Remediation
Soil & Groundwater Sampling Fieldsheet

* * * Facility Information * * *

O&G Site Name	Arapaho Unit 178	**Client**	Citation	**REM Project #**	CIT.CO.1054
Weather	Sunny, 70F	**Surface Flow Direction**	North		
API/TB#		**Liner present?**	No	**Site Coordinates**	38.82202,-102.11125

Directions to Well:

* * * Sampling Information * * *

Sample Date 8/21/2025

Sampler(s) SW/BM

Sample ID	Time	Date	Lab?	PID (ppm)	Location Description	Staining/ Odor	Color/ Lithology	
AU_178_WH_B01@6'	10:00	8/21/2025	Yes	9.8	Base of wellhead	No	BRN	SANDY LOAM
AU_178_WH_Riser@4'	10:05	8/21/2025	Yes	2.0	FL @ WH	No	BRN	SANDY LOAM
AU_178_WH_N01@3'	10:07	8/21/2025	No	0.8	North wall of excavation	No	BRN	SANDY LOAM
AU_178_WH_S01@3'	10:09	8/21/2025	No	0.9	South wall of excavation	No	BRN	SANDY LOAM
AU_178_WH_E01@3'	10:11	8/21/2025	No	1.1	East wall of excavation	No	BRN	SANDY LOAM
AU_178_WH_W01@3'	10:13	8/21/2025	No	0.2	West wall of excavation	No	BRN	SANDY LOAM
AU_178_WHS_N01@3"	10:15	8/21/2025	No	0.7	Surface north of WH	No	BRN	SANDY LOAM
AU_178_WHS_S01@3"	10:18	8/21/2025	No	0.8	Surface south of WH	No	BRN	SANDY LOAM
AU_178_WHS_E01@3"	10:20	8/21/2025	No	1.6	Surface east of WH	No	BRN	SANDY LOAM
AU_178_WHS_W01@3"	10:25	8/21/2025	No	0.7	Surface west of WH	No	BRN	SANDY LOAM

Decon Methods: Alconox & DI Water

Depth GW observed: None

GW Sampling

Sample ID	Date	Time	Odor?	Sheen?	Sample ID	Date	Time	Odor?	Sheen?

Site Comments:

Remediation
Soil & Groundwater Sampling Fieldsheet

* * * Facility Information * * *

O&G Site Name	Citation Arapahoe Unit 178	**Client**	Citation	**REM Project #**	CIT.CO.1054
Weather	Sunny 60F	**Surface Flow Direction**	North		
API/TB#		**Liner present?**	N/A	**Site Coordinates**	38.822025, -102.111367

Directions to Well:

* * * Sampling Information * * *

Sample Date 9/15/2025

Sampler(s) DM/BM

Sample ID	Time	Date	Lab?	PID (ppm)	Location Description	Staining/ Odor	Color/ Lithology	
AU_178_WH_BG@5'	11:30	9/15/2025	Yes	0.2	75' West of pad	No	BRN	SANDY LOAM
AU_178_WH_RISER@8'	11:45	9/15/2025	Yes	0.6	Riser south of WH	No	BRN	SANDY LOAM
AU_178_WH_RISER@14'	12:00	9/15/2025	Yes	0	Riser south of WH	No	BRN	SANDY LOAM
AU_178_WH_B01@8'	12:15	9/15/2025	Yes	0	Base of WH	No	BRN	SANDY LOAM
AU_178_WH_B01@14'	12:30	9/15/2025	Yes	0.1	Base of WH	No	BRN	SANDY LOAM
AU_178_WH_TBRISER@4'	12:45	9/15/2025	Yes	0	North side of TB	No	BRN	SANDY LOAM

Decon Methods: Alconox & DI Water

Depth GW observed: None

GW Sampling

Sample ID	Date	Time	Odor?	Sheen?	Sample ID	Date	Time	Odor?	Sheen?

Site Comments:

Remediation
Soil & Groundwater Sampling Fieldsheet

* * * Facility Information * * *

O&G Site Name	Arapahoe Unit 178	**Client**	Citation	**REM Project #**	CIT.CO.1054
Weather	38F Partly Cloudy	**Surface Flow Direction**	North		
API/TB#		**Liner present?**	No	**Site Coordinates**	38.82202,-102.11125

Directions to Well: Head 1 mile East of intersection of CR 56 and CR Q, turn North for half a mile once you hit the curve going West turn at the two track going I

* * * Sampling Information * * *

Sample Date 10/23/2025

Sampler(s) DM

Sample ID	Time	Date	Lab?	PID (ppm)	Location Description	Staining/ Odor	Color/ Lithology	
AU_178_WHB_W@2'	8:00	10/23/2025	Yes	2.7	7' W of AU_178_WH_B01	No	BRN	SANDY LOAM
AU_178_WHB_W@5'	8:10	10/23/2025	Yes	1.4	7' W of AU_178_WH_B01	No	BRN	SANDY LOAM
AU_178_WHB_N@2'	8:20	10/23/2025	Yes	0.5	7' N of AU_178_WH_B01	No	BRN	SANDY LOAM
AU_178_WHB_N@5'	8:30	10/23/2025	Yes	0.2	7' N of AU_178_WH_B01	No	BRN	SANDY LOAM
AU_178_WHB_E@2'	8:40	10/23/2025	Yes	0.2	7' E of AU_178_WH_B01	No	BRN	SANDY LOAM
AU_178_WHB_E@5'	8:50	10/23/2025	Yes	0.2	7' E of AU_178_WH_B01	No	BRN	SANDY LOAM
AU_178_WH_B01@18'	9:00	10/23/2025	Yes	0.3	1' W of wellhead	No	BRN	SANDY LOAM
AU_178_WH_B01@20'	9:10	10/23/2025	Yes	0.3	1' W of wellhead	No	BRN	SANDY LOAM

Decon Methods: Alconox & DI Water

Depth GW observed: None

GW Sampling

Sample ID	Date	Time	Odor?	Sheen?	Sample ID	Date	Time	Odor?	Sheen?

Site Comments:

No clean fill sign

Remediation
Soil & Groundwater Sampling Fieldsheet

* * * Facility Information * * *

O&G Site Name	Arapahoe Unit 178	**Client**	Citation	**REM Project #**	CIT.CO.1054
Weather	54F Sunny	**Surface Flow Direction**	North		
API/TB#		**Liner present?**	No	**Site Coordinates**	38.82202,-102.11125

Directions to Well: Head 1 mile East of intersection of CR 56 and CR Q, turn North for half a mile once you hit the curve going West turn at the two track going N

* * * Sampling Information * * *

Sample Date 11/11/2025

Sampler(s) DM

Sample ID	Time	Date	Lab?	PID (ppm)	Location Description	Staining/ Odor	Color/ Lithology	
AU_178_WHB_W@10'	8:00	11/11/2025	Yes	0.1	Center ramp into excavation	No	BRN	SANDY LOAM
AU_178_WHB_W@14'	8:10	11/11/2025	Yes	2.4	Center ramp into excavation	No	BRN	SANDY LOAM
AU_178_WHB1@2'	8:20	11/11/2025	Yes	0.5	5' West WHB_W	No	BRN	SANDY LOAM
AU_178_WHB1@5'	8:30	11/11/2025	Yes	0.6	5' West WHB_W	No	BRN	SANDY LOAM
AU_178_WHB2@2'	8:40	11/11/2025	Yes	0.7	5' North WHB_W	No	BRN	SANDY LOAM
AU_178_WHB2@5'	8:50	11/11/2025	Yes	0.7	5' North WHB_W	No	BRN	SANDY LOAM
AU_178_WHB3@2'	9:00	11/11/2025	Yes	0.7	6' South WHB_W	No	BRN	SANDY LOAM
AU_178_WHB3@5'	9:10	11/11/2025	Yes	0.6	6' South WHB_W	No	BRN	SANDY LOAM
AU_178_WH_BG02@5'	9:20	11/11/2025	Yes	0.3	75' East of pad	No	BRN	SANDY LOAM
AU_178_WH_BG02@10'	9:30	11/11/2025	Yes	0.6	75' East of pad	No	BRN	SANDY LOAM

Decon Methods: Alconox & DI Water

Depth GW observed: None

GW Sampling

Sample ID	Date	Time	Odor?	Sheen?	Sample ID	Date	Time	Odor?	Sheen?

Site Comments:

No clean fill sign. Redox features iron concretions at 1' WHB2. Sandy layer at 5' WHB2. BG02 samples are sandy.

Remediation
Soil & Groundwater Sampling Fieldsheet

* * * Facility Information * * *

O&G Site Name	Arapahoe Unit 178	**Client**	Citation	REM Project #	CIT.CO.1054
Weather	41F Clear 9mph ESE	**Surface Flow Direction**	NNW		
API/TB#		**Liner present?**	N/A	**Site Coordinates**	38.822024N, -102.111367W

Directions to Well: From the intersection of CR Q & CR 58 - 1 mile west, 0.5 mile north, 600 feet west, 500 feet into

* * * Sampling Information * * *

Sample Date: 12/16/2025

Sampler(s): BM

Sample ID	Time	Date	Lab?	PID (ppm)	Location Description	Staining	Color/ Lithology	
AU_178_WHB_N@2'R	9:00	12/16/2025	Yes	0.3	North wall of excavation	N	TAN	CLAY LOAM
AU_178_WHB_E@2'R	9:10	12/16/2025	Yes	0.2	East wall of excavation	N	TAN	CLAY LOAM
AU_178_WHB_W@18'	10:00	12/16/2025	Yes	0.4	West side of excavation	N	TAN	CLAY LOAM
AU_178_WHB_W@20'	10:20	12/16/2025	Yes	0.3	West side of excavation	N	TAN	CLAY LOAM

Decon Methods: Alconox & DI Water

Depth GW observed: None

GW Sampling

Sample ID	Date	Time	Odor?	Sheen?	Sample ID	Date	Time	Odor?	Sheen?

Site Comments: PID Bump Test - 101.8ppm (100ppm isobutylene)