

Wellhead Closure Checklist

COGCC Rule 911.a.(4) Environmental Site Closure Assessment Field Form

Additional attachments (optional):		Pit Closure <u> </u>		Tank Battery Closure <u> </u>		Flowline Closure <u> </u>		Partially Buried Vault Closure <u> </u>	
Site Name & COGCC Facility Number: Spike State GWS CC #30-02		Date: 04/05/23					Remediation Project #: 26817		
Associated Wells: 05-123-15820		Age of Site: Years					Number of Photos Attached: 1		
Location: (GPS coordinates of wellhead or southeastern most wellhead for multiple)						40.288581 / -104.477922			
General Condition of Site: (General observations regarding housekeeping, corrosion, waste management, etc.) Good Condition									
USCS Soil Type: Clayey SAND				Estimated Depth to Groundwater: Approx. 20-30'					
Hydrocarbon Impacted Soils / Spills: (Note estimated size and if impact appears to be surficial or extends to an unknown depth) None observed.									
Salt Crusted Soils or Impacted Vegetation: (Note estimated size and if impact appears to be surficial or extends to an unknown depth) None observed.									
Wellhead(s)									
Well API	05-123-15820								
Age	Years								
Condition of surface around wellhead	Good - Per Crew								
PID Readings	N/A - Excavated Upon Arrival								
Condition of subsurface (staining present)	Good - No Odor/Staining								
PID Readings	0.1	0.3	0.2	0.1	0.7				
Sample taken? Location/Sample ID#	WH-SS-01	WH-SS-02	WH-SS-03	WH-SS-04	WH-FS-01				
Photo Number(s)	See photolog								
Other observations regarding wellheads: Well casing cut/capped following assessment.									
Summary									
Was impacted soil identified? <input checked="" type="checkbox"/> No Yes - less than 10 cubic yards Yes - more than 10 cubic yards									
Total number of samples field screened: 5				Total number of samples collected: 5					
Highest PID Reading: 0.7				Total number of samples submitted to lab for analysis: 1					
If more than 10 cubic yards of impacted soil were observed:									
Vertical extent:				Estimated spill volume:					
N/A				Volume of soil removed:					
Is additional investigation required?									
Was groundwater encountered during the investigation? <input checked="" type="checkbox"/> No Yes - not impacted or in contact with impacted soils Yes - groundwater impacted and/or in contact with impacted soils									
Measured depth to groundwater:				Was remedial groundwater removal conducted? Yes No					
Date Groundwater was encountered:				Commencement date of removal:					
Sheen on groundwater? Yes No				Volume of groundwater removed prior to sampling:					
Free product observed? Yes No				N/A					
Total number of samples collected:				Total Volume of groundwater removed:					
Total number of samples submitted to lab for analysis:									

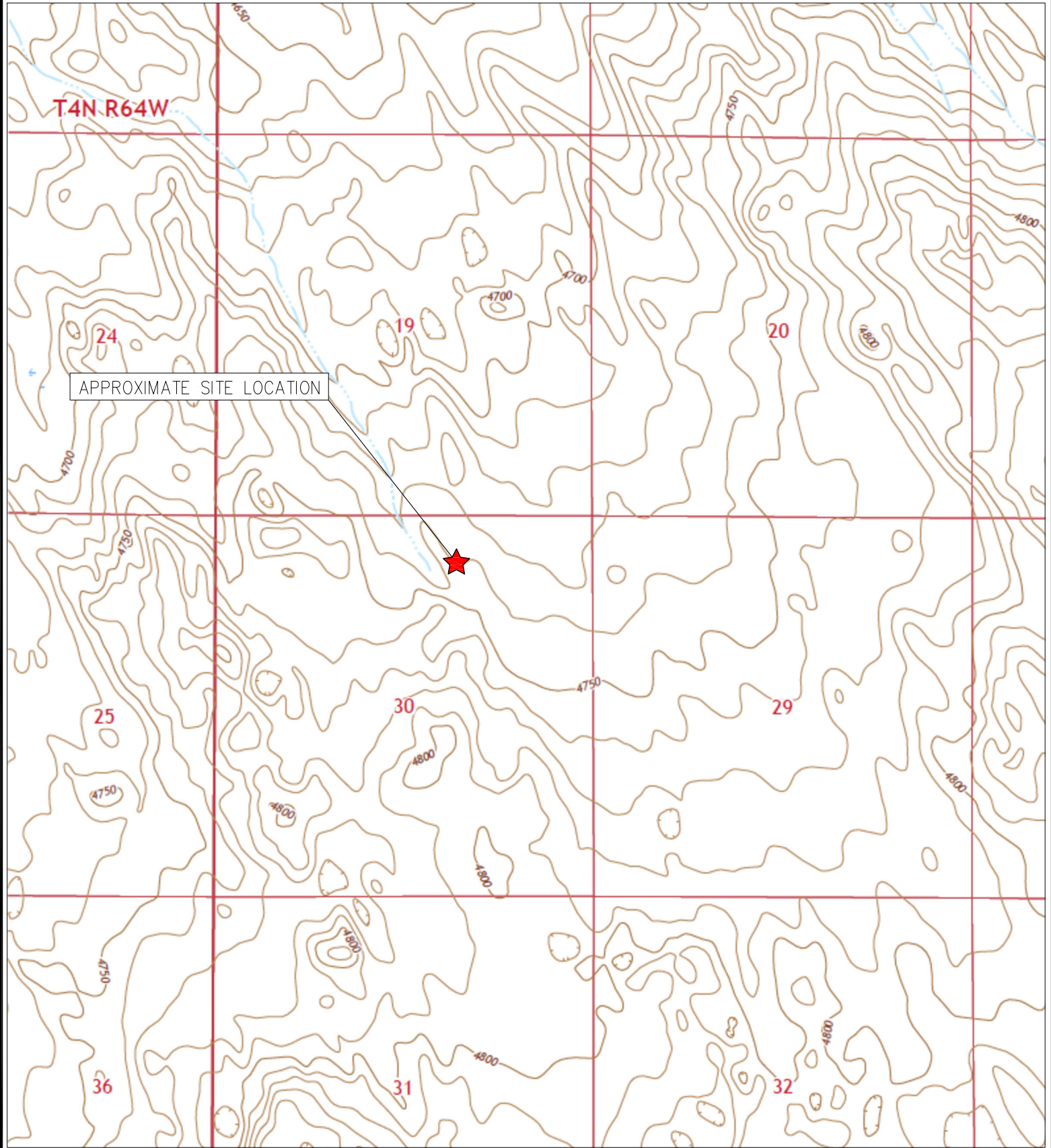


FIGURES

Figure 1: Topographic Site Location Map

Figure 2: Aerial Site Location Map

Figure 3: Soil Analytical Map



TOPOGRAPHIC SITE LOCATION MAP
 SPIKE SATE GWS CC #30-02
 CLOSURE ASSESSMENT
 40.288581 / -104.477922
 NW¼ NE¼ SEC.30 T4N R63W 6PM
 WELD COUNTY, COLORADO
 API # 05-123-15820
 REMEDIATION # 26817



EAGLE
 ENVIRONMENTAL
 CONSULTING, LLC

8000 W 44th Ave, Wheat Ridge, CO 80033
 Ph: 303-433-0479 • F: 303-325-5449

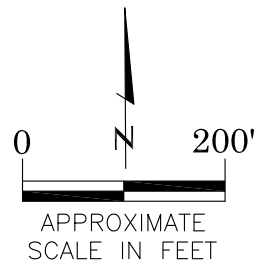
SOURCE: USGS 7.5 MINUTE TOPOGRAPHIC MAP
 HARDIN, CO QUADRANGLE 2022

FIGURE NO. 1



LEGEND

- FORMER SPIKE STATE GWS CC #30-02 WELLHEAD (PLUGGED AND ABANDONED)
- ASSOCIATED SEPARATOR
- APPROXIMATE FLOWLINE LOCATION



AERIAL SITE LOCATION MAP
 SPIKE STATE GWS CC #30-02
 CLOSURE ASSESSMENT
 40.288581 / -104.477922
 NW¼ NE¼ SEC.30 T4N R63W 6PM
 WELD COUNTY, COLORADO
 API # 05-123-15820
 REMEDIATION # 26817

FIGURE NO.
2

DRAWN BY:
CT



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LEGEND

- WELLHEAD ASSESSMENT BOUNDARIES
- SS-02 APPROXIMATE LOCATION OF SOIL SAMPLES FIELD SCREENED, ONLY, WITH PHOTOIONIZATION DETECTOR
- SS-02 APPROXIMATE LOCATION OF SOIL SAMPLES SUBMITTED FOR LABORATORY ANALYSIS

PARAMETERS

SAMPLE LOCATION
 DATE
 DEPTH (FEET)
 B = BENZENE (mg/kg)
 T = TOLUENE (mg/kg)
 E = ETHYLBENZENE (mg/kg)
 X = TOTAL XYLENES (mg/kg)
 G = TPH-GRO (mg/kg)
 D = TPH-DRO (mg/kg)
 R = TPH-RRO (mg/kg)
 1,2,4-TMB = 1,2,4 TRIMETHYLBENZENE (mg/kg)
 1,3,5-TMB = 1,3,5 TRIMETHYLBENZENE (mg/kg)
 Brn= BORON (mg/L)
 EC = SPECIFIC CONDUCTANCE (mmhos/cm)
 SAR= SODIUM ADSORPTION RATIO
 pH = pH (pH UNITS)
 POLYCYCLIC AROMATIC HYDROCARBONS (PAHs) (mg/kg)

mg/kg = MILLIGRAMS PER KILOGRAM
 mg/L = MILLIGRAMS PER LITER
 mmhos/cm = MILLIMHOS PER CENTIMETER

BRL = BELOW REGULATORY LIMITS

TPH-GRO = TOTAL PETROLEUM HYDROCARBONS - GASOLINE RANGE ORGANICS
 TPH-DRO = TOTAL PETROLEUM HYDROCARBONS - DIESEL RANGE ORGANICS
 TPH-RRO = TOTAL PETROLEUM HYDROCARBONS - RESIDUAL RANGE ORGANICS

NOTES:
 LABORATORY RERUNS WERE COMPLETED AS APPLICABLE ON SAMPLES WITH SOIL SUITABILITY VALUES OUTSIDE OF ECMC TABLE 915-1 REGULATORY RANGE. RESULTS OF THE RERUNS ARE PRESENTED IN PARENTHESES.

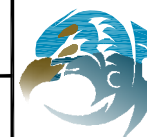
VALUES PRESENTED IN **BOLD** EXCEED ECMC TABLE 915-1 REGULATORY LIMITS.

ECMC = ENERGY & CARBON MANAGEMENT COMMISSION

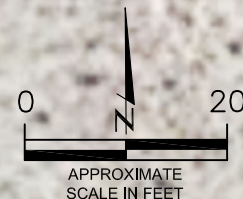
SOIL ANALYTICAL MAP
 SPIKE STATE GWS CC #30-02
 CLOSURE ASSESSMENT
 40.288581 / -104.477922
 NW¼ NE¼ SEC.30 T4N R63W 6PM
 WELD COUNTY, COLORADO
 API # 05-123-15820
 REMEDIATION # 26817

FIGURE NO.
3

DRAWN BY:
TC



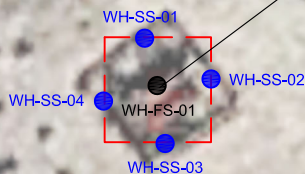
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 Ph: 303-433-0479 • F: 303-325-5449



BACKGROUND-01@2'
 04/05/23
 2'
 pH = **4.61**

BACKGROUND-01

WH-FS-01@6'
 04/05/23
 6'
 pH = **8.45** (8.26/8.10)
 ALL OTHERS = BRL





TABLES

Table 1: Photoionization Detector Reading Summary

Table 2: Soil Analytical Results Summary

TABLE 1
PHOTOIONIZATION DETECTOR READING SUMMARY
SPIKE STATE GWS CC #30-02
CLOSURE ASSESSMENT
40.288581 / -104.477922
NW¼ NE¼ SEC.30 T4N R63W 6PM
WELD COUNTY, COLORADO
API # 05-123-15820
REMEDIATION # 26817

Sample Location (Latitude/Longitude)	Date	Approximate Depth (feet)	PID Reading (ppm-v)	Lab Submission (Y/N)
WH-SS-01 @ 5' (40.288595 / -104.477922)	04/05/23	5	0.1	N
WH-SS-02 @ 5' (40.288583 / -104.477898)	04/05/23	5	0.3	N
WH-SS-03 @ 5' (40.288567 / -104.477914)	04/05/23	5	0.2	N
WH-SS-04 @ 5' (40.288578 / -104.477934)	04/05/23	5	0.1	N
WH-FS-01 @ 6' (40.288581 / -104.477917)	04/05/23	6	0.7	Y
Background-01 @ 2' (40.288626 / -104.477969)	04/05/23	2	0.2	Y
(Y/N) = Yes or No ppm-v = parts per million by volume PID = Photoionization Detector				



TABLE 2
SOIL ANALYTICAL RESULTS SUMMARY
SPIKE STATE GWS CC #30-02
CLOSURE ASSESSMENT
40.288581 / -104.477922
NW¼ NE¼ SEC.30 T4N R63W 6PM
WELD COUNTY, COLORADO
API # 05-123-15820
REMEDIAION # 26817

Sample Location (Latitude / Longitude)		WH-FS-01 @ 6'		Background-01 @ 2'	
		(40.288581 / -104.477917)		(40.288626 / -104.477969)	
Sample Date		4/5/2023		4/5/2023	
Sample Depth		6'		2'	
PID Reading (ppm-v)		0.7		0.2	
Regulatory Limits					
Chemical of Concern	Units	ECMC Table 915-1 RSSLs	ECMC Table 915-1 GSSLs		
VOCs					
Benzene	mg/kg	1.2	0.0026	<0.00200	NA
Toluene	mg/kg	490	0.69	<0.00200	NA
Ethylbenzene	mg/kg	5.8	0.78	<0.00200	NA
Total Xylenes	mg/kg	58	9.9	<0.00200	NA
1,2,4-Trimethylbenzene	mg/kg	30	0.0081	<0.00200	NA
1,3,5-Trimethylbenzene	mg/kg	27	0.0087	<0.00200	NA
TOTAL PETROLEUM HYDROCARBONS					
TPH-GRO	mg/kg	500	--	<0.200	NA
TPH-DRO	mg/kg	500	--	<25.0	NA
TPH-RRO	mg/kg	500	--	<100	NA
POLYCYCLIC AROMATIC HYDROCARBONS					
1-Methyl-naphthalene	mg/kg	18	0.006	<0.00201	NA
2-Methyl-naphthalene	mg/kg	24	0.019	<0.00201	NA
Acenaphthene	mg/kg	360	0.55	<0.00067	NA
Anthracene	mg/kg	1800	5.8	<0.00067	NA
Benzo(a)-anthracene	mg/kg	1.1	0.011	<0.00067	NA
Benzo(a)-pyrene	mg/kg	0.11	0.24	<0.00067	NA
Benzo(b)-fluoranthene	mg/kg	1.1	0.3	<0.00067	NA
Benzo(k)-fluoranthene	mg/kg	11	2.9	<0.00067	NA
Chrysene	mg/kg	110	9	<0.00067	NA
Dibenzo(a,h)-anthracene	mg/kg	0.11	0.096	<0.00067	NA
Fluoranthene	mg/kg	240	8.9	<0.00067	NA
Fluorene	mg/kg	240	0.54	0.0003	NA
Indeno(1,2,3-cd)-pyrene	mg/kg	1.1	0.98	<0.00067	NA
Naphthalene	mg/kg	2	0.0038	<0.00201	NA
Pyrene	mg/kg	180	1.3	<0.00067	NA
SOIL SUITABILITY (Inorganics)					
Boron	mg/L	2	--	0.121	NA
pH	standard unit	6-8.3	--	8.45 (8.26/8.10)	4.61
Sodium Adsorption Ratio (SAR)	--	<6	--	0.676	NA
Specific Conductance (EC)	mmhos/cm	<4	--	0.436	NA
ECMC - Energy & Carbon Management Commission		NA - Not Analyzed		VOCs - Volatile Organic Compounds	
mg/kg = milligrams per kilogram					
mmhos/cm = millimhos per centimeter		RSSLs = Residential Soil Screening Levels			
PID = Photoionization Detector		GSSLs = Protection of Groundwater Soil Screening Levels			
ppm-v = parts per million by volume		TPH-GRO = Total Petroleum Hydrocarbons - Gasoline Range Organics			
mg/L = milligrams per liter		TPH-DRO = Total Petroleum Hydrocarbons - Diesel Range Organics			
SAR = Sodium Adsorption Ratio		TPH-RRO = Total Petroleum Hydrocarbons - Residual Range Organics			
Laboratory reruns were completed as applicable on samples with soil suitability values outside of ECMC Table 915-1 regulatory range. Results of the reruns are presented in parentheses.					
Notes:					
Values presented with a less than symbol (<) did not contain concentrations at or above the laboratory reporting limit and/or minimum detection limit.					
Values presented in BOLD exceed ECMC Table 915-1 Regulatory Limits.					





ATTACHMENT A

Photo Log

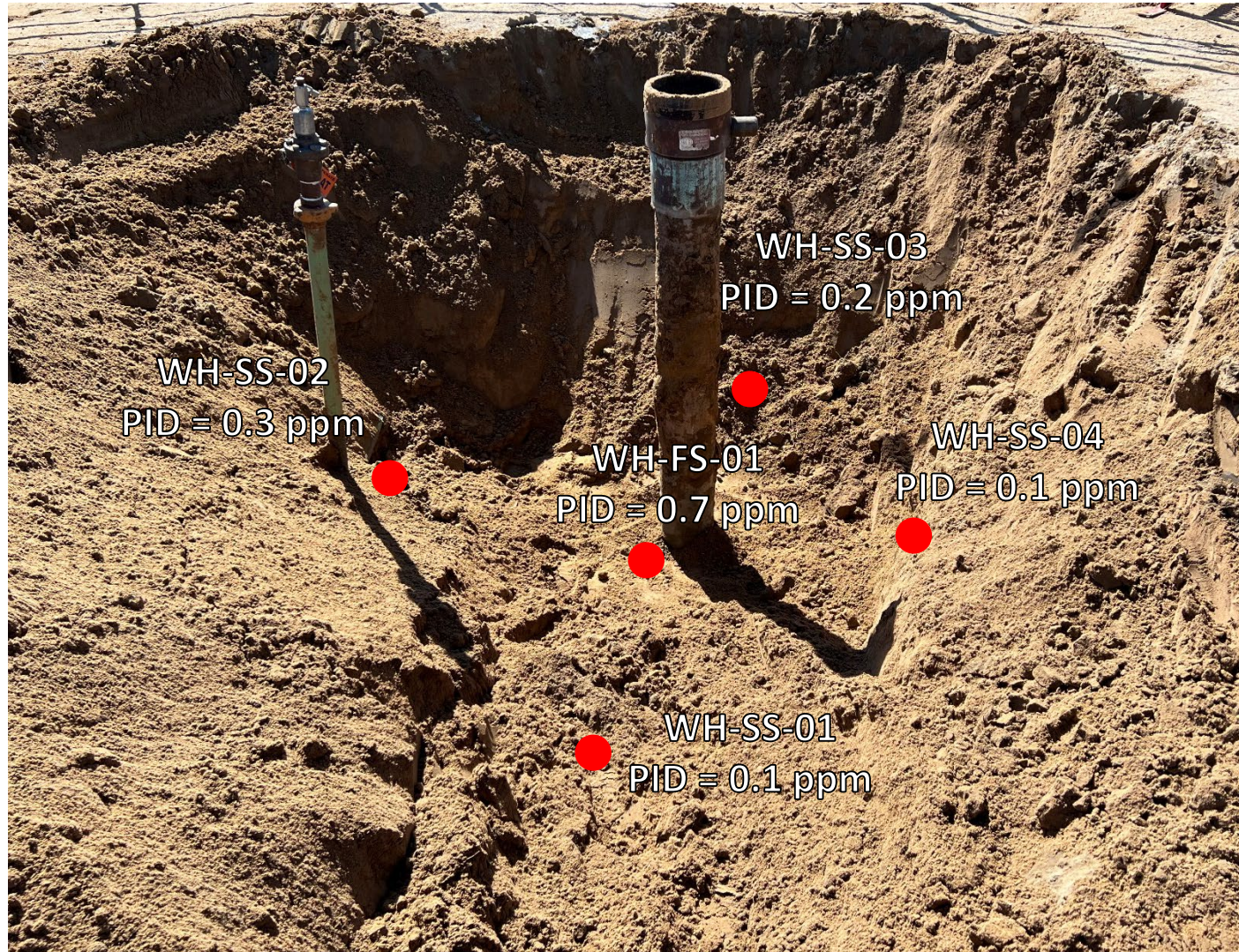
Spike State GWS CC #30-02
API # 05-123-15820
Remediation # 26817

Closure Assessment

April 2023



Wellhead Excavation – 04/05/23



Looking south-southeast

No petroleum hydrocarbon staining or odor observed



ATTACHMENT B

Laboratory Analytical Reports



April 20, 2023

Eagle Environmental Consulting, LLC

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - Spike State GWS CC
#30-02

Project Number - [none]

Attached are your analytical results for Noble - Spike State GWS CC #30-02 received by Origins Laboratory, Inc. April 05, 2023. This project is associated with Origins project number Y304101-01.

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

Eagle Environmental Consulting, LLC
8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Noble - Spike State GWS CC #30-02

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH-FS-01@6'	Y304101-01	Soil	April 5, 2023 10:54	04/05/2023 15:26

pH rerun requested per Grace's email on 04/17/2023, all three results are reported. JAB

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.

Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Spike State GWS CC #30-02

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4304101

Client: Eagle Environ.
 Client Project ID: Spike St. GWS CC #30-02

Checklist Completed by: JSE/EMS

Shipped Via: FED
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: na

Date/time completed: 4/10/12

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

Cooler Number/Temperature: 1, 4 °C / _____ °C / _____ °C / _____ °C

Thermometer ID: 1004

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	/			
Is there ice present (document if blue ice is used)	/			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		/		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		/		
Were all samples received intact ⁽¹⁾ ?	/			
Was adequate sample volume provided ⁽¹⁾ ?	/			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		/		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	/			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	/			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	/			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	/			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			/	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH < 2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄) / (pH > 10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)			/	
Additional Comments (if any):				

⁽¹⁾IF NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.

Reviewed by: JB (Project Manager) Date/Time Reviewed: 4-7-12

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Spike State GWS CC #30-02

WH-FS-01@6'
4/5/2023 10:54:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y304101-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.121		0.0993	mg/L	1	B3D0709	04/07/2023	04/12/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B3D0602	04/06/2023	04/12/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	105 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3D1104	04/11/2023	04/11/2023	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	81.2 %		70-130			"	"	"	
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Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Spike State GWS CC #30-02

WH-FS-01@6'
4/5/2023 10:54:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	---------------------	-----------------	-------	----------	-------	----------	----------	-------

Origins Laboratory, Inc.
Y304101-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	89.7 %		70-130			B3D11 04	04/11/2023	04/11/2023	
Surrogate: 4-Bromofluorobenzene	99.1 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	2.26		0.499	meq/L	10	[CALC]	04/07/2023	04/12/2023	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	0.791		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L675319	04/11/2023	04/11/2023	
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"	
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"	
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	ND	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"	

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Spike State GWS CC #30-02

WH-FS-01@6'
4/5/2023 10:54:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	---------------------	-----------------	-------	----------	-------	----------	----------	-------

Waypoint Analytical, LLC.
Y304101-01 (Soil)

PAH by 8270D SIM

Fluorene	0.0003	0.000286	0.00067	mg/Kg	1	L675319	04/11/2023	04/11/2023	J
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"	
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"	
Pyrene	ND	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	46.4 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	53 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	49.1 %		29-110			"	"	"	

pH in Soil by 9045D

pH	8.45			pH Units	1	B3D0715	04/07/2023	04/08/2023	
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SAR by 20B Saturated Paste

SAR	0.676			SAR	1	B3D0711	04/07/2023	04/12/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.436		0.00500	mmhos/cm	1	B3D0715	04/07/2023	04/08/2023	
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Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC
8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Noble - Spike State GWS CC #30-02

WH-FS-01@6'

4/5/2023 10:54:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	---------------------	-----------------	-------	----------	-------	----------	----------	-------

Origins Laboratory, Inc.
Y304101-01RE1 (Soil)

pH in Soil by 9045D

pH	8.10			pH Units	1	B3D1821	04/07/2023	04/19/2023	
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Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC
8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Noble - Spike State GWS CC #30-02

WH-FS-01@6'

4/5/2023 10:54:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y304101-01RE2 (Soil)

pH in Soil by 9045D

pH	8.26			pH Units	1	B3D1821	04/07/2023	04/19/2023	
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Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Spike State GWS CC #30-02

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
Batch B3D0602 - EPA 3580										
Blank (B3D0602-BLK1)										
					Prepared: 04/06/2023 Analyzed: 04/12/2023					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	24		"	24.9		95.2	50-150			

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 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Spike State GWS CC #30-02

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 B3D0602 - EPA 3580

LCS (B3D0602-BS1)

Prepared: 04/06/2023 Analyzed: 04/12/2023

Diesel (C10-C28)	967	50.0	mg/kg	1000		96.7	70-130			
Residual Range Organics (C28-C40)	942	200	"	1000		94.2	70-130			
Surrogate: o-Terphenyl	48		"	49.8		97.2	50-150			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
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Martin C Eckert III
 Project Number: [none]
 Project: Noble - Spike State GWS CC #30-02

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 B3D0602 - EPA 3580

Matrix Spike (B3D0602-MS1)	Source: Y304100-01			Prepared: 04/06/2023 Analyzed: 04/12/2023						
Diesel (C10-C28)	965	50.0	mg/kg	1000	ND	96.5	70-130			
Residual Range Organics (C28-C40)	953	200	"	1000	ND	95.3	70-130			
Surrogate: o-Terphenyl	53		"	49.8		106	50-150			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC
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 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Spike State GWS CC #30-02

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 B3D0602 - EPA 3580

Matrix Spike Dup (B3D0602-MSD1)	Source: Y304100-01			Prepared: 04/06/2023 Analyzed: 04/12/2023						
Diesel (C10-C28)	1210	50.0	mg/kg	1000	ND	121	70-130	22.4	35	
Residual Range Organics (C28-C40)	1200	200	"	1000	ND	120	70-130	22.7	35	
<i>Surrogate: o-Terphenyl</i>	66		"	49.8		132	50-150			

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Martin C Eckert III
 Project Number: [none]
 Project: Noble - Spike State GWS CC #30-02

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 B3D1104 - EPA 5030 (soil)

Blank (B3D1104-BLK1)

Prepared: 04/11/2023 Analyzed: 04/11/2023

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.00380	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.087		"	0.125	70.0		70-130			
Surrogate: Toluene-d8	0.11		"	0.125	91.8		70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125	98.4		70-130			

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Martin C Eckert III
 Project Number: [none]
 Project: Noble - Spike State GWS CC #30-02

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 B3D1104 - EPA 5030 (soil)

LCS (B3D1104-BS1)

Prepared: 04/11/2023 Analyzed: 04/11/2023

1,2,4-Trimethylbenzene	0.0975	0.00200	mg/kg	0.100		97.5	70-130			
1,3,5-Trimethylbenzene	0.0953	0.00200	"	0.100		95.3	70-130			
Benzene	0.103	0.00200	"	0.100		103	70-130			
Ethylbenzene	0.0914	0.00200	"	0.100		91.4	70-130			
Naphthalene	0.117	0.00380	"	0.100		117	70-130			
Toluene	0.0855	0.00200	"	0.100		85.5	70-130			
o-Xylene	0.0901	0.00200	"	0.100		90.1	70-130			
m,p-Xylene	0.190	0.00400	"	0.200		95.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.089		"	0.125		71.5	70-130			
Surrogate: Toluene-d8	0.11		"	0.125		90.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.8	70-130			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Spike State GWS CC #30-02

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 B3D1104 - EPA 5030 (soil)

Matrix Spike (B3D1104-MS1)	Source: Y304100-01			Prepared: 04/11/2023 Analyzed: 04/14/2023						
1,2,4-Trimethylbenzene	0.0853	0.00200	mg/kg	0.100	ND	85.3	70-130			
1,3,5-Trimethylbenzene	0.0800	0.00200	"	0.100	ND	80.0	70-130			
Benzene	0.0905	0.00200	"	0.100	ND	90.5	70-130			
Ethylbenzene	0.0837	0.00200	"	0.100	ND	83.7	70-130			
Naphthalene	0.0963	0.00380	"	0.100	0.000820	95.4	70-130			
Toluene	0.0838	0.00200	"	0.100	ND	83.8	70-130			
o-Xylene	0.0886	0.00200	"	0.100	0.000600	88.0	70-130			
m,p-Xylene	0.172	0.00400	"	0.200	ND	86.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		106	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.8	70-130			

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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Spike State GWS CC #30-02

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 B3D1104 - EPA 5030 (soil)

Matrix Spike Dup (B3D1104-MSD1)	Source: Y304100-01			Prepared: 04/11/2023 Analyzed: 04/14/2023						
1,2,4-Trimethylbenzene	0.0844	0.00200	mg/kg	0.100	ND	84.4	70-130	1.06	20	
1,3,5-Trimethylbenzene	0.0782	0.00200	"	0.100	ND	78.2	70-130	2.28	20	
Benzene	0.0893	0.00200	"	0.100	ND	89.3	70-130	1.38	20	
Ethylbenzene	0.0823	0.00200	"	0.100	ND	82.3	70-130	1.69	20	
Naphthalene	0.0947	0.00380	"	0.100	0.000820	93.9	70-130	1.59	20	
Toluene	0.0819	0.00200	"	0.100	ND	81.9	70-130	2.20	20	
o-Xylene	0.0874	0.00200	"	0.100	0.000600	86.8	70-130	1.43	20	
m,p-Xylene	0.170	0.00400	"	0.200	ND	85.1	70-130	1.26	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		105	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.9	70-130			

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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Spike State GWS CC #30-02

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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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 B3D0709 - DTPA Sorbitol Preparation

Blank (B3D0709-BLK1)

Prepared: 04/07/2023 Analyzed: 04/12/2023

Boron ND 0.100 mg/L

Duplicate (B3D0709-DUP1)

Source: Y304101-01

Prepared: 04/07/2023 Analyzed: 04/12/2023

Boron 0.127 0.0991 mg/L 0.121 4.45 50

Batch B3D0711 - Saturated Paste Metals

Blank (B3D0711-BLK1)

Prepared: 04/07/2023 Analyzed: 04/12/2023

SAR 0.00 SAR

Calcium PPM ND 10.0 mg/L

Magnesium PPM ND 10.0 "

Sodium PPM ND 10.0 "

Duplicate (B3D0711-DUP1)

Source: Y304100-01

Prepared: 04/07/2023 Analyzed: 04/12/2023

Calcium PPM 51.6 10.0 mg/L 43.1 17.8 50

SAR 0.00 SAR 2.18 200 200

Magnesium PPM 21.6 10.0 mg/L 17.9 18.3 50

Sodium PPM 78.7 10.0 " 67.6 15.1 50

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Spike State GWS CC #30-02

Saturated Paste - 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 B3D0715 - Saturated Paste pH/EC

Blank (B3D0715-BLK1)

Prepared: 04/07/2023 Analyzed: 04/08/2023

Specific Conductance (EC) ND 0.00500 mmhos/cm

Duplicate (B3D0715-DUP1)

Source: Y304100-01

Prepared: 04/07/2023 Analyzed: 04/08/2023

pH 7.77 pH Units 7.81 0.513 25

Specific Conductance (EC) 1.11 0.00500 mmhos/cm 0.922 18.3 25

Batch B3D1821 - Saturated Paste pH/EC

Duplicate (B3D1821-DUP1)

Source: Y303807-02

Prepared: 04/18/2023 Analyzed: 04/19/2023

pH 7.52 pH Units 7.54 0.266 25

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 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Spike State GWS CC #30-02

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L675319 - 3550B

MSD (L 94116-MSD-L675319)	Source: Y304101-01			Prepared: 04/11/2023 Analyzed: 04/11/2023						
Fluorene	0.122	0.00067	mg/Kg	0.162	0.0003	75.1	30-130	16.8	30	
1-Methylnaphthalene	0.114	0.00201	"	0.162	<0.00109	70.3	30-130	16.1	30	
Pyrene	0.124	0.00067	"	0.162	<0.000643	76.5	30-130	14.7	30	
Indeno(1,2,3-cd)pyrene	0.116	0.00067	"	0.162	<0.000627	71.6	30-130	26.2	30	
Fluoranthene	0.135	0.00067	"	0.162	<0.000394	83.3	30-130	16.8	30	
Dibenz(a,h)anthracene	0.114	0.00067	"	0.162	<0.000614	70.3	30-130	26.7	30	
Chrysene	0.124	0.00067	"	0.162	<0.000624	76.5	30-130	19.4	30	
Naphthalene	0.112	0.00201	"	0.162	<0.00145	69.1	30-130	17	30	
2-Methylnaphthalene	0.116	0.00201	"	0.162	<0.00194	71.6	30-130	16.3	30	
Benzo(k)fluoranthene	0.101	0.00067	"	0.162	<0.000437	62.3	30-130	13.9	30	
Acenaphthene	0.116	0.00067	"	0.162	<0.000304	71.6	30-130	16.3	30	
Anthracene	0.119	0.00067	"	0.162	<0.000334	73.4	30-130	18.6	30	
Benzo(a)anthracene	0.138	0.00067	"	0.162	<0.000493	85.1	30-130	14.7	30	
Benzo(a)pyrene	0.13	0.00067	"	0.162	<0.000468	80.2	30-130	20.3	30	
Benzo(b)fluoranthene	0.12	0.00067	"	0.162	<0.000585	74	30-130	33.1	30	*
<i>Surrogate: 2-Fluorobiphenyl</i>	<i>57.5</i>		<i>"</i>	<i>0.325</i>	<i>154</i>	<i>57.5</i>	<i>33-115</i>			
<i>Surrogate: Nitrobenzene-d5</i>	<i>61.8</i>		<i>"</i>	<i>0.325</i>	<i>163</i>	<i>61.8</i>	<i>29-110</i>			
<i>Surrogate: 4-Terphenyl-d14</i>	<i>66.4</i>		<i>"</i>	<i>0.325</i>	<i>176</i>	<i>66.4</i>	<i>33-122</i>			

MS (L 94116-MS-L675319)	Source: Y304101-01			Prepared: 04/11/2023 Analyzed: 04/11/2023						
Benzo(k)fluoranthene	0.0878	0.00067	mg/Kg	0.163	<0.000437	53.8	30-130			
Acenaphthene	0.0985	0.00067	"	0.163	<0.000304	60.4	30-130			
Naphthalene	0.0944	0.00201	"	0.163	<0.00145	57.9	30-130			
Indeno(1,2,3-cd)pyrene	0.0891	0.00067	"	0.163	<0.000627	54.6	30-130			
Fluorene	0.103	0.00067	"	0.163	0.0003	63	30-130			
Fluoranthene	0.114	0.00067	"	0.163	<0.000394	69.9	30-130			
Dibenz(a,h)anthracene	0.0871	0.00067	"	0.163	<0.000614	53.4	30-130			

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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Spike State GWS CC #30-02

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L675319 - 3550B

MS (L 94116-MS-L675319)		Source: Y304101-01			Prepared: 04/11/2023 Analyzed: 04/11/2023					
Chrysene	0.102	0.00067	mg/Kg	0.163	<0.000624	62.5	30-130			
1-Methylnaphthalene	0.097	0.00201	"	0.163	<0.00109	59.5	30-130			
Benzo(a)pyrene	0.106	0.00067	"	0.163	<0.000468	65	30-130			
Anthracene	0.0987	0.00067	"	0.163	<0.000334	60.5	30-130			
Pyrene	0.107	0.00067	"	0.163	<0.000643	65.6	30-130			
2-Methylnaphthalene	0.0985	0.00201	"	0.163	<0.00194	60.4	30-130			
Benzo(b)fluoranthene	0.0859	0.00067	"	0.163	<0.000585	52.6	30-130			
Benzo(a)anthracene	0.119	0.00067	"	0.163	<0.000493	73	30-130			
Surrogate: Nitrobenzene-d5	51		"	0.327	163	51	29-110			
Surrogate: 4-Terphenyl-d14	53.8		"	0.327	176	53.8	33-122			
Surrogate: 2-Fluorobiphenyl	47.7		"	0.327	154	47.7	33-115			

LCS (LCS-L675319)		Prepared: 04/11/2023 Analyzed: 04/11/2023								
Chrysene	0.108	0.00067	mg/Kg	0.167		64.6	30-130			
Dibenz(a,h)anthracene	0.0882	0.00067	"	0.167		52.8	30-130			
Fluoranthene	0.117	0.00067	"	0.167		70	30-130			
Fluorene	0.103	0.00067	"	0.167		61.6	30-130			
Indeno(1,2,3-cd)pyrene	0.0895	0.00067	"	0.167		53.5	30-130			
Naphthalene	0.0931	0.00201	"	0.167		55.7	30-130			
Pyrene	0.111	0.00067	"	0.167		66.4	30-130			
Benzo(k)fluoranthene	0.101	0.00067	"	0.167		60.4	30-130			
Benzo(a)pyrene	0.111	0.00067	"	0.167		66.4	30-130			
Benzo(a)anthracene	0.118	0.00067	"	0.167		70.6	30-130			
Anthracene	0.102	0.00067	"	0.167		61	30-130			
Acenaphthene	0.0963	0.00067	"	0.167		57.6	30-130			
2-Methylnaphthalene	0.0968	0.00201	"	0.167		57.9	30-130			
1-Methylnaphthalene	0.0946	0.00201	"	0.167		56.6	30-130			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Spike State GWS CC #30-02

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L675319 - 3550B

LCS (LCS-L675319)

Prepared: 04/11/2023 Analyzed: 04/11/2023

Benzo(b)fluoranthene	0.112	0.00067	mg/Kg	0.167		67	30-130			
Surrogate: Nitrobenzene-d5	53.4		"	0.333		53.4	29-110			
Surrogate: 4-Terphenyl-d14	60.3		"	0.333		60.3	33-122			
Surrogate: 2-Fluorobiphenyl	49.2		"	0.333		49.2	33-115			

LRB (LRB-L675319)

Prepared: 04/11/2023 Analyzed: 04/11/2023

Chrysene	ND	0.00067	mg/Kg				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Naphthalene	ND	0.00201	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00201	"				-			
1-Methylnaphthalene	ND	0.00201	"				-			
Pyrene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Surrogate: Nitrobenzene-d5	53.7		"	0.333		53.7	29-110			
Surrogate: 4-Terphenyl-d14	56.1		"	0.333		56.1	33-122			
Surrogate: 2-Fluorobiphenyl	49.8		"	0.333		49.8	33-115			

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.

Eagle Environmental Consulting, LLC
8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Noble - Spike State GWS CC #30-02

Notes and Definitions

U Sample is Non-Detect.

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.

Calculated results may use J-flag data (instead of reported "ND") as part of calculation to provide a more accurate result.

Origins Laboratory, Inc.



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April 27, 2023

Eagle Environmental Consulting, LLC

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

**Project Name - Noble - Spike State GWS CC
#30-02**

Project Number - [none]

Attached are your analytical results for Noble - Spike State GWS CC #30-02 received by Origins Laboratory, Inc. April 17, 2023. This project is associated with Origins project number Y304383-01.

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

Eagle Environmental Consulting, LLC
8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Noble - Spike State GWS CC #30-02

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Background-01@2'	Y304383-01	Soil	April 5, 2023 10:56	04/17/2023 16:00

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Spike State GWS CC #30-02

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4304383

Client: Eagle Environ
 Client Project ID: Spill of GWS CC #30-02

Checklist Completed by: JBY/EMS
 Date/time completed: 4/18/23

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

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

Cooler Number/Temperature: 1 / 6 °C _____ °C _____ °C (Describe) _____ °C

Thermometer ID: 1004

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	/			
Is there ice present (document if blue ice is used)	/			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		/		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		/		
Were all samples received intact ⁽¹⁾ ?	/			
Was adequate sample volume provided ⁽¹⁾ ?	/			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		/		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	/			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	/			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	/			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	/			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			/	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄) / (pH >10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)			/	
Additional Comments (if any):				

⁽¹⁾if NO, then contact the client before proceeding with analysis and note date, time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.

Reviewed by (Project Manager) [Signature] Date/Time Reviewed 4/19/23

Origins Laboratory, Inc.
[Signature]

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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Spike State GWS CC #30-02

Background-01@2'
4/5/2023 10:56:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y304383-01 (Soil)

pH in Soil by 9045D

pH	4.61		pH Units	1	B3D1919	HJD	04/19/2023	04/20/2023	
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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.

Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Spike State GWS CC #30-02

Saturated Paste - 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 B3D1919 - Saturated Paste pH/EC

Duplicate (B3D1919-DUP1)

Source: Y304386-01

Prepared: 04/19/2023 Analyzed: 04/20/2023

pH	7.86		pH Units		7.49			4.82	25	
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Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC
8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Noble - Spike State GWS CC #30-02

Notes and Definitions

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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