

Location Checklist



Operator / #	CRESTONE PEAK RESOURCES OPERATING LLC / 10633		
Location ID & Name	336420 BOULDER BANK -61N66W/7NESE		
County	WELD, CO		
Well Information	Well Name:	BOULDER BANK #3-7	
	Well API #:	05-123-14604	
	Lat/Long as Drilled:	40.062764 / -104.814685	
	Plug Date & Form 6s Doc #:	07/12/2018, 401712767	
Well Information	Well Name:	BOULDER BANK #43-7	
	Well API #:	05-123-19893	
	Lat/Long as Drilled:	40.062876 / -104.814635	
	Plug Date & Form 6s Doc #:	03/23/2018, 401621468	
Well Information	Well Name:	BOULDER BANK #44-7	
	Well API #:	05-123-21277	
	Lat/Long as Drilled:	40.062781 / -104.814789	
	Plug Date & Form 6s Doc #:	07/12/2018, 401707088	
Well Information	Well Name:	BOULDER BANK #33-7	
	Well API #:	05-123-21278	
	Lat/Long as Drilled:	40.062863 / -104.814757	
	Plug Date & Form 6s Doc #:	07/12/2018, 401707146	
Facility Entities	x	Tank Battery	Pits
	x	Wells	x On-Location Flowlines (Form 42) Doc #: 401900425 , 401900455 , 401900473 , 401900406
		Domestic Taps	x Off-Location Flowlines (Form 44) Doc #: 401902791
Equipment On-Site	x	None	Debris
		Pit mouse/rat holes, cellars backfilled	
Access Road		Regraded	Contoured
		Culverts removed	Gravel removed
	x*	Pre-Existing (Must provide supporting documentation): *Refer to Closure Information and Form 4 Sundry Notice	
Reclamation Status	x	Location and associated disturbances reclaimed	
		Subsidence	
Spills or Releases (Form 19)	x	No	Yes
Remediation (Form 27/27A)		No	x Yes – Resolved 2019
On-Location Flowlines		No	x Yes
Off-Location Flowlines		No	x Yes
Inspection Corrective Actions	x	No	Yes
Sundry Notice	Form 4 Doc # & Date:	402805484 & 09/20/2021	
	Purpose:	Final Reclamation Complete, Site Ready for Inspection	
	Comments:	The associated centralized battery is permitted with the wells under Location 336420. The former well pad has been reclaimed and returned to the surface owner for crop cultivation. The former facility pad has been compacted, stabilized with gravel, and incorporated into the preexisting crop field perimeter road, matching the pre-disturbance land use.	

	Attachments:	Reclamation Assessment Report Final Reclamation Completion Notice Doc # 402805492
Drone Information	Make & Model	DJI M300/DJI Mavic 3 Multispectral
	Image Processing Software	Pix4dfields – RGB/Multispectral Imagery & Pix4dmatic – RGB Imagery
	Pilot Name & FAA Certificate #	Sam Streeter, #4100157
	Date of FAA Certificate Issuance	12/23/2023 (original 03/24/2018)

SITE-SPECIFIC QUALITY ASSURANCE & QUALITY CONTROL AUDIT



Final Reclamation Complete Notice – Cropland Drone Imagery

PERMIT CLOSURE REPORT – CROPLAND

Location ID 336420

Location Name BOULDER BANK -61N66W/7NESE

Report Date

18 Dec 2023

Soil Sage has conducted a thorough data audit as part of our Quality Assurance and Quality Control (QA/QC) protocols. This report was developed in accordance with the ECMC Operator Guidance – Operator supplied cropland drone imagery and information for submitting a final reclamation complete notice.

Crop Year and Type

Crop 2023 – Cabbage

Crop 2022 – Corn

Quality Assurance & Quality Control Audit

Auditor	Soil Sage
Audit Date	31 Oct 2023

Audit Methodology

The following source materials were consulted during the QA and QC audit process:

- ✓ Site Permit Closures provided by CIVITAS Resources
- ✓ Colorado Oil & Gas Information System – COGIS Database
- ✓ On-site Evaluation and Proprietary Soil Sage Drone Imagery data collection
- ✓ Review of legacy imagery for site location and facility parameters

All pertinent data, imagery, and materials are included at the end of this report.

Site Description

Name	BOULDER BANK -61N66W/7NESE		
Location ID	336420		
Operator / #	CRESTONE PEAK RESOURCES OPERATING LLC / 10633		
Field	WATTENBERG		
County, State	WELD, CO		
Lat/Long	40.062588 / -104.814760		
	<input checked="" type="checkbox"/>	Planned Location	As Drilled
Facility Status	AC	Location	NESE 7 1N66W
Facility Status Date	03/08/2019		
Facility Entities	<input checked="" type="checkbox"/>	Tank Battery	Pits
	<input checked="" type="checkbox"/>	Wells	<input checked="" type="checkbox"/> Off-Location Flowlines (Form 44)
		Domestic Taps	<input checked="" type="checkbox"/> On-Location Flowlines (Form 42)
		Electric Utilities	
Equipment on Site	<input checked="" type="checkbox"/>	No	Yes
		If yes, list:	
		Pit mouse/rat holes, cellars backfilled	
Access Road		Regraded	Contoured
		Culverts Removed	Gravel Removed
	<input checked="" type="checkbox"/> *	Pre-Existing (Must provide supporting documentation): *Refer to Closure Information and Form 4 Sundry Notice	
Environment Incidents & Remediation		None	Spill or Release (Form 19)
	<input checked="" type="checkbox"/>	Remediation (Form 27/27A)	
Variance Requests	No Variance Requests were detected during this QA & QC Audit.		
Inspection Corrective Actions (CA)s	No Corrective Actions (CA)s were detected during the QA & QC Audit.		
	Complete ECMC Inspection Search Results: Link		
Sundry Notice (Form 4)	Form 4 Doc # & Date: 402805484 & 09/20/2021 <ul style="list-style-type: none"> Purpose: Final Reclamation Complete, Site Ready for Inspection Comments: The associated centralized battery is permitted with the wells under Location 336420. The former well pad has been reclaimed and returned to the surface owner for crop cultivation. The former facility pad has been compacted, stabilized with gravel, and 		

	<p>incorporated into the preexisting crop field perimeter road, matching the pre-disturbance land use.</p> <ul style="list-style-type: none"> ○ Attachments: Reclamation Assessment Report Final Reclamation Completion Notice Doc #402805492 dated 09/07/2021 and authored by Confluence Compliance Companies LLC. Includes topographical location map, reclamation survey site diagram, and photo log.
On Location Flowlines (Form 42)	Form 42s were detected during the QA & QC Audit. See individual scout card data for details.
Off-Location Flowlines (Form 44)	<p>Form 44 Doc # & Date: 401902791 & 01/11/2019</p> <ul style="list-style-type: none"> ○ Purpose: Flowline Abandonment ○ Abandonment Date: 12/28/2018 ○ ECMC Approval Date & Signee: None at time of audit – form only submitted. ○ Operator Comments: Flowline was disconnected from separator and wellhead. Both ends plugged below ground. <p>Flowline Facility Information</p> <ul style="list-style-type: none"> ○ ECMC Flowline ID: 459786 ○ Operator Flowline ID: 110720184 ○ Status & Date: AC & 02/12/2019 ○ Flowline Type: Wellhead Line ○ Type of Fluids Transported: Multiphase ○ Start Point Location ID: 330775 ○ Start Point Riser Lat/Long: 40.060783 / -104.817488 (BOULDER BANK #34-7) ○ Equipment at Start Point: Well ○ End Point Location ID: 336420 ○ End Point Riser Lat/Long: 40.062567 / -104.815232 (BOULDER BANK-N66W/7NESE) ○ Equipment at End Point: Separator
Site Investigation and Remediation Workplan (Form 27/27A)	<p>Remediation Project #: 13332</p> <p>Form 27A Supplemental Doc # & Date: 402121941 & 08/28/2019</p> <ul style="list-style-type: none"> ○ Purpose: Pit or PW vessel closure ○ Lat/Long of Remediation: 40.062812 / -104.815105 ○ Operator Comments: No soil impacts were observed during assessment activities therefore no remediation is required. ○ ECMC Comments: Based on the information presented no further

	<p>action is necessary.</p> <ul style="list-style-type: none"> ○ ECMC COAs: None ○ Closure Request Approved: 08/28/2019 by Chris Canfield ○ Final Resolution: Case Resolved on 08/28/2019 <p>Form 27 Initial Doc# & Date: 402015053 & 04/22/2019</p> <ul style="list-style-type: none"> ○ Purpose: Pit or PW vessel closure ○ Operator Comments: E&P waste and Produced Water waste was observed
Field Inspection Form (Form INSP)	<p>Form INSP Doc # & Date: 688402124 & 05/08/2019</p> <ul style="list-style-type: none"> ○ Status Summary: No Follow Up Inspection Required ○ Inspected Facilities: Wells Boulder Bank 3-7, Boulder Bank 44-7 and Boulder Bank 33-7 ○ Inspection Status: All PA ○ Inspection Date & Inspector: 05/08/2019 by Randy Silver ○ Comments: At time of inspection Boulder Bank #33-7, #3-7, #44-7 are P&A. It appears all production equipment and wellheads have been removed. Forms 42 and 6 are on file with the COGCC. ○ Attachments: Inspection Photos Doc #688402125 <p>Form INSP Doc # & Date: 681900761 & 04/06/2016</p> <ul style="list-style-type: none"> ○ Status Summary: No Follow Up Inspection Required ○ Inspected Facilities: Wells Boulder Bank 3-7, Boulder Bank 44-7 and Boulder Bank 33-7, Boulder Bank 43-7 ○ Inspection Status: All PR ○ Inspection Date & Inspector: 04/06/2016 by Gary Helgeland ○ Comments: None ○ Attachments: None
COGIS Tank Facilities Information (Scout Card)	<p>No Tank Battery forms were detected during this QA & QC Audit.</p> <p>However, the associated centralized Tank Battery is referenced in this site Location's Form 4 sundry notice (see page 3 of this report) Doc #402805484 as being permitted with the wells at this site location. The Tank Battery is also referenced in the photos included in same Form 4's attachment #402805492 with Well BOULDER BANK #44-7 as "44-7 TB."</p>
COGIS Well Information (Scout Card)	<p>Well Name: BOULDER BANK #3-7</p> <p>API#: 05-123-14604</p> <p>FACILITY ID: 246807</p> <ul style="list-style-type: none"> ○ Status & Date: PA & 03/08/2019

	<ul style="list-style-type: none"> ○ Lat/Long As Drilled: 40.062764 / -104.814685 ○ Form 6 Subsequent Doc # & Date: 401712767 & 06/25/2019 ○ Form 42 Doc # & Date: 401900425 & 01/10/2019 <p>Purpose: Flowlines Abandoned</p>
	<p>Well Name: BOULDER BANK #43-7</p> <p>API#: 05-123-19893</p> <p>FACILITY ID: 256597</p> <ul style="list-style-type: none"> ○ Status & Date: PA & 03/23/2018 ○ Lat/Long As Drilled: 40.062876 / -104.814635 ○ Form 6 Subsequent Doc # & Date: 401621468 & 01/23/2019 ○ Form 42 Doc # & Date: 401900455 & 01/10/2019 <p>Purpose: Flowlines Abandoned</p>
	<p>Well Name: BOULDER BANK #44-7</p> <p>API#: 05-123-21277</p> <p>FACILITY ID: 265756</p> <ul style="list-style-type: none"> ○ Status & Date: PA & 07/12/2018 ○ Lat/Long As Drilled: 40.062781 / -104.814789 ○ Form 6 Subsequent Doc # & Date: 401707088 & 05/14/2019 ○ Form 42 Doc # & Date: 401900473 & 01/10/2019 <p>Purpose: Flowlines Abandoned</p>
	<p>Well Name: BOULDER BANK #33-7</p> <p>API#: 05-123-21278</p> <p>FACILITY ID: 265757</p> <ul style="list-style-type: none"> ○ Status & Date: PA & 07/12/2018 ○ Lat/Long As Drilled: 40.062863 / -104.814757 ○ Form 6 Subsequent Doc # & Date: 401707146 & 05/14/2019 ○ Form 42 Doc # & Date: 401900406 & 01/10/2019 <p>Purpose: Flowlines Abandoned</p>

ECMC Abbreviations: [Location & Facility Status Codes](#), [Inspection Types & Statuses](#) and [ECMC Help](#).

Audit Key Findings – Designation Land Use Observations

PREVIOUS LAND USE	CURRENT LAND USE
Reference Imagery for Infrastructure: DRCOG 2014	Remotely Sensed Imagery: 13 Apr 2023; 10 Oct 2023
Designation: Oil & Gas Facility	Designation: Cropland

The following imagery sources were reviewed during this audit:

EarthExplorer, DRCOG 2002 - 2014, NAIP Imagery 2011, 2013, 2015, 2017, 2019, 2021, ESRI Maxar and Remotely Sensed Imagery Sep 2022

Site Observation Notes

The Off-Location Flowline for this location followed the farm road, that existed prior to oil and gas activity as a farm access road. The tank battery and separator fall outside the crop area along the west side of farm road. No vegetation is present, and the area is being used as road/parking.

Closure Information

Location ID [336420](#) Boulder Bank is located in Weld County, Colorado off of Highway 85 south of Fort Lupton. This Location has four plugged and abandoned wells with an associated centralized Tank Battery and Separator. This Location is connected to Location ID [330775](#) BOULDER BANK-61N66W/7SWSE via an Off-Location Flowline, Facility ID [459786](#).

A “Final Reclamation Complete, Site Ready for Inspection” Sundry Notice Form 4 Doc #[402805484](#) dated 09/20/2021 states that the former well pad has been reclaimed and returned to the surface owner for crop cultivation. It also notes that the former facility pad has been compacted, stabilized with gravel, and incorporated into the pre-existing crop field perimeter road, matching the pre-disturbance land use. Additionally, a requisite reclamation plan was submitted just prior on 09/07/2021, complete with topographical map, reclamation survey site diagram, and photo log: “Reclamation Assessment Report Final Reclamation Completion Notice” Doc #[402805492](#).

In 2019, a Form 27 Initial was submitted for Pit or PW vessel closure, stating that E&P waste and Produced Water waste was observed, under Remediation Project #[13332](#). Remediation Project #[13332](#) was closed in a Form 27 Supplemental on 08/28/2019, stating that no soil impacts were observed during assessment activities.

All four wells were plugged and abandoned between March and July 2018. The production facilities were completely removed at this time. The related facility, Location ID [330775](#) BOULDER BANK-61N66W/7SWSE was also reclaimed in 2018.

Soil Sage drone imagery confirms that no equipment was left on site at this location after reclamation activities occurred.

Summary Acreage Table

Description	Acres
Historic Disturbance Extent	0.57
Access Road	Not Included
Flowline	Not Included
Tank Battery	Included
Well Pad	0.57

Drone Information

Make	DJI
Model	M300/Mavic 3 Multispectral
Image Processing Software	Pix4dfields – RGB/Multispectral Imagery & Pix4dmatic – RGB Imagery
Pilot Name	Sam Streeter
Pilot FAA Certificate Number	4100157
Date of FAA Certificate Issuance	12/23/2023 (original 03/24/2018)

Pre-Plugging Active Operations Location Overview

Infrastructure

Facility – AC – 03/08/2019

Well – PA – 03/28/2019

Well – PA – 03/23/2018

Well – PA – 07/12/2018

Well – PA – 07/12/2018

Tank Battery – Removed

Pit – NA

Road – Pre-existing

On-Location FLO – 401900425 – 01/10/2019

On-Location FLO – 401900455 – 01/10/2019

On-Location FLO – 401900473 – 01/10/2019

On-Location FLO – 401900406 – 01/10/2019

Off-Location FLO – 401902791 – 01/11/2019

Environmental – RPN – 13332

Resolved – 08/28/2019



CIV - 336420- BOULDER BANK Map Extent - Pre-Existing Infrastructure Overview

Imagery: USGS

Imagery Date: 5 Jul 1978

Map Date: 13 Dec 2023

Datum: WGS 1984 UTM Zone 13N

POC: Soil Sage

Legend

- ◆ Wells
- Road

0 50 100 Meters

Scale: 1:1,800

Pad Location:
40.062588
-104.814760



Service Credits - Maxar, Microsoft



Infrastructure

Facility – AC – 03/08/2019

Well – PA – 03/28/2019

Well – PA – 03/23/2018

Well – PA – 07/12/2018

Well – PA – 07/12/2018

Tank Battery – Removed

Pit – NA

Road – Pre-existing

On-Location FLO – 401900425 – 01/10/2019

On-Location FLO – 401900455 – 01/10/2019

On-Location FLO – 401900473 – 01/10/2019

On-Location FLO – 401900406 – 01/10/2019

Off-Location FLO – 401902791 – 01/11/2019

Environmental – RPN – 13332

Resolved – 08/28/2019



CIV - 336420- BOULDER BANK Map Extent - Pre-Plugging Overview

Imagery: DRCOG

Map Date: 2014

Map Date: 13 Dec 2023

Datum: WGS 1984 UTM Zone 13N

POC: Soil Sage

Legend

- ◆ Wells
- ▲ Remediation
- Flowline
- Historic Disturbance Extent
- Tank Battery
- Separator
- Road

0 50 100 Meters

Scale: 1:1,700

Pad Location:
40.062588
-104.814760



Service Credits - Maxar, Microsoft



Post-Plugging and Abandonment Location Overview

Infrastructure

Facility – AC – 03/08/2019

Well – PA – 03/28/2019

Well – PA – 03/23/2018

Well – PA – 07/12/2018

Well – PA – 07/12/2018

Tank Battery – Removed

Pit – NA

Road – Pre-existing

On-Location FLO – 401900425 – 01/10/2019

On-Location FLO – 401900455 – 01/10/2019

On-Location FLO – 401900473 – 01/10/2019

On-Location FLO – 401900406 – 01/10/2019

Off-Location FLO – 401902791 – 01/11/2019

Environmental – RPN – 13332

Resolved – 08/28/2019



CIV - 336420 - BOULDER BANK Map Extent - Post-Plugging Road Overview

Imagery: RS Orthomosaic & DSM

Imagery Date: 10 Oct 2023

Map Date: 13 Dec 2023

Datum: WGS 1984 UTM Zone 13N

POC: Soil Sage

Legend

- | | |
|-------------------------------|----------------|
| ◆ Wells | □ Tank Battery |
| — Flowline | □ Separator |
| □ Historic Disturbance Extent | □ Road |

0 40 80 Meters

Scale: 1:1,500

Pad Location:
40.062588
-104.814760



Infrastructure

Facility – AC – 03/08/2019

Well – PA – 03/28/2019

Well – PA – 03/23/2018

Well – PA – 07/12/2018

Well – PA – 07/12/2018

Tank Battery – Removed

Pit – NA

Road – Pre-existing

On-Location FLO – 401900425 – 01/10/2019

On-Location FLO – 401900455 – 01/10/2019

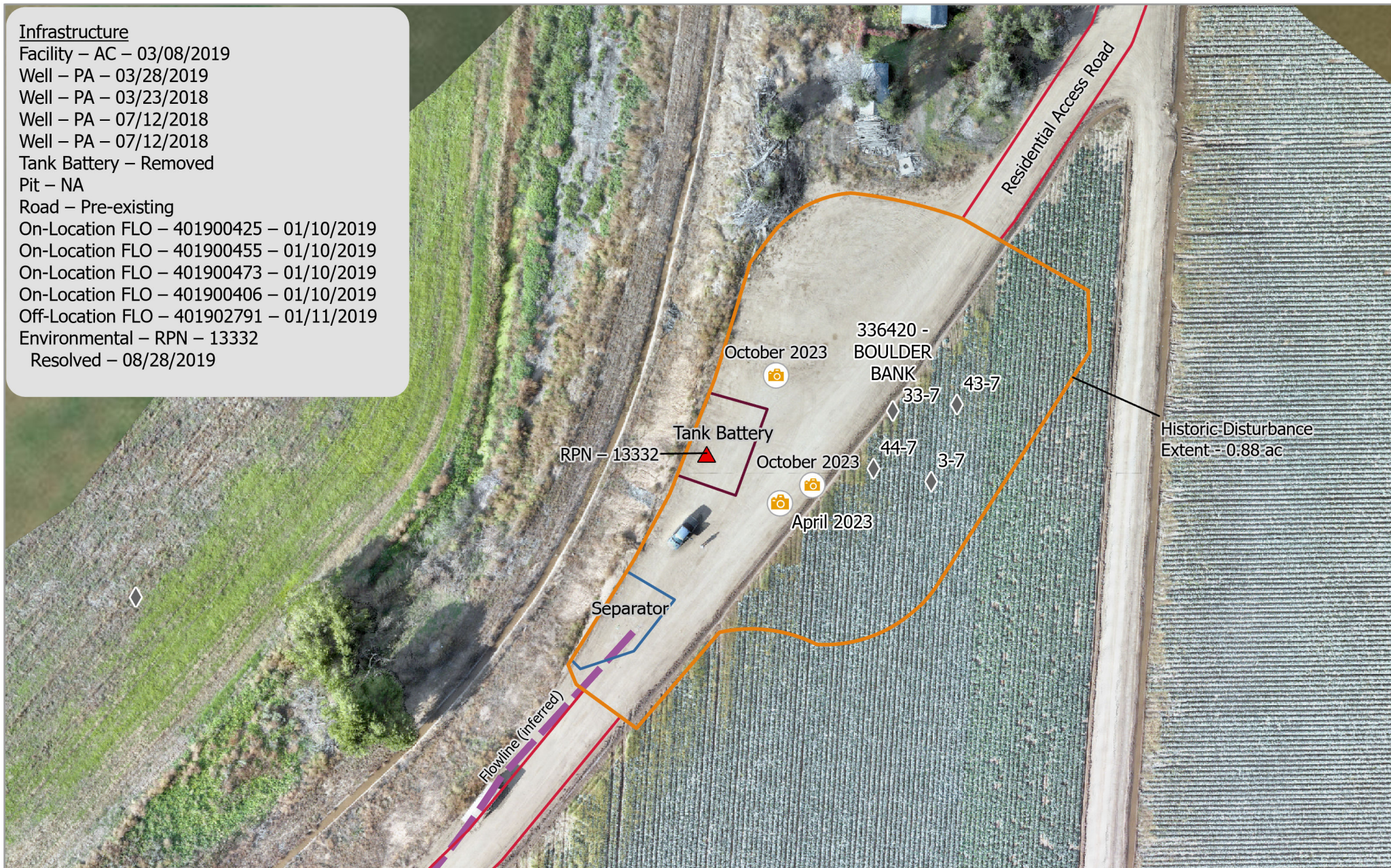
On-Location FLO – 401900473 – 01/10/2019

On-Location FLO – 401900406 – 01/10/2019

Off-Location FLO – 401902791 – 01/11/2019

Environmental – RPN – 13332

Resolved – 08/28/2019



Service Credits - Maxar, Microsoft

CIV - 336420- BOULDER BANK Map Extent - Post-Plugging Overview

Imagery: RS Orthomosaic & DSM

Imagery Date: 10 Oct 2023

Map Date: 13 Dec 2023

Datum: WGS 1984 UTM Zone 13N

POC: Soil Sage

Legend



Wells



Remediation



Photo Points



Flowline



Historic Disturbance Extent



Tank Battery



Separator



Road

0 20 40 Meters

Updated Historic
Disturbance Extent

Total Disturbance: 0.88 Ac

Scale: 1:800

Pad Location:
40.062588
-104.814760



Cardinal Directional Drone Photos & Reference Area Photos

Site Investigation and Photos Date

10 Oct 2023

Drone Photo Height

135 feet

Cardinal directional photos of the site. Reference overview map.



In View – Well, Tank Battery, Access Road, Flowline

NORTH – 40.061694 / -104.814991



In View – Well, Tank Battery, Access Road, Flowline

EAST – 40.062536 / -104.816021



In View – Well, Tank Battery, Access Road, Flowline

SOUTH – 40.063513 / -104.814803



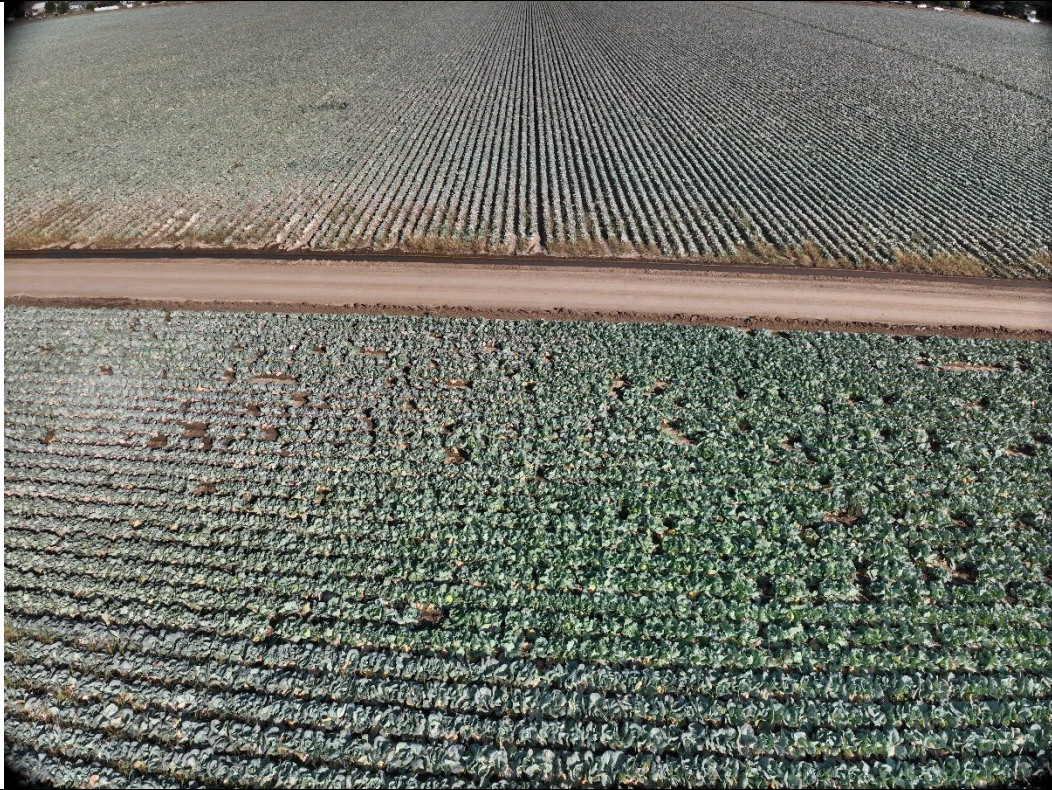
In View – Well, Tank Battery, Access Road, Flowline

WEST – 40.062700 / -104.813712



In View – Well, Tank Battery, Access Road, Flowline

NORTH – 40.062732 / -104.814750



In View – Well, Access Road

EAST – 40.062732 / -104.814750



In View – Well, Access Road

SOUTH – 40.062733 / -104.814750



In View – Well, Tank Battery, Access Road, Flowline

WEST – 40.062733 / -104.814752



In View – Access Road, Flowline

NORTH – 40.060131 / -104.817559



In View – Well, Tank Battery, Access Road, Flowline **NORTHEAST – 40.061171 / -104.818081**



In View – Access Road, Flowline **NORTHWEST – 40.060867 / -104.817491**

Well – Handheld Photographic Evidence

Site Investigation and Photos Date

10 Oct 2023

Handheld photos taken from farm access road near tank battery and separator looking towards wellheads. No handheld photos taken from wellheads location during growing season due to crop height.

	
<p>Overhead looking Southeast towards wellheads – 40.062714 / -104.814965</p>	<p>Looking East near wellheads down farm access road from tank battery and separator location – 40.062781 / -104.814915</p>

	
<p>Looking South towards wellheads from tank battery and separator location – 40.062767 / -104.814912</p>	<p>Looking Southwest from tank battery and separator location – 40.062765 / -104.814915</p>
	
<p>Looking southeast into cabbage field from tank battery and separator location – 40.062754 / -104.814929</p>	<p>Orchardgrass – <i>Dactylis glomerata</i> found in cabbage field near wellhead and production facilities – 40.062769 / -104.814904</p>

Off-Location Tank Battery Outside Cropland – Handheld Photographic Evidence

Site Investigation and Photos Date

10 Oct 2023

Handheld photos taken from tank battery and separator location on farm access road.

	
Looking North towards tank battery and separator location from farm access road – 40.062877 / -104.814963	Looking East at tank battery and separator location – 40.062921 / -104.814978

	
<p>Looking South looking at tank battery and separator location – 40.062912 / -104.814971</p>	<p>Looking West looking at tank battery and separator location – 40.062903 / -104.814972</p>

Cardinal Directional Drone Photos Showing No Equipment Remaining

Site Investigation and Photos Date

13 Apr 2023

Drone Photo Height

350 feet

Cardinal directional of the site. Reference overview map.



In View – Well, Tank Battery, Access Road, Flowline

NORTH – 40.060827 / -104.814781



In View – Well, Tank Battery, Access Road, Flowline

EAST – 40.06251 / -104.816906



In View – Well, Tank Battery, Access Road, Flowline

SOUTH – 40.064362 / -104.814775



In View – Well, Tank Battery, Access Road, Flowline

WEST – 40.062838 / -104.812665



In View – Tank Battery, Access Road, Flowline

NORTH – 40.059353 / -104.817441



In View – Tank Battery, Access Road, Flowline

SOUTH – 40.062615 / -104.817281

Off-Location Tank Battery Outside Cropland – Handheld Photographic Evidence

Site Investigation and Photos Date

13 Apr 2023

Handheld photos taken from farm access road looking towards wellheads, tank battery and separator.

	
Looking North from well pad towards tank battery and separator – 40.062740 / -104.814968	Looking East at well pad from farm access road – 40.062733 / -104.814963

	
<p>Looking South at well pads from tank battery and separator location – 40.062731 / -104.814968</p>	<p>Looking West from well pad towards tank battery and separator location – 40.062729 / -104.814965</p>

ATTACHMENTS

Maps and Figures

Area Maps

Elevation & Contours

Hydrology

Background Information

Natural Resources Conservation Service (NRCS) Map Unit Description

Reference Soil Document

Infrastructure

Facility – AC – 03/08/2019

Well – PA – 03/28/2019

Well – PA – 03/23/2018

Well – PA – 07/12/2018

Well – PA – 07/12/2018

Tank Battery – Removed

Pit – NA

Road – Pre-existing

On-Location FLO – 401900425 – 01/10/2019

On-Location FLO – 401900455 – 01/10/2019

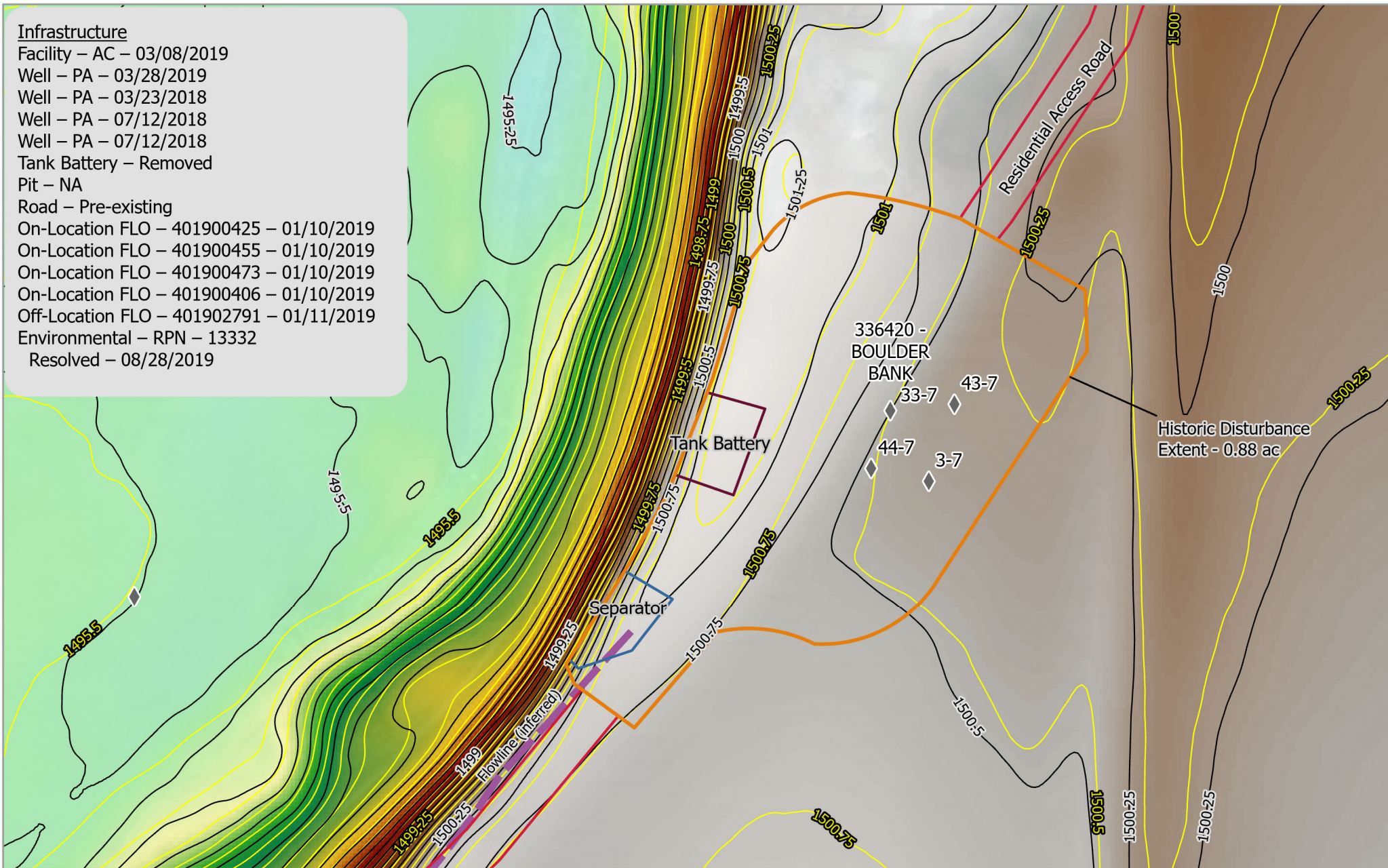
On-Location FLO – 401900473 – 01/10/2019

On-Location FLO – 401900406 – 01/10/2019

Off-Location FLO – 401902791 – 01/11/2019

Environmental – RPN – 13332

Resolved – 08/28/2019



CIV - 336420- BOULDER BANK Map Extent - Elevation & Contours

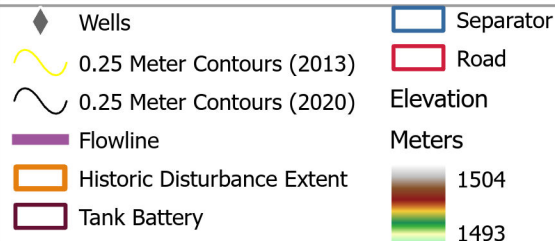
Imagery: DRCOG Elevation Data

Imagery Date: 2020

Map Date: 13 Dec 2023

Datum: WGS 1984 UTM Zone 13N

POC: Soil Sage



0 20 40 Meters



Pad Location:

40.062588

-104.814760



Infrastructure

Facility – AC – 03/08/2019

Well – PA – 03/28/2019

Well – PA – 03/23/2018

Well – PA – 07/12/2018

Well – PA – 07/12/2018

Tank Battery – Removed

Pit – NA

Road – Pre-existing

On-Location FLO – 401900425 – 01/10/2019

On-Location FLO – 401900455 – 01/10/2019

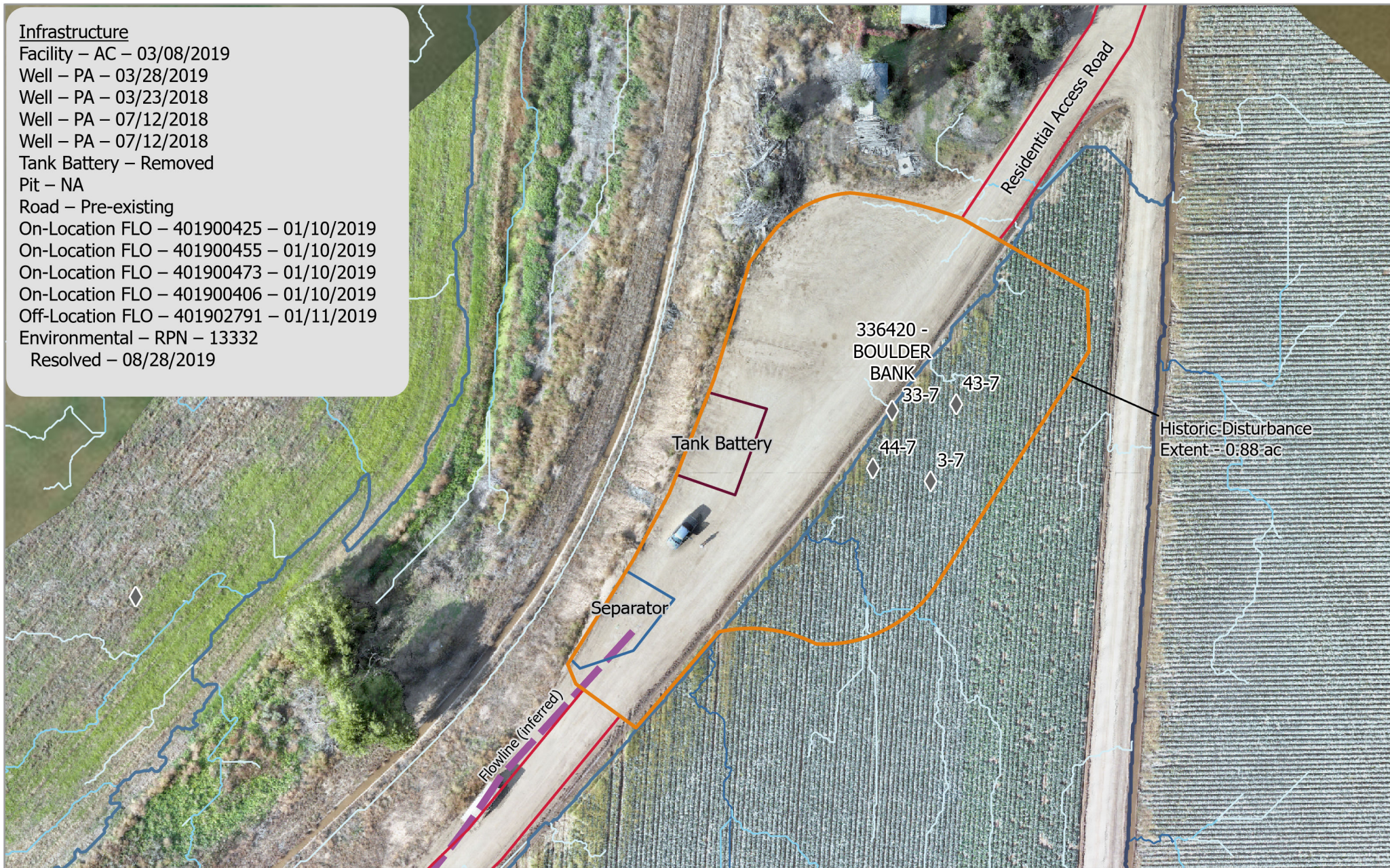
On-Location FLO – 401900473 – 01/10/2019

On-Location FLO – 401900406 – 01/10/2019

Off-Location FLO – 401902791 – 01/11/2019

Environmental – RPN – 13332

Resolved – 08/28/2019



Service Credits - Mapbox, Microsoft

CIV - 336420- BOULDER BANK Map Extent - Hydrology

Imagery: DRCOG Elevation, RS Orthomosaic

Imagery Date: 2020, 10 Oct 2023

Map Date: 13 Dec 2023

Datum: WGS 1984 UTM Zone 13N

POC: Soil Sage

◆ Wells	Stream Order
— Flowline	1
— Separator	2
— Tank Battery	3
— Road	4
— Historic Disturbance Extent	5

0 20 40 Meters

Scale: 1:800

Pad Location:
40.062588
-104.814760



Soil Properties

USDA Soil Description

Location ID / Name

330775 - BOULDER BANK-61N66W/7SWSE

Reference Soil Information

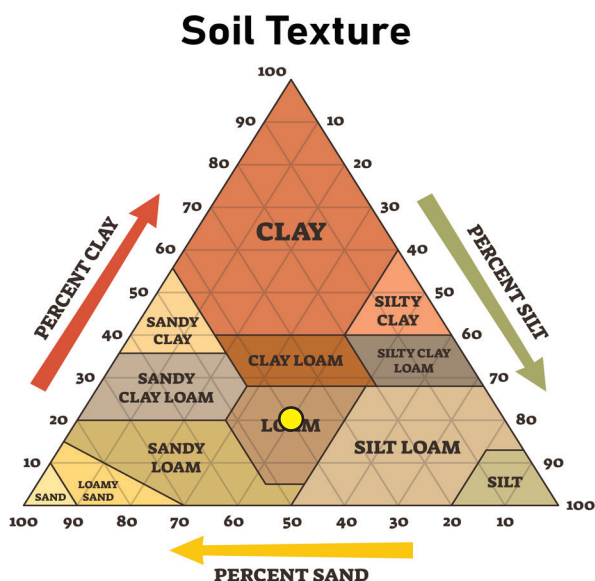
The location of the site is contained within one soil type, Altvan Loam

Map Unit VnD Reference Soil information - Altvan Loam

This soil is formed from Old alluvian. Landform is terraces. Ecological Site Description is Loamy Plains. Soils are well drained with a low water holding capacity, and slope 0 to 1 percent.

Depth (in)	Physical			Chemical			
	Texture	Bulk Density	Partical Size Percent sand, silt, clay	pH	EC	SAR	OM%
0-10	Loam	1.33	42-38-20	7.2	0.0	0.0	1.50
10-20	Clay Loam	1.33	35-38-28	7.2	0.0	0.0	0.75
20-30	Clay Loam	1.43	64-20-16	7.5	0.0	0.0	0.51
30-40	Gravelly Sand	1.53	96-2-3	7.9	0.0	0.0	0.25
40-50	Gravelly Sand	1.53	96-2-3	7.9	0.0	0.0	0.25
50 +	Gravelly Sand	1.53	96-2-3	7.9	0.0	0.0	0.25

Soil Texture Triangle reflect the 0-10 in depth



Erosion Potential (10 inches)

- K Factor, Whole soil - .28. Values of K range from 0.02 to 0.69. Other factors being equal, the higher the value, the more susceptible the soil is to sheet and rill erosion by water.
- Wind Erodibility Group – 6. The soils assigned to group 1 are the most susceptible to wind erosion, and those assigned to group 8 are the least susceptible.