107579-10		Prepared: 07/30/2021 Analyzed: 08/03/2021					
Total Dissolved Solids	9700	5.00	mg/L		9760			0.647	20	
Batch B1H0204 - Filter .45um non acidified										
Blank (B1H0204-BLK1)			Prepared: 08/02/2021 Analyzed: 08/02/2021							
Chloride	ND	0.250	mg/L							

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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 B1H0204 - Filter .45um non acidified

Blank (B1H0204-BLK1)

Prepared: 08/02/2021 Analyzed: 08/02/2021

Fluoride	ND	0.100	mg/L							
Bromide	ND	0.100	"							
Sulfate	ND	0.250	"							
Nitrate	ND	0.100	"							
Nitrite	ND	0.250	"							
Phosphate	ND	0.100	"							

LCS (B1H0204-BS1)

Prepared: 08/02/2021 Analyzed: 08/02/2021

Chloride	3.94	0.250	mg/L	4.00		98.5	90-110			
Fluoride	ND	0.100	"	4.00			90-110			
Bromide	ND	0.100	"	4.00			90-110			
Sulfate	3.85	0.250	"	4.00		96.4	90-110			
Nitrate	4.07	0.100	"	4.00		102	90-110			
Nitrite	ND	0.250	"	4.00			90-110			
Phosphate	ND	0.100	"	4.00			90-110			

Matrix Spike (B1H0204-MS1)

Source: Y107610-07

Prepared: 08/02/2021 Analyzed: 08/02/2021

Chloride	567		mg/L	500	69.9	99.4	80-120			
Fluoride	0.00		"	500	0.00		80-120			
Bromide	0.00		"	500	0.00		80-120			
Sulfate	632		"	500	146	97.2	80-120			
Nitrate	507		"	500	0.00	101	80-120			
Nitrite	0.00		"	500	0.00		80-120			
Phosphate	0.00		"	500	0.00		80-120			

Matrix Spike Dup (B1H0204-MSD1)

Source: Y107610-07

Prepared: 08/02/2021 Analyzed: 08/02/2021

Chloride	576		mg/L	500	69.9	101	80-120	1.64	20	
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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 B1H0204 - Filter .45um non acidified

Matrix Spike Dup (B1H0204-MSD1)		Source: Y107610-07			Prepared: 08/02/2021 Analyzed: 08/02/2021					
Fluoride	0.00		mg/L	500	0.00		80-120		20	
Bromide	0.00		"	500	0.00		80-120		20	
Sulfate	631		"	500	146	97.0	80-120	0.218	20	
Nitrate	501		"	500	0.00	100	80-120	1.11	20	
Nitrite	0.00		"	500	0.00		80-120		20	
Phosphate	0.00		"	500	0.00		80-120		20	

Batch B1H0205 - NO PREP

Blank (B1H0205-BLK1)					Prepared: 08/02/2021 Analyzed: 08/03/2021					
Total Dissolved Solids	ND	5.00	mg/L							
LCS (B1H0205-BS1)					Prepared: 08/02/2021 Analyzed: 08/03/2021					
Total Dissolved Solids	981	5.00	mg/L	1000		98.1	85-115			
Duplicate (B1H0205-DUP1)		Source: Y107610-07			Prepared: 08/02/2021 Analyzed: 08/03/2021					
Total Dissolved Solids	1310	5.00	mg/L		1240			5.66	20	

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Saturated Paste - Quality Control
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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B1H0301 - NO PREP										
Duplicate (B1H0301-DUP1)		Source: Y107610-02			Prepared: 08/03/2021 Analyzed: 08/03/2021					
pH	7.29		pH Units		7.30			0.137	25	
Batch B1H0302 - NO PREP										
Blank (B1H0302-BLK1)		Prepared: 08/03/2021 Analyzed: 08/03/2021								
Specific Conductance (EC)	0.00130	0.00500	mmhos/cm							
Duplicate (B1H0302-DUP1)		Source: Y107610-02			Prepared: 08/03/2021 Analyzed: 08/03/2021					
Specific Conductance (EC)	1.11	0.00500	mmhos/cm		1.23			10.7	25	
Batch B1H0416 - NO PREP										
Duplicate (B1H0416-DUP1)		Source: Y107610-01			Prepared: 08/04/2021 Analyzed: 08/04/2021					
pH	8.15		pH Units		8.18			0.367	25	
Batch B1H0421 - NO PREP										
Blank (B1H0421-BLK1)		Prepared: 08/04/2021 Analyzed: 08/04/2021								
Specific Conductance (EC)	0.00260	0.00500	mmhos/cm							
Duplicate (B1H0421-DUP1)		Source: Y107610-01			Prepared: 08/04/2021 Analyzed: 08/04/2021					
Specific Conductance (EC)	0.980	0.00500	mmhos/cm		0.952			2.83	25	

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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 L566834 - 3550B

MSD (L 97048-MSD-L566834)		Source: 97048			Prepared: 08/02/2021 Analyzed: 08/02/2021					
Fluoranthene	0.162	0.00529	mg/Kg	0.167	<0.00529	97	30-130	5	30	
Pyrene	0.154	0.00387	"	0.167	0.00749	87.7	30-130	4.4	30	
Naphthalene	0.117	0.00467	"	0.167	<0.00467	70	30-130	9.8	30	
1-Methylnaphthalene	0.121	0.0048	"	0.167	<0.00480	72.4	30-130	6.8	30	
Fluorene	0.0849	0.00501	"	0.167	<0.00501	50.8	30-130	19.2	30	
Dibenz(a,h)anthracene	0.152	0.00279	"	0.167	<0.00279	91	30-130	14	30	
Chrysene	0.139	0.00256	"	0.167	<0.00256	83.2	30-130	2.1	30	
Benzo(k)fluoranthene	0.141	0.00486	"	0.167	<0.00486	84.4	30-130	9.6	30	
Benzo(a)pyrene	0.126	0.00133	"	0.167	<0.00133	75.4	30-130	0.7	30	
Benzo(a)anthracene	0.126	0.00441	"	0.167	<0.00441	75.4	30-130	2.4	30	
Anthracene	0.174	0.00426	"	0.167	0.0129	96.4	30-130	37.5	30	
Acenaphthene	0.114	0.00431	"	0.167	<0.00431	68.2	30-130	4.4	30	
2-Methylnaphthalene	0.112	0.00542	"	0.167	<0.00542	67	30-130	5.5	30	
Benzo(b)fluoranthene	0.132	0.00138	"	0.167	<0.00138	79	30-130	5.1	30	
Indeno(1,2,3-cd)pyrene	0.137	0.00344	"	0.167	<0.00344	82	30-130	14	30	

Surrogate: Nitrobenzene-d5	66.9		"	0.333	226	66.9	29-110			
Surrogate: 4-Terphenyl-d14	102		"	0.333	322	102	33-122			
Surrogate: 2-Fluorobiphenyl	76.2		"	0.333	251	76.2	33-115			

MS (L 97048-MS-L566834)		Source: 97048			Prepared: 08/02/2021 Analyzed: 08/02/2021					
Dibenz(a,h)anthracene	0.132	0.00279	mg/Kg	0.165	<0.00279	80	30-130			
Benzo(b)fluoranthene	0.139	0.00138	"	0.165	<0.00138	84.2	30-130			
Benzo(a)pyrene	0.125	0.00133	"	0.165	<0.00133	75.7	30-130			
Benzo(a)anthracene	0.123	0.00441	"	0.165	<0.00441	74.5	30-130			
Anthracene	0.119	0.00426	"	0.165	0.0129	64.3	30-130			
Acenaphthene	0.109	0.00431	"	0.165	<0.00431	66	30-130			
2-Methylnaphthalene	0.106	0.00542	"	0.165	<0.00542	64.2	30-130			

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L566834 - 3550B

MS (L 97048-MS-L566834)	Source: 97048			Prepared: 08/02/2021 Analyzed: 08/02/2021						
1-Methylnaphthalene	0.113	0.0048	mg/Kg	0.165	<0.00480	68.4	30-130			
Pyrene	0.161	0.00387	"	0.165	0.00749	93	30-130			
Fluoranthene	0.154	0.00529	"	0.165	<0.00529	93.3	30-130			
Fluorene	0.103	0.00501	"	0.165	<0.00501	62.4	30-130			
Indeno(1,2,3-cd)pyrene	0.119	0.00344	"	0.165	<0.00344	72.1	30-130			
Naphthalene	0.106	0.00467	"	0.165	<0.00467	64.2	30-130			
Benzo(k)fluoranthene	0.128	0.00486	"	0.165	<0.00486	77.5	30-130			
Chrysene	0.136	0.00256	"	0.165	<0.00256	82.4	30-130			
Surrogate: 4-Terphenyl-d14	95.7		"	0.33	322	95.7	33-122			
Surrogate: 2-Fluorobiphenyl	65.7		"	0.33	257	65.7	33-115			
Surrogate: Nitrobenzene-d5	56		"	0.33	226	56	29-110			

LCS (LCS-L566834)	Prepared: 08/02/2021 Analyzed: 08/02/2021									
2-Methylnaphthalene	0.104	0.000542	mg/Kg	0.167		62.2	30-130			
1-Methylnaphthalene	0.106	0.00048	"	0.167		63.4	30-130			
Naphthalene	0.105	0.000467	"	0.167		62.8	30-130			
Benzo(b)fluoranthene	0.0851	0.000138	"	0.167		50.9	30-130			
Pyrene	0.115	0.000387	"	0.167		68.8	30-130			
Indeno(1,2,3-cd)pyrene	0.0736	0.000344	"	0.167		44	30-130			
Acenaphthene	0.109	0.000431	"	0.167		65.2	30-130			
Anthracene	0.115	0.000426	"	0.167		68.8	30-130			
Benzo(a)pyrene	0.117	0.000133	"	0.167		70	30-130			
Benzo(k)fluoranthene	0.0823	0.000486	"	0.167		49.2	30-130			
Chrysene	0.115	0.000256	"	0.167		68.8	30-130			
Dibenz(a,h)anthracene	0.0875	0.000279	"	0.167		52.3	30-130			
Fluoranthene	0.115	0.000529	"	0.167		68.8	30-130			
Fluorene	0.111	0.000501	"	0.167		66.4	30-130			

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L566834 - 3550B

LCS (LCS-L566834)

Prepared: 08/02/2021 Analyzed: 08/02/2021

Benzo(a)anthracene	0.112	0.000441	mg/Kg	0.167		67	30-130			
Surrogate: 2-Fluorobiphenyl	74.4		"	0.333		74.4	33-115			
Surrogate: 4-Terphenyl-d14	73.8		"	0.333		73.8	33-122			
Surrogate: Nitrobenzene-d5	67.2		"	0.333		67.2	29-110			

LRB (LRB-L566834)

Prepared: 08/02/2021 Analyzed: 08/02/2021

Benzo(k)fluoranthene	ND	0.00067	mg/Kg				-			
Pyrene	ND	0.00067	"				-			
Naphthalene	ND	0.00067	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Chrysene	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00067	"				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00067	"				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Surrogate: 4-Terphenyl-d14	69		"	0.333		69	33-122			
Surrogate: Nitrobenzene-d5	65.1		"	0.333		65.1	29-110			
Surrogate: 2-Fluorobiphenyl	69.9		"	0.333		69.9	33-115			

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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 L566796 - 3550B

MSD (L 97229-MSD-L566796)		Source: Y107610-04			Prepared: 08/02/2021 Analyzed: 08/02/2021					
Benzo(a)anthracene	0.108	0.000441	mg/Kg	0.165	<0.000441	65.4	30-130	8	30	
Pyrene	0.12	0.000387	"	0.165	0.000578	72.7	30-130	6.4	30	
Fluorene	0.107	0.000501	"	0.165	<0.000501	64.8	30-130	9.7	30	
Dibenz(a,h)anthracene	0.0773	0.000279	"	0.165	<0.000279	46.8	30-130	16.1	30	
Chrysene	0.118	0.000256	"	0.165	<0.000256	71.5	30-130	8.9	30	
Benzo(k)fluoranthene	0.0849	0.000486	"	0.165	<0.000486	51.4	30-130	20.2	30	
Naphthalene	0.0945	0.000467	"	0.165	<0.000467	57.2	30-130	8.6	30	
Benzo(a)pyrene	0.121	0.000133	"	0.165	0.000293	73.3	30-130	6.4	30	
Indeno(1,2,3-cd)pyrene	0.0625	0.000344	"	0.165	<0.000344	37.8	30-130	18.9	30	
Anthracene	0.115	0.000426	"	0.165	<0.000426	69.6	30-130	10.6	30	
Acenaphthene	0.103	0.000431	"	0.165	<0.000431	62.4	30-130	12.7	30	
2-Methylnaphthalene	0.0931	0.000542	"	0.165	<0.000542	56.4	30-130	10	30	
1-Methylnaphthalene	0.0961	0.00048	"	0.165	<0.000480	58.2	30-130	11.6	30	
Benzo(b)fluoranthene	0.0645	0.000138	"	0.165	0.000309	39	30-130	21.2	30	
Fluoranthene	0.0902	0.000529	"	0.165	<0.000529	54.6	30-130	0.1	30	
Surrogate: Nitrobenzene-d5	55.1		"	0.33	205	55.1	29-110			
Surrogate: 4-Terphenyl-d14	69.3		"	0.33	265	69.3	33-122			
Surrogate: 2-Fluorobiphenyl	63.9		"	0.33	239	63.9	33-115			

MS (L 97229-MS-L566796)		Source: Y107610-04			Prepared: 08/02/2021 Analyzed: 08/02/2021					
Benzo(a)anthracene	0.117	0.000441	mg/Kg	0.167	<0.000441	70	30-130			
2-Methylnaphthalene	0.103	0.000542	"	0.167	<0.000542	61.6	30-130			
Anthracene	0.128	0.000426	"	0.167	<0.000426	76.6	30-130			
Naphthalene	0.103	0.000467	"	0.167	<0.000467	61.6	30-130			
Benzo(a)pyrene	0.129	0.000133	"	0.167	0.000293	77.2	30-130			
Benzo(b)fluoranthene	0.0798	0.000138	"	0.167	0.000309	47.7	30-130			
Benzo(k)fluoranthene	0.104	0.000486	"	0.167	<0.000486	62.2	30-130			

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L566796 - 3550B

MS (L 97229-MS-L566796)	Source: Y107610-04			Prepared: 08/02/2021 Analyzed: 08/02/2021						
Dibenz(a,h)anthracene	0.0909	0.000279	mg/Kg	0.167	<0.000279	54.4	30-130			
1-Methylnaphthalene	0.108	0.00048	"	0.167	<0.000480	64.6	30-130			
Fluoranthene	0.0901	0.000529	"	0.167	<0.000529	53.9	30-130			
Fluorene	0.118	0.000501	"	0.167	<0.000501	70.6	30-130			
Indeno(1,2,3-cd)pyrene	0.0756	0.000344	"	0.167	<0.000344	45.2	30-130			
Pyrene	0.128	0.000387	"	0.167	0.000578	76.6	30-130			
Chrysene	0.129	0.000256	"	0.167	<0.000256	77.2	30-130			
Acenaphthene	0.117	0.000431	"	0.167	<0.000431	70	30-130			
Surrogate: 2-Fluorobiphenyl	68.7		"	0.333	239	68.7	33-115			
Surrogate: 4-Terphenyl-d14	73.2		"	0.333	265	73.2	33-122			
Surrogate: Nitrobenzene-d5	56.4		"	0.333	205	56.4	29-110			

LCS (LCS-L566796)	Prepared: 08/02/2021 Analyzed: 08/02/2021									
Pyrene	0.135	0.000387	mg/Kg	0.167		80.8	30-130			
Benzo(b)fluoranthene	0.0797	0.000138	"	0.167		47.7	30-130			
Benzo(k)fluoranthene	0.122	0.000486	"	0.167		73	30-130			
Chrysene	0.136	0.000256	"	0.167		81.4	30-130			
Dibenz(a,h)anthracene	0.0816	0.000279	"	0.167		48.8	30-130			
Benzo(a)pyrene	0.133	0.000133	"	0.167		79.6	30-130			
Fluorene	0.124	0.000501	"	0.167		74.2	30-130			
Fluoranthene	0.136	0.000529	"	0.167		81.4	30-130			
Naphthalene	0.113	0.000467	"	0.167		67.6	30-130			
Anthracene	0.135	0.000426	"	0.167		80.8	30-130			
Acenaphthene	0.124	0.000431	"	0.167		74.2	30-130			
2-Methylnaphthalene	0.112	0.000542	"	0.167		67	30-130			
1-Methylnaphthalene	0.117	0.00048	"	0.167		70	30-130			
Benzo(a)anthracene	0.122	0.000441	"	0.167		73	30-130			

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L566796 - 3550B

LCS (LCS-L566796)

Prepared: 08/02/2021 Analyzed: 08/02/2021

Indeno(1,2,3-cd)pyrene	0.0699	0.000344	mg/Kg	0.167		41.8	30-130			
Surrogate: Nitrobenzene-d5	66.3		"	0.333		66.3	29-110			
Surrogate: 4-Terphenyl-d14	85.5		"	0.333		85.5	33-122			
Surrogate: 2-Fluorobiphenyl	85.8		"	0.333		85.8	33-115			

LRB (LRB-L566796)

Prepared: 08/02/2021 Analyzed: 08/02/2021

Fluorene	ND	0.00067	mg/Kg				-			
Anthracene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Chrysene	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00067	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Naphthalene	ND	0.00067	"				-			
Pyrene	ND	0.00067	"				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
Surrogate: 2-Fluorobiphenyl	71.4		"	0.333		71.4	33-115			
Surrogate: 4-Terphenyl-d14	79.2		"	0.333		79.2	33-122			
Surrogate: Nitrobenzene-d5	63		"	0.333		63	29-110			

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.

WSP USA
 4600 W. 60th Ave.
 Arvada CO 80003

Brian Sulzberger
 Project Number: 31403177.85
 Project: KMG - Williams 36-20

Total Metals by 6020B - Quality Control
Waypoint Analytical, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L566931 - 3050B

MSD (L 97215-MSD-L566931)		Source: 97215			Prepared: 08/02/2021 Analyzed: 08/04/2021					
Arsenic	5.47	0.0855	mg/Kg	2.38	3.62	78	75-125	7	80	
Silver	0.43	0.0067	"	0.475	0.00752	90	75-125	6.7	80	
Selenium	3.62	0.103	"	4.75	0.261	71	75-125	2.4	80	*
Zinc	42.6	0.534	"	23.8	19.9	96	75-125	0.9	80	
Nickel	8.07	0.0633	"	2.38	5.76	97	75-125	1.6	80	
Lead	7.08	0.031	"	2.38	4.41	112	75-125	5.2	80	
Copper	4.22	0.0806	"	2.38	2.04	92	75-125	1.1	80	
Cadmium	0.453	0.0259	"	0.475	0.0271	95	75-125	8.4	80	
Barium	22.7	0.042	"	4.75	15.9	143	75-125	4.3	80	*

MS (L 97215-MS-L566931)		Source: 97215			Prepared: 08/02/2021 Analyzed: 08/04/2021					
Copper	4.17	0.0806	mg/Kg	2.47	2.04	86	75-125			
Lead	6.72	0.031	"	2.47	4.41	94	75-125			
Cadmium	0.493	0.0259	"	0.494	0.0271	100	75-125			
Nickel	7.94	0.0633	"	2.47	5.76	88	75-125			
Selenium	3.71	0.103	"	4.94	0.261	70	75-125			*
Barium	23.7	0.042	"	4.94	15.9	158	75-125			*
Arsenic	5.1	0.0855	"	2.47	3.62	60	75-125			*
Zinc	43	0.534	"	24.7	19.9	94	75-125			
Silver	0.46	0.0067	"	0.494	0.00752	93	75-125			

LCS (LCS-L566931)		Prepared: 08/02/2021 Analyzed: 08/04/2021								
Zinc	24	0.534	mg/Kg	25		96	80-120			
Lead	2.31	0.031	"	2.5		92	80-120			
Nickel	2.4	0.0633	"	2.5		96	80-120			
Copper	2.36	0.0806	"	2.5		94	80-120			
Cadmium	0.428	0.0259	"	0.5		86	80-120			

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.

WSP USA
 4600 W. 60th Ave.
 Arvada CO 80003

Brian Sulzberger
 Project Number: 31403177.85
 Project: KMG - Williams 36-20

Total Metals by 6020B - Quality Control
Waypoint Analytical, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L566931 - 3050B

LCS (LCS-L566931)

Prepared: 08/02/2021 Analyzed: 08/04/2021

Barium	4.75	0.042	mg/Kg	5		95	80-120			
Arsenic	2.36	0.0855	"	2.5		94	80-120			
Silver	0.447	0.0067	"	0.5		89	80-120			
Selenium	5	0.103	"	5		100	80-120			

LRB (LRB-L566931)

Prepared: 08/02/2021 Analyzed: 08/04/2021

Arsenic	ND	0.25	mg/Kg				-			
Silver	ND	0.25	"				-			
Selenium	ND	0.25	"				-			
Nickel	ND	0.25	"				-			
Lead	ND	0.25	"				-			
Copper	ND	0.25	"				-			
Barium	0.0431	0.25	"				-			J
Zinc	ND	2.5	"				-			
Cadmium	ND	0.25	"				-			

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.

WSP USA
 4600 W. 60th Ave.
 Arvada CO 80003

Brian Sulzberger
 Project Number: 31403177.85
 Project: KMG - Williams 36-20

Total Metals by 6020B - Quality Control
Waypoint Analytical, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L566929 - 3050B

MSD (L 97230-MSD-L566929)		Source: Y107610-08			Prepared: 08/02/2021 Analyzed: 08/04/2021					
Arsenic	3.68	0.0855	mg/Kg	2.48	1.84	74	75-125	12.4	80	*
Zinc	58.2	0.534	"	24.8	33.8	98	75-125	7.8	80	
Silver	0.499	0.0067	"	0.496	0.0389	101	75-125	2.8	80	
Selenium	4.52	0.103	"	4.96	0.537	80	75-125	15.2	80	
Nickel	14.6	0.0633	"	2.48	11.6	121	75-125	7	80	
Lead	10.4	0.031	"	2.48	8.27	86	75-125	7.5	80	
Copper	10.5	0.0806	"	2.48	8.32	88	75-125	5.1	80	
Barium	72	0.042	"	4.96	80	NR	75-125	8.5	80	*
Cadmium	0.572	0.0259	"	0.496	0.0978	115	75-125	3.7	80	

MS (L 97230-MS-L566929)		Source: Y107610-08			Prepared: 08/02/2021 Analyzed: 08/04/2021					
Selenium	3.88	0.103	mg/Kg	4.9	0.537	68	75-125			*
Silver	0.485	0.0067	"	0.49	0.0389	99	75-125			
Nickel	13.6	0.0633	"	2.45	11.6	82	75-125			
Lead	9.64	0.031	"	2.45	8.27	56	75-125			*
Copper	9.97	0.0806	"	2.45	8.32	67	75-125			*
Cadmium	0.551	0.0259	"	0.49	0.0978	112	75-125			
Barium	66.1	0.042	"	4.9	80	NR	75-125			*
Arsenic	3.25	0.0855	"	2.45	1.84	58	75-125			*
Zinc	53.8	0.534	"	24.5	33.8	82	75-125			

LCS (LCS-L566929)		Prepared: 08/02/2021 Analyzed: 08/04/2021								
Arsenic	2.59	0.0855	mg/Kg	2.5		104	80-120			
Nickel	2.46	0.0633	"	2.5		98	80-120			
Lead	2.48	0.031	"	2.5		99	80-120			
Copper	2.51	0.0806	"	2.5		100	80-120			
Cadmium	0.479	0.0259	"	0.5		96	80-120			

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.

WSP USA
 4600 W. 60th Ave.
 Arvada CO 80003

Brian Sulzberger
 Project Number: 31403177.85
 Project: KMG - Williams 36-20

Total Metals by 6020B - Quality Control
Waypoint Analytical, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L566929 - 3050B

LCS (LCS-L566929)

Prepared: 08/02/2021 Analyzed: 08/04/2021

Barium	5.09	0.042	mg/Kg	5		102	80-120			
Selenium	5.14	0.103	"	5		103	80-120			
Zinc	24.6	0.534	"	25		98	80-120			
Silver	0.491	0.0067	"	0.5		98	80-120			

LRB (LRB-L566929)

Prepared: 08/02/2021 Analyzed: 08/04/2021

Zinc	ND	2.5	mg/Kg				-			
Cadmium	ND	0.25	"				-			
Silver	ND	0.25	"				-			
Selenium	ND	0.25	"				-			
Nickel	ND	0.25	"				-			
Copper	ND	0.25	"				-			
Barium	ND	0.25	"				-			
Arsenic	ND	0.25	"				-			
Lead	ND	0.25	"				-			

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.

WSP USA
 4600 W. 60th Ave.
 Arvada CO 80003

Brian Sulzberger
 Project Number: 31403177.85
 Project: KMG - Williams 36-20

Total Metals by 7196A - Quality Control
Waypoint Analytical, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L566998 -										
DUP (L 97225-DUP)		Source: 97225			Prepared: Analyzed: 08/03/2021					
Chromium, Hexavalent	ND	0.244	mg/Kg		<0.500		-	0	20	
MS (L 97225-MS)		Source: 97225			Prepared: Analyzed: 08/03/2021					
Chromium, Hexavalent	6.36	0.244	mg/Kg	7.98	<0.244	80	75-125			
LCS (LCS)					Prepared: Analyzed: 08/03/2021					
Chromium, Hexavalent	6.82	0.244	mg/Kg	8		85	75-125			
LRB (LRB)					Prepared: Analyzed: 08/03/2021					
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

Origins Laboratory, Inc.



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WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.85
Project: KMG - Williams 36-20

Notes and Definitions

U Sample is Non-Detect.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

J Estimated Value. Analyte below reported quantitation limit.

* QC Failure

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on 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.

August 23, 2021

WSP USA

Brian Sulzberger

4600 W. 60th Ave.

Arvada CO 80003

Project Name - KMG - Williams 18-29 & Williams 36-20 **Project Number - 31403177.85**

Attached are your analytical results for KMG - Williams 18-29 & Williams 36-20 received by Origins Laboratory, Inc. August 16, 2021. This project is associated with Origins project number Y108343-01.

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



WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.85
Project: KMG - Williams 18-29 & Williams 36-20

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
N02@7'	Y108343-01	Soil	August 16, 2021 10:30	08/16/2021 14:58
S02@7'	Y108343-02	Soil	August 16, 2021 10:37	08/16/2021 14:58

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.

WSP USA
 4600 W. 60th Ave.
 Arvada CO 80003

Brian Sulzberger
 Project Number: 31403177.85
 Project: KMG - Williams 18-29 & Williams 36-20

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

Sample Receipt Checklist

Origins Work Order: Y/08343 Client: WSP
 Client Project ID: Williams 18-29, 36-20

Checklist Completed by: JG Shipped Via: HD
 Date/time completed: 8/16/21 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: N/A

Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____
 Cooler Number/Temperature: 1, 5.1 °C / _____ °C / _____ °C / _____ °C (Describe)
 Thermometer ID: T003

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽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"/>			
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 8/16/21

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.

WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.85
Project: KMG - Williams 18-29 & Williams 36-20

N02@7'

8/16/2021 10:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y108343-01 (Soil)

Total Metals by 6020B

Selenium	0.494	0.103	0.25	mg/Kg	5	L569811	08/18/2021	08/22/2021	
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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.

WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.85
Project: KMG - Williams 18-29 & Williams 36-20

S02@7'

8/16/2021 10:37:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y108343-02 (Soil)

Total Metals by 6020B

Selenium	0.476	0.103	0.25	mg/Kg	5	L569811	08/18/2021	08/22/2021	
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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.

WSP USA
 4600 W. 60th Ave.
 Arvada CO 80003

Brian Sulzberger
 Project Number: 31403177.85
 Project: KMG - Williams 18-29 & Williams 36-20

Total Metals by 6020B - Quality Control
Waypoint Analytical, LLC.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L569811 - 3050B										
MSD (L 92295-MSD-L569811)			Source: 92295			Prepared: 08/18/2021 Analyzed: 08/22/2021				
Selenium	3.92	0.103	mg/Kg	4.84	0.277	75	75-125	4	80	
MS (L 92295-MS-L569811)			Source: 92295			Prepared: 08/18/2021 Analyzed: 08/22/2021				
Selenium	4.08	0.103	mg/Kg	4.8	0.277	79	75-125			
LCS (LCS-L569811)						Prepared: 08/18/2021 Analyzed: 08/22/2021				
Selenium	5.07	0.103	mg/Kg	5		101	80-120			
LRB (LRB-L569811)						Prepared: 08/18/2021 Analyzed: 08/22/2021				
Selenium	ND	0.25	mg/Kg				-			

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.

WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.85
Project: KMG - Williams 18-29 & Williams 36-20

Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on 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.



August 30, 2021

WSP USA

Macy Kiel

4600 W. 60th Ave.

Arvada

CO 80003

Project Name - KMG - Williams Pad

Project Number - 31403177.85.05

Attached are your analytical results for KMG - Williams Pad received by Origins Laboratory, Inc. August 19, 2021. This project is associated with Origins project number Y108415-01.

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

WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Macy Kiel
Project Number: 31403177.85.05
Project: KMG - Williams Pad

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW01	Y108415-01	Water	August 19, 2021 9:30	08/19/2021 14:48
MW01	Y108415-02	Water	August 19, 2021 9:30	08/19/2021 14:48
MW01	Y108415-03	Water	August 19, 2021 9:30	08/19/2021 14:48
MW02	Y108415-04	Water	August 19, 2021 9:45	08/19/2021 14:48
MW02	Y108415-05	Water	August 19, 2021 9:45	08/19/2021 14:48
MW02	Y108415-06	Water	August 19, 2021 9:45	08/19/2021 14:48
MW03	Y108415-07	Water	August 19, 2021 10:05	08/19/2021 14:48
MW03	Y108415-08	Water	August 19, 2021 10:05	08/19/2021 14:48
MW03	Y108415-09	Water	August 19, 2021 10:05	08/19/2021 14:48

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.

WSP USA
 4600 W. 60th Ave.
 Arvada CO 80003

Macy Kiel
 Project Number: 31403177.85.05
 Project: KMG - Williams Pad

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y108415 Client: WSP
 Client Project ID: Williams Pgd
 Checklist Completed by: JG Shipped Via: HD
 Date/time completed: 8/19/21 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: N/A
 Matrix(s) Received: (Check all that apply): Soil/Solid Water Other:
 Cooler Number/Temperature: 1 / 4.1 °C / °C / °C (Describe) °C
 Thermometer ID: T003

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽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"/>			
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 JM (Project Manager)

8-20-21
 Date/Time Reviewed

Origins Laboratory, Inc.



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WSP USA
 4600 W. 60th Ave.
 Arvada CO 80003

Macy Kiel
 Project Number: 31403177.85.05
 Project: KMG - Williams Pad

MW01

8/19/2021 9:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y108415-01 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B1H1916	KDK	08/19/2021	08/20/2021	Ua
Toluene	ND	1.00	"	"	"	KDK	"	"	Ua
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	Ua
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	Ua
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130			"	"		"	
Surrogate: Toluene-d8	107 %	70-130			"	"		"	
Surrogate: 4-Bromofluorobenzene	91.9 %	70-130			"	"		"	

Origins Laboratory, Inc.



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WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Macy Kiel
Project Number: 31403177.85.05
Project: KMG - Williams Pad

MW01

8/19/2021 9:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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GEL Laboratories, LLC
Y108415-02 (Water)

GRO by 8015C

Gasoline Range Organics	ND	0.100	mg/L	1	2165612	JEB	08/19/2021	08/23/2021	U
Surrogate: Bromofluorobenzene	96 %	72-129			"	"	"	"	

Origins Laboratory, Inc.



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WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Macy Kiel
Project Number: 31403177.85.05
Project: KMG - Williams Pad

MW01

8/19/2021 9:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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GEL Laboratories, LLC
Y108415-03 (Water)

DRO/ORO by 8015C

Diesel Range Organics	ND	206	ug/L	1	2167150	RXC1	08/26/2021	08/27/2021	U
Motor Oil	332	206	"	"	"	RXC1	"	"	
Surrogate: o-Terphenyl	53 %		37-112			"	"	"	

Origins Laboratory, Inc.



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WSP USA
 4600 W. 60th Ave.
 Arvada CO 80003

Macy Kiel
 Project Number: 31403177.85.05
 Project: KMG - Williams Pad

MW02

8/19/2021 9:45:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y108415-04 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B1H1916	KDK	08/19/2021	08/20/2021	Ua
Toluene	ND	1.00	"	"	"	KDK	"	"	Ua
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	Ua
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	Ua
Surrogate: 1,2-Dichloroethane-d4	104 %	70-130			"	"		"	
Surrogate: Toluene-d8	107 %	70-130			"	"		"	
Surrogate: 4-Bromofluorobenzene	92.0 %	70-130			"	"		"	

Origins Laboratory, Inc.



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WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Macy Kiel
Project Number: 31403177.85.05
Project: KMG - Williams Pad

MW02

8/19/2021 9:45:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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GEL Laboratories, LLC
Y108415-05 (Water)

GRO by 8015C

Gasoline Range Organics	ND	0.100	mg/L	1	2165612	JEB	08/19/2021	08/23/2021	U
Surrogate: Bromofluorobenzene	91 %	72-129			"	"	"	"	

Origins Laboratory, Inc.



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WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Macy Kiel
Project Number: 31403177.85.05
Project: KMG - Williams Pad

MW02

8/19/2021 9:45:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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GEL Laboratories, LLC
Y108415-06 (Water)

DRO/ORO by 8015C

Diesel Range Organics	133	286	ug/L	1	2166293	RXC1	08/25/2021	08/26/2021	J
Motor Oil	639	286	"	"	"	RXC1	"	"	

Surrogate: o-Terphenyl	30 %	37-112			"	"	"	"	
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Origins Laboratory, Inc.



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WSP USA
 4600 W. 60th Ave.
 Arvada CO 80003

Macy Kiel
 Project Number: 31403177.85.05
 Project: KMG - Williams Pad

MW03

8/19/2021 10:05:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y108415-07 (Water)

BTEX by EPA 8260D

Benzene	ND	1.00	ug/L	1	B1H1916	KDK	08/19/2021	08/20/2021	Ua
Toluene	ND	1.00	"	"	"	KDK	"	"	Ua
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	Ua
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	Ua
Surrogate: 1,2-Dichloroethane-d4	107 %	70-130			"	"		"	
Surrogate: Toluene-d8	105 %	70-130			"	"		"	
Surrogate: 4-Bromofluorobenzene	93.3 %	70-130			"	"		"	

Origins Laboratory, Inc.



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WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Macy Kiel
Project Number: 31403177.85.05
Project: KMG - Williams Pad

MW03

8/19/2021 10:05:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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GEL Laboratories, LLC
Y108415-08 (Water)

GRO by 8015C

Gasoline Range Organics	ND	0.100	mg/L	1	2165612	JEB	08/19/2021	08/23/2021	U
Surrogate: Bromofluorobenzene	99 %	72-129			"	"	"	"	

Origins Laboratory, Inc.



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WSP USA
 4600 W. 60th Ave.
 Arvada CO 80003

Macy Kiel
 Project Number: 31403177.85.05
 Project: KMG - Williams Pad

MW03

8/19/2021 10:05:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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GEL Laboratories, LLC
Y108415-09 (Water)

DRO/ORO by 8015C

Diesel Range Organics	ND	213	ug/L	1	2167150	RXC1	08/26/2021	08/27/2021	U
Motor Oil	137	213	"	"	"	RXC1	"	"	J
Surrogate: o-Terphenyl	52 %	37-112				"	"	"	

Origins Laboratory, Inc.



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WSP USA
 4600 W. 60th Ave.
 Arvada CO 80003

Macy Kiel
 Project Number: 31403177.85.05
 Project: KMG - Williams Pad

Volatile Organic Compounds by GC/MS SW846 8260D - 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 B1H1916 - EPA 5030B (Water)

Blank (B1H1916-BLK1)

Prepared: 08/19/2021 Analyzed: 08/20/2021

Benzene	ND	1.00	ug/L							Ua
Toluene	ND	1.00	"							Ua
Ethylbenzene	ND	1.00	"							Ua
Xylenes, total	ND	1.00	"							Ua
Surrogate: 1,2-Dichloroethane-d4	62		"	62.5		99.0	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	57		"	62.5		91.4	70-130			

Origins Laboratory, Inc.



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WSP USA
 4600 W. 60th Ave.
 Arvada CO 80003

Macy Kiel
 Project Number: 31403177.85.05
 Project: KMG - Williams Pad

Volatile Organic Compounds by GC/MS SW846 8260D - 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 B1H1916 - EPA 5030B (Water)

LCS (B1H1916-BS1)

Prepared: 08/19/2021 Analyzed: 08/20/2021

Benzene	48.7	1.00	ug/L	50.0		97.4	70-130			
Toluene	50.2	1.00	"	50.0		100	70-130			
Ethylbenzene	48.8	1.00	"	50.0		97.5	70-130			
m,p-Xylene	98.8	2.00	"	100		98.8	70-130			
o-Xylene	51.7	1.00	"	50.0		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	63		"	62.5		100	70-130			
Surrogate: Toluene-d8	66		"	62.5		105	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		95.5	70-130			

Origins Laboratory, Inc.



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WSP USA
 4600 W. 60th Ave.
 Arvada CO 80003

Macy Kiel
 Project Number: 31403177.85.05
 Project: KMG - Williams Pad

Volatile Organic Compounds by GC/MS SW846 8260D - 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 B1H1916 - EPA 5030B (Water)

Matrix Spike (B1H1916-MS1)	Source: Y108385-10			Prepared: 08/19/2021 Analyzed: 08/20/2021						
Benzene	41.6	1.00	ug/L	50.0	83.3	70-130				
Toluene	41.6	1.00	"	50.0	83.2	70-130				
Ethylbenzene	39.8	1.00	"	50.0	79.5	70-130				
m,p-Xylene	82.8	2.00	"	100	82.8	70-130				
o-Xylene	46.8	1.00	"	50.0	93.7	70-130				
Surrogate: 1,2-Dichloroethane-d4	64		"	62.5	102	70-130				
Surrogate: Toluene-d8	64		"	62.5	103	70-130				
Surrogate: 4-Bromofluorobenzene	59		"	62.5	95.2	70-130				

Origins Laboratory, Inc.



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WSP USA
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 Arvada CO 80003

Macy Kiel
 Project Number: 31403177.85.05
 Project: KMG - Williams Pad

Volatile Organic Compounds by GC/MS SW846 8260D - 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 B1H1916 - EPA 5030B (Water)

Matrix Spike Dup (B1H1916-MSD1)	Source: Y108385-10			Prepared: 08/19/2021 Analyzed: 08/20/2021						
Benzene	43.9	1.00	ug/L	50.0	87.7	70-130	5.22	20		
Toluene	43.4	1.00	"	50.0	86.8	70-130	4.26	20		
Ethylbenzene	41.4	1.00	"	50.0	82.9	70-130	4.09	20		
m,p-Xylene	84.8	2.00	"	100	84.8	70-130	2.40	20		
o-Xylene	47.6	1.00	"	50.0	95.3	70-130	1.71	20		
Surrogate: 1,2-Dichloroethane-d4	64		"	62.5	103	70-130				
Surrogate: Toluene-d8	64		"	62.5	102	70-130				
Surrogate: 4-Bromofluorobenzene	59		"	62.5	95.1	70-130				

Origins Laboratory, Inc.



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WSP USA
 4600 W. 60th Ave.
 Arvada CO 80003

Macy Kiel
 Project Number: 31403177.85.05
 Project: KMG - Williams Pad

Volatile Organic Compounds by GC/MS SW846 8260D - 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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DRO/ORO by 8015C - Quality Control
GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2166293 - SW846 3535A

LCS (1204894884-BKS)

Prepared: 08/25/2021 Analyzed: 08/25/2021

Diesel Range Organics	1600	200	ug/L	2000		80	40-107			
Motor Oil	1910	200	"	2000		95	55-129			
Surrogate: o-Terphenyl	17.9		"	20.0		89	37-112			

LCSD (1204894885-BKSD)

Prepared: 08/25/2021 Analyzed: 08/26/2021

Diesel Range Organics	1460	200	ug/L	2000		73	40-107	9	32	
Motor Oil	1780	200	"	2000		89	55-129	7	30	
Surrogate: o-Terphenyl	15.7		"	20.0		78	37-112			

Batch 2167150 - SW846 3535A

BLANK (1204896725-BLK)

Prepared: 08/26/2021 Analyzed: 08/27/2021

Diesel Range Organics	ND	200	ug/L				-			U
Motor Oil	ND	200	"				-			U
Surrogate: o-Terphenyl	16.2		"	20.0		81	37-112			

LCS (1204896726-BKS)

Prepared: 08/26/2021 Analyzed: 08/27/2021

Diesel Range Organics	1150	200	ug/L	2000		58	40-107			
Motor Oil	1320	200	"	2000		66	55-129			
Surrogate: o-Terphenyl	12.3		"	20.0		61	37-112			

LCSD (1204896727-BKSD)

Prepared: 08/26/2021 Analyzed: 08/27/2021

Origins Laboratory, Inc.



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WSP USA
 4600 W. 60th Ave.
 Arvada CO 80003

Macy Kiel
 Project Number: 31403177.85.05
 Project: KMG - Williams Pad

DRO/ORO by 8015C - Quality Control
GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2167150 - SW846 3535A										
LCSD (1204896727-BKSD)					Prepared: 08/26/2021 Analyzed: 08/27/2021					
Diesel Range Organics	1400	200	ug/L	2000		70	40-107	20	32	
Motor Oil	1690	200	"	2000		85	55-129	25	30	
Surrogate: o-Terphenyl	15.4		"	20.0		77	37-112			

Origins Laboratory, Inc.



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WSP USA
 4600 W. 60th Ave.
 Arvada CO 80003

Macy Kiel
 Project Number: 31403177.85.05
 Project: KMG - Williams Pad

GRO by 8015C - Quality Control
GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2165612 -										
LCS (1204893921-BKS)					Prepared: Analyzed: 08/23/2021					
Gasoline Range Organics	0.429	0.100	mg/L	0.500		86	80-120			
Surrogate: Bromofluorobenzene	0.0473		"	0.0500		95	72-129			
BLANK (1204893922-BLK)					Prepared: Analyzed: 08/23/2021					
Gasoline Range Organics	ND	0.100	mg/L				-			U
Surrogate: Bromofluorobenzene	0.0497		"	0.0500		99	72-129			
PS (1204893923 S)					Source: Y108415-02 Prepared: Analyzed: 08/23/2021					
Gasoline Range Organics	0.476	0.100	mg/L	0.500		95	63-131			
Surrogate: Bromofluorobenzene	0.0503		"	0.0500		101	72-129			
PSD (1204893924 SD)					Source: Y108415-02 Prepared: Analyzed: 08/23/2021					
Gasoline Range Organics	0.503	0.100	mg/L	0.500		101	63-131	5	30	
Surrogate: Bromofluorobenzene	0.0484		"	0.0500		97	72-129			

Origins Laboratory, Inc.



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WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Macy Kiel
Project Number: 31403177.85.05
Project: KMG - Williams Pad

Notes and Definitions

- Ua Sample is Non-Detect.
- U Result not detected above the detection limit
- J Greater than the detection limit but less than the reporting limit
- 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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