



COLORADO
Division of Reclamation,
Mining and Safety
Department of Natural Resources

April 3, 2025

Patrick Hladky
117977 Weld County Rd 20
Fort Lupton, CO 80621

Re: No Further Action, Complaint CT-4, NCCI Pit # 1, Permit No. M-2001-107

Dear Mr. Hladky:

On March 9, 2025, the Division of Reclamation, Mining and Safety (Division/DRMS) received your complaint against the above referenced operation. The Division sent your complaint to the Operator and requested a response, see attached.

The Operator completed installation of an underdrain on November 19, 2024. Since that time groundwater levels in the area have dropped to levels consistent with those seen in June 2022. The underdrain is functioning to reduce groundwater mounding in the area.

The alkali soil is naturally occurring the area, see Operators response. The shallow groundwater conditions that were present before did not bring additional materials to the site but rather concentrated them at the surface as a crust left behind as groundwater levels receded.

As you mentioned there is a new landowner for the site. That landowner is currently in the process of a mining permit revision to allow them to mine the area in question and reclaim the area to a developed water resources reservoir. As part of that application, they are developing a groundwater model to determine how groundwater flows in the area and whether additional mitigation measures are needed for the area.

The Division has addressed or is currently awaiting responses to jurisdictional items. The dispute of soil quality is civil matter between the current landowner, Northern Colorado Contractors, and yourself. Therefore, the Division will take no further action and will consider your complaint resolved.

If you need additional information or have any questions, please contact me by email at patrick.lennberg@state.co.us.

Sincerely,





Patrick Lennberg
Environmental Protection Specialist

Attachment: Operator's Response To Complaint CT-4

cc: Jared Ebert, DRMS

ec: Patrick Hladky, patrickhladky@yahoo.com
Chris Zadel, NCCI, chrisz@nccconstructors.com
JC York, JT Consulting, jcyork@j-tconsulting.com

Attachments



J&T Consulting, Inc.

March 25, 2025

Mr. Patrick Lennberg
Environmental Protection Specialist
State of Colorado
Division of Reclamation, Mining, & Safety

Physical Address:

1313 Sherman Street, Room 215
Denver, CO 80203

Mailing Address:

Division of Reclamation, Mining and Safety, Room 215
1001 East 62nd Avenue
Denver, CO 80216

RE: *Northern Colorado Constructors, Inc. – NCCI Pit #1 – Notice of Citizen Complaint, CT-4, File No. M-2001-107*

Dear Mr. Lennberg,

Northern Colorado Constructors, Inc. (NCC) received your letter dated March 10, 2025 for the Notice of Citizen Complaint, CT-4.

We have reviewed the information provided and are providing information on the existing groundwater monitoring wells showing the readings over the last couple months in 2025 and the last quarter of 2024 where groundwater levels have come down several feet below last years levels at this time so the groundwater is not causing the surface soils to be saturated. The last reading on March 4, 2025 showed the groundwater level at 5 feet or more below the surface in monitor wells Z-1 and Z-2 which are located on the property the tenant farmer is leasing.

We have also provided soil tests for the topsoil in this area for the NCCI Pit #1 from 2015 and the Bennett Pit which is north of this location from 2019, 2021, and 2022 where alkali and high salts have been present and are still present in the soils along the South Platte River and Little Dry Creek. The high salts did not just occur but have been part of the topsoil in this area for years.

We appreciate your consideration of this response.

Please feel free to contact me with any questions or comments.

Sincerely,

J.C. York, P.E.

J&T Consulting, Inc.

Attachments:

NCCI Pit #1 Monitor Well Information and Map
Soil Tests from NCCI Pit #1 and Bennett Pit

Cc: Northern Colorado Constructors, Inc.



Zadel Pit

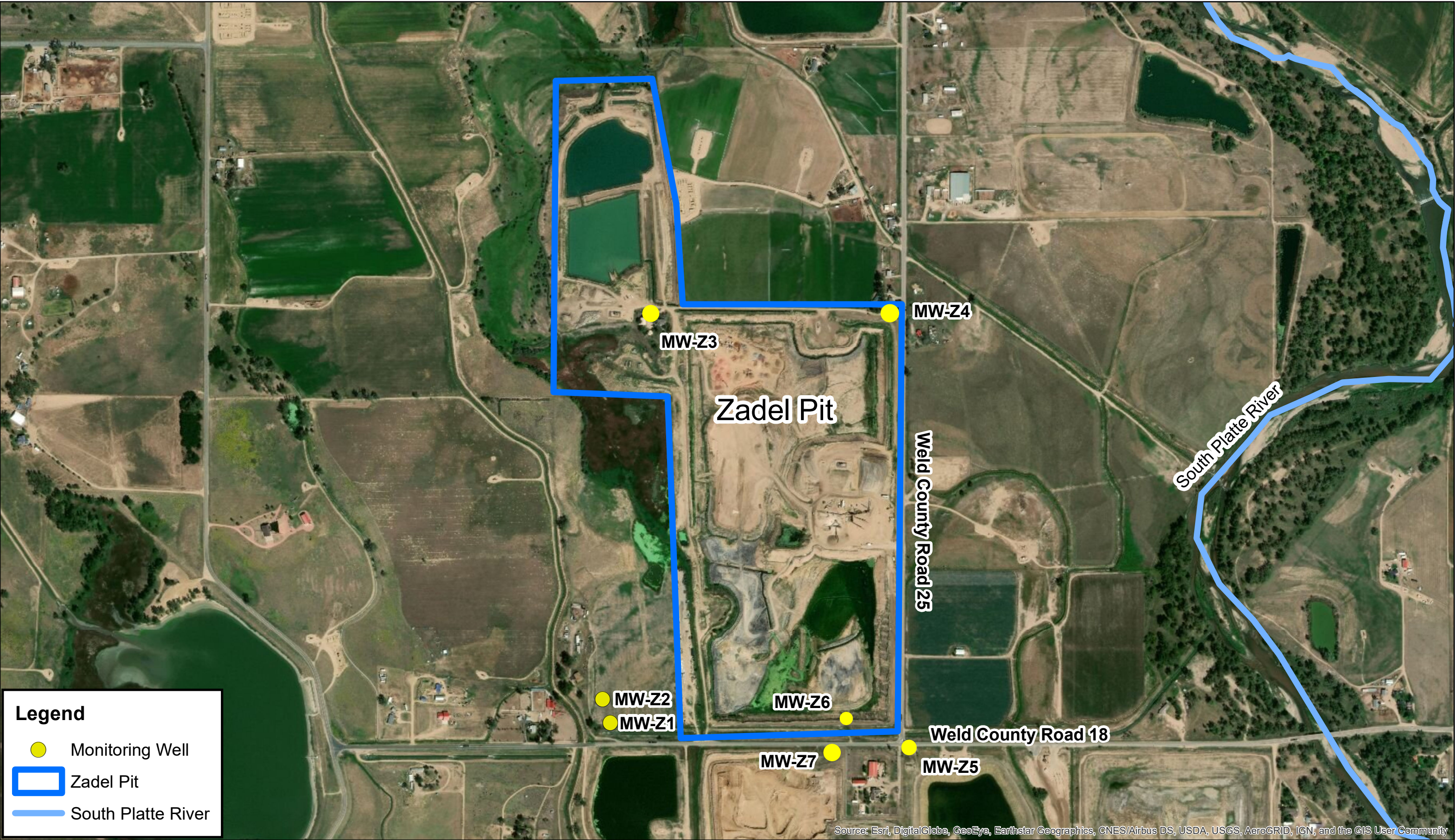
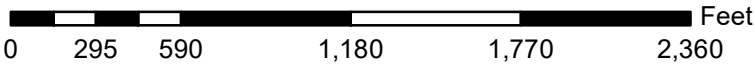
		Off-site Monitoring Wells																																																																															
Piezometer Number Ground Surface Elevation (ft) ¹⁾ Top of PVC Elevation (ft) ¹⁾		MW-Z1 4870.33 4869.73				MW-Z2 4870.66 4870.05				MW-Z3 4862.43 4862.14				MW-Z4 4862.97 4862.72				MW-Z5 4869.49 4869.24				MW-Z6 4869.76 4869.47				MW-Z7 4868.93 4868.39																																																							
Date of Measurement	Depth to water from top of PVC (ft)	Depth of water from Ground Surface (ft)	Water Surface Elevation (ft)	Change (ft)	Depth to water from top of PVC (ft)	Depth of water from Ground Surface (ft)	Water Surface Elevation (ft)	Change (ft)	Depth to water from top of PVC (ft)	Depth of water from Ground Surface (ft)	Water Surface Elevation (ft)	Change (ft)	Depth to water from top of PVC (ft)	Depth of water from Ground Surface (ft)	Water Surface Elevation (ft)	Change (ft)	Depth to water from top of PVC (ft)	Depth of water from Ground Surface (ft)	Water Surface Elevation (ft)	Change (ft)	Depth to water from top of PVC (ft)	Depth of water from Ground Surface (ft)	Water Surface Elevation (ft)	Change (ft)	Depth to water from top of PVC (ft)	Depth of water from Ground Surface (ft)	Water Surface Elevation (ft)	Change (ft)																																																					
6/27/2023	1.40	2.00	4868.33	1.92	2.03	2.63	4868.02	2.05	7.15	7.44	4854.99	2.73	7.10	7.35	4855.62	6.36	4.25	4.52	4864.97	7.22	4.10	4.39	4865.37	6.18	2.87	3.41	4865.52	5.53																																																					
8/24/2023	0.60	1.20	4869.13	0.80	1.04	1.64	4869.01	0.99	3.38	3.67	4858.76	3.77	6.70	6.95	4856.02	0.40	5.30	5.55	4863.94	(1.03)	4.89	5.18	4864.58	(0.79)	3.25	3.79	4865.14	(0.38)																																																					
9/11/2023	0.45	1.05	4869.28	0.15	0.75	1.35	4869.30	0.29	3.17	3.46	4858.97	0.21	6.76	7.01	4855.96	(0.06)	6.25	6.50	4862.99	(0.95)	5.76	6.04	4863.72	(0.86)	4.05	4.59	4864.34	(0.80)																																																					
10/18/2023	0.50	1.10	4869.23	(0.05)	0.90	1.50	4869.15	(0.15)	3.22	3.51	4858.92	(0.05)	7.15	7.40	4855.57	(0.39)	5.78	6.03	4863.46	0.47	5.39	5.68	4864.08	0.36	3.81	4.35	4864.58	0.24																																																					
11/13/2023	1.02	1.62	4868.71	(0.52)	1.45	2.05	4868.60	(0.55)					7.18	7.43	4855.54	(0.03)	6.53	6.78	4862.71	(0.75)	6.04	6.33	4863.43	(0.65)	4.42	4.96	4863.97	(0.61)																																																					
12/13/2023	1.52	2.12	4868.21	(0.50)	2.07	2.67	4867.98	(0.62)	4.15	4.44	4857.99	(0.93)	7.30	7.55	4855.42	(0.12)	7.09	7.34	4862.15	(0.56)	6.50	6.79	4862.97	(0.46)	4.82	5.36	4863.57	(0.40)																																																					
1/9/2024	1.80	2.40	4867.93	(0.28)	2.40	3.00	4867.65	(0.33)	4.25	4.54	4857.89	(0.10)	7.35	7.60	4855.37	(0.05)	7.37	7.62	4861.87	(0.28)	6.73	7.02	4862.74	(0.23)	5.01	5.55	4863.38	(0.19)																																																					
2/5/2024	1.97	2.57	4867.76	(0.17)	2.61	3.21	4867.44	(0.21)	4.22	4.51	4857.92	0.03	7.47	7.72	4855.25	(0.12)	7.52	7.77	4861.72	(0.15)	6.76	7.05	4862.71	(0.03)	5.01	5.55	4863.38	0.00																																																					
3/6/2024	2.22	2.82	4867.51	(0.25)	2.87	3.47	4867.18	(0.26)	4.31	4.60	4857.83	(0.09)	7.35	7.60	4855.37	0.12	7.32	7.57	4861.92	0.20	6.72	7.01	4862.75	0.04	5.02	5.56	4863.37	(0.01)																																																					
4/16/2024	2.88	3.48	4866.85	(0.66)	3.42	4.02	4866.63	(0.55)	4.10	4.39	4858.04	0.21	6.77	7.02	4855.95	0.58	5.99	6.24	4863.25	1.33	5.50	5.79	4863.97	1.22	4.96	5.50	4863.43	0.06																																																					
5/23/2024	1.49	2.09	4868.24	1.39	2.02	2.62	4868.03	1.40	2.95	3.24	4859.19	1.15	6.05	6.30	4856.67	0.72	4.95	5.20	4864.29	1.04	4.78	5.07	4864.69	0.72	3.32	3.86	4865.07	1.64																																																					
6/21/2024	0.83	1.43	4868.90	0.66	1.25	1.85	4868.80	0.77	2.83	3.12	4859.31	0.12	6.13	6.38	4856.59	(0.08)	5.42	5.67	4863.82	(0.47)	5.18	5.47	4864.29	(0.40)	3.64	4.18	4864.75	(0.32)																																																					
7/2/2024	0.58	1.18	4869.15	0.25	1.00	1.60	4869.05	0.25	2.43	2.72	4859.71	0.40	6.12	6.37	4856.60	0.01	5.45	5.70	4863.79	(0.03)	5.20	5.49	4864.27	(0.02)	3.70	4.24	4864.69	(0.06)																																																					
8/5/2024	0.40	1.00	4869.33	0.18	0.72	1.32	4869.33	0.28	2.95	3.24	4859.19	(0.52)	6.58	6.83	4856.14	(0.46)	5.32	5.57	4863.92	0.13	5.10	5.39	4864.37	0.10	3.59	4.13	4864.80	0.11																																																					
9/6/2024	0.13	0.73	4869.60	0.27	0.50	1.10	4869.55	0.22					2.82	3.07	4859.90	3.76	5.65	5.90	4863.59	(0.33)	6.68	6.97	4862.79	(1.58)	4.12	4.66	4864.27	(0.53)																																																					
9/16/2024									2.71	3.00	4859.43	0.24																																																																					
10/4/2024	0.34	0.94	4869.39	(0.21)	0.68	1.28	4869.37	(0.18)	2.74	3.03	4859.40	(0.03)	6.90	7.15	4855.82	(4.08)	4.05	4.30	4865.19	1.60	5.57	5.86	4863.90	1.11	5.82	6.36	4862.57	(1.70)																																																					
11/12/2024	1.31	1.91	4868.42	(0.97)	1.96	2.56	4868.09	(1.28)	3.60	3.89	4858.54	(0.86)	6.93	7.18	4855.79	(0.03)	4.37	4.62	4864.87	(0.32)	5.87	6.16	4863.60	(0.30)	6.13	6.67	4862.26	(0.31)																																																					
12/11/2024	2.83	3.43	4866.90	(1.52)	3.55	4.15	4866.50	(1.59)	4.07	4.36	4858.07	(0.47)	7.10	7.35	4855.62	(0.17)	5.90	6.15	4863.34	(1.53)	7.35	7.64	4862.12	(1.48)	7.58	8.12	4860.81	(1.45)																																																					
1/14/2025	3.74	4.34	4865.99	(0.91)	4.49	5.09	4865.56	(0.94)	4.40	4.69	4857.74	(0.33)	7.37	7.62	4855.35	(0.27)	6.55	6.80	4862.69	(0.65)	8.02	8.31	4861.45	(0.67)	8.20	8.74	4860.19	(0.62)																																																					
2/5/2025	4.15	4.75	4865.58	(0.41)	4.83	5.43	4865.22	(0.34)	4.48	4.77	4857.66	(0.08)	7.40	7.65	4855.32	(0.03)	6.75	7.00	4862.49	(0.20)	8.24	8.53	4861.23	(0.22)	8.45	8.99	4859.94	(0.25)																																																					
3/4/2025	4.44	5.04	4865.29	(0.29)	5.20	5.80	4864.85	(0.37)	4.60	4.89	4857.54	(0.12)	7.40	7.65	4855.32	0.00	6.80	7.05	4862.44	(0.05)	8.23	8.52	4861.24	0.01	8.32	8.86	4860.07	0.13																																																					
Max	4.44	5.04	4869.60	1.92	5.20	5.80	4869.55	2.05	7.15	7.44	4859.71	3.77	7.47	7.72	4859.90	6.36	7.52	7.77	4865.19	7.22	8.24	8.53	4865.37	6.18	8.45	8.99	4865.52	5.53																																																					
Min	0.13	0.73	4865.29	(1.52)	0.50	1.10	4864.85	(1.59)	2.43	2.72	4864.99	(0.93)	2.82	3.07	4855.25	(4.08)	4.05	4.30	4861.72	(1.53)	4.10	4.39	4861.23	(1.58)	2.87	3.41	4859.94	(1.70)																																																					
Max Change	4.31	4.31	4.31		4.70	4.70	4.70		4.72	4.72	4.72		4.65	4.65	4.65		3.47	3.47	3.47		4.14	4.14	4.14		5.58	5.58	5.58																																																						
Average	1.65	2.25	4868.08	(0.05)	2.18	2.78	4867.87	(0.05)	3.79	4.08	4868.35	0.26	6.76	7.01	4855.96	0.29	5.93	6.18	4863.31	0.22	6.12	6.42	4863.35	0.10	5.05	5.59	4863.34	0.00																																																					

¹ Elevations surveyed by Survey Systems, Evergreen, Colorado (July, 2011).

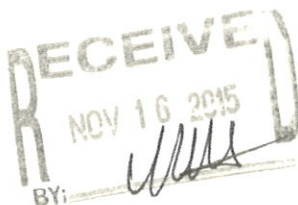
Figure 1.1

Thornton 2019 Gravel Pit Monitoring
Map of Monitoring Wells at Zadel Pit

DRCOG 2012 DRAPP AERIAL PHOTOGRAPHY
Map Created 9/19/19



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community



Analytical Results

TASK NO: 151104014

Report To: Chris Zadel

Company: Northern Colorado Constructors
9075 WCR 10
Fort Lupton CO 80621

Bill To: Chris Zadel

Company: Northern Colorado Constructors
9075 WCR 10
Fort Lupton CO 80621

Task No.: 151104014
Client PO:
Client Project:

Date Received: 11/4/15
Date Reported: 11/13/15

Customer Sample ID Top Soil

Sample Date/Time: 11/4/15 10:00 AM Lab Number: 151104014-01

Particle Size Analysis

Screen Size	% Retained
#6 / 3.4 mm	0.0
#10 / 2.0 mm	0.4
#18 / 1.0 mm	15.4
#35 / 0.5 mm	15.2
#60 / 0.25 mm	11.4
#100 / 0.15 mm	6.4
#270 / 0.05 mm	11.8
Silt	26.0
Clay	13.4

DATA APPROVED FOR RELEASE BY

Page 1 of 1

240 South Main Street / Brighton, CO 80601-0507 / 303-659-2313
Mailing Address: P.O. Box 507 / Brighton, CO 80601-0507 / Fax: 303-659-2315
Page 1 of 2

151104014



LABORATORIES, INC.

Soil Nutrient Laboratory Report

Lab No.: 151104014-01
Date Rec: 11/4/15
Reported: 11/13/15

Report To: Chris Zadel

Company: Northern Colorado Constructors
9075 WCR 10
Fort Lupton CO 80621

Sample ID: Top Soil

Project: NCC Pit # 1

Laboratory Results:

Sample Result Low-----Ave-----High

Field Texture (EST)	Silt Loam	
pH (units)	7.6	*****
Salts (MMHOS/CM)	3.7	*****
CEC Est. (MEQ/100G)	11.4	*****
Lime (Qual.)	Medium	*****
Organic Matter (%)	1.3	*****
Organic N (lbs/acre)	38.2	*****
Sodium (meq/100g Soil)	2.34	*****

Available Nutrients (ppm)

Nitrate Nitrogen	10.5	*****
Phosphorus	12.4	*****
Potassium	166.3	*****
Calcium	3604.5	*****
Magnesium	518.0	*****
Sulfur	477.6	*****
Boron	0.7	*****
Zinc	4.6	*****
Iron	29.2	*****
Manganese	2.4	*****
Copper	5.5	*****

Note: Average Values are for Colorado Soils

Fertilizer Recommendations

General Landscape

Nitrogen: 110 lbs/Acre
Phosphorus - P2O5: 60 lbs/Acre
Potassium - K2O: 0 lbs/Acre
Sulfur SO4-S: 0 lbs/Acre
Lime: 0 lbs/Acre

*To convert recommendations to lbs/1000 sq. ft. divide by 40.

Comments

Split Nitrogen Recommendations 2 to 3 Times Throughout the Growing Season.

Yield Reduction Likely Due To High Salts.
Soil Contains Excess Alkali.
3 to 4 Cubic Yards/ 1000 sq. ft. of Low Salt Compost May Be Beneficial.

REPORT NUMBER

19-308-1023

COMPLETED DATE

Nov 6, 2019

RECEIVED DATE

Nov 4, 2019

ACCOUNT

44140

13611 B Street • Omaha, Nebraska 68144-3693 • (402) 334-7770

www.midwestlabs.com

PAGE 1/3

TODAY'S DATE

Nov 06, 2019

Northern Colorado Constructors
Larry Moir
9075 Weld County Road 10
Fort Lupton CO 80621

IDENTIFICATION

NCC**BENNET PIT TOPSOIL****SOIL ANALYSIS REPORT**

INFO SHEET: 1160826																								
LAB NUMBER	SAMPLE IDENTIFICATION	ORGANIC MATTER L.O. I.	PHOSPHORUS						NEUTRAL AMMONIUM ACETATE(EXCHANGEABLE)				pH		CATION EXCHANGE CAPACITY C.E.C.	PERCENT BASE SATURATION (COMPUTED)								
			P ₁ (WEAK BRAY) 1:7		P ₂ (STRONG BRAY) 1:7		OLSEN BICARBONATE P		K		Mg		Ca			Na		SOIL pH 1:1	BUFFER INDEX	% K	% Mg	% Ca	% H	% Na
			percent	RATE	ppm	RATE	ppm	RATE	ppm	RATE	ppm	RATE	ppm	RATE		ppm	RATE							
351																								
50651	10-16-19	1.8 L	36 VH	105 VH			120 M	413 VH	2218 H	228 VH	7.1		15.8	1.9	21.8	70.0	0.0	6.3						

LAB NUMBER	NITRATE-N (FIA)										SULFUR S ICAP		ZINC Zn DTPA		MANGANESE Mn DTPA		IRON Fe DTPA		COPPER Cu DTPA		BORON B SORB. DTPA		EXCESS LIME RATE	SOLUBLE SALTS 1:1			
	SURFACE			SUBSOIL 1			SUBSOIL 2			Total lbs/A	ppm	RATE	ppm	RATE	ppm	RATE	ppm	RATE	ppm	RATE	ppm	RATE		mmhos/ cm	RATE		
	ppm	lbs/A	depth (in)	ppm	lbs/A	depth (in)	ppm	lbs/A	depth (in)																		
351																											
50651	4	7	0-6							7	162 VH	14.4 VH	3 VL	44 VH	9.3 VH	0.8 M	L	1.0 L									

REV.10/17

The above analytical results apply only to the sample(s) submitted. Samples are retained a maximum of 30 days.

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REPORT NUMBER

19-308-1023

COMPLETED DATE

Nov 6, 2019

RECEIVED DATE

Nov 4, 2019

ACCOUNT

44140



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IDENTIFICATION

NCC

BENNET PIT TOPSOIL

PAGE 2/3

TODAY'S DATE

Nov 06, 2019

**Northern Colorado Constructors
Larry Moir
9075 Weld County Road 10
Fort Lupton CO 80621**

SOIL TEXTURE REPORT

Lab Number	Sample Identification	SAND	SILT	CLAY	SOIL TYPE
35150651	10-16-19	54%	20%	26%	SANDY CLAY LOAM

The above analytical results apply only to the sample(s) submitted. Samples are retained a maximum of 30 days.

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REPORT NUMBER

19-308-1023

COMPLETED DATE

Nov 6, 2019

RECEIVED DATE

Nov 4, 2019

ACCOUNT

44140

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PAGE 3/3

TODAY'S DATE

Nov 06, 2019

Northern Colorado Constructors
 Larry Moir
 9075 Weld County Road 10
 Fort Lupton CO 80621

IDENTIFICATION

NCC**BENNET PIT TOPSOIL****SOIL FERTILITY RECOMMENDATIONS (POUNDS PER ACRE)**

YOUR SAMPLE NUMBER (LAB NUMBER)	INTENDED CROP	YIELD GOAL	PREVIOUS CROP	SOIL AMENDMENTS				N NITROGEN	P ₂ O ₅ PHOSPHATE	K ₂ O POTASH	Mg MAGNE- SIUM	S SULFUR	Zn ZINC	Mn MANGA- NESE	Fe IRON	Cu COPPER	B BORON
				LIME LBS/A OF	LIME TON	GYP-SUM TONS/A	ELEMENTAL SULFUR LBS/A										
10-16-19 (35150651)	GRASS HAY - ton	2.0	FALLOW			0.7	OR	110	50	5	45	--	--	--	--	--	--

REV. 12/03

The above analytical results apply only to the sample(s) submitted. Samples are retained a maximum of 30 days.

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REPORT NUMBER

21-032-0132

COMPLETED DATE

Feb 3, 2021

RECEIVED DATE

Feb 1, 2021

ACCOUNT

44140

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PAGE 1/2

TODAY'S DATE

Feb 03, 2021

Northern Colorado Constructors
Larry Moir
9075 Weld County Road 10
Fort Lupton CO 80621

IDENTIFICATION

NORTHERN COLORADO CONSTRUCTORS**BENNETT PIT****TOPSOIL PILE****SOIL ANALYSIS REPORT**

LAB NUMBER	SAMPLE IDENTIFICATION	ORGANIC MATTER L.O.I. percent RATE	PHOSPHORUS			NEUTRAL AMMONIUM ACETATE (EXCHANGEABLE)				pH		CATION EXCHANGE CAPACITY C.E.C. meq/100g	PERCENT BASE SATURATION (COMPUTED)				
			P ₁ (WEAK 1:7)	P ₂ (STRONG 1:7)	OLSEN BICARBONATE P	K	Mg	Ca	Na	SOIL pH 1:1	BUFFER INDEX		% K	% Mg	% Ca	% H	% Na
			ppm RATE	ppm RATE	ppm RATE	ppm RATE	ppm RATE	ppm RATE	ppm RATE								
375																	
97719	1	2.6 M	18 M	84 VH	28 VH	178 M	604 VH	3647 M	766 VH	7.7		27.1	1.7	18.6	67.4	0.0	12.3
97720	2	2.4 L	18 M	87 VH	22 H	139 L	543 VH	3467 H	676 VH	7.8		25.2	1.4	18.0	68.9	0.0	11.7

LAB NUMBER	NITRATE-N (FIA)										SULFUR S ICAP	ZINC Zn DTPA		MANGANESE Mn DTPA		IRON Fe DTPA		COPPER Cu DTPA		BORON B SORB. DTPA		EXCESS LIME RATE	SOLUBLE SALTS 1:1		
	SURFACE			SUBSOIL 1			SUBSOIL 2			Total lbs/A		ppm RATE	ppm RATE	ppm RATE	ppm RATE	ppm RATE	ppm RATE	ppm RATE	ppm RATE	ppm RATE	ppm RATE		mmhos/ cm	RATE	
	ppm	lbs/A	depth (in)	ppm	lbs/A	depth (in)	ppm	lbs/A	depth (in)		ppm	RATE	RATE	RATE	RATE	RATE	RATE	RATE	RATE	RATE	RATE			RATE	
375																									
97719	17	31	0-6							31	543 VH	4.7 H		5 L		35 VH		5.1 VH		1.9 VH		L	2.7 H		
97720	15	27	0-6							27	551 VH	5.5 H		5 L		34 VH		6.1 VH		1.9 VH		L	2.6 H		

REV.10/17

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REPORT NUMBER

21-032-0132

COMPLETED DATE

Feb 3, 2021

RECEIVED DATE

Feb 1, 2021

ACCOUNT

44140

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TODAY'S DATE

Feb 03, 2021

Northern Colorado Constructors
Larry Moir
9075 Weld County Road 10
Fort Lupton CO 80621

IDENTIFICATION

NORTHERN COLORADO CONSTRUCTORS
BENNETT PIT
TOPSOIL PILE

SOIL FERTILITY RECOMMENDATIONS (POUNDS PER ACRE)

YOUR SAMPLE NUMBER (LAB NUMBER)	INTENDED CROP	YIELD GOAL	PREVIOUS CROP	SOIL AMENDMENTS				N NITROGEN	P ₂ O ₅ PHOSPHATE	K ₂ O POTASH	Mg MAGNE- SIUM	S SULFUR	Zn ZINC	Mn MANGA- NESE	Fe IRON	Cu COPPER	B BORON
				LIME LBS/A OF	LIME TON	GYP-SUM TONS/A	ELEMENTAL SULFUR LBS/A										
1 (37597719)	GRASS HAY - ton	2.0	FALLOW			2.8	OR	460	20	--	30	--	--	--	--	--	--
	GRAMA GRASS	BEST	FALLOW			2.8	OR	460	25	--	55	--	--	2.0	--	--	--
	WHEAT DURUM -bu	45.0	FALLOW			2.8	OR	460	60	--	40	--	--	2.0	--	--	--
2 (37597720)	GRASS HAY - ton	2.0	FALLOW			2.4	OR	410	25	10	40	--	--	--	--	--	--
	GRAMA GRASS	BEST	FALLOW			2.4	OR	410	30	20	75	--	--	2.0	--	--	--
	WHEAT DURUM -bu	40.0	FALLOW			2.4	OR	410	50	10	50	--	--	1.8	--	--	--

REV. 12/03

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REPORT NUMBER

22-019-0221

COMPLETED DATE

Jan 21, 2022

RECEIVED DATE

Jan 19, 2022

ACCOUNT

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PAGE 1/4

TODAY'S DATE

Jan 21, 2022

Northern Colorado Constructors
Larry Moir
9075 Weld County Road 10
Fort Lupton CO 80621

IDENTIFICATION

NORTHERN COLORADO CONSTRUCTORS
BENNETT PIT
TOPSOIL

SOIL ANALYSIS REPORT

LAB NUMBER	SAMPLE IDENTIFICATION	ORGANIC MATTER L.O. I. percent RATE	PHOSPHORUS			NEUTRAL AMMONIUM ACETATE (EXCHANGEABLE)				pH		CATION EXCHANGE CAPACITY C.E.C. meq/100g	PERCENT BASE SATURATION (COMPUTED)				
			P ₁ (WEAK BRAY) 1:7 ppm RATE	P ₂ (STRONG BRAY) 1:7 ppm RATE	OLSEN BICARBONATE P ppm RATE	POTASSIUM K ppm RATE	MAGNESIUM Mg ppm RATE	CALCIUM Ca ppm RATE	SODIUM Na ppm RATE	SOIL pH 1:1	BUFFER INDEX		% K	% Mg	% Ca	% H	% Na
393																	
70442	1	1.3 VL	11 L	68 VH	14 M	126 L	460 VH	2489 M	485 VH	7.8		18.7	1.7	20.5	66.5	0.0	11.3

LAB NUMBER	NITRATE-N (FIA)										SULFUR S ICAP		ZINC Zn DTPA		MANGANESE Mn DTPA		IRON Fe DTPA		COPPER Cu DTPA		BORON B SORB. DTPA		EXCESS LIME RATE	SOLUBLE SALTS 1:1 mmhos/ cm		
	SURFACE			SUBSOIL 1			SUBSOIL 2			Total lbs/A																
	ppm	lbs/A	depth (in)	ppm	lbs/A	depth (in)	ppm	lbs/A	depth (in)																	
393	ppm	lbs/A	depth (in)	ppm	lbs/A	depth (in)	ppm	lbs/A	depth (in)	Total lbs/A	ppm	RATE	ppm	RATE	ppm	RATE	ppm	RATE	ppm	RATE		mmhos/ cm	RATE			
70442	16	29	0-6							29	223	VH	4.5	H	4	VL	38	VH	6.3	VH	1.4	H	L	1.3	M	

REV.10/17

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Jan 21, 2022

**Northern Colorado Constructors
Larry Moir
9075 Weld County Road 10
Fort Lupton CO 80621**

IDENTIFICATION

**NORTHERN COLORADO CONSTRUCTORS
BENNETT PIT
TOPSOIL**

SOIL TEXTURE REPORT

Lab Number	Sample Identification	SAND	SILT	CLAY	SOIL TYPE
39370442	1	48%	26%	26%	SANDY CLAY LOAM

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22-019-0221

ACCOUNT
44140



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TODAY'S DATE
Jan 21, 2022

IDENTIFICATION
NORTHERN COLORADO CONSTRUCTORS
BENNETT PIT
TOPSOIL

SOIL FERTILITY RECOMMENDATIONS (POUNDS PER ACRE)

[illegible]

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COMPLETED DATE

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Jan 21, 2022

Northern Colorado Constructors
Larry Moir
9075 Weld County Road 10
Fort Lupton CO 80621

IDENTIFICATION

NORTHERN COLORADO CONSTRUCTORS
BENNETT PIT
TOPSOIL

LAWN AND GARDEN**ANALYTICAL LABORATORY FINDINGS**

SAMPLE IDENTIFICATION		1				
LABORATORY NUMBER		39370442				
ANALYTE	UNITS	RESULTS	LOW	MEDIUM	OPTIMUM	V. HIGH
NITROGEN						
ORGANIC MATTER	%	1.3				
NITRATE-N	ppm	16				
PHOSPHORUS	ppm	20				
POTASSIUM	ppm	126				
MAGNESIUM	ppm	460				
MICRO-NUTRIENTS						
SULFUR	ppm	223				
ZINC	ppm	4.5				
MANGANESE	ppm	4				
IRON	ppm	38				
COPPER	ppm	6.3				
BORON	ppm	1.4				
CALCIUM	ppm	2489				
SODIUM	ppm	485				
SOLUBLE SALTS	mmhos/cm	1.3				
EXCESS LIME RATE		L				
pH		7.8				
BUFFER INDEX						
C.E.C.	meq/100g	18.7				

MIDWEST SUGGESTIONS FOR LAWN

POUNDS PER	100 sq. ft.	1000 sq. ft.	Acre	
SUGGESTED FERTILITY GUIDELINES				
NITROGEN (N)	0.29	2.87	125	<i>Surface Nitrate Depth: 0-6</i>
PHOSPHATE (P ₂ O ₅)	0.09	0.92	40	
POTASH (K ₂ O)	0.15	1.49	65	
MAGNESIUM (Mg)	--	--	--	
SULFUR (S)	--	--	--	
ZINC (Zn)	--	--	--	
MANGANESE (Mn)	0.01	0.05	2.3	
IRON (Fe)	--	--	--	
COPPER (Cu)	--	--	--	
BORON (B)	--	--	--	
SUGGESTED AMENDMENT GUIDELINES				
LIME				
ELEMENTAL SULFUR	0.7	7	290	
	OR	OR	OR	
GYPSON	7.8	78.1	3400	

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