



04-Dec-2024

Annette Garrigues
Williams Midstream
2717 County Road 215
Parachute, CO 81635

Re: **WP0188995**

Work Order: **24110389**

Dear Annette,

ALS Environmental received 6 samples on 13-Nov-2024 09:45 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental - Holland and for only the analyses requested.

Sample results are compliant with industry accepted practices and Quality Control results achieved laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 32.

If you have any questions regarding this report, please feel free to contact me:

ADDRESS: 3352 128th Avenue, Holland, MI, USA
PHONE: +1 (616) 399-6070 FAX: +1 (616) 399-6185

Sincerely,

Electronically approved by: Chad Whelton

Chad Whelton
Project Manager

Report of Laboratory Analysis

Certificate No: FL E871106

ALS GROUP USA, CORP Part of the ALS Laboratory Group A Campbell Brothers Limited Company

Client: Williams Midstream
Project: WP0188995
Work Order: 24110389

Work Order Sample Summary

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
24110389-01	FtL01 @ 3.5'-4.0'	Soil		11/12/2024 10:50	11/13/2024 09:45	☐
24110389-02	FtL02 @ 3.5'-4.0'	Soil		11/12/2024 11:30	11/13/2024 09:45	☐
24110389-03	FtL03 @ 3.5'-4.0'	Soil		11/12/2024 12:40	11/13/2024 09:45	☐
24110389-04	FtL04 @ 3.5'-4.0'	Soil		11/12/2024 13:20	11/13/2024 09:45	☐
24110389-05	FtL05 @ 3.5'-4.0'	Soil		11/12/2024 14:00	11/13/2024 09:45	☐
24110389-06	FtL06 @ 3.5'-4.0'	Soil		11/12/2024 14:30	11/13/2024 09:45	☐

Client: Williams Midstream
Project: WP0188995
Work Order: 24110389

Case Narrative

The attached "Sample Receipt Checklist" documents the date of receipt, status of custody seals, container integrity, preservation, and temperature compliance.

Samples were analyzed according to the analytical methodology previously transmitted in the "Work Order Acknowledgement". Methodologies are also documented in the "Analytical Result" section for each sample. Quality control results are listed in the "QC Report" section. A copy of the laboratory's scope of accreditation is available upon request.

Sample association for the reported quality control is located at the end of each batch summary. If applicable, results are appropriately qualified in the Analytical Result and QC Report sections. The "Qualifiers" section documents the various qualifiers, units, and acronyms utilized in reporting.

Any flags on MS/MSD samples not addressed in this narrative are unrelated to samples in this report.

With the following exceptions, all sample analyses achieved analytical criteria.

Batch 249534, Method SW8015C, Sample 24110389-02C MSD: The MSD recovery was below the lower control limit. The corresponding result in the parent sample may be biased low for the following analyte(s): ERO, surrogate 4-Terphenyl-d14.

Client: Williams Midstream
Project: WP0188995
WorkOrder: 24110389

**QUALIFIERS,
ACRONYMS, UNITS**

<u>Qualifier</u>	<u>Description</u>
*	Value exceeds Regulatory Limit
**	Estimated Value
a	Analyte is non-accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
Hr	BOD/CBOD - Sample was reset outside Hold Time, value should be considered estimated.
J	Analyte is present at an estimated concentration between the MDL and Report Limit
n	Analyte accreditation is not offered
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL
X	Analyte was detected in the Method Blank between the MDL and Reporting Limit, sample results may exhibit background or reagent contamination at the observed level.

<u>Acronym</u>	<u>Description</u>
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
LOD	Limit of Detection (see MDL)
LOQ	Limit of Quantitation (see PQL)
MBLK	Method Blank
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
TDL	Target Detection Limit
TNTC	Too Numerous To Count
A	APHA Standard Methods
D	ASTM
E	EPA
SW	SW-846 Update III

<u>Units Reported</u>	<u>Description</u>
% of sample	Percent of Sample
µg/Kg-dry	Micrograms per Kilogram Dry Weight
mg/Kg-dry	Milligrams per Kilogram Dry Weight
mg/L	Milligrams per Liter
mmhos/cm @25°C	Millimhos-Centimeter at 25 Degrees Celcius
none	

ALS Group, USA

Date: 04-Dec-24

Client: Williams Midstream
Project: WP0188995
Sample ID: FtL01 @ 3.5'-4.0'
Collection Date: 11/12/2024 10:50 AM

Work Order: 24110389
Lab ID: 24110389-01
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID							
			Method: SW8015C		Prep: SW3546 / 11/21/24		Analyst: QNG
ERO (C10-C36)	29	J	7.4	56	mg/Kg-dry	1	11/21/2024 20:07
Surr: 4-Terphenyl-d14	30.2			10-131	%REC	1	11/21/2024 20:07
GASOLINE RANGE ORGANICS BY GC-FID							
			Method: SW8015C		Prep: SW5035A / 11/15/24		Analyst: QNG
GRO (C6-C10)	U		5,700	6,100	µg/Kg-dry	1	11/15/2024 18:35
Surr: Toluene-d8	92.8			75-120	%REC	1	11/15/2024 18:35
SOLUBLE CATIONS FOR SAR							
			Method: SW6020B		Prep: USDA Method 20B / 12/2/24		Analyst: STP
Calcium	150		2.5	5.0	mg/L	10	12/2/2024 18:19
Magnesium	30		0.50	2.0	mg/L	10	12/2/2024 18:19
Sodium	90		1.8	2.0	mg/L	10	12/2/2024 18:19
HOT WATER SOLUBLE BORON BY ICP-MS							
			Method: SW6020B		Prep: EXTRACT / 11/25/24		Analyst: STP
Boron (Hot Water Soluble)	0.86		0.018	0.46	mg/Kg-dry	10	11/25/2024 21:44
SODIUM ADSORPTION RATIO							
			Method: USDA H60 METHOD 20B		Prep: USDA Method 20B / 12/2/24		Analyst: STP
Sodium Adsorption Ratio	1.7		0.010	0.010	none	1	12/2/2024
POLYNUCLEAR AROMATIC HYDROCARBONS (SIM)							
			Method: SW8270E		Prep: SW3546 / 11/18/24		Analyst: SMT
1-Methylnaphthalene	U		2.3	11	µg/Kg-dry	1	11/19/2024 00:14
2-Methylnaphthalene	U		2.6	11	µg/Kg-dry	1	11/19/2024 00:14
Acenaphthene	U		4.3	11	µg/Kg-dry	1	11/19/2024 00:14
Anthracene	U		2.0	11	µg/Kg-dry	1	11/19/2024 00:14
Benzo(a)anthracene	U		8.1	11	µg/Kg-dry	1	11/19/2024 00:14
Benzo(a)pyrene	U		7.6	11	µg/Kg-dry	1	11/19/2024 00:14
Benzo(b)fluoranthene	U		6.7	11	µg/Kg-dry	1	11/19/2024 00:14
Benzo(k)fluoranthene	U		1.7	11	µg/Kg-dry	1	11/19/2024 00:14
Chrysene	U		7.4	11	µg/Kg-dry	1	11/19/2024 00:14
Dibenzo(a,h)anthracene	U		6.5	11	µg/Kg-dry	1	11/19/2024 00:14
Fluoranthene	U		5.6	11	µg/Kg-dry	1	11/19/2024 00:14
Fluorene	U		2.8	11	µg/Kg-dry	1	11/19/2024 00:14
Indeno(1,2,3-cd)pyrene	U		7.8	11	µg/Kg-dry	1	11/19/2024 00:14
Naphthalene	U		2.1	11	µg/Kg-dry	1	11/19/2024 00:14
Pyrene	U		7.1	11	µg/Kg-dry	1	11/19/2024 00:14
Surr: 2-Fluorobiphenyl	93.6			44-132	%REC	1	11/19/2024 00:14
Surr: 4-Terphenyl-d14	86.5			35-133	%REC	1	11/19/2024 00:14
Surr: Nitrobenzene-d5	89.3			30-133	%REC	1	11/19/2024 00:14
VOLATILE ORGANIC COMPOUNDS - LOW LEVEL							
			Method: SW8260D				Analyst: NTJ

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 04-Dec-24

Client: Williams Midstream
Project: WP0188995
Sample ID: FtL01 @ 3.5'-4.0'
Collection Date: 11/12/2024 10:50 AM

Work Order: 24110389
Lab ID: 24110389-01
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
1,2,4-Trimethylbenzene	U		2.1	5.8	µg/Kg-dry	0.971	11/22/2024 01:30
1,3,5-Trimethylbenzene	U		1.8	5.8	µg/Kg-dry	0.971	11/22/2024 01:30
Benzene	U		0.60	5.8	µg/Kg-dry	0.971	11/22/2024 01:30
Ethylbenzene	U		1.0	5.8	µg/Kg-dry	0.971	11/22/2024 01:30
m,p-Xylene	U		2.5	2.9	µg/Kg-dry	0.971	11/22/2024 01:30
o-Xylene	U		1.4	2.9	µg/Kg-dry	0.971	11/22/2024 01:30
Toluene	U		2.0	5.8	µg/Kg-dry	0.971	11/22/2024 01:30
Xylenes, Total	U		2.5	5.8	µg/Kg-dry	0.971	11/22/2024 01:30
Surr: 1,2-Dichloroethane-d4	115			83-132	%REC	0.971	11/22/2024 01:30
Surr: 4-Bromofluorobenzene	101			83-111	%REC	0.971	11/22/2024 01:30
Surr: Dibromofluoromethane	105			77-125	%REC	0.971	11/22/2024 01:30
Surr: Toluene-d8	96.6			86-108	%REC	0.971	11/22/2024 01:30
ELECTRICAL CONDUCTIVITY (SAR)			Method: USDA H60 METHOD 20B		Prep: USDA Method 20B / 12/2/24		Analyst: JB
Electrical Conductivity @ Saturation	1.6		0.011	0.10	mmhos/cm @25°C	20	12/4/2024 09:55
MOISTURE			Method: SW3550C				Analyst: EVC
Moisture	16		0.10	0.10	% of sample	1	11/16/2024 12:47
PH MEASURED IN SOIL PASTE			Method: USDA METHOD 20B		Prep: USDA Method 20B / 12/2/24		Analyst: JB
pH @ Saturation	9.46		0.12	0.12	s.u.-dry	1	12/4/2024 09:25

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 04-Dec-24

Client: Williams Midstream
Project: WP0188995
Sample ID: FtL02 @ 3.5'-4.0'
Collection Date: 11/12/2024 11:30 AM

Work Order: 24110389
Lab ID: 24110389-02
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID							
			Method: SW8015C		Prep: SW3546 / 11/21/24		Analyst: QNG
ERO (C10-C36)	19	J	3.0	23	mg/Kg-dry	1	11/21/2024 20:30
Surr: 4-Terphenyl-d14	16.1			10-131	%REC	1	11/21/2024 20:30
GASOLINE RANGE ORGANICS BY GC-FID							
			Method: SW8015C		Prep: SW5035A / 11/15/24		Analyst: QNG
GRO (C6-C10)	U		5,900	6,300	µg/Kg-dry	1	11/15/2024 18:57
Surr: Toluene-d8	95.8			75-120	%REC	1	11/15/2024 18:57
SOLUBLE CATIONS FOR SAR							
			Method: SW6020B		Prep: USDA Method 20B / 12/2/24		Analyst: STP
Calcium	110		2.5	5.0	mg/L	10	12/2/2024 18:21
Magnesium	24		0.50	2.0	mg/L	10	12/2/2024 18:21
Sodium	29		1.8	2.0	mg/L	10	12/2/2024 18:21
HOT WATER SOLUBLE BORON BY ICP-MS							
			Method: SW6020B		Prep: EXTRACT / 11/25/24		Analyst: STP
Boron (Hot Water Soluble)	0.56		0.018	0.45	mg/Kg-dry	10	11/25/2024 21:49
SODIUM ADSORPTION RATIO							
			Method: USDA H60 METHOD 20B		Prep: USDA Method 20B / 12/2/24		Analyst: STP
Sodium Adsorption Ratio	0.66		0.010	0.010	none	1	12/2/2024
POLYNUCLEAR AROMATIC HYDROCARBONS (SIM)							
			Method: SW8270E		Prep: SW3546 / 11/18/24		Analyst: SMT
1-Methylnaphthalene	U		2.3	11	µg/Kg-dry	1	11/19/2024 00:30
2-Methylnaphthalene	U		2.7	11	µg/Kg-dry	1	11/19/2024 00:30
Acenaphthene	U		4.4	11	µg/Kg-dry	1	11/19/2024 00:30
Anthracene	U		2.1	11	µg/Kg-dry	1	11/19/2024 00:30
Benzo(a)anthracene	U		8.2	11	µg/Kg-dry	1	11/19/2024 00:30
Benzo(a)pyrene	U		7.7	11	µg/Kg-dry	1	11/19/2024 00:30
Benzo(b)fluoranthene	U		6.8	11	µg/Kg-dry	1	11/19/2024 00:30
Benzo(k)fluoranthene	U		1.7	11	µg/Kg-dry	1	11/19/2024 00:30
Chrysene	U		7.5	11	µg/Kg-dry	1	11/19/2024 00:30
Dibenzo(a,h)anthracene	U		6.6	11	µg/Kg-dry	1	11/19/2024 00:30
Fluoranthene	U		5.7	11	µg/Kg-dry	1	11/19/2024 00:30
Fluorene	U		2.8	11	µg/Kg-dry	1	11/19/2024 00:30
Indeno(1,2,3-cd)pyrene	U		7.8	11	µg/Kg-dry	1	11/19/2024 00:30
Naphthalene	U		2.1	11	µg/Kg-dry	1	11/19/2024 00:30
Pyrene	U		7.2	11	µg/Kg-dry	1	11/19/2024 00:30
Surr: 2-Fluorobiphenyl	94.7			44-132	%REC	1	11/19/2024 00:30
Surr: 4-Terphenyl-d14	95.3			35-133	%REC	1	11/19/2024 00:30
Surr: Nitrobenzene-d5	88.5			30-133	%REC	1	11/19/2024 00:30
VOLATILE ORGANIC COMPOUNDS - LOW LEVEL							
			Method: SW8260D				Analyst: NTJ

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 04-Dec-24

Client: Williams Midstream
Project: WP0188995
Sample ID: FtL02 @ 3.5'-4.0'
Collection Date: 11/12/2024 11:30 AM

Work Order: 24110389
Lab ID: 24110389-02
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
1,2,4-Trimethylbenzene	U		1.8	4.9	µg/Kg-dry	0.843	11/22/2024 01:46
1,3,5-Trimethylbenzene	U		1.6	4.9	µg/Kg-dry	0.843	11/22/2024 01:46
Benzene	U		0.51	4.9	µg/Kg-dry	0.843	11/22/2024 01:46
Ethylbenzene	U		0.85	4.9	µg/Kg-dry	0.843	11/22/2024 01:46
m,p-Xylene	U		2.1	2.4	µg/Kg-dry	0.843	11/22/2024 01:46
o-Xylene	U		1.2	2.4	µg/Kg-dry	0.843	11/22/2024 01:46
Toluene	U		1.7	4.9	µg/Kg-dry	0.843	11/22/2024 01:46
Xylenes, Total	U		2.1	4.9	µg/Kg-dry	0.843	11/22/2024 01:46
Surr: 1,2-Dichloroethane-d4	118			83-132	%REC	0.843	11/22/2024 01:46
Surr: 4-Bromofluorobenzene	100			83-111	%REC	0.843	11/22/2024 01:46
Surr: Dibromofluoromethane	108			77-125	%REC	0.843	11/22/2024 01:46
Surr: Toluene-d8	94.7			86-108	%REC	0.843	11/22/2024 01:46
ELECTRICAL CONDUCTIVITY (SAR)			Method: USDA H60 METHOD 20B		Prep: USDA Method 20B / 12/2/24		Analyst: JB
Electrical Conductivity @ Saturation	0.98		0.011	0.10	mmhos/cm @25°C	20	12/4/2024 09:55
MOISTURE			Method: SW3550C				Analyst: EVC
Moisture	14		0.10	0.10	% of sample	1	11/16/2024 12:47
PH MEASURED IN SOIL PASTE			Method: USDA METHOD 20B		Prep: USDA Method 20B / 12/2/24		Analyst: JB
pH @ Saturation	8.73		0.12	0.12	s.u.-dry	1	12/4/2024 09:25

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 04-Dec-24

Client: Williams Midstream
Project: WP0188995
Sample ID: FtL03 @ 3.5'-4.0'
Collection Date: 11/12/2024 12:40 PM

Work Order: 24110389
Lab ID: 24110389-03
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID							
			Method: SW8015C		Prep: SW3546 / 11/21/24		Analyst: QNG
ERO (C10-C36)	28		3.1	24	mg/Kg-dry	1	11/21/2024 20:53
Surr: 4-Terphenyl-d14	24.2			10-131	%REC	1	11/21/2024 20:53
GASOLINE RANGE ORGANICS BY GC-FID							
			Method: SW8015C		Prep: SW5035A / 11/15/24		Analyst: QNG
GRO (C6-C10)	U		4,100	4,400	µg/Kg-dry	1	11/15/2024 19:19
Surr: Toluene-d8	96.6			75-120	%REC	1	11/15/2024 19:19
SOLUBLE CATIONS FOR SAR							
			Method: SW6020B		Prep: USDA Method 20B / 12/2/24		Analyst: STP
Calcium	110		2.5	5.0	mg/L	10	12/2/2024 18:23
Magnesium	23		0.50	2.0	mg/L	10	12/2/2024 18:23
Sodium	25		1.8	2.0	mg/L	10	12/2/2024 18:23
HOT WATER SOLUBLE BORON BY ICP-MS							
			Method: SW6020B		Prep: EXTRACT / 11/25/24		Analyst: STP
Boron (Hot Water Soluble)	0.62		0.019	0.46	mg/Kg-dry	10	11/25/2024 21:51
SODIUM ADSORPTION RATIO							
			Method: USDA H60 METHOD 20B		Prep: USDA Method 20B / 12/2/24		Analyst: STP
Sodium Adsorption Ratio	0.56		0.010	0.010	none	1	12/2/2024
POLYNUCLEAR AROMATIC HYDROCARBONS (SIM)							
			Method: SW8270E		Prep: SW3546 / 11/18/24		Analyst: SMT
1-Methylnaphthalene	U		2.5	12	µg/Kg-dry	1	11/19/2024 00:46
2-Methylnaphthalene	U		2.9	12	µg/Kg-dry	1	11/19/2024 00:46
Acenaphthene	U		4.7	12	µg/Kg-dry	1	11/19/2024 00:46
Anthracene	U		2.2	12	µg/Kg-dry	1	11/19/2024 00:46
Benzo(a)anthracene	U		8.8	12	µg/Kg-dry	1	11/19/2024 00:46
Benzo(a)pyrene	U		8.3	12	µg/Kg-dry	1	11/19/2024 00:46
Benzo(b)fluoranthene	U		7.4	12	µg/Kg-dry	1	11/19/2024 00:46
Benzo(k)fluoranthene	U		1.8	12	µg/Kg-dry	1	11/19/2024 00:46
Chrysene	U		8.1	12	µg/Kg-dry	1	11/19/2024 00:46
Dibenzo(a,h)anthracene	U		7.1	12	µg/Kg-dry	1	11/19/2024 00:46
Fluoranthene	U		6.1	12	µg/Kg-dry	1	11/19/2024 00:46
Fluorene	U		3.0	12	µg/Kg-dry	1	11/19/2024 00:46
Indeno(1,2,3-cd)pyrene	U		8.5	12	µg/Kg-dry	1	11/19/2024 00:46
Naphthalene	U		2.3	12	µg/Kg-dry	1	11/19/2024 00:46
Pyrene	U		7.8	12	µg/Kg-dry	1	11/19/2024 00:46
Surr: 2-Fluorobiphenyl	90.1			44-132	%REC	1	11/19/2024 00:46
Surr: 4-Terphenyl-d14	92.8			35-133	%REC	1	11/19/2024 00:46
Surr: Nitrobenzene-d5	87.4			30-133	%REC	1	11/19/2024 00:46
VOLATILE ORGANIC COMPOUNDS - LOW LEVEL							
			Method: SW8260D				Analyst: NTJ

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 04-Dec-24

Client: Williams Midstream
Project: WP0188995
Sample ID: FtL03 @ 3.5'-4.0'
Collection Date: 11/12/2024 12:40 PM

Work Order: 24110389
Lab ID: 24110389-03
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
1,2,4-Trimethylbenzene	U		1.7	4.6	µg/Kg-dry	0.775	11/22/2024 02:02
1,3,5-Trimethylbenzene	U		1.5	4.6	µg/Kg-dry	0.775	11/22/2024 02:02
Benzene	U		0.48	4.6	µg/Kg-dry	0.775	11/22/2024 02:02
Ethylbenzene	U		0.80	4.6	µg/Kg-dry	0.775	11/22/2024 02:02
m,p-Xylene	U		2.0	2.3	µg/Kg-dry	0.775	11/22/2024 02:02
o-Xylene	U		1.1	2.3	µg/Kg-dry	0.775	11/22/2024 02:02
Toluene	U		1.6	4.6	µg/Kg-dry	0.775	11/22/2024 02:02
Xylenes, Total	U		2.0	4.6	µg/Kg-dry	0.775	11/22/2024 02:02
Surr: 1,2-Dichloroethane-d4	112			83-132	%REC	0.775	11/22/2024 02:02
Surr: 4-Bromofluorobenzene	98.9			83-111	%REC	0.775	11/22/2024 02:02
Surr: Dibromofluoromethane	106			77-125	%REC	0.775	11/22/2024 02:02
Surr: Toluene-d8	96.1			86-108	%REC	0.775	11/22/2024 02:02
ELECTRICAL CONDUCTIVITY (SAR)			Method: USDA H60 METHOD 20B		Prep: USDA Method 20B / 12/2/24		Analyst: JB
Electrical Conductivity @ Saturation	1.0		0.011	0.10	mmhos/cm @25°C	20	12/4/2024 09:55
MOISTURE			Method: SW3550C				Analyst: EVC
Moisture	16		0.10	0.10	% of sample	1	11/16/2024 12:47
PH MEASURED IN SOIL PASTE			Method: USDA METHOD 20B		Prep: USDA Method 20B / 12/2/24		Analyst: JB
pH @ Saturation	9.25		0.12	0.12	s.u.-dry	1	12/4/2024 09:25

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 04-Dec-24

Client: Williams Midstream
Project: WP0188995
Sample ID: FtL04 @ 3.5'-4.0'
Collection Date: 11/12/2024 01:20 PM

Work Order: 24110389
Lab ID: 24110389-04
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID							
			Method: SW8015C		Prep: SW3546 / 11/21/24		Analyst: QNG
ERO (C10-C36)	25		2.8	22	mg/Kg-dry	1	11/21/2024 21:16
Surr: 4-Terphenyl-d14	16.1			10-131	%REC	1	11/21/2024 21:16
GASOLINE RANGE ORGANICS BY GC-FID							
			Method: SW8015C		Prep: SW5035A / 11/15/24		Analyst: QNG
GRO (C6-C10)	U		5,400	5,800	µg/Kg-dry	1	11/15/2024 19:42
Surr: Toluene-d8	98.6			75-120	%REC	1	11/15/2024 19:42
SOLUBLE CATIONS FOR SAR							
			Method: SW6020B		Prep: USDA Method 20B / 12/2/24		Analyst: STP
Calcium	100		2.5	5.0	mg/L	10	12/2/2024 18:24
Magnesium	23		0.50	2.0	mg/L	10	12/2/2024 18:24
Sodium	24		1.8	2.0	mg/L	10	12/2/2024 18:24
HOT WATER SOLUBLE BORON BY ICP-MS							
			Method: SW6020B		Prep: EXTRACT / 11/25/24		Analyst: STP
Boron (Hot Water Soluble)	0.49		0.018	0.44	mg/Kg-dry	10	11/25/2024 21:52
SODIUM ADSORPTION RATIO							
			Method: USDA H60 METHOD 20B		Prep: USDA Method 20B / 12/2/24		Analyst: STP
Sodium Adsorption Ratio	0.56		0.010	0.010	none	1	12/2/2024
POLYNUCLEAR AROMATIC HYDROCARBONS (SIM)							
			Method: SW8270E		Prep: SW3546 / 11/18/24		Analyst: SMT
1-Methylnaphthalene	U		2.3	11	µg/Kg-dry	1	11/19/2024 01:02
2-Methylnaphthalene	U		2.7	11	µg/Kg-dry	1	11/19/2024 01:02
Acenaphthene	U		4.4	11	µg/Kg-dry	1	11/19/2024 01:02
Anthracene	U		2.1	11	µg/Kg-dry	1	11/19/2024 01:02
Benzo(a)anthracene	U		8.3	11	µg/Kg-dry	1	11/19/2024 01:02
Benzo(a)pyrene	U		7.7	11	µg/Kg-dry	1	11/19/2024 01:02
Benzo(b)fluoranthene	U		6.9	11	µg/Kg-dry	1	11/19/2024 01:02
Benzo(k)fluoranthene	U		1.7	11	µg/Kg-dry	1	11/19/2024 01:02
Chrysene	U		7.6	11	µg/Kg-dry	1	11/19/2024 01:02
Dibenzo(a,h)anthracene	U		6.7	11	µg/Kg-dry	1	11/19/2024 01:02
Fluoranthene	U		5.7	11	µg/Kg-dry	1	11/19/2024 01:02
Fluorene	U		2.8	11	µg/Kg-dry	1	11/19/2024 01:02
Indeno(1,2,3-cd)pyrene	U		7.9	11	µg/Kg-dry	1	11/19/2024 01:02
Naphthalene	U		2.2	11	µg/Kg-dry	1	11/19/2024 01:02
Pyrene	U		7.3	11	µg/Kg-dry	1	11/19/2024 01:02
Surr: 2-Fluorobiphenyl	94.7			44-132	%REC	1	11/19/2024 01:02
Surr: 4-Terphenyl-d14	105			35-133	%REC	1	11/19/2024 01:02
Surr: Nitrobenzene-d5	89.5			30-133	%REC	1	11/19/2024 01:02
VOLATILE ORGANIC COMPOUNDS - LOW LEVEL							
			Method: SW8260D				Analyst: NTJ

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 04-Dec-24

Client: Williams Midstream
Project: WP0188995
Sample ID: FtL04 @ 3.5'-4.0'
Collection Date: 11/12/2024 01:20 PM

Work Order: 24110389
Lab ID: 24110389-04
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
1,2,4-Trimethylbenzene	U		1.7	4.6	µg/Kg-dry	0.812	11/22/2024 02:18
1,3,5-Trimethylbenzene	U		1.5	4.6	µg/Kg-dry	0.812	11/22/2024 02:18
Benzene	U		0.48	4.6	µg/Kg-dry	0.812	11/22/2024 02:18
Ethylbenzene	U		0.80	4.6	µg/Kg-dry	0.812	11/22/2024 02:18
m,p-Xylene	U		2.0	2.3	µg/Kg-dry	0.812	11/22/2024 02:18
o-Xylene	U		1.1	2.3	µg/Kg-dry	0.812	11/22/2024 02:18
Toluene	U		1.6	4.6	µg/Kg-dry	0.812	11/22/2024 02:18
Xylenes, Total	U		2.0	4.6	µg/Kg-dry	0.812	11/22/2024 02:18
Surr: 1,2-Dichloroethane-d4	118			83-132	%REC	0.812	11/22/2024 02:18
Surr: 4-Bromofluorobenzene	99.7			83-111	%REC	0.812	11/22/2024 02:18
Surr: Dibromofluoromethane	108			77-125	%REC	0.812	11/22/2024 02:18
Surr: Toluene-d8	94.6			86-108	%REC	0.812	11/22/2024 02:18
ELECTRICAL CONDUCTIVITY (SAR)			Method: USDA H60 METHOD 20B		Prep: USDA Method 20B / 12/2/24		Analyst: JB
Electrical Conductivity @ Saturation	0.94		0.011	0.10	mmhos/cm @25°C	20	12/4/2024 09:55
MOISTURE			Method: SW3550C				Analyst: EVC
Moisture	12		0.10	0.10	% of sample	1	11/16/2024 12:47
PH MEASURED IN SOIL PASTE			Method: USDA METHOD 20B		Prep: USDA Method 20B / 12/2/24		Analyst: JB
pH @ Saturation	8.81		0.11	0.11	s.u.-dry	1	12/4/2024 09:25

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 04-Dec-24

Client: Williams Midstream
Project: WP0188995
Sample ID: FtL05 @ 3.5'-4.0'
Collection Date: 11/12/2024 02:00 PM

Work Order: 24110389
Lab ID: 24110389-05
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID							
			Method: SW8015C		Prep: SW3546 / 11/21/24		Analyst: QNG
ERO (C10-C36)	20	J	7.4	56	mg/Kg-dry	1	11/21/2024 23:12
Surr: 4-Terphenyl-d14	36.2			10-131	%REC	1	11/21/2024 23:12
GASOLINE RANGE ORGANICS BY GC-FID							
			Method: SW8015C		Prep: SW5035A / 11/15/24		Analyst: QNG
GRO (C6-C10)	U		5,500	5,900	µg/Kg-dry	1	11/15/2024 20:04
Surr: Toluene-d8	92.1			75-120	%REC	1	11/15/2024 20:04
SOLUBLE CATIONS FOR SAR							
			Method: SW6020B		Prep: USDA Method 20B / 12/2/24		Analyst: STP
Calcium	100		2.5	5.0	mg/L	10	12/2/2024 18:26
Magnesium	22		0.50	2.0	mg/L	10	12/2/2024 18:26
Sodium	19		1.8	2.0	mg/L	10	12/2/2024 18:26
HOT WATER SOLUBLE BORON BY ICP-MS							
			Method: SW6020B		Prep: EXTRACT / 11/25/24		Analyst: STP
Boron (Hot Water Soluble)	0.59		0.019	0.47	mg/Kg-dry	10	11/25/2024 21:54
SODIUM ADSORPTION RATIO							
			Method: USDA H60 METHOD 20B		Prep: USDA Method 20B / 12/2/24		Analyst: STP
Sodium Adsorption Ratio	0.45		0.010	0.010	none	1	12/2/2024
POLYNUCLEAR AROMATIC HYDROCARBONS (SIM)							
			Method: SW8270E		Prep: SW3546 / 11/18/24		Analyst: SMT
1-Methylnaphthalene	U		2.5	12	µg/Kg-dry	1	11/19/2024 01:18
2-Methylnaphthalene	U		2.8	12	µg/Kg-dry	1	11/19/2024 01:18
Acenaphthene	U		4.6	12	µg/Kg-dry	1	11/19/2024 01:18
Anthracene	U		2.2	12	µg/Kg-dry	1	11/19/2024 01:18
Benzo(a)anthracene	U		8.7	12	µg/Kg-dry	1	11/19/2024 01:18
Benzo(a)pyrene	U		8.2	12	µg/Kg-dry	1	11/19/2024 01:18
Benzo(b)fluoranthene	U		7.3	12	µg/Kg-dry	1	11/19/2024 01:18
Benzo(k)fluoranthene	U		1.8	12	µg/Kg-dry	1	11/19/2024 01:18
Chrysene	U		8.0	12	µg/Kg-dry	1	11/19/2024 01:18
Dibenzo(a,h)anthracene	U		7.0	12	µg/Kg-dry	1	11/19/2024 01:18
Fluoranthene	U		6.1	12	µg/Kg-dry	1	11/19/2024 01:18
Fluorene	U		3.0	12	µg/Kg-dry	1	11/19/2024 01:18
Indeno(1,2,3-cd)pyrene	U		8.4	12	µg/Kg-dry	1	11/19/2024 01:18
Naphthalene	U		2.3	12	µg/Kg-dry	1	11/19/2024 01:18
Pyrene	U		7.7	12	µg/Kg-dry	1	11/19/2024 01:18
Surr: 2-Fluorobiphenyl	93.1			44-132	%REC	1	11/19/2024 01:18
Surr: 4-Terphenyl-d14	92.9			35-133	%REC	1	11/19/2024 01:18
Surr: Nitrobenzene-d5	87.5			30-133	%REC	1	11/19/2024 01:18
VOLATILE ORGANIC COMPOUNDS - LOW LEVEL							
			Method: SW8260D				Analyst: NTJ

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 04-Dec-24

Client: Williams Midstream
Project: WP0188995
Sample ID: FtL05 @ 3.5'-4.0'
Collection Date: 11/12/2024 02:00 PM

Work Order: 24110389
Lab ID: 24110389-05
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
1,2,4-Trimethylbenzene	U		1.5	4.2	µg/Kg-dry	0.715	11/22/2024 02:34
1,3,5-Trimethylbenzene	U		1.4	4.2	µg/Kg-dry	0.715	11/22/2024 02:34
Benzene	U		0.44	4.2	µg/Kg-dry	0.715	11/22/2024 02:34
Ethylbenzene	U		0.74	4.2	µg/Kg-dry	0.715	11/22/2024 02:34
m,p-Xylene	U		1.9	2.1	µg/Kg-dry	0.715	11/22/2024 02:34
o-Xylene	U		1.0	2.1	µg/Kg-dry	0.715	11/22/2024 02:34
Toluene	U		1.5	4.2	µg/Kg-dry	0.715	11/22/2024 02:34
Xylenes, Total	U		1.9	4.2	µg/Kg-dry	0.715	11/22/2024 02:34
Surr: 1,2-Dichloroethane-d4	111			83-132	%REC	0.715	11/22/2024 02:34
Surr: 4-Bromofluorobenzene	103			83-111	%REC	0.715	11/22/2024 02:34
Surr: Dibromofluoromethane	106			77-125	%REC	0.715	11/22/2024 02:34
Surr: Toluene-d8	97.1			86-108	%REC	0.715	11/22/2024 02:34
ELECTRICAL CONDUCTIVITY (SAR)			Method: USDA H60 METHOD 20B		Prep: USDA Method 20B / 12/2/24		Analyst: JB
Electrical Conductivity @ Saturation	0.90		0.011	0.10	mmhos/cm @25°C	20	12/4/2024 09:55
MOISTURE			Method: SW3550C				Analyst: EVC
Moisture	16		0.10	0.10	% of sample	1	11/16/2024 12:47
PH MEASURED IN SOIL PASTE			Method: USDA METHOD 20B		Prep: USDA Method 20B / 12/2/24		Analyst: JB
pH @ Saturation	9.06		0.12	0.12	s.u.-dry	1	12/4/2024 09:25

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 04-Dec-24

Client: Williams Midstream
Project: WP0188995
Sample ID: FtL06 @ 3.5'-4.0'
Collection Date: 11/12/2024 02:30 PM

Work Order: 24110389
Lab ID: 24110389-06
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID							
			Method: SW8015C		Prep: SW3546 / 11/21/24		Analyst: QNG
ERO (C10-C36)	26	J	7.4	56	mg/Kg-dry	1	11/21/2024 23:36
Surr: 4-Terphenyl-d14	34.2			10-131	%REC	1	11/21/2024 23:36
GASOLINE RANGE ORGANICS BY GC-FID							
			Method: SW8015C		Prep: SW5035A / 11/15/24		Analyst: QNG
GRO (C6-C10)	U		5,200	5,600	µg/Kg-dry	1	11/15/2024 20:26
Surr: Toluene-d8	97.6			75-120	%REC	1	11/15/2024 20:26
SOLUBLE CATIONS FOR SAR							
			Method: SW6020B		Prep: USDA Method 20B / 12/2/24		Analyst: STP
Calcium	88		2.5	5.0	mg/L	10	12/2/2024 18:27
Magnesium	16		0.50	2.0	mg/L	10	12/2/2024 18:27
Sodium	34		1.8	2.0	mg/L	10	12/2/2024 18:27
HOT WATER SOLUBLE BORON BY ICP-MS							
			Method: SW6020B		Prep: EXTRACT / 11/25/24		Analyst: STP
Boron (Hot Water Soluble)	0.71		0.018	0.46	mg/Kg-dry	10	11/25/2024 21:56
SODIUM ADSORPTION RATIO							
			Method: USDA H60 METHOD 20B		Prep: USDA Method 20B / 12/2/24		Analyst: STP
Sodium Adsorption Ratio	0.88		0.010	0.010	none	1	12/2/2024
POLYNUCLEAR AROMATIC HYDROCARBONS (SIM)							
			Method: SW8270E		Prep: SW3546 / 11/18/24		Analyst: SMT
1-Methylnaphthalene	U		2.5	12	µg/Kg-dry	1	11/19/2024 01:34
2-Methylnaphthalene	U		2.8	12	µg/Kg-dry	1	11/19/2024 01:34
Acenaphthene	U		4.6	12	µg/Kg-dry	1	11/19/2024 01:34
Anthracene	U		2.2	12	µg/Kg-dry	1	11/19/2024 01:34
Benzo(a)anthracene	U		8.7	12	µg/Kg-dry	1	11/19/2024 01:34
Benzo(a)pyrene	U		8.1	12	µg/Kg-dry	1	11/19/2024 01:34
Benzo(b)fluoranthene	U		7.2	12	µg/Kg-dry	1	11/19/2024 01:34
Benzo(k)fluoranthene	U		1.8	12	µg/Kg-dry	1	11/19/2024 01:34
Chrysene	U		7.9	12	µg/Kg-dry	1	11/19/2024 01:34
Dibenzo(a,h)anthracene	U		7.0	12	µg/Kg-dry	1	11/19/2024 01:34
Fluoranthene	U		6.0	12	µg/Kg-dry	1	11/19/2024 01:34
Fluorene	U		3.0	12	µg/Kg-dry	1	11/19/2024 01:34
Indeno(1,2,3-cd)pyrene	U		8.3	12	µg/Kg-dry	1	11/19/2024 01:34
Naphthalene	U		2.3	12	µg/Kg-dry	1	11/19/2024 01:34
Pyrene	U		7.7	12	µg/Kg-dry	1	11/19/2024 01:34
Surr: 2-Fluorobiphenyl	92.1			44-132	%REC	1	11/19/2024 01:34
Surr: 4-Terphenyl-d14	92.0			35-133	%REC	1	11/19/2024 01:34
Surr: Nitrobenzene-d5	88.1			30-133	%REC	1	11/19/2024 01:34
VOLATILE ORGANIC COMPOUNDS - LOW LEVEL							
			Method: SW8260D				Analyst: NTJ

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 04-Dec-24

Client: Williams Midstream
Project: WP0188995
Sample ID: FtL06 @ 3.5'-4.0'
Collection Date: 11/12/2024 02:30 PM

Work Order: 24110389
Lab ID: 24110389-06
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
1,2,4-Trimethylbenzene	U		1.6	4.5	µg/Kg-dry	0.762	11/22/2024 02:51
1,3,5-Trimethylbenzene	U		1.4	4.5	µg/Kg-dry	0.762	11/22/2024 02:51
Benzene	U		0.46	4.5	µg/Kg-dry	0.762	11/22/2024 02:51
Ethylbenzene	U		0.78	4.5	µg/Kg-dry	0.762	11/22/2024 02:51
m,p-Xylene	U		2.0	2.2	µg/Kg-dry	0.762	11/22/2024 02:51
o-Xylene	U		1.1	2.2	µg/Kg-dry	0.762	11/22/2024 02:51
Toluene	U		1.6	4.5	µg/Kg-dry	0.762	11/22/2024 02:51
Xylenes, Total	U		2.0	4.5	µg/Kg-dry	0.762	11/22/2024 02:51
Surr: 1,2-Dichloroethane-d4	118			83-132	%REC	0.762	11/22/2024 02:51
Surr: 4-Bromofluorobenzene	102			83-111	%REC	0.762	11/22/2024 02:51
Surr: Dibromofluoromethane	109			77-125	%REC	0.762	11/22/2024 02:51
Surr: Toluene-d8	94.2			86-108	%REC	0.762	11/22/2024 02:51
ELECTRICAL CONDUCTIVITY (SAR)			Method: USDA H60 METHOD 20B		Prep: USDA Method 20B / 12/2/24		Analyst: JB
Electrical Conductivity @ Saturation	0.79		0.011	0.10	mmhos/cm @25°C	20	12/4/2024 09:55
MOISTURE			Method: SW3550C				Analyst: EVC
Moisture	15		0.10	0.10	% of sample	1	11/16/2024 12:47
PH MEASURED IN SOIL PASTE			Method: USDA METHOD 20B		Prep: USDA Method 20B / 12/2/24		Analyst: JB
pH @ Saturation	8.84		0.12	0.12	s.u.-dry	1	12/4/2024 09:25

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Williams Midstream
Work Order: 24110389
Project: WP0188995

QC BATCH REPORT

Batch ID: 249534 Instrument ID GC15 Method: SW8015C

MBLK		Sample ID: MBLK-249534-249534					Units: mg/Kg		Analysis Date: 11/25/2024 04:46 PM		
Client ID:			Run ID: GC15_241125A			SeqNo: 11277505		Prep Date: 11/21/2024		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

ERO (C10-C36)	U	20								
Surr: 4-Terphenyl-d14	0.4833	0	0.828	0	58.4	10-131	0			

LCS				Sample ID: LCS-249534-249534				Units: mg/Kg		Analysis Date: 11/21/2024 07:20 PM													
Client ID:				Run ID: GC8_241121B				SeqNo: 11270974		Prep Date: 11/21/2024		DF: 1											
Analyte				Result		PQL		SPK Val		SPK Ref Value		%REC		Control Limit		RPD Ref Value		%RPD		RPD Limit		Qual	

ERO (C10-C36)	683	20	833	0	82	54-114	0			
Surr: 4-Terphenyl-d14	0.7	0	0.828	0	84.5	10-131	0			

MS				Sample ID: 24110389-02C MS				Units: mg/Kg		Analysis Date: 11/21/2024 09:40 PM													
Client ID: FtL02 @ 3.5'-4.0'				Run ID: GC8_241121B				SeqNo: 11270980		Prep Date: 11/21/2024		DF: 1											
Analyte				Result		PQL		SPK Val		SPK Ref Value		%REC		Control Limit		RPD Ref Value		%RPD		RPD Limit		Qual	

ERO (C10-C36)	504.1	20	816.3	16.76	59.7	54-114	0			
Surr: 4-Terphenyl-d14	0.3593	0	0.8114	0	44.3	10-131	0			

MSD				Sample ID: 24110389-02C MSD				Units: mg/Kg		Analysis Date: 11/21/2024 10:03 PM			
Client ID: FtL02 @ 3.5'-4.0'				Run ID: GC8_241121B				SeqNo: 11270981		Prep Date: 11/21/2024		DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual		

ERO (C10-C36)	54.44	19	806.2	16.76	4.67	54-114	504.1	161	30	SR
Surr: 4-Terphenyl-d14	0.04839	0	0.8014	0	6.04	10-131	0.3593	153	30	SR

The following samples were analyzed in this batch:

24110389-01C	24110389-02C	24110389-03C
24110389-04C	24110389-05C	24110389-06C

Client: Williams Midstream
Work Order: 24110389
Project: WP0188995

QC BATCH REPORT

Batch ID: **249329** Instrument ID **GC9** Method: **SW8015C**

MBLK		Sample ID: MBLK-249329-249329				Units: µg/Kg-dry		Analysis Date: 11/15/2024 06:13 PM		
Client ID:		Run ID: GC9_241115A				SeqNo: 11261497		Prep Date: 11/15/2024		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	U	5,000	0	0	0		0			
Surr: Toluene-d8	4664	0	5000	0	93.3	75-120	0			

LCS		Sample ID: LCS-249329-249329				Units: µg/Kg-dry		Analysis Date: 11/15/2024 05:29 PM		
Client ID:		Run ID: GC9_241115A				SeqNo: 11261496		Prep Date: 11/15/2024		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	233900	5,000	250000	0	93.6	63-126	0			
Surr: Toluene-d8	5014	0	5000	0	100	75-120	0			

MS		Sample ID: 24110389-02A MS				Units: µg/Kg-dry		Analysis Date: 11/15/2024 08:48 PM		
Client ID: FtL02 @ 3.5'-4.0'		Run ID: GC9_241115A				SeqNo: 11261504		Prep Date: 11/15/2024		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	341700	6,300	316000	0	108	63-126	0			
Surr: Toluene-d8	6699	0	6320	0	106	75-120	0			

MSD		Sample ID: 24110389-02A MSD				Units: µg/Kg-dry		Analysis Date: 11/15/2024 09:10 PM		
Client ID: FtL02 @ 3.5'-4.0'		Run ID: GC9_241115A				SeqNo: 11261505		Prep Date: 11/15/2024		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	343100	6,300	316000	0	109	63-126	0	0	30	
Surr: Toluene-d8	6582	0	6320	0	104	75-120	0	0	30	

The following samples were analyzed in this batch:

24110389-01A	24110389-02A	24110389-03A
24110389-04A	24110389-05A	24110389-06A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Williams Midstream
Work Order: 24110389
Project: WP0188995

QC BATCH REPORT

Batch ID: 249734 Instrument ID ICPMS3 Method: SW6020B

MBLK		Sample ID: MBLK-249734-249734				Units: mg/Kg		Analysis Date: 11/25/2024 09:40 PM		
Client ID:		Run ID: ICPMS3_241125B		SeqNo: 11277678		Prep Date: 11/25/2024		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Boron (Hot Water Soluble)	0.00638	0.040								J

LCS		Sample ID: LCS-249734-249734				Units: mg/Kg		Analysis Date: 11/25/2024 09:42 PM		
Client ID:		Run ID: ICPMS3_241125B		SeqNo: 11277679		Prep Date: 11/25/2024		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Boron (Hot Water Soluble)	0.8874	0.040	1	0	88.7	80-120		0		

The following samples were analyzed in this batch:	24110389-01C	24110389-02C	24110389-03C
	24110389-04C	24110389-05C	24110389-06C

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Williams Midstream
Work Order: 24110389
Project: WP0188995

QC BATCH REPORT

Batch ID: 249887 Instrument ID ICPMS3 Method: SW6020B

DUP		Sample ID: 24110502-02ADUP				Units: mg/L		Analysis Date: 12/2/2024 06:33 PM		
Client ID:		Run ID: ICPMS3_241202A				SeqNo: 11287305		Prep Date: 12/2/2024		DF: 10
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	261.3	5.0	0	0	0	0-0	513.1	65		
Magnesium	118.3	2.0	0	0	0	0-0	235.8	66.4		
Sodium	43.84	2.0	0	0	0	0-0	83.68	62.5		

The following samples were analyzed in this batch:

24110389-01D	24110389-02D	24110389-03D
24110389-04D	24110389-05D	24110389-06D

Batch ID: 249887 Instrument ID SAR Method: USDA H60 Metho

DUP		Sample ID: 24110502-02ADUP				Units: none		Analysis Date: 12/2/2024		
Client ID:		Run ID: SAR_241202A				SeqNo: 11287370		Prep Date: 12/2/2024		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sodium Adsorption Ratio	0.5651	0.010	0	0	0		0.7673	30.3	50	

The following samples were analyzed in this batch:

24110389-01D	24110389-02D	24110389-03D
24110389-04D	24110389-05D	24110389-06D

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Williams Midstream
Work Order: 24110389
Project: WP0188995

QC BATCH REPORT

Batch ID: 249365 Instrument ID SVMS6 Method: SW8270E

MBLK				Sample ID: MBLK-249365-249365			Units: µg/Kg		Analysis Date: 11/18/2024 04:13 PM		
Client ID:			Run ID: SVMS6_241118A			SeqNo: 11262296		Prep Date: 11/18/2024		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
1-Methylnaphthalene	U	4.2									
2-Methylnaphthalene	U	4.2									
Acenaphthene	U	4.2									
Anthracene	U	4.2									
Benzo(a)anthracene	U	4.2									
Benzo(a)pyrene	U	4.2									
Benzo(b)fluoranthene	U	4.2									
Benzo(k)fluoranthene	U	4.2									
Chrysene	U	4.2									
Dibenzo(a,h)anthracene	U	4.2									
Fluoranthene	U	4.2									
Fluorene	U	4.2									
Indeno(1,2,3-cd)pyrene	U	4.2									
Naphthalene	U	4.2									
Pyrene	U	4.2									
Surr: 2-Fluorobiphenyl	594.6	0	666.6	0	89.2	44-132		0			
Surr: 4-Terphenyl-d14	626	0	666.6	0	93.9	35-133		0			
Surr: Nitrobenzene-d5	570.4	0	666.6	0	85.6	30-133		0			

LCS				Sample ID: LCS-249365-249365			Units: µg/Kg		Analysis Date: 11/18/2024 04:29 PM		
Client ID:			Run ID: SVMS6_241118A			SeqNo: 11262297		Prep Date: 11/18/2024		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
1-Methylnaphthalene	580.4	4.2	666.6	0	87.1	39-165	0				
2-Methylnaphthalene	581.5	4.2	666.6	0	87.2	32-158	0				
Acenaphthene	598.9	4.2	666.6	0	89.8	42-155	0				
Anthracene	452.3	4.2	666.6	0	67.8	41-155	0				
Benzo(a)anthracene	568.2	4.2	666.6	0	85.2	39-155	0				
Benzo(a)pyrene	601.3	4.2	666.6	0	90.2	36-158	0				
Benzo(b)fluoranthene	586.2	4.2	666.6	0	87.9	36-146	0				
Benzo(k)fluoranthene	599.6	4.2	666.6	0	89.9	36-150	0				
Chrysene	549.1	4.2	666.6	0	82.4	41-162	0				
Dibenzo(a,h)anthracene	551.8	4.2	666.6	0	82.8	27-167	0				
Fluoranthene	489.8	4.2	666.6	0	73.5	39-156	0				
Fluorene	577.6	4.2	666.6	0	86.7	37-153	0				
Indeno(1,2,3-cd)pyrene	590.1	4.2	666.6	0	88.5	24-171	0				
Naphthalene	560.1	4.2	666.6	0	84	43-156	0				
Pyrene	556.8	4.2	666.6	0	83.5	32-147	0				
Surr: 2-Fluorobiphenyl	551.4	0	666.6	0	82.7	44-132	0				
Surr: 4-Terphenyl-d14	601.1	0	666.6	0	90.2	35-133	0				
Surr: Nitrobenzene-d5	490.8	0	666.6	0	73.6	30-133	0				

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Williams Midstream
Work Order: 24110389
Project: WP0188995

QC BATCH REPORT

Batch ID: **249365** Instrument ID **SVMS6** Method: **SW8270E**

MS				Sample ID: 24110343-06A MS			Units: µg/Kg		Analysis Date: 11/18/2024 09:34 PM	
Client ID:		Run ID: SVMS6_241118A			SeqNo: 11262298		Prep Date: 11/18/2024		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1-Methylnaphthalene	3337	19	3056	0	109	39-165	0			
2-Methylnaphthalene	3434	19	3056	9.582	112	32-158	0			
Acenaphthene	3141	19	3056	0	103	42-155	0			
Anthracene	2580	19	3056	0	84.4	41-155	0			
Benzo(a)anthracene	3294	19	3056	0	108	39-155	0			
Benzo(a)pyrene	3761	19	3056	0	123	36-158	0			
Benzo(b)fluoranthene	3704	19	3056	0	121	36-146	0			
Benzo(k)fluoranthene	3778	19	3056	0	124	36-150	0			
Chrysene	3251	19	3056	0	106	41-162	0			
Dibenzo(a,h)anthracene	3076	19	3056	0	101	27-167	0			
Fluoranthene	2975	19	3056	0	97.4	39-156	0			
Fluorene	3037	19	3056	0	99.4	37-153	0			
Indeno(1,2,3-cd)pyrene	3245	19	3056	0	106	24-171	0			
Naphthalene	3331	19	3056	0	109	43-156	0			
Pyrene	3230	19	3056	0	106	32-147	0			
Surr: 2-Fluorobiphenyl	3125	0	3056	0	102	44-132	0			
Surr: 4-Terphenyl-d14	3225	0	3056	0	106	35-133	0			
Surr: Nitrobenzene-d5	2826	0	3056	0	92.5	30-133	0			

MSD				Sample ID: 24110343-06A MSD			Units: µg/Kg		Analysis Date: 11/18/2024 09:50 PM	
Client ID:		Run ID: SVMS6_241118A			SeqNo: 11262299		Prep Date: 11/18/2024		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1-Methylnaphthalene	3208	19	3057	0	105	39-165	3337	3.95	30	
2-Methylnaphthalene	3176	19	3057	9.582	104	32-158	3434	7.82	30	
Acenaphthene	3058	19	3057	0	100	42-155	3141	2.69	30	
Anthracene	2471	19	3057	0	80.8	41-155	2580	4.35	30	
Benzo(a)anthracene	3116	19	3057	0	102	39-155	3294	5.54	30	
Benzo(a)pyrene	3350	19	3057	0	110	36-158	3761	11.6	30	
Benzo(b)fluoranthene	3219	19	3057	0	105	36-146	3704	14	30	
Benzo(k)fluoranthene	3394	19	3057	0	111	36-150	3778	10.7	30	
Chrysene	3019	19	3057	0	98.7	41-162	3251	7.4	30	
Dibenzo(a,h)anthracene	3082	19	3057	0	101	27-167	3076	0.182	30	
Fluoranthene	2637	19	3057	0	86.3	39-156	2975	12	30	
Fluorene	3198	19	3057	0	105	37-153	3037	5.18	30	
Indeno(1,2,3-cd)pyrene	3260	19	3057	0	107	24-171	3245	0.472	30	
Naphthalene	3368	19	3057	0	110	43-156	3331	1.11	30	
Pyrene	3065	19	3057	0	100	32-147	3230	5.24	30	
Surr: 2-Fluorobiphenyl	3034	0	3057	0	99.2	44-132	3125	2.95	30	
Surr: 4-Terphenyl-d14	3182	0	3057	0	104	35-133	3225	1.35	30	
Surr: Nitrobenzene-d5	2746	0	3057	0	89.8	30-133	2826	2.86	30	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Williams Midstream
Work Order: 24110389
Project: WP0188995

QC BATCH REPORT

Batch ID: **249365** Instrument ID **SVMS6** Method: **SW8270E**

The following samples were analyzed in this batch:

24110389-01C	24110389-02C	24110389-03C
24110389-04C	24110389-05C	24110389-06C

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Williams Midstream
Work Order: 24110389
Project: WP0188995

QC BATCH REPORT

Batch ID: R415148a Instrument ID VMS9 Method: SW8260D

MBLK				Sample ID: 9V-BLKS1-241121-R415148a				Units: µg/Kg		Analysis Date: 11/21/2024 10:33 PM		
Client ID:			Run ID: VMS9_241121A			SeqNo: 11270392		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual		
1,2,4-Trimethylbenzene	U	5.0										
1,3,5-Trimethylbenzene	U	5.0										
Benzene	U	5.0										
Ethylbenzene	U	5.0										
m,p-Xylene	U	2.5										
o-Xylene	U	2.5										
Toluene	U	5.0										
Xylenes, Total	U	5.0										
Surr: 1,2-Dichloroethane-d4	19.81	0	20	0	99	83-132		0				
Surr: 4-Bromofluorobenzene	18.92	0	20	0	94.6	83-111		0				
Surr: Dibromofluoromethane	19.86	0	20	0	99.3	77-125		0				
Surr: Toluene-d8	19.33	0	20	0	96.6	86-108		0				

MBLK				Sample ID: 9V-BLKS1-241121-R415148a				Units: µg/Kg			Analysis Date: 11/21/2024 10:33 PM		
Client ID:			Run ID: VMS9_241121A				SeqNo: 11270421		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual			
1,2,4-Trimethylbenzene	U	5.0											
1,3,5-Trimethylbenzene	U	5.0											
Benzene	U	5.0											
Ethylbenzene	U	5.0											
m,p-Xylene	U	2.5											
o-Xylene	U	2.5											
Toluene	U	5.0											
Xylenes, Total	U	5.0											
Surr: 1,2-Dichloroethane-d4	19.81	0	20	0	99	70-130		0					
Surr: 4-Bromofluorobenzene	18.92	0	20	0	94.6	70-130		0					
Surr: Dibromofluoromethane	19.86	0	20	0	99.3	70-130		0					
Surr: Toluene-d8	19.33	0	20	0	96.6	70-130		0					

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Williams Midstream
Work Order: 24110389
Project: WP0188995

QC BATCH REPORT

Batch ID: **R415148a** Instrument ID **VMS9** Method: **SW8260D**

LCS					Sample ID: 9V-LCSS1-241121-R415148a		Units: µg/Kg		Analysis Date: 11/21/2024 09:29 PM		
Client ID:			Run ID: VMS9_241121A			SeqNo: 11270389		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
1,2,4-Trimethylbenzene	18.38	5.0	20	0	91.9	71-133	0				
1,3,5-Trimethylbenzene	19.38	5.0	20	0	96.9	71-139	0				
Benzene	18.98	5.0	20	0	94.9	77-133	0				
Ethylbenzene	18.26	5.0	20	0	91.3	75-133	0				
m,p-Xylene	37.99	2.5	40	0	95	75-134	0				
o-Xylene	18.55	2.5	20	0	92.8	76-130	0				
Toluene	18.83	5.0	20	0	94.2	76-130	0				
Xylenes, Total	56.54	5.0	60	0	94.2	75-132	0				
Surr: 1,2-Dichloroethane-d4	20.06	0	20	0	100	83-132	0				
Surr: 4-Bromofluorobenzene	20.69	0	20	0	103	83-111	0				
Surr: Dibromofluoromethane	19.9	0	20	0	99.5	77-125	0				
Surr: Toluene-d8	20.46	0	20	0	102	86-108	0				

LCS				Sample ID: 9V-LCSS1-241121-R415148a				Units: µg/Kg		Analysis Date: 11/21/2024 09:29 PM			
Client ID:			Run ID: VMS9_241121A			SeqNo: 11270418		Prep Date:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual			
1,2,4-Trimethylbenzene	18.38	5.0	20	0	91.9	65-135	0						
1,3,5-Trimethylbenzene	19.38	5.0	20	0	96.9	65-135	0						
Benzene	18.98	5.0	20	0	94.9	75-125	0						
Ethylbenzene	18.26	5.0	20	0	91.3	75-125	0						
m,p-Xylene	37.99	2.5	40	0	95	80-125	0						
o-Xylene	18.55	2.5	20	0	92.8	75-125	0						
Toluene	18.83	5.0	20	0	94.2	70-125	0						
Surr: 1,2-Dichloroethane-d4	20.06	0	20	0	100	70-130	0						
Surr: 4-Bromofluorobenzene	20.69	0	20	0	103	70-130	0						
Surr: Dibromofluoromethane	19.9	0	20	0	99.5	70-130	0						
Surr: Toluene-d8	20.46	0	20	0	102	70-130	0						

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Williams Midstream
Work Order: 24110389
Project: WP0188995

QC BATCH REPORT

Batch ID: **R415148a** Instrument ID **VMS9** Method: **SW8260D**

MS				Sample ID: 24110318-01A MS			Units: µg/Kg		Analysis Date: 11/22/2024 04:11 AM		
Client ID:			Run ID: VMS9_241121A			SeqNo: 11270413		Prep Date:		DF: 0.998	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
1,2,4-Trimethylbenzene	10.78	5.0	19.96	0	54	71-133	0			S	
1,3,5-Trimethylbenzene	13.34	5.0	19.96	0	66.9	71-139	0			S	
Benzene	17.23	5.0	19.96	0.4035	84.3	77-133	0				
Ethylbenzene	14.42	5.0	19.96	0.3492	70.5	75-133	0			S	
m,p-Xylene	27.95	2.5	39.92	0.3337	69.2	75-134	0			S	
o-Xylene	14.26	2.5	19.96	0	71.4	76-130	0			S	
Toluene	15.84	5.0	19.96	0.9079	74.8	76-130	0			S	
Xylenes, Total	42.22	5.0	59.88	0	70.5	75-132	0			S	
Surr: 1,2-Dichloroethane-d4	21.7	0	19.96	0	109	83-132	0				
Surr: 4-Bromofluorobenzene	21.44	0	19.96	0	107	83-111	0				
Surr: Dibromofluoromethane	21.01	0	19.96	0	105	77-125	0				
Surr: Toluene-d8	19.41	0	19.96	0	97.2	86-108	0				

MS				Sample ID: 24110318-01A MS		Units: µg/Kg		Analysis Date: 11/22/2024 04:11 AM		
Client ID:			Run ID: VMS9_241121A		SeqNo: 11270451		Prep Date:		DF: 0.998	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trimethylbenzene	10.78	5.0	19.96	0	54	65-135	0			S
1,3,5-Trimethylbenzene	13.34	5.0	19.96	0	66.9	65-135	0			
Benzene	17.23	5.0	19.96	0.4035	84.3	75-125	0			
Ethylbenzene	14.42	5.0	19.96	0.3492	70.5	75-125	0			S
m,p-Xylene	27.95	2.5	39.92	0.3337	69.2	80-125	0			S
o-Xylene	14.26	2.5	19.96	0	71.4	75-125	0			S
Toluene	15.84	5.0	19.96	0.9079	74.8	70-125	0			
Surr: 1,2-Dichloroethane-d4	21.7	0	19.96	0	109	70-130	0			
Surr: 4-Bromofluorobenzene	21.44	0	19.96	0	107	70-130	0			
Surr: Dibromofluoromethane	21.01	0	19.96	0	105	70-130	0			
Surr: Toluene-d8	19.41	0	19.96	0	97.2	70-130	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Williams Midstream
Work Order: 24110389
Project: WP0188995

QC BATCH REPORT

Batch ID: **R415148a** Instrument ID **VMS9** Method: **SW8260D**

MSD					Sample ID: 24110318-01A MSD		Units: µg/Kg		Analysis Date: 11/22/2024 04:27 AM		
Client ID:			Run ID: VMS9_241121A			SeqNo: 11270414		Prep Date:		DF: 0.978	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
1,2,4-Trimethylbenzene	10.24	4.9	19.56	0	52.4	71-133	10.78	5.13	30	S	
1,3,5-Trimethylbenzene	12.37	4.9	19.56	0	63.2	71-139	13.34	7.56	30	S	
Benzene	15.88	4.9	19.56	0.4035	79.1	77-133	17.23	8.11	30		
Ethylbenzene	13.22	4.9	19.56	0.3492	65.8	75-133	14.42	8.67	30	S	
m,p-Xylene	25.76	2.4	39.12	0.3337	65	75-134	27.95	8.17	30	S	
o-Xylene	13.49	2.4	19.56	0	68.9	76-130	14.26	5.58	30	S	
Toluene	15.17	4.9	19.56	0.9079	72.9	76-130	15.84	4.32	30	S	
Xylenes, Total	39.25	4.9	58.68	0	66.9	75-132	42.22	7.29	30	S	
Surr: 1,2-Dichloroethane-d4	20.55	0	19.56	0	105	83-132	21.7	5.44	30		
Surr: 4-Bromofluorobenzene	20.13	0	19.56	0	103	83-111	21.44	6.3	30		
Surr: Dibromofluoromethane	20.19	0	19.56	0	103	77-125	21.01	3.99	30		
Surr: Toluene-d8	19.5	0	19.56	0	99.7	86-108	19.41	0.464	30		

MSD					Sample ID: 24110318-01A MSD		Units: µg/Kg		Analysis Date: 11/22/2024 04:27 AM		
Client ID:			Run ID: VMS9_241121A			SeqNo: 11270452		Prep Date:		DF: 0.978	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
1,2,4-Trimethylbenzene	10.24	4.9	19.56	0	52.4	65-135	10.78	5.13	30	S	
1,3,5-Trimethylbenzene	12.37	4.9	19.56	0	63.2	65-135	13.34	7.56	30	S	
Benzene	15.88	4.9	19.56	0.4035	79.1	75-125	17.23	8.11	30		
Ethylbenzene	13.22	4.9	19.56	0.3492	65.8	75-125	14.42	8.67	30	S	
m,p-Xylene	25.76	2.4	39.12	0.3337	65	80-125	27.95	8.17	30	S	
o-Xylene	13.49	2.4	19.56	0	68.9	75-125	14.26	5.58	30	S	
Toluene	15.17	4.9	19.56	0.9079	72.9	70-125	15.84	4.32	30		
Surr: 1,2-Dichloroethane-d4	20.55	0	19.56	0	105	70-130	21.7	5.44	30		
Surr: 4-Bromofluorobenzene	20.13	0	19.56	0	103	70-130	21.44	6.3	30		
Surr: Dibromofluoromethane	20.19	0	19.56	0	103	70-130	21.01	3.99	30		
Surr: Toluene-d8	19.5	0	19.56	0	99.7	70-130	19.41	0.464	30		

The following samples were analyzed in this batch:

24110389-01A	24110389-02A	24110389-03A
24110389-04A	24110389-05A	24110389-06A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Williams Midstream
Work Order: 24110389
Project: WP0188995

QC BATCH REPORT

Batch ID: 249887 Instrument ID WETCHEM Method: USDA H60 Metho

DUP		Sample ID: 24110502-02A DUP				Units: mmhos/cm @25°		Analysis Date: 12/4/2024 09:55 AM		
Client ID:		Run ID: WETCHEM_241204D		SeqNo: 11290259		Prep Date: 12/2/2024		DF: 20		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Electrical Conductivity @ Saturation 4.95 0.10 0 0 0 5.272 6.3 50

DUP		Sample ID: 24110559-01A DUP				Units: mmhos/cm @25°		Analysis Date: 12/4/2024 09:55 AM		
Client ID:		Run ID: WETCHEM_241204D		SeqNo: 11290261		Prep Date: 12/2/2024		DF: 20		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Electrical Conductivity @ Saturation 0.2742 0.10 0 0 0 0.3668 28.9 50

The following samples were analyzed in this batch:	24110389-01D	24110389-02D	24110389-03D
	24110389-04D	24110389-05D	24110389-06D

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Williams Midstream
Work Order: 24110389
Project: WP0188995

QC BATCH REPORT

Batch ID: **R414835** Instrument ID **MOIST** Method: **SW3550C**

MBLK		Sample ID: MBLK-R414835				Units: % of sample		Analysis Date: 11/16/2024 12:47 PM		
Client ID:		Run ID: MOIST_241116A		SeqNo: 11259988		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	U	0.10								

LCS		Sample ID: LCS-R414835				Units: % of sample		Analysis Date: 11/16/2024 12:47 PM		
Client ID:		Run ID: MOIST_241116A		SeqNo: 11259987		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	100	0.10	100	0	100	98-102	0			

DUP		Sample ID: 24110433-01B DUP				Units: % of sample		Analysis Date: 11/16/2024 12:47 PM		
Client ID:		Run ID: MOIST_241116A		SeqNo: 11259984		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	4.7	0.10	0	0	0	0-0	4.68	0.426	10	

DUP		Sample ID: 24110433-02A DUP				Units: % of sample		Analysis Date: 11/16/2024 12:47 PM		
Client ID:		Run ID: MOIST_241116A		SeqNo: 11259986		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	7.96	0.10	0	0	0	0-0	7.52	5.68	10	

The following samples were analyzed in this batch:

24110389-01B	24110389-02B	24110389-03B
24110389-04B	24110389-05B	24110389-06B

Note: See Qualifiers Page for a list of Qualifiers and their explanation.



24110389

WILLIAMSMIDSTREAM: Williams Midstream
Project: WP0188995

Chain of Custody Form

Page 1 of 1

COC ID: 075119

Houston, TX
+1 281 530 5656Middletown, PA
+1 717 944 5541Valparaiso, IN
+1 219 299 8127Salt Lake City, UT
+1 801 266 7700South Charleston, WV
+1 304 356 3168Rochester, NY
+1 585 288 5380

Purchase Order		ALS Project Manager:		ALS Work Order #:	
Quote #		Project Information		Parameter/Method Request for Analysis	
Company Name		Project Number		A ERO C10-C36	
Send Report To		Bill To Company		B GRO C6-C10	
Address		Invoice Attn		C EC	
City/State/Zip		Address		D Com ID SAR	
Phone		City/State/Zip		E pH (USDA method)	
Fax		Phone		F BTEX/TMBs	
e-Mail Address		e-Mail Address		G Hot water soluble Boron	
				H Table 915-1 PA Hs	
				I	
				J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	F+L01 @ 3.5' - 4.0'	11-2-24	4:30	10:50	y	6	X	X	X	X	X	X	X	X			
2	F+L02 @ 3.5' - 4.0'		12:40	11:30	y	6	X	X	X	X	X	X	X	X			
3	F+L03 @ 3.5' - 4.0'		13:20	12:40	y	6	X	X	X	X	X	X	X	X			
4	F+L04 @ 3.5' - 4.0'		14:00	13:20	y	6	X	X	X	X	X	X	X	X			
5	F+L05 @ 3.5' - 4.0'			14:00	y	6	X	X	X	X	X	X	X	X			
6	F+L06 @ 3.5' - 4.0'			14:30	y	6	X	X	X	X	X	X	X	X			
7																	
8																	
9																	
10																	

Sampler(s) Please Print & Sign		Shipment Method		Turnaround Time in Business Days (BD)		Other		Results Due Date:	
Adam Varns		Overnight STD		10 BD		5 BD		3 BD	
Relinquished by:		Date:		Time:		Received by:		Notes:	
		11-2-24		16:15				Matrix is all soil	
Relinquished by:		Date:		Time:		Received by (Laboratory):		Cooler ID	
								Cooler Temp.	
Logged by (Laboratory):		Date:		Time:		Checked by (Laboratory):		QC Package: (Check One Box Below)	
								☐ Level II Std QC ☐ Level III Std QC/Raw Data ☐ Level IV SW846/CLP ☐ Other	

Preservative Key:	1-HCl	2-HNO ₃	3-H ₂ SO ₄	4-NaOH	5-Na ₂ S ₂ O ₃	6-NaHSO ₄	7-Other	8-4°C	9-5035
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Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.

2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.

3. The Chain of Custody is a legal document. All information must be completed accurately.

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ALS-COC-2022-R00

Sample Receipt Checklist

Client Name: **WILLIAMSMIDSTREAM**

Date/Time Received: **13-Nov-24 09:45**

Work Order: **24110389**

Received by: **DS**

Checklist completed by **Diane Shaw**

14-Nov-24

Reviewed by: **Chad Whelton**

18-Nov-24

eSignature

Date

eSignature

Date

Matrices: **Soil**

Carrier name: **FedEx**

Shipping container/cooler in good condition?

Yes ☒

No ☐

Not Present ☐

Custody seals intact on shipping container/cooler?

Yes ☒

No ☐

Not Present ☐

Custody seals intact on sample bottles?

Yes ☐

No ☐

Not Present ☒

Chain of custody present?

Yes ☒

No ☐

Chain of custody signed when relinquished and received?

Yes ☒

No ☐

Chain of custody agrees with sample labels?

Yes ☒

No ☐

Samples in proper container/bottle?

Yes ☒

No ☐

Sample containers intact?

Yes ☒

No ☐

Sufficient sample volume for indicated test?

Yes ☒

No ☐

All samples received within holding time?

Yes ☒

No ☐

Container/Temp Blank temperature in compliance?

Yes ☒

No ☐

Sample(s) received on ice?

Yes ☒

No ☐

Temperature(s)/Thermometer(s):

2.9/2.9 c

DF2

Cooler(s)/Kit(s):

Date/Time sample(s) sent to storage:

11/14/2024 4:28:04 PM

Water - VOA vials have zero headspace?

Yes ☐

No ☐

No VOA vials submitted ☒

Water - pH acceptable upon receipt?

Yes ☐

No ☐

N/A ☒

pH adjusted?

Yes ☐

No ☐

N/A ☒

pH adjusted by:

-

Login Notes:

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

CorrectiveAction: