

# Location Checklist



<b>Operator / #</b>	CRESTONE PEAK RESOURCES OPERATING LLC / 10633		
<b>Location ID &amp; Name</b>	<a href="#">336420</a> BOULDER BANK -61N66W/7NESE		
<b>County</b>	WELD, CO		
<b>Well Information</b>	Well Name:	BOULDER BANK #3-7	
	Well API #:	<a href="#">05-123-14604</a>	
	Lat/Long as Drilled:	40.062764 / -104.814685	
	Plug Date & Form 6s Doc #:	07/12/2018, <a href="#">401712767</a>	
<b>Well Information</b>	Well Name:	BOULDER BANK #43-7	
	Well API #:	<a href="#">05-123-19893</a>	
	Lat/Long as Drilled:	40.062876 / -104.814635	
	Plug Date & Form 6s Doc #:	03/23/2018, <a href="#">401621468</a>	
<b>Well Information</b>	Well Name:	BOULDER BANK #44-7	
	Well API #:	<a href="#">05-123-21277</a>	
	Lat/Long as Drilled:	40.062781 / -104.814789	
	Plug Date & Form 6s Doc #:	07/12/2018, <a href="#">401707088</a>	
<b>Well Information</b>	Well Name:	BOULDER BANK #33-7	
	Well API #:	<a href="#">05-123-21278</a>	
	Lat/Long as Drilled:	40.062863 / -104.814757	
	Plug Date & Form 6s Doc #:	07/12/2018, <a href="#">401707146</a>	
<b>Facility Entities</b>	<input checked="" type="checkbox"/> Tank Battery		Pits
	<input checked="" type="checkbox"/> Wells	<input checked="" type="checkbox"/>	On-Location Flowlines (Form 42) Doc #: <a href="#">401900425</a> , <a href="#">401900455</a> , <a href="#">401900473</a> , <a href="#">401900406</a>
	<input type="checkbox"/> Domestic Taps	<input checked="" type="checkbox"/>	Off-Location Flowlines (Form 44) Doc #: <a href="#">401902791</a>
<b>Equipment On-Site</b>	<input checked="" type="checkbox"/> None		Debris
			Pit mouse/rat holes, cellars backfilled
<b>Access Road</b>	<input type="checkbox"/> Regraded		Contoured
	<input type="checkbox"/> Culverts removed		Gravel removed
	<input checked="" type="checkbox"/> Pre-Existing (Must provide supporting documentation): <b>*Refer to Closure Information and Form 4 Sundry Notice</b>		
<b>Reclamation Status</b>	<input checked="" type="checkbox"/> Location and associated disturbances reclaimed		
			Subsidence
<b>Spills or Releases (Form 19)</b>	<input checked="" type="checkbox"/> No		Yes
<b>Remediation (Form 27/27A)</b>	<input type="checkbox"/> No	<input checked="" type="checkbox"/>	Yes – Resolved 2019
<b>On-Location Flowlines</b>	<input type="checkbox"/> No	<input checked="" type="checkbox"/>	Yes
<b>Off-Location Flowlines</b>	<input type="checkbox"/> No	<input checked="" type="checkbox"/>	Yes
<b>Inspection Corrective Actions</b>	<input checked="" type="checkbox"/> No		Yes
<b>Sundry Notice</b>	Form 4 Doc # & Date:	<a href="#">402805484</a> & 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 # <a href="#">402805492</a>
<b>Drone Information</b>	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**

<b>Auditor</b>	Soil Sage
<b>Audit Date</b>	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

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

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

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

	<ul style="list-style-type: none"> <li>○ <b>Lat/Long As Drilled:</b> 40.062764 / -104.814685</li> <li>○ <b>Form 6 Subsequent Doc # &amp; Date:</b> <a href="#">401712767</a> &amp; 06/25/2019</li> <li>○ <b>Form 42 Doc # &amp; Date:</b> <a href="#">401900425</a> &amp; 01/10/2019</li> </ul> <p><b>Purpose:</b> Flowlines Abandoned</p>
	<p><b>Well Name:</b> BOULDER BANK #43-7</p> <p><b>API#:</b> <a href="#">05-123-19893</a></p> <p><b>FACILITY ID:</b> 256597</p> <ul style="list-style-type: none"> <li>○ <b>Status &amp; Date:</b> PA &amp; 03/23/2018</li> <li>○ <b>Lat/Long As Drilled:</b> 40.062876 / -104.814635</li> <li>○ <b>Form 6 Subsequent Doc # &amp; Date:</b> <a href="#">401621468</a> &amp; 01/23/2019</li> <li>○ <b>Form 42 Doc # &amp; Date:</b> <a href="#">401900455</a> &amp; 01/10/2019</li> </ul> <p><b>Purpose:</b> Flowlines Abandoned</p>
	<p><b>Well Name:</b> BOULDER BANK #44-7</p> <p><b>API#:</b> <a href="#">05-123-21277</a></p> <p><b>FACILITY ID:</b> 265756</p> <ul style="list-style-type: none"> <li>○ <b>Status &amp; Date:</b> PA &amp; 07/12/2018</li> <li>○ <b>Lat/Long As Drilled:</b> 40.062781 / -104.814789</li> <li>○ <b>Form 6 Subsequent Doc # &amp; Date:</b> <a href="#">401707088</a> &amp; 05/14/2019</li> <li>○ <b>Form 42 Doc # &amp; Date:</b> <a href="#">401900473</a> &amp; 01/10/2019</li> </ul> <p><b>Purpose:</b> Flowlines Abandoned</p>
	<p><b>Well Name:</b> BOULDER BANK #33-7</p> <p><b>API#:</b> <a href="#">05-123-21278</a></p> <p><b>FACILITY ID:</b> 265757</p> <ul style="list-style-type: none"> <li>○ <b>Status &amp; Date:</b> PA &amp; 07/12/2018</li> <li>○ <b>Lat/Long As Drilled:</b> 40.062863 / -104.814757</li> <li>○ <b>Form 6 Subsequent Doc # &amp; Date:</b> <a href="#">401707146</a> &amp; 05/14/2019</li> <li>○ <b>Form 42 Doc # &amp; Date:</b> <a href="#">401900406</a> &amp; 01/10/2019</li> </ul> <p><b>Purpose:</b> 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
<b>Reference Imagery for Infrastructure:</b> DRCOG 2014	<b>Remotely Sensed Imagery:</b> 13 Apr 2023; 10 Oct 2023
<b>Designation:</b> Oil & Gas Facility	<b>Designation:</b> 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

<b>Make</b>	DJI
<b>Model</b>	M300/Mavic 3 Multispectral
<b>Image Processing Software</b>	Pix4dfields – RGB/Multispectral Imagery & Pix4dmatic – RGB Imagery
<b>Pilot Name</b>	Sam Streeter
<b>Pilot FAA Certificate Number</b>	4100157
<b>Date of FAA Certificate Issuance</b>	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



**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  
Imagery Date: 2014  
Map Date: 13 Dec 2023  
Datum: WGS 1984 UTM Zone 13N  
POC: Soil Sage

**Legend**

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

0 50 100 Meters

Scale: 1:1,700

Pad Location:  
40.062588  
-104.814760

N



## 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
- Flowline
- Historic Disturbance Extent
- Tank Battery
- Separator
- Road



Scale: 1:1,500

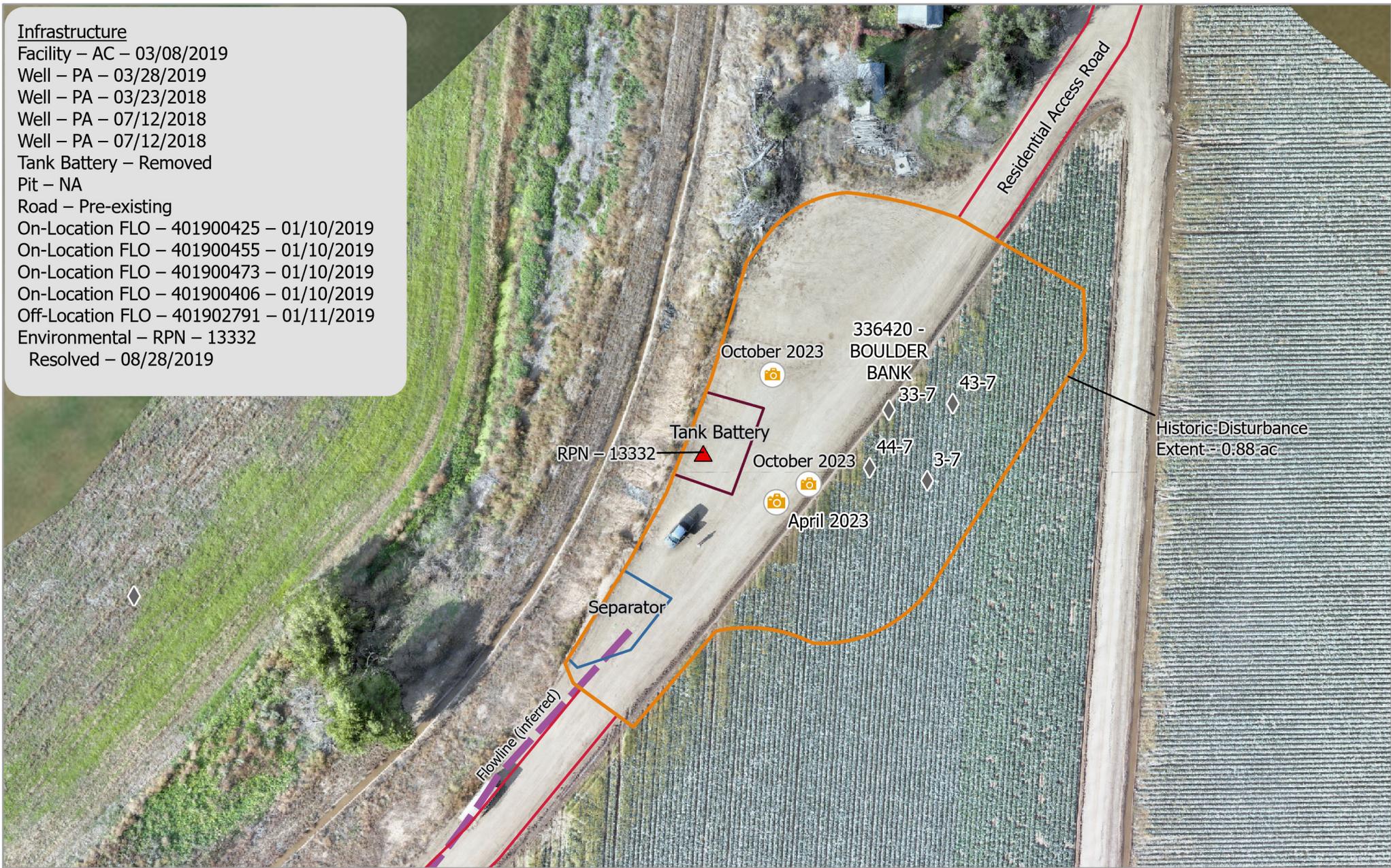
Pad Location:  
40.062588  
-104.814760



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



Historic Disturbance  
Extent - 0.88 ac

**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



Service Credits - Maxar, Microsoft

# 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**



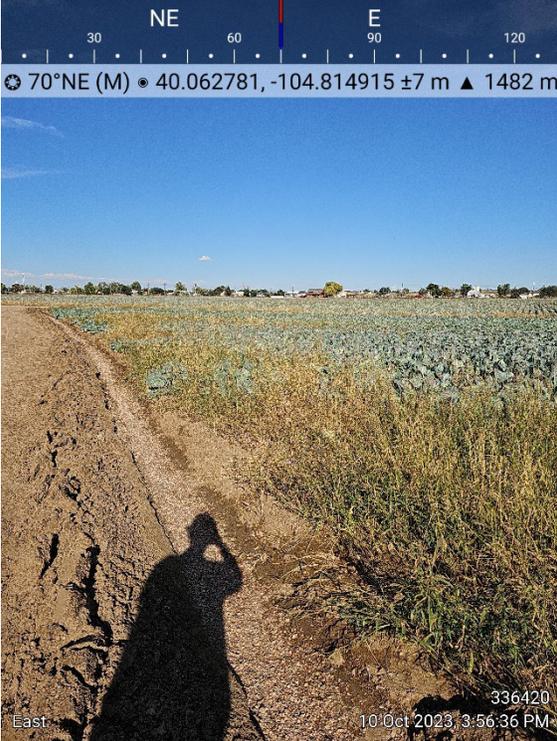
**In View – Access Road, Flowline**      **NORTHWEST – 40.060867 / -104.817491**

# 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.

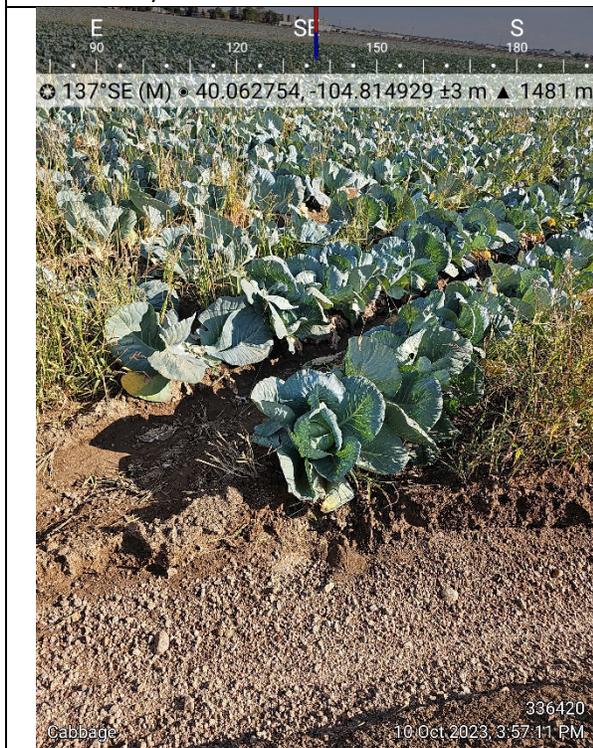
	
<p>Overhead looking Southeast towards wellheads – 40.062714 / -104.814965</p>	<p>Looking East near wellheads down farm access road from tank battery and separator location – 40.062781 / -104.814915</p>



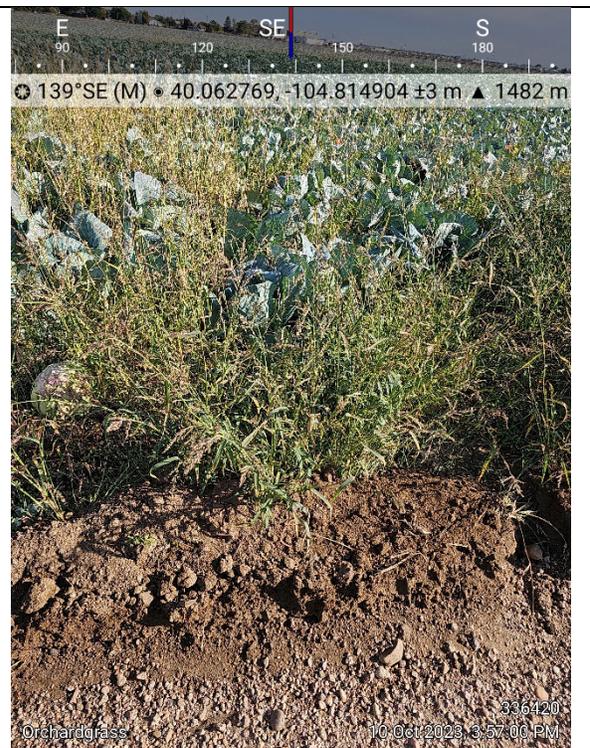
Looking South towards wellheads from tank battery and separator location – 40.062767 / -104.814912



Looking Southwest from tank battery and separator location – 40.062765 / -104.814915



Looking southeast into cabbage field from tank battery and separator location – 40.062754 / -104.814929



Orchardgrass – *Dactylis glomerata* found in cabbage field near wellhead and production facilities – 40.062769 / -104.814904

# 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.

<p>Looking North towards tank battery and separator location from farm access road – 40.062877 / -104.814963</p>	<p>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

Looking West looking at tank battery and separator location – 40.062903 / -104.814972

# 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.

	
<p>Looking North from well pad towards tank battery and separator – 40.062740 / -104.814968</p>	<p>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



Looking West from well pad towards tank battery and separator location – 40.062729 / -104.814965

# ATTACHMENTS

## Maps and Figures

### *Area Maps*

Elevation & Contours

Hydrology

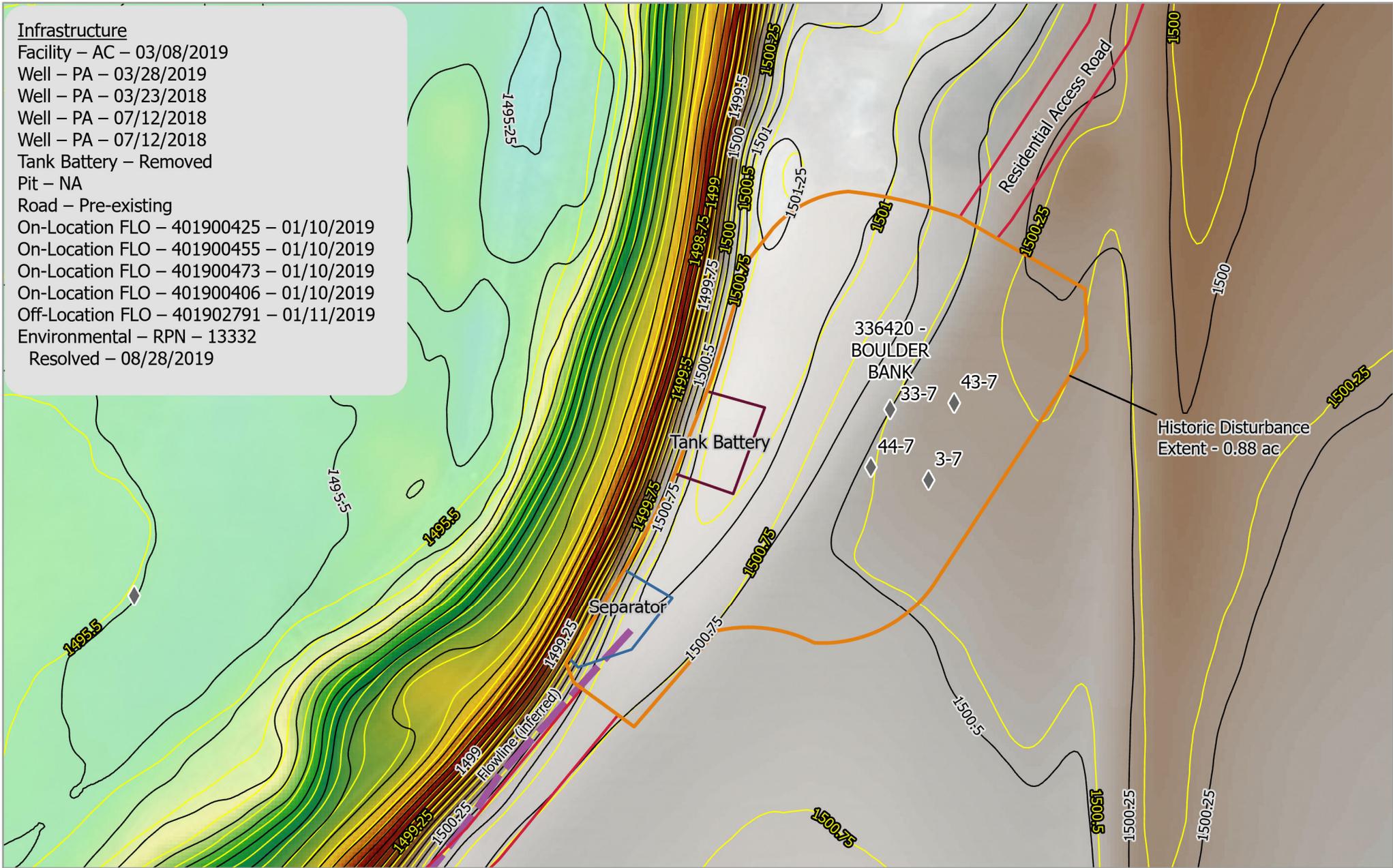
## Background Information

### *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

◆ Wells	□ Separator
~ 0.25 Meter Contours (2013)	□ Road
~ 0.25 Meter Contours (2020)	Elevation
— Flowline	Meters
▭ Historic Disturbance Extent	1504
▭ Tank Battery	1493

0 20 40 Meters

Scale: 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

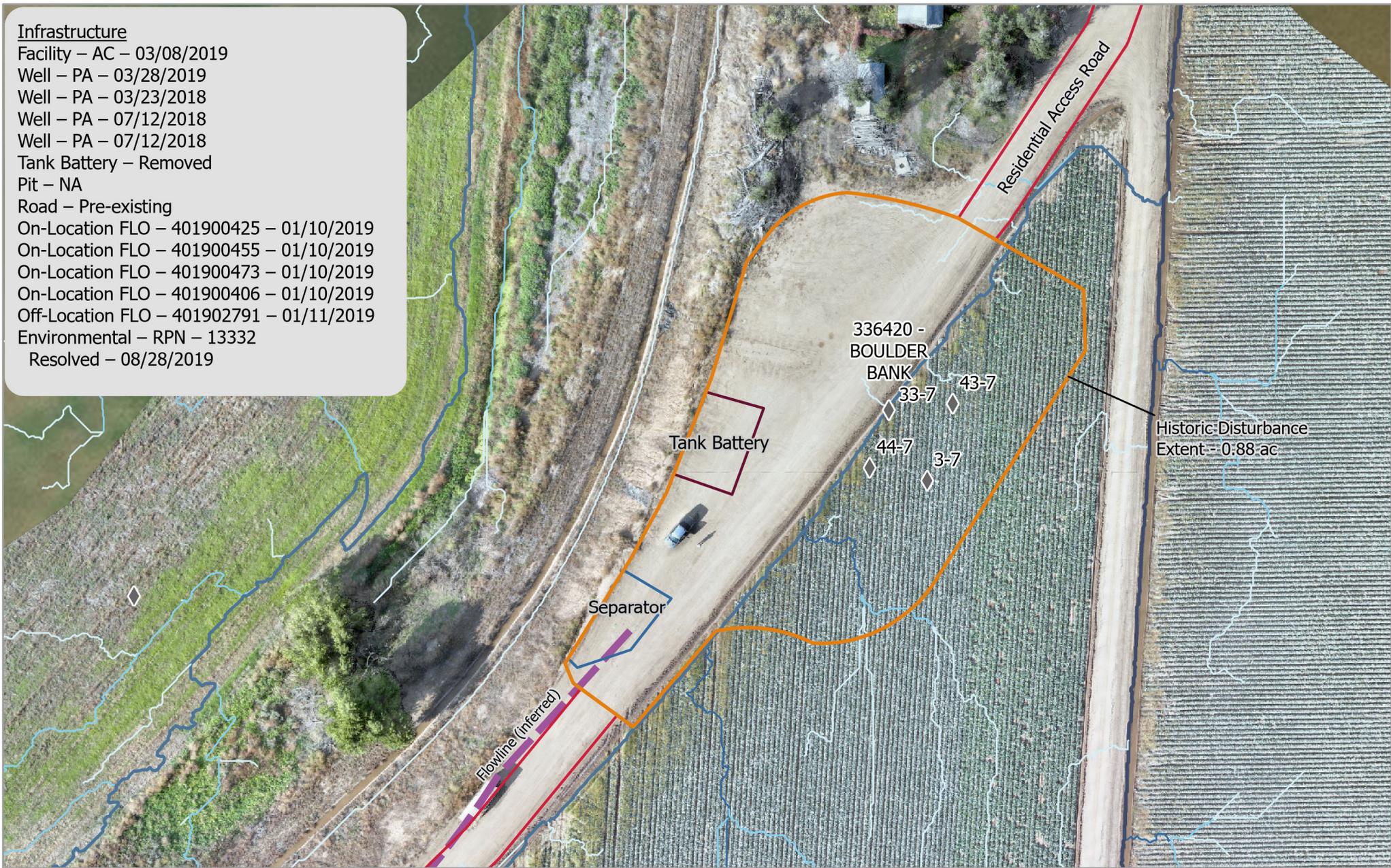
On-Location FLO – 401900473 – 01/10/2019

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

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

Environmental – RPN – 13332

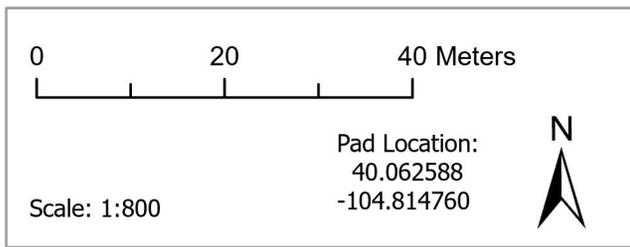
Resolved – 08/28/2019



**CIV - 336420- BOULDER BANK  
Map Extent - 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



# Soil Properties

## USDA Soil Description

<b>Location ID / Name</b>	330775 - BOULDER BANK-61N66W/7SWSE
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### Reference Soil Information

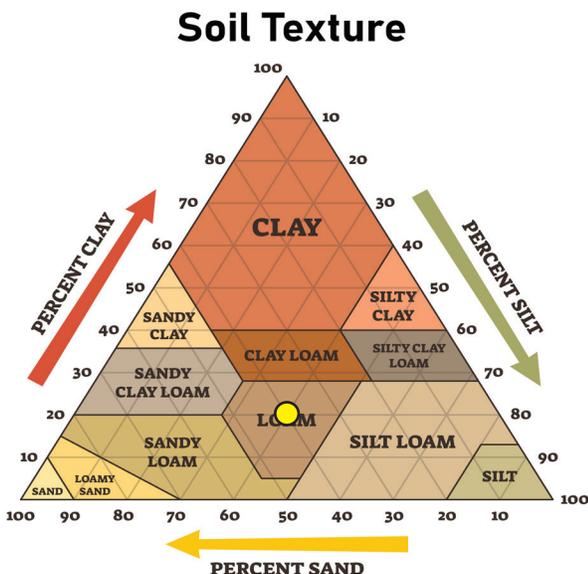
The location of the site is contained within one soil type, Altvan Loam

### 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.