



STATE OF
COLORADO

Lennberg - DNR, Patrick <patrick.lennberg@state.co.us>

Additional Info Required, 3Q2024 GW Level Monitoring, NCCI Pit #1, M2001-107

JC York <jcyork@j-tconsulting.com>

Wed, Oct 9, 2024 at 2:23 PM

To: "Lennberg - DNR, Patrick" <patrick.lennberg@state.co.us>, Chris Zadel <chrisz@ncconstructors.com>

Patrick –

Attached is the map showing the locations of the monitor wells. I am working on the spreadsheet to get it updated with the levels relative to the ground surface. NCC is mobilizing equipment tomorrow to start construction of the drain again as they started it this Spring but groundwater was up and the flows in Little Dry Creek were running pretty high so they opted to stop and start up again in the fall (now).

Also let me know if you have time for a phone call.

Regards,

J.C.

J.C. York, P.E.

J&T Consulting, Inc.

305 Denver Avenue, Suite D

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From: Lennberg - DNR, Patrick <patrick.lennberg@state.co.us>

Sent: Wednesday, October 2, 2024 9:29 AM

To: Chris Zadel <chrisz@nccconstructors.com>; JC York <jcyork@j-tconsulting.com>

Subject: Additional Info Required, 3Q2024 GW Level Monitoring, NCCI Pit #1, M2001-107

Good Morning,

[Quoted text hidden]

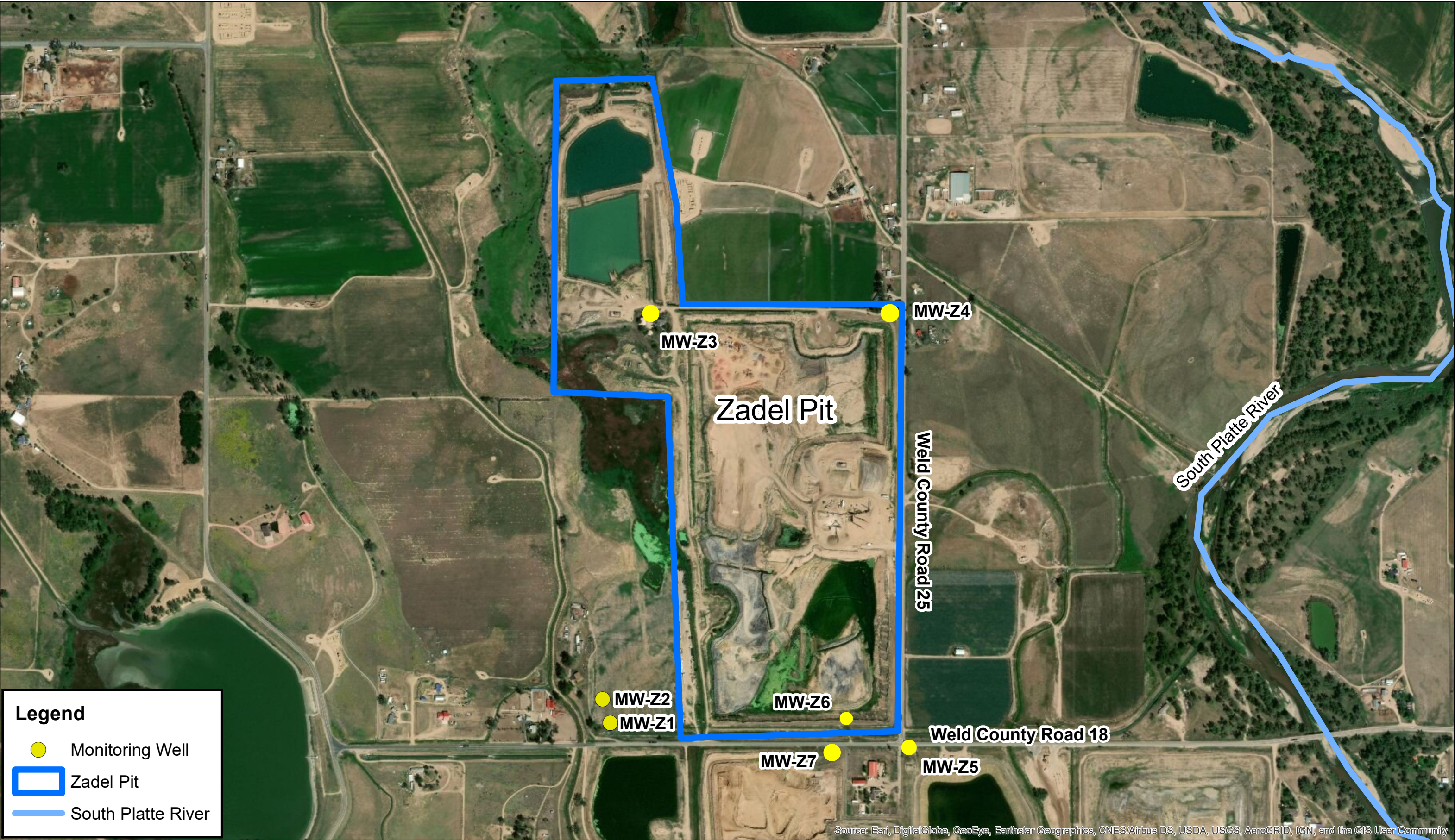
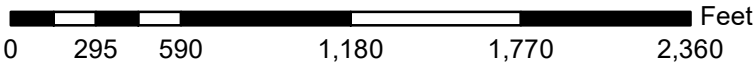


NCCI Pit #1 Monitor Well Map 3.20.24.pdf
2372K

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



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Additional Info Required, 3Q2024 GW Level Monitoring, NCCI Pit #1, M2001-107

JC York <jcyork@j-tconsulting.com>

Wed, Oct 16, 2024 at 12:52 PM

To: "Lennberg - DNR, Patrick" <patrick.lennberg@state.co.us>

Cc: Chris Zadel <chrisz@ncconstructors.com>

Patrick –

Attached is the updated spreadsheet with the revisions you needed for depth from ground surface to water surface. Let me know if you have any questions or need anything else.

[Quoted text hidden]



Zadel Pit Updated Q3 Readings 10.16.24.pdf

110K

Zadel Pit

Piezometer Number Ground Surface Elevation (ft) ⁽¹⁾ Top of PVC Elevation (ft) ⁽¹⁾		Off-site Monitoring Wells																											
		MW-Z1				MW-Z2				MW-Z3				MW-Z4				MW-Z5				MW-Z6				MW-Z7			
		4870.33 4869.73		4870.66 4870.05		4870.66 4870.05		4862.43 4862.14		4862.97 4862.72		4869.49 4869.24		4869.76 4869.24		4869.76 4869.24		4869.76 4869.24		4869.76 4869.24		4869.76 4869.24							
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	0.40	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	4.27	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	0.90	1.04	1.64	4868.01	0.99	3.38	3.67	4858.76	0.71	6.70	6.95	4856.02	0.40	4.89	5.18	4863.94	7.01	4.89	5.18	4864.58	6.18	2.75	3.41	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)	5.75	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	4856.44	(0.03)	6.53	6.78	4863.43	(0.75)	6.04	6.33	4863.43	(0.65)	6.42	6.71	4863.38	(0.56)	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	4862.38	(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	(0.04)	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	0.03	5.02	5.56	4863.37	0.01	
3/15/2024	2.38	2.98	4866.45	(0.16)	3.42	4.02	4866.43	(0.15)	4.42	4.71	4858.04	0.27	6.77	7.02	4855.99	0.58	5.99	6.24	4862.35	1.33	5.50	5.79	4863.37	1.12	4.85	5.39	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	4864.29	(0.47)	5.18	5.47	4864.75	(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	0.73	1.33	4869.60	0.27	0.90	1.10	4869.55	0.22					2.82	3.07	4859.90	0.76	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																	
Min	2.88	3.48	4869.80	1.92	3.42	4.02	4869.55	2.05	7.15	7.44	4859.71	3.77	7.47	7.72	4859.90	6.36	7.27	7.52	4864.97	7.22	6.76	7.05	4865.37	6.18	5.02	5.56	4865.52	5.53	
Max	0.13	0.73	4866.85	(0.52)	0.50	1.10	4866.63	(0.62)	2.43	2.72	4854.99	(0.93)	2.82	3.07	4862.71	(0.46)	4.27	4.52	4861.72	(1.03)	4.10	4.39	4862.71	(1.58)	2.87	3.41	4863.37	0.80	
Max Change	2.75	2.75	2.75		2.92	2.92	2.92		4.72	4.72	4.72		4.65	4.65	4.65		3.25	3.25	3.25		2.66	2.66	2.66		2.15	2.15	2.15		
Average	1.19	1.79	4868.54	0.30	1.67	2.27	4868.38	0.24	3.70	3.99	4858.44	0.51	6.59	6.84	4856.13	0.71	6.01	6.26	4863.23	0.39	5.69	5.98	4863.78	0.24	4.11	4.65	4864.28	0.29	

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