

Zadel Pit

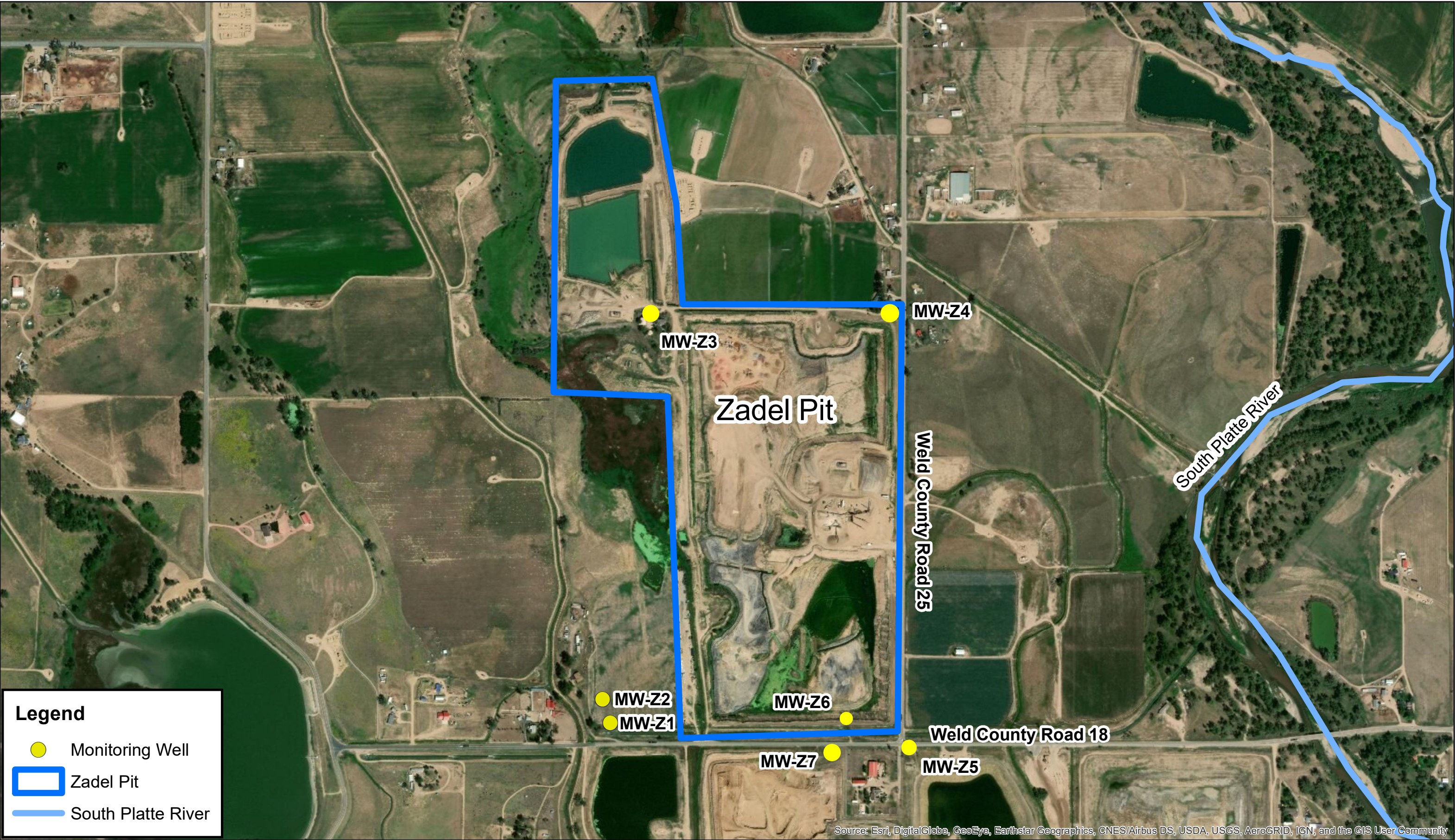
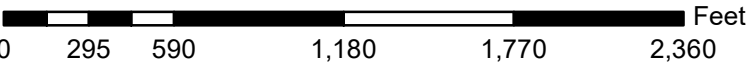
		Off-site Monitoring Wells																																																																																															
Piezometer Number Ground Surface Elevation (ft) ¹⁾ Top of PVC Elevation (ft) ¹⁾		MW-Z1 4870.33 4869.73				MW-Z2 4870.66 4870.05				MW-Z3 4862.43 4862.14				MW-Z4 4862.97 4862.72				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	4858.35	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