APPENDICES J - S

2020 Annual Maximum Benefits Monitoring Program Report

for the

Beaumont, San Timoteo and Yucaipa Groundwater Management Zones

in the

Upper Santa Ana River Basin

APPENDIX J

Historical Stream Flow Measured at Monitoring Stations CC-01, CC-03 and STC-01 in the Beaumont Groundwater Management Zone

Appendix J - Historical Stream Flow Discharge at Surface Water Monitoring Sites in the Beaumont Groundwater Management Zone

Site name	Date	Flow	Units	Comments
CC-01	10/21/2005	2.72	cfs	Average of instantaneous measurements
CC-01	10/31/2005	2.41	cfs	Average of instantaneous measurements
CC-01	11/14/2005	2.17	cfs	Average of instantaneous measurements
CC-01	11/30/2005	2.68	cfs	Average of instantaneous measurements
CC-01	1/11/2006	3.06	cfs	Average of instantaneous measurements
CC-01	1/25/2006	3.70	cfs	Average of instantaneous measurements
CC-01	2/9/2006	2.53	cfs	Average of instantaneous measurements
CC-01	2/23/2006	2.25	cfs	Average of instantaneous measurements
CC-01	3/8/2006	7.08	cfs	Average of instantaneous measurements
CC-01	3/22/2006	4.58	cfs	Average of instantaneous measurements
CC-01	4/5/2006	16.31	cfs	Average of instantaneous measurements
CC-01	4/19/2006	5.60	cfs	Average of instantaneous measurements
CC-01	5/2/2006	3.58	cfs	Average of instantaneous measurements
CC-01	5/17/2006	2.64	cfs	Average of instantaneous measurements
CC-01	5/31/2006	3.89	cfs	Average of instantaneous measurements
CC-01	6/14/2006	3.54	cfs	Average of instantaneous measurements
CC-01	6/28/2006	3.56	cfs	Average of instantaneous measurements
CC-01	7/14/2006	8.82	cfs	Average of instantaneous measurements
CC-01	7/26/2006	7.52	cfs	Average of instantaneous measurements
CC-01	8/9/2006	4.50	cfs	Average of instantaneous measurements
CC-01	8/23/2006	5.10	cfs	Average of instantaneous measurements
CC-01	9/6/2006	6.90	cfs	Average of instantaneous measurements
CC-01	9/20/2006	6.84	cfs	Average of instantaneous measurements
CC-01	10/5/2006	2.59	cfs	Average of instantaneous measurements
CC-01	10/19/2006	3.82	cfs	Average of instantaneous measurements
CC-01	11/1/2006	3.51	cfs	Average of instantaneous measurements
CC-01	11/15/2006	1.53	cfs	Average of instantaneous measurements
CC-01	11/29/2006	4.32	cfs	Average of instantaneous measurements
CC-01	12/13/2006	2.08	cfs	Average of instantaneous measurements
CC-01	12/27/2006	2.74	cfs	Average of instantaneous measurements
CC-01	1/10/2007	4.72	cfs	Average of instantaneous measurements
CC-01	1/24/2007	5.91	cfs	Average of instantaneous measurements
CC-01	2/7/2007	4.94	cfs	Average of instantaneous measurements
CC-01	2/21/2007	3.10	cfs	Average of instantaneous measurements

Appendix J - Historical Stream Flow Discharge at Surface Water Monitoring Sites in the Beaumont Groundwater Management Zone

Site name	Date	Flow	Units	Comments
CC-01	3/7/2007	5.03	cfs	Average of instantaneous measurements
CC-01	3/21/2007	5.61	cfs	Average of instantaneous measurements
CC-01	4/4/2007	5.88	cfs	Average of instantaneous measurements
CC-01	4/18/2007	5.98	cfs	Average of instantaneous measurements
CC-01	5/2/2007	5.98	cfs	Average of instantaneous measurements
CC-01	5/16/2007	6.13	cfs	Average of instantaneous measurements
CC-01	5/30/2007	5.87	cfs	Average of instantaneous measurements
CC-01	6/13/2007	5.87	cfs	Average of instantaneous measurements
CC-01	6/27/2007	5.01	cfs	Average of instantaneous measurements
CC-01	7/11/2007	4.81	cfs	Average of instantaneous measurements
CC-01	7/25/2007	4.88	cfs	Average of instantaneous measurements
CC-01	8/8/2007	6.98	cfs	Average of instantaneous measurements
CC-01	8/22/2007	13.55	cfs	Average of instantaneous measurements
CC-01	9/5/2007	2.89	cfs	Average of instantaneous measurements
CC-01	9/19/2007	6.80	cfs	Average of instantaneous measurements
CC-01	10/3/2007	3.97	cfs	Average of instantaneous measurements
CC-01	10/17/2007	12.90	cfs	Average of instantaneous measurements
CC-01	10/31/2007	12.40	cfs	Average of instantaneous measurements
CC-01	11/14/2007	13.30	cfs	Average of instantaneous measurements
CC-01	11/28/2007	12.40	cfs	Average of instantaneous measurements
CC-01	12/12/2007	36.41	cfs	Average of instantaneous measurements
CC-01	12/18/2007	2.72	cfs	Average of instantaneous measurements
CC-01	1/2/2008	1.59	cfs	Average of instantaneous measurements
CC-01	1/15/2008	1.75	cfs	Average of instantaneous measurements
CC-01	1/29/2008	2.38	cfs	Average of instantaneous measurements
CC-01	2/12/2008	3.65	cfs	Average of instantaneous measurements
CC-01	2/26/2008	3.24	cfs	Average of instantaneous measurements
CC-01	3/11/2008	1.89	cfs	Average of instantaneous measurements
CC-01	3/25/2008	4.21	cfs	Average of instantaneous measurements
CC-01	4/8/2008	3.58	cfs	Average of instantaneous measurements
CC-01	4/22/2008	4.58	cfs	Average of instantaneous measurements
CC-01	5/6/2008	0.00	cfs	Average of instantaneous measurements
CC-01	5/20/2008	1.78	cfs	Average of instantaneous measurements
CC-01	6/2/2008	2.58	cfs	Average of instantaneous measurements

Appendix J - Historical Stream Flow Discharge at Surface Water Monitoring Sites in the Beaumont Groundwater Management Zone

Site name	Date	Flow	Units	Comments
CC-01	6/17/2008	1.12	cfs	Average of instantaneous measurements
CC-01	6/30/2008	1.23	cfs	Average of instantaneous measurements
CC-01	7/17/2008	0.00	cfs	Average of instantaneous measurements
CC-01	7/29/2008	0.00	cfs	Average of instantaneous measurements
CC-01	8/12/2008	0.00	cfs	Average of instantaneous measurements
CC-01	8/26/2008	0.00	cfs	Average of instantaneous measurements
CC-01	9/9/2008	1.52	cfs	Average of instantaneous measurements
CC-01	9/23/2008	6.27	cfs	Average of instantaneous measurements
CC-01	10/9/2008	3.15	cfs	Average of instantaneous measurements
CC-01	10/23/2008	2.97	cfs	Average of instantaneous measurements
CC-01	11/6/2008	3.00	cfs	Average of instantaneous measurements
CC-01	11/20/2008	2.78	cfs	Average of instantaneous measurements
CC-01	12/4/2008	1.68	cfs	Average of instantaneous measurements
CC-01	12/18/2008	5.65	cfs	Average of instantaneous measurements
CC-01	12/30/2008	2.55	cfs	Average of instantaneous measurements
CC-01	1/19/2009	2.35	cfs	Average of instantaneous measurements
CC-01	1/29/2009	2.70	cfs	Average of instantaneous measurements
CC-01	2/12/2009	4.75	cfs	Average of instantaneous measurements
CC-01	2/26/2009	3.13	cfs	Average of instantaneous measurements
CC-01	3/12/2009	1.95	cfs	Average of instantaneous measurements
CC-01	3/26/2009	2.74	cfs	Average of instantaneous measurements
CC-01	4/9/2009	2.20	cfs	Average of instantaneous measurements
CC-01	4/23/2009	3.22	cfs	Average of instantaneous measurements
CC-01	5/7/2009	2.62	cfs	Average of instantaneous measurements
CC-01	5/21/2009	3.04	cfs	Average of instantaneous measurements
CC-01	6/4/2009	1.93	cfs	Average of instantaneous measurements
CC-01	6/18/2009	2.33	cfs	Average of instantaneous measurements
CC-01	7/2/2009	2.67	cfs	Average of instantaneous measurements
CC-01	7/16/2009	1.93	cfs	Average of instantaneous measurements
CC-01	7/30/2009	2.31	cfs	Average of instantaneous measurements
CC-01	8/13/2009	2.99	cfs	Average of instantaneous measurements
CC-01	8/27/2009	3.13	cfs	Average of instantaneous measurements
CC-01	9/10/2009	3.33	cfs	Average of instantaneous measurements
CC-01	9/24/2009	3.02	cfs	Average of instantaneous measurements

Appendix J - Historical Stream Flow Discharge at Surface Water Monitoring Sites in the Beaumont Groundwater Management Zone

Site name	Date	Flow	Units	Comments
CC-01	10/8/2009	3.14	cfs	Average of instantaneous measurements
CC-01	10/20/2009	1.81	cfs	Average of instantaneous measurements
CC-01	11/5/2009	3.19	cfs	Average of instantaneous measurements
CC-01	11/19/2009	2.12	cfs	Average of instantaneous measurements
CC-01	12/3/2009	2.45	cfs	Average of instantaneous measurements
CC-01	12/17/2009	2.83	cfs	Average of instantaneous measurements
CC-01	12/30/2009	2.39	cfs	Average of instantaneous measurements
CC-01	1/14/2010	2.24	cfs	Average of instantaneous measurements
CC-01	2/25/2010	4.18	cfs	Average of instantaneous measurements
CC-01	3/11/2010	3.05	cfs	Average of instantaneous measurements
CC-01	3/25/2010	3.17	cfs	Average of instantaneous measurements
CC-01	4/8/2010	1.84	cfs	Average of instantaneous measurements
CC-01	4/22/2010	2.87	cfs	Average of instantaneous measurements
CC-01	5/6/2010	2.76	cfs	Average of instantaneous measurements
CC-01	5/20/2010	2.52	cfs	Average of instantaneous measurements
CC-01	6/3/2010	2.08	cfs	Average of instantaneous measurements
CC-01	6/17/2010	1.40	cfs	Average of instantaneous measurements
CC-01	7/1/2010	1.78	cfs	Average of instantaneous measurements
CC-01	7/15/2010	1.67	cfs	Average of instantaneous measurements
CC-01	7/29/2010	1.20	cfs	Average of instantaneous measurements
CC-01	8/12/2010	1.84	cfs	Average of instantaneous measurements
CC-01	8/26/2010	1.46	cfs	Average of instantaneous measurements
CC-01	9/9/2010	2.02	cfs	Average of instantaneous measurements
CC-01	9/23/2010	1.91	cfs	Average of instantaneous measurements
CC-01	10/7/2010	2.12	cfs	Average of instantaneous measurements
CC-01	10/21/2010	1.88	cfs	Average of instantaneous measurements
CC-01	11/4/2010	2.22	cfs	Average of instantaneous measurements
CC-01	11/18/2010	2.40	cfs	Average of instantaneous measurements
CC-01	12/2/2010	2.10	cfs	Average of instantaneous measurements
CC-01	3/3/2011	3.43	cfs	Average of instantaneous measurements
CC-01	3/18/2011	2.05	cfs	Average of instantaneous measurements
CC-01	3/31/2011	1.47	cfs	Average of instantaneous measurements
CC-01	4/14/2011	3.39	cfs	Average of instantaneous measurements
CC-01	4/28/2011	1.93	cfs	Average of instantaneous measurements

Appendix J - Historical Stream Flow Discharge at Surface Water Monitoring Sites in the Beaumont Groundwater Management Zone

Site name	Date	Flow	Units	Comments
CC-01	5/12/2011	1.83	cfs	Average of instantaneous measurements
CC-01	5/26/2011	1.91	cfs	Average of instantaneous measurements
CC-01	7/7/2011	2.24	cfs	Average of instantaneous measurements
CC-01	10/11/2011	4.11	cfs	Average of instantaneous measurements
CC-01	10/27/2011	5.07	cfs	Average of instantaneous measurements
CC-01	11/17/2011	2.42	cfs	Average of instantaneous measurements
CC-01	11/29/2011	2.31	cfs	Average of instantaneous measurements
CC-01	12/8/2011	2.02	cfs	Average of instantaneous measurements
CC-01	12/21/2011	2.30	cfs	Average of instantaneous measurements
CC-01	1/11/2012	2.62	cfs	Average of instantaneous measurements
CC-01	1/26/2012	2.48	cfs	Average of instantaneous measurements
CC-01	2/8/2012	1.89	cfs	Average of instantaneous measurements
CC-01	2/27/2012	2.09	cfs	Average of instantaneous measurements
CC-01	3/9/2012	2.16	cfs	Average of instantaneous measurements
CC-01	3/26/2012	3.08	cfs	Average of instantaneous measurements
CC-01	4/12/2012	3.45	cfs	Average of instantaneous measurements
CC-01	4/27/2012	2.92	cfs	Average of instantaneous measurements
CC-01	5/18/2012	2.82	cfs	Average of instantaneous measurements
CC-01	5/30/2012	2.74	cfs	Average of instantaneous measurements
CC-01	6/12/2012	2.20	cfs	Average of instantaneous measurements
CC-01	6/28/2012	2.74	cfs	Average of instantaneous measurements
CC-01	7/9/2012	2.55	cfs	Average of instantaneous measurements
CC-01	7/24/2012	1.28	cfs	Average of instantaneous measurements
CC-01	8/3/2012	2.69	cfs	Average of instantaneous measurements
CC-01	8/16/2012	2.45	cfs	Average of instantaneous measurements
CC-01	9/7/2012	2.21	cfs	Average of instantaneous measurements
CC-01	9/25/2012	2.35	cfs	Average of instantaneous measurements
CC-01	10/10/2012	2.19	cfs	Average of instantaneous measurements
CC-01	10/26/2012	2.20	cfs	Average of instantaneous measurements
CC-01	11/7/2012	2.16	cfs	Average of instantaneous measurements
CC-01	11/15/2012	2.66	cfs	Average of instantaneous measurements
CC-01	12/6/2012	2.07	cfs	Average of instantaneous measurements
CC-01	12/14/2012	2.07	cfs	Average of instantaneous measurements
CC-01	1/3/2013	1.77	cfs	Average of instantaneous measurements

Appendix J - Historical Stream Flow Discharge at Surface Water Monitoring Sites in the Beaumont Groundwater Management Zone

Site name	Date	Flow	Units	Comments
CC-01	1/14/2013	3.09	cfs	Average of instantaneous measurements
CC-01	2/1/2013	1.81	cfs	Average of instantaneous measurements
CC-01	2/21/2013	2.50	cfs	Average of instantaneous measurements
CC-01	3/5/2013	2.61	cfs	Average of instantaneous measurements
CC-01	3/20/2013	2.81	cfs	Average of instantaneous measurements
CC-01	4/4/2013	2.68	cfs	Average of instantaneous measurements
CC-01	4/18/2013	2.86	cfs	Average of instantaneous measurements
CC-01	5/7/2013	4.14	cfs	Average of instantaneous measurements
CC-01	5/21/2013	3.06	cfs	Average of instantaneous measurements
CC-01	6/7/2013	1.76	cfs	Average of instantaneous measurements
CC-01	6/27/2013	3.04	cfs	Average of instantaneous measurements
CC-01	7/10/2013	2.20	cfs	Average of instantaneous measurements
CC-01	7/26/2013	2.34	cfs	Average of instantaneous measurements
CC-01	8/9/2013	2.45	cfs	Average of instantaneous measurements
CC-01	8/28/2013	1.85	cfs	Average of instantaneous measurements
CC-01	9/13/2013	2.82	cfs	Average of instantaneous measurements
CC-01	9/26/2013	3.41	cfs	Average of instantaneous measurements
CC-01	10/8/2013	2.52	cfs	Average of instantaneous measurements
CC-01	10/23/2013	1.65	cfs	Average of instantaneous measurements
CC-01	11/8/2013	2.86	cfs	Average of instantaneous measurements
CC-01	11/21/2013	3.09	cfs	Average of instantaneous measurements
CC-01	12/9/2013	2.22	cfs	Average of instantaneous measurements
CC-01	12/24/2013	3.61	cfs	Average of instantaneous measurements
CC-01	1/10/2014	3.08	cfs	Average of instantaneous measurements
CC-01	2/10/2014	2.57	cfs	Average of instantaneous measurements
CC-01	2/26/2014	2.16	cfs	Average of instantaneous measurements
CC-01	3/6/2014	1.56	cfs	Average of instantaneous measurements
CC-01	3/20/2014	2.58	cfs	Average of instantaneous measurements
CC-01	4/4/2014	2.02	cfs	Average of instantaneous measurements
CC-01	4/17/2014	1.08	cfs	Average of instantaneous measurements
CC-01	5/1/2014	2.00	cfs	Average of instantaneous measurements
CC-01	5/19/2014	2.15	cfs	Average of instantaneous measurements
CC-01	6/1/2014	1.14	cfs	Average of instantaneous measurements
CC-01	6/20/2014	1.44	cfs	Average of instantaneous measurements

Appendix J - Historical Stream Flow Discharge at Surface Water Monitoring Sites in the Beaumont Groundwater Management Zone

Site name	Date	Flow	Units	Comments
CC-01	7/1/2014	1.93	cfs	Average of instantaneous measurements
CC-01	7/17/2014	1.72	cfs	Average of instantaneous measurements
CC-01	8/1/2014	1.58	cfs	Average of instantaneous measurements
CC-01	8/11/2014	2.03	cfs	Average of instantaneous measurements
CC-01	9/8/2014	3.32	cfs	Average of instantaneous measurements
CC-01	9/24/2014	2.77	cfs	Average of instantaneous measurements
CC-01	10/8/2014	3.44	cfs	Average of instantaneous measurements
CC-01	10/17/2014	3.48	cfs	Average of instantaneous measurements
CC-01	11/6/2014	3.59	cfs	Average of instantaneous measurements
CC-01	11/20/2014	3.06	cfs	Instantaneous
CC-01	12/5/2014	3.62	cfs	Average of instantaneous measurements
CC-01	12/22/2014	4.44	cfs	Average of instantaneous measurements
CC-01	8/23/2016	4.79	cfs	
CC-01	9/6/2016	4.67	cfs	
CC-01	9/20/2016	4.20	cfs	
CC-01	10/4/2016	3.47	cfs	
CC-01	10/18/2016	3.69	cfs	
CC-01	11/1/2016	3.78	cfs	
CC-01	11/15/2016	4.47	cfs	
CC-01	11/30/2016	5.45	cfs	
CC-01	12/20/2016	4.35	cfs	
CC-01	1/10/2017	4.69	cfs	
CC-01	1/24/2017	6.67	cfs	
CC-01	2/8/2017	3.55	cfs	
CC-01	2/21/2017	5.10	cfs	
CC-01	3/9/2017	4.30	cfs	
CC-01	3/24/2017	4.14	cfs	
CC-01	4/4/2017	4.54	cfs	
CC-01	4/18/2017	4.11	cfs	
CC-01	5/2/2017	4.96	cfs	
CC-01	5/16/2017	4.44	cfs	
CC-01	5/30/2017	3.95	cfs	
CC-01	6/13/2017	3.71	cfs	
CC-01	6/27/2017	4.04	cfs	

Appendix J - Historical Stream Flow Discharge at Surface Water Monitoring Sites in the Beaumont Groundwater Management Zone

Site name	Date	Flow	Units	Comments
CC-01	7/13/2017	4.70	cfs	
CC-01	8/1/2017	3.99	cfs	
CC-01	8/22/2017	4.92	cfs	
CC-01	9/12/2017	4.71	cfs	
CC-01	9/19/2017	6.36	cfs	
CC-01	9/27/2017	4.23	cfs	
CC-01	10/11/2017	4.34	cfs	
CC-01	10/27/2017	4.90	cfs	
CC-01	11/6/2017	5.20	cfs	
CC-01	11/20/2017	3.87	cfs	
CC-01	12/5/2017	4.25	cfs	
CC-01	12/21/2017	5.36	cfs	
CC-01	1/12/2018	4.26	cfs	
CC-01	2/2/2018	4.42	cfs	
CC-01	2/15/2018	4.67	cfs	
CC-01	3/5/2018	4.44	cfs	
CC-01	3/29/2018	1.87	cfs	
CC-01	4/12/2018	4.77	cfs	
CC-01	4/26/2018	4.64	cfs	
CC-01	5/8/2018	5.17	cfs	
CC-01	5/25/2018	4.89	cfs	
CC-01	6/8/2018	4.31	cfs	
CC-01	6/27/2018	4.61	cfs	
CC-01	7/10/2018	4.35	cfs	
CC-01	7/17/2018	4.34	cfs	
CC-01	7/31/2018	4.72	cfs	
CC-01	8/17/2018	5.42	cfs	
CC-01	8/29/2018	4.36	cfs	
CC-01	9/14/2018	4.09	cfs	
CC-01	9/25/2018	4.80	cfs	
CC-01	10/12/2018	4.71	cfs	
CC-01	10/24/2018	5.29	cfs	
CC-01	11/12/2018	5.17	cfs	
CC-01	11/24/2018	5.73	cfs	
CC-01	11/30/2018	10.10	cfs	

Appendix J - Historical Stream Flow Discharge at Surface Water Monitoring Sites in the Beaumont Groundwater Management Zone

Site name	Date	Flow	Units	Comments
CC-01	12/21/2018	4.22	cfs	
CC-01	1/3/2019	4.18	cfs	
CC-01	1/18/2019	5.77	cfs	
CC-01	2/7/2019	4.77	cfs	
CC-01	2/18/2019	9.18	cfs	
CC-01	3/4/2019	6.66	cfs	
CC-01	3/18/2019	6.45	cfs	
CC-01	4/4/2019	5.07	cfs	
CC-01	4/24/2019	6.35	cfs	
CC-01	5/7/2019	8.60	cfs	
CC-01	5/25/2019	3.82	cfs	
CC-01	6/6/2019	5.12	cfs	
CC-01	6/20/2019	6.02	cfs	
CC-01	7/3/2019	4.71	cfs	
CC-01	7/16/2019	6.02	cfs	
CC-01	8/2/2019	4.38	cfs	
CC-01	8/15/2019	5.78	cfs	
CC-01	8/29/2019	5.03	cfs	
CC-01	9/15/2019	5.34	cfs	
CC-01	10/4/2019	4.92	cfs	
CC-01	10/14/2019	5.10	cfs	
CC-01	10/27/2019	5.10	cfs	
CC-01	11/8/2019	4.02	cfs	
CC-01	11/19/2019	5.27	cfs	
CC-01	11/29/2019	6.57	cfs	
CC-01	12/17/2019	3.99	cfs	
CC-01	12/30/2019	5.15	cfs	
CC-01	1/17/2020	4.88	cfs	
CC-01	2/5/2020	4.85	cfs	
CC-01	2/13/2020	4.82	cfs	
CC-01	3/2/2020	5.67	cfs	
CC-01	3/14/2020	4.94	cfs	
CC-01	4/4/2020	4.41	cfs	
CC-01	4/18/2020	5.31	cfs	
CC-01	4/28/2020	5.07	cfs	
CC-01	5/18/2020	5.61	cfs	

Appendix J - Historical Stream Flow Discharge at Surface Water Monitoring Sites in the Beaumont Groundwater Management Zone

Site name	Date	Flow	Units	Comments
CC-01	6/7/2020	4.46	cfs	
CC-01	6/18/2020	4.88	cfs	
CC-01	6/27/2020	6.57	cfs	
CC-01	7/18/2020	4.91	cfs	
CC-01	7/28/2020	2.13	cfs	
CC-01	8/16/2020	5.69	cfs	
CC-01	8/29/2020	4.41	cfs	
CC-01	9/12/2020	8.75	cfs	
CC-01	9/22/2020	7.23	cfs	
CC-01	10/10/2020	6.34	cfs	
CC-01	11/3/2020	5.11	cfs	
CC-01	11/10/2020	5.69	cfs	
CC-01	11/25/2020	7.53	cfs	
CC-01	12/10/2020	6.48	cfs	
CC-01	12/23/2020	8.08	cfs	

Appendix J - Historical Stream Flow Discharge at Surface Water Monitoring Sites in the Beaumont Groundwater Management Zone

Site name	Date	Flow	Units	Comments
CC-03	8/23/2016	3.99	cfs	
CC-03	9/6/2016	2.32	cfs	
CC-03	9/20/2016	3.73	cfs	
CC-03	10/4/2016	3.23	cfs	
CC-03	10/18/2016	4.16	cfs	
CC-03	11/1/2016	4.13	cfs	
CC-03	11/15/2016	3.77	cfs	
CC-03	11/30/2016	4.57	cfs	
CC-03	12/20/2016	3.69	cfs	
CC-03	1/10/2017	4.47	cfs	
CC-03	1/24/2017	7.61	cfs	
CC-03	2/8/2017	4.84	cfs	
CC-03	2/21/2017	5.07	cfs	
CC-03	3/9/2017	5.18	cfs	
CC-03	3/24/2017	3.83	cfs	
CC-03	4/4/2017	3.58	cfs	
CC-03	4/18/2017	4.74	cfs	
CC-03	5/2/2017	4.50	cfs	
CC-03	5/16/2017	5.12	cfs	
CC-03	5/30/2017	4.58	cfs	
CC-03	6/13/2017	3.59	cfs	
CC-03	6/27/2017	2.57	cfs	
CC-03	7/13/2017	2.88	cfs	
CC-03	8/1/2017	3.17	cfs	
CC-03	8/22/2017	3.40	cfs	
CC-03	9/12/2017	4.85	cfs	
CC-03	9/19/2017	5.05	cfs	
CC-03	9/27/2017	3.56	cfs	
CC-03	10/11/2017	3.41	cfs	
CC-03	10/27/2017	3.62	cfs	
CC-03	11/6/2017	4.93	cfs	
CC-03	11/20/2017	3.68	cfs	
CC-03	12/5/2017	4.56	cfs	
CC-03	12/21/2017	4.08	cfs	
CC-03	1/12/2018	5.32	cfs	

Appendix J - Historical Stream Flow Discharge at Surface Water Monitoring Sites in the Beaumont Groundwater Management Zone

Site name	Date	Flow	Units	Comments
CC-03	2/2/2018	4.25	cfs	
CC-03	2/15/2018	2.89	cfs	
CC-03	3/5/2018	3.02	cfs	
CC-03	3/29/2018	1.83	cfs	
CC-03	4/12/2018	5.53	cfs	
CC-03	4/26/2018	6.13	cfs	
CC-03	5/8/2018	4.68	cfs	
CC-03	5/25/2018	5.30	cfs	
CC-03	6/8/2018	5.20	cfs	
CC-03	6/27/2018	5.00	cfs	
CC-03	7/10/2018	4.91	cfs	
CC-03	7/17/2018	4.84	cfs	
CC-03	7/31/2018	3.80	cfs	
CC-03	8/17/2018	6.91	cfs	
CC-03	8/29/2018	3.34	cfs	
CC-03	9/14/2018	4.25	cfs	
CC-03	9/25/2018	3.62	cfs	
CC-03	10/12/2018	3.86	cfs	
CC-03	10/24/2018	4.66	cfs	
CC-03	11/12/2018	3.72	cfs	
CC-03	11/24/2018	4.20	cfs	
CC-03	11/30/2018	11.22	cfs	
CC-03	12/21/2018	4.55	cfs	
CC-03	1/3/2019	4.46	cfs	
CC-03	1/18/2019	6.91	cfs	
CC-03	2/7/2019	6.17	cfs	
CC-03	2/18/2019	10.20	cfs	
CC-03	3/4/2019	4.35	cfs	
CC-03	3/18/2019	4.51	cfs	
CC-03	4/4/2019	3.72	cfs	
CC-03	4/24/2019	4.45	cfs	
CC-03	5/7/2019	6.90	cfs	
CC-03	5/25/2019	5.02	cfs	
CC-03	6/6/2019	4.39	cfs	
CC-03	6/20/2019	3.85	cfs	

Appendix J - Historical Stream Flow Discharge at Surface Water Monitoring Sites in the Beaumont Groundwater Management Zone

Site name	Date	Flow	Units	Comments
CC-03	7/3/2019	5.03	cfs	
CC-03	7/16/2019	4.87	cfs	
CC-03	8/2/2019	4.56	cfs	
CC-03	8/15/2019	3.59	cfs	
CC-03	8/29/2019	4.64	cfs	
CC-03	9/15/2019	3.77	cfs	
CC-03	10/4/2019	3.78	cfs	
CC-03	10/14/2019	2.94	cfs	
CC-03	10/27/2019	2.94	cfs	
CC-03	11/8/2019	3.02	cfs	
CC-03	11/19/2019	4.66	cfs	
CC-03	11/29/2019	8.99	cfs	
CC-03	12/17/2019	4.32	cfs	
CC-03	12/30/2019	6.46	cfs	
CC-03	1/17/2020	6.27	cfs	
CC-03	2/5/2020	5.22	cfs	
CC-03	2/13/2020	5.24	cfs	
CC-03	3/2/2020	5.35	cfs	
CC-03	3/14/2020	6.91	cfs	
CC-03	4/4/2020	5.43	cfs	
CC-03	4/18/2020	5.30	cfs	
CC-03	4/28/2020	4.80	cfs	
CC-03	5/18/2020	5.97	cfs	
CC-03	6/7/2020	3.28	cfs	
CC-03	6/18/2020	5.39	cfs	
CC-03	6/27/2020	4.94	cfs	
CC-03	7/18/2020	2.53	cfs	
CC-03	7/28/2020	0.91	cfs	
CC-03	8/16/2020	2.62	cfs	
CC-03	8/29/2020	2.74	cfs	
CC-03	9/12/2020	7.20	cfs	
CC-03	9/22/2020	6.89	cfs	
CC-03	10/10/2020	7.56	cfs	
CC-03	11/3/2020	5.57	cfs	
CC-03	11/10/2020	4.20	cfs	
CC-03	11/25/2020	4.59	cfs	
CC-03	12/10/2020	5.83	cfs	
CC-03	12/23/2020	5.74	cfs	

Appendix J - Historical Stream Flow Discharge at Surface Water Monitoring Sites in the Beaumont Groundwater Management Zone

Station ID	Date	Flow	Unit	Comments
STC-01	12/12/2005	6.73	cfs	
STC-01	12/28/2005	6.33	cfs	
STC-01	1/10/2006	6.33	cfs	
STC-01	1/11/2006	5.76	cfs	
STC-01	1/25/2006	7.55	cfs	
STC-01	1/27/2006	6.73	cfs	
STC-01	2/6/2006	4.18	cfs	
STC-01	2/9/2006	4.91	cfs	
STC-01	2/23/2006	4.26	cfs	
STC-01	2/24/2006	6.33	cfs	
STC-01	3/8/2006	3.51	cfs	
STC-01	3/10/2006	5.34	cfs	
STC-01	3/22/2006	12.42	cfs	
STC-01	4/5/2006	51.30	cfs	
STC-01	5/2/2006	4.44	cfs	
STC-01	5/3/2006	5.00	cfs	
STC-01	5/15/2006	3.57	cfs	
STC-01	5/17/2006	1.83	cfs	
STC-01	5/30/2006	2.28	cfs	
STC-01	5/31/2006	1.57	cfs	
STC-01	6/13/2006	1.36	cfs	
STC-01	6/14/2006	1.30	cfs	
STC-01	6/27/2006	1.83	cfs	
STC-01	6/28/2006	0.81	cfs	
STC-01	7/13/2006	2.28	cfs	
STC-01	7/14/2006	1.57	cfs	
STC-01	7/21/2006	2.08	cfs	
STC-01	7/26/2006	0.04	cfs	
STC-01	8/4/2006	2.59	cfs	
STC-01	8/9/2006	0.83	cfs	
STC-01	8/11/2006	2.05	cfs	
STC-01	8/18/2006	1.95	cfs	
STC-01	8/23/2006	1.41	cfs	
STC-01	8/25/2006	1.46	cfs	
STC-01	9/1/2006	1.61	cfs	

Appendix J - Historical Stream Flow Discharge at Surface Water Monitoring Sites in the Beaumont Groundwater Management Zone

Station ID	Date	Flow	Unit	Comments
STC-01	9/6/2006	0.74	cfs	
STC-01	9/8/2006	1.86	cfs	
STC-01	9/20/2006	0.83	cfs	
STC-01	9/29/2006	1.84	cfs	
STC-01	10/5/2006	1.34	cfs	
STC-01	10/6/2006	1.95	cfs	
STC-01	10/13/2006	2.21	cfs	
STC-01	10/19/2006	2.42	cfs	
STC-01	10/20/2006	2.48	cfs	
STC-01	10/27/2006	2.61	cfs	
STC-01	11/1/2006	2.61	cfs	
STC-01	11/3/2006	2.94	cfs	
STC-01	11/10/2006	2.07	cfs	
STC-01	11/15/2006	2.03	cfs	
STC-01	11/17/2006	2.70	cfs	
STC-01	11/28/2006	3.05	cfs	
STC-01	11/29/2006	2.05	cfs	
STC-01	12/8/2006	5.34	cfs	
STC-01	12/13/2006	2.16	cfs	
STC-01	12/15/2006	3.49	cfs	
STC-01	12/22/2006	2.54	cfs	
STC-01	12/27/2006	3.19	cfs	
STC-01	12/29/2006	3.66	cfs	
STC-01	1/5/2007	6.49	cfs	
STC-01	1/10/2007	1.57	cfs	
STC-01	1/12/2007	3.09	cfs	
STC-01	1/24/2007	3.02	cfs	
STC-01	1/26/2007	2.77	cfs	
STC-01	2/2/2007	3.34	cfs	
STC-01	2/7/2007	2.74	cfs	
STC-01	2/12/2007	2.47	cfs	
STC-01	2/16/2007	3.40	cfs	
STC-01	2/21/2007	2.74	cfs	
STC-01	2/23/2007	5.16	cfs	
STC-01	3/2/2007	3.58	cfs	

Appendix J - Historical Stream Flow Discharge at Surface Water Monitoring Sites in the Beaumont Groundwater Management Zone

Station ID	Date	Flow	Unit	Comments
STC-01	3/7/2007	2.11	cfs	
STC-01	3/9/2007	2.97	cfs	
STC-01	3/16/2007	2.32	cfs	
STC-01	3/21/2007	5.30	cfs	
STC-01	3/23/2007	3.47	cfs	
STC-01	3/30/2007	2.99	cfs	
STC-01	4/4/2007	4.30	cfs	
STC-01	4/6/2007	2.56	cfs	
STC-01	4/13/2007	2.66	cfs	
STC-01	4/18/2007	2.82	cfs	
STC-01	4/20/2007	2.84	cfs	
STC-01	4/27/2007	3.28	cfs	
STC-01	5/2/2007	2.24	cfs	
STC-01	5/4/2007	2.50	cfs	
STC-01	5/11/2007	2.17	cfs	
STC-01	5/16/2007	2.06	cfs	
STC-01	5/17/2007	2.18	cfs	
STC-01	5/25/2007	2.34	cfs	
STC-01	5/30/2007	1.30	cfs	
STC-01	5/31/2007	2.61	cfs	
STC-01	6/13/2007	2.35	cfs	
STC-01	6/15/2007	1.74	cfs	
STC-01	6/22/2007	1.68	cfs	
STC-01	6/27/2007	0.68	cfs	
STC-01	6/29/2007	1.31	cfs	
STC-01	7/6/2007	1.60	cfs	
STC-01	7/11/2007	0.72	cfs	
STC-01	7/20/2007	0.97	cfs	
STC-01	7/25/2007	0.82	cfs	
STC-01	8/2/2007	1.44	cfs	
STC-01	8/8/2007	4.71	cfs	
STC-01	8/10/2007	1.54	cfs	
STC-01	8/22/2007	3.30	cfs	
STC-01	8/24/2007	1.30	cfs	
STC-01	8/31/2007	1.28	cfs	

Appendix J - Historical Stream Flow Discharge at Surface Water Monitoring Sites in the Beaumont Groundwater Management Zone

Station ID	Date	Flow	Unit	Comments
STC-01	9/5/2007	22.44	cfs	
STC-01	9/7/2007	1.54	cfs	
STC-01	9/14/2007	1.80	cfs	
STC-01	9/19/2007	10.84	cfs	
STC-01	9/21/2007	2.32	cfs	
STC-01	9/28/2007	2.34	cfs	
STC-01	10/3/2007	12.31	cfs	
STC-01	10/5/2007	2.00	cfs	
STC-01	10/12/2007	3.35	cfs	
STC-01	10/17/2007	3.28	cfs	
STC-01	10/19/2007	2.68	cfs	
STC-01	10/31/2007	5.66	cfs	
STC-01	11/2/2007	2.35	cfs	
STC-01	11/9/2007	2.70	cfs	
STC-01	11/14/2007	6.46	cfs	
STC-01	11/16/2007	3.14	cfs	
STC-01	11/28/2007	5.76	cfs	
STC-01	11/30/2007	3.28	cfs	
STC-01	12/6/2007	3.04	cfs	
STC-01	12/12/2007	21.42	cfs	
STC-01	12/14/2007	4.31	cfs	
STC-01	12/18/2007	3.61	cfs	
STC-01	12/20/2007	4.53	cfs	
STC-01	12/28/2007	4.95	cfs	
STC-01	1/2/2008	3.85	cfs	
STC-01	1/3/2008	3.20	cfs	
STC-01	1/11/2008	4.59	cfs	
STC-01	1/15/2008	4.76	cfs	
STC-01	1/18/2008	4.49	cfs	
STC-01	1/29/2008	9.40	cfs	
STC-01	2/1/2008	6.04	cfs	
STC-01	2/8/2008	4.14	cfs	
STC-01	2/12/2008	4.54	cfs	
STC-01	2/15/2008	5.14	cfs	
STC-01	2/26/2008	6.73	cfs	

Appendix J - Historical Stream Flow Discharge at Surface Water Monitoring Sites in the Beaumont Groundwater Management Zone

Station ID	Date	Flow	Unit	Comments
STC-01	2/29/2008	4.98	cfs	
STC-01	3/7/2008	5.03	cfs	
STC-01	3/11/2008	3.86	cfs	
STC-01	3/14/2008	3.94	cfs	
STC-01	3/21/2008	3.85	cfs	
STC-01	3/25/2008	2.61	cfs	
STC-01	4/4/2008	4.37	cfs	
STC-01	4/8/2008	3.30	cfs	
STC-01	4/11/2008	5.08	cfs	
STC-01	4/21/2008	3.68	cfs	
STC-01	4/22/2008	3.62	cfs	
STC-01	4/28/2008	4.27	cfs	
STC-01	5/2/2008	3.08	cfs	
STC-01	5/6/2008	2.29	cfs	
STC-01	5/9/2008	3.15	cfs	
STC-01	5/16/2008	2.75	cfs	
STC-01	5/20/2008	2.15	cfs	
STC-01	5/30/2008	4.15	cfs	
STC-01	6/2/2008	2.99	cfs	
STC-01	6/6/2008	2.94	cfs	
STC-01	6/13/2008	3.04	cfs	
STC-01	6/17/2008	0.00	cfs	
STC-01	6/20/2008	2.72	cfs	
STC-01	6/27/2008	2.08	cfs	
STC-01	6/30/2008	0.00	cfs	
STC-01	7/3/2008	2.86	cfs	
STC-01	7/11/2008	2.62	cfs	
STC-01	7/17/2008	2.37	cfs	
STC-01	7/18/2008	1.68	cfs	
STC-01	7/25/2008	2.09	cfs	
STC-01	7/29/2008	1.62	cfs	
STC-01	8/1/2008	2.26	cfs	
STC-01	8/8/2008	2.03	cfs	
STC-01	8/12/2008	1.54	cfs	
STC-01	8/25/2008	1.83	cfs	

Appendix J - Historical Stream Flow Discharge at Surface Water Monitoring Sites in the Beaumont Groundwater Management Zone

Station ID	Date	Flow	Unit	Comments
STC-01	8/26/2008	1.54	cfs	
STC-01	8/29/2008	2.31	cfs	
STC-01	9/8/2008	1.72	cfs	
STC-01	9/9/2008	4.77	cfs	
STC-01	9/18/2008	1.93	cfs	
STC-01	9/23/2008	2.20	cfs	
STC-01	9/26/2008	1.84	cfs	
STC-01	10/3/2008	1.82	cfs	
STC-01	10/9/2008	2.77	cfs	
STC-01	10/10/2008	1.82	cfs	
STC-01	10/17/2008	1.76	cfs	
STC-01	11/13/2008	2.25	cfs	
STC-01	12/18/2008	11.77	cfs	
STC-01	12/19/2008	7.20	cfs	
STC-01	12/24/2008	4.26	cfs	
STC-01	12/30/2008	3.47	cfs	
STC-01	12/31/2008	4.41	cfs	
STC-01	1/19/2009	3.66	cfs	
STC-01	1/29/2009	3.39	cfs	
STC-01	2/12/2009	3.87	cfs	
STC-01	2/26/2009	5.11	cfs	
STC-01	3/12/2009	3.70	cfs	
STC-01	3/26/2009	4.05	cfs	
STC-01	4/9/2009	3.44	cfs	
STC-01	4/23/2009	2.45	cfs	
STC-01	5/7/2009	2.59	cfs	
STC-01	5/21/2009	1.85	cfs	
STC-01	6/18/2009	2.60	cfs	
STC-01	7/2/2009	1.12	cfs	
STC-01	7/16/2009	1.42	cfs	
STC-01	7/30/2009	1.56	cfs	
STC-01	8/13/2009	1.16	cfs	
STC-01	8/27/2009	0.78	cfs	
STC-01	9/10/2009	0.71	cfs	
STC-01	9/24/2009	0.94	cfs	

Appendix J - Historical Stream Flow Discharge at Surface Water Monitoring Sites in the Beaumont Groundwater Management Zone

Station ID	Date	Flow	Unit	Comments
STC-01	10/8/2009	1.80	cfs	
STC-01	10/20/2009	1.77	cfs	
STC-01	11/5/2009	1.64	cfs	
STC-01	11/19/2009	2.87	cfs	
STC-01	12/3/2009	2.32	cfs	
STC-01	12/17/2009	2.39	cfs	
STC-01	12/30/2009	3.62	cfs	
STC-01	1/14/2010	2.61	cfs	
STC-01	1/28/2010	4.65	cfs	
STC-01	2/11/2010	5.14	cfs	
STC-01	2/25/2010	3.70	cfs	
STC-01	3/11/2010	3.37	cfs	
STC-01	3/25/2010	3.15	cfs	
STC-01	4/8/2010	1.58	cfs	
STC-01	4/22/2010	2.87	cfs	
STC-01	5/6/2010	1.95	cfs	
STC-01	5/20/2010	2.70	cfs	
STC-01	6/3/2010	0.82	cfs	
STC-01	6/17/2010	0.78	cfs	
STC-01	7/1/2010	0.23	cfs	
STC-01	7/15/2010	0.59	cfs	
STC-01	7/29/2010	0.46	cfs	
STC-01	8/12/2010	0.23	cfs	
STC-01	8/26/2010	0.43	cfs	
STC-01	9/9/2010	1.02	cfs	
STC-01	9/23/2010	1.20	cfs	
STC-01	10/7/2010	1.62	cfs	
STC-01	10/21/2010	1.40	cfs	
STC-01	11/4/2010	1.31	cfs	
STC-01	11/18/2010	1.17	cfs	
STC-01	12/2/2010	2.06	cfs	
STC-01	12/16/2010	3.62	cfs	
STC-01	1/6/2011	3.73	cfs	
STC-01	1/19/2011	2.49	cfs	
STC-01	2/3/2011	3.46	cfs	

Appendix J - Historical Stream Flow Discharge at Surface Water Monitoring Sites in the Beaumont Groundwater Management Zone

Station ID	Date	Flow	Unit	Comments
STC-01	2/17/2011	3.46	cfs	
STC-01	3/3/2011	3.90	cfs	
STC-01	3/18/2011	3.25	cfs	
STC-01	3/31/2011	3.02	cfs	
STC-01	4/14/2011	2.79	cfs	
STC-01	4/28/2011	2.70	cfs	
STC-01	5/12/2011	2.30	cfs	
STC-01	5/26/2011	2.72	cfs	
STC-01	7/7/2011	1.00	cfs	
STC-01	10/11/2011	1.55	cfs	
STC-01	10/27/2011	1.23	cfs	
STC-01	11/17/2011	2.01	cfs	
STC-01	11/29/2011	1.52	cfs	
STC-01	12/8/2011	2.19	cfs	
STC-01	12/21/2011	3.67	cfs	
STC-01	1/11/2012	3.26	cfs	
STC-01	1/26/2012	2.84	cfs	
STC-01	2/8/2012	1.85	cfs	
STC-01	2/27/2012	2.83	cfs	
STC-01	3/9/2012	2.00	cfs	
STC-01	3/26/2012	4.17	cfs	
STC-01	4/12/2012	3.07	cfs	
STC-01	4/27/2012	1.58	cfs	
STC-01	5/18/2012	1.30	cfs	
STC-01	5/30/2012	0.92	cfs	
STC-01	6/12/2012	0.29	cfs	
STC-01	6/28/2012	0.38	cfs	
STC-01	7/9/2012	0.77	cfs	
STC-01	7/24/2012	0.51	cfs	
STC-01	8/3/2012	0.28	cfs	
STC-01	8/16/2012	0.24	cfs	
STC-01	9/7/2012	1.18	cfs	
STC-01	9/25/2012	1.11	cfs	
STC-01	10/10/2012	1.23	cfs	
STC-01	10/26/2012	0.80	cfs	

Appendix J - Historical Stream Flow Discharge at Surface Water Monitoring Sites in the Beaumont Groundwater Management Zone

Station ID	Date	Flow	Unit	Comments
STC-01	11/7/2012	0.46	cfs	
STC-01	11/15/2012	1.45	cfs	
STC-01	12/6/2012	1.66	cfs	
STC-01	12/14/2012	2.65	cfs	
STC-01	1/3/2013	2.07	cfs	
STC-01	1/14/2013	3.63	cfs	
STC-01	2/1/2013	2.72	cfs	
STC-01	2/21/2013	2.10	cfs	
STC-01	3/5/2013	3.04	cfs	
STC-01	3/20/2013	2.62	cfs	
STC-01	4/4/2013	1.66	cfs	
STC-01	4/18/2013	1.81	cfs	
STC-01	5/7/2013	1.64	cfs	
STC-01	5/21/2013	0.99	cfs	
STC-01	6/7/2013	2.22	cfs	
STC-01	6/27/2013	1.45	cfs	
STC-01	7/10/2013	0.62	cfs	
STC-01	7/26/2013	0.91	cfs	
STC-01	8/9/2013	0.58	cfs	
STC-01	8/28/2013	0.47	cfs	
STC-01	9/13/2013	0.21	cfs	
STC-01	9/26/2013	1.58	cfs	
STC-01	10/8/2013	0.58	cfs	
STC-01	10/23/2013	1.65	cfs	
STC-01	11/8/2013	0.73	cfs	
STC-01	11/20/2013	2.27	cfs	
STC-01	12/9/2013	2.37	cfs	
STC-01	12/24/2013	2.61	cfs	
STC-01	1/10/2014	2.21	cfs	
STC-01	2/10/2014	1.59	cfs	
STC-01	2/26/2014	1.72	cfs	
STC-01	3/6/2014	2.47	cfs	
STC-01	3/20/2014	3.87	cfs	
STC-01	4/4/2014	3.15	cfs	
STC-01	4/17/2014	2.49	cfs	

Appendix J - Historical Stream Flow Discharge at Surface Water Monitoring Sites in the Beaumont Groundwater Management Zone

Station ID	Date	Flow	Unit	Comments
STC-01	5/1/2014	1.63	cfs	
STC-01	5/19/2014	2.10	cfs	
STC-01	6/1/2014	3.13	cfs	
STC-01	6/20/2014	1.30	cfs	
STC-01	7/1/2014	1.45	cfs	
STC-01	7/17/2014	1.16	cfs	
STC-01	8/1/2014	1.15	cfs	
STC-01	8/11/2014	0.79	cfs	
STC-01	9/8/2014	1.22	cfs	
STC-01	9/24/2014	0.48	cfs	
STC-01	10/8/2014	2.13	cfs	
STC-01	10/17/2014	2.19	cfs	
STC-01	11/6/2014	1.27	cfs	
STC-01	11/20/2014	1.66	cfs	
STC-01	12/5/2014	6.40	cfs	
STC-01	12/22/2014	3.02	cfs	
STC-01	8/23/2016	2.62	cfs	
STC-01	9/6/2016	1.96	cfs	
STC-01	9/20/2016	2.55	cfs	
STC-01	10/4/2016	2.53	cfs	
STC-01	10/18/2016	3.35	cfs	
STC-01	11/1/2016	3.46	cfs	
STC-01	11/15/2016	3.44	cfs	
STC-01	11/30/2016	5.09	cfs	
STC-01	12/20/2016	3.82	cfs	
STC-01	1/10/2017	4.66	cfs	
STC-01	1/24/2017	12.39	cfs	
STC-01	2/8/2017	8.80	cfs	
STC-01	2/21/2017	5.42	cfs	
STC-01	3/9/2017	7.07	cfs	
STC-01	3/24/2017	5.96	cfs	
STC-01	4/4/2017	5.01	cfs	
STC-01	4/18/2017	4.14	cfs	
STC-01	5/2/2017	3.34	cfs	
STC-01	5/16/2017	4.17	cfs	

Appendix J - Historical Stream Flow Discharge at Surface Water Monitoring Sites in the Beaumont Groundwater Management Zone

Station ID	Date	Flow	Unit	Comments
STC-01	5/30/2017	3.54	cfs	
STC-01	6/13/2017	4.21	cfs	
STC-01	6/27/2017	2.44	cfs	
STC-01	7/13/2017	1.17	cfs	
STC-01	8/1/2017	1.40	cfs	
STC-01	8/22/2017	1.53	cfs	
STC-01	9/12/2017	1.75	cfs	
STC-01	9/19/2017	3.16	cfs	
STC-01	9/27/2017	3.50	cfs	
STC-01	10/11/2017	1.78	cfs	
STC-01	10/27/2017	1.69	cfs	
STC-01	11/6/2017	2.96	cfs	
STC-01	11/20/2017	5.00	cfs	
STC-01	12/5/2017	2.88	cfs	
STC-01	12/21/2017	4.23	cfs	
STC-01	1/12/2018	6.02	cfs	
STC-01	2/2/2018	4.49	cfs	
STC-01	2/15/2018	3.28	cfs	
STC-01	3/5/2018	3.79	cfs	
STC-01	3/29/2018	2.92	cfs	
STC-01	4/12/2018	3.75	cfs	
STC-01	4/26/2018	2.59	cfs	
STC-01	5/8/2018	2.88	cfs	
STC-01	5/25/2018	3.59	cfs	
STC-01	6/8/2018	2.55	cfs	
STC-01	6/27/2018	2.69	cfs	
STC-01	7/10/2018	3.45	cfs	
STC-01	7/17/2018	2.90	cfs	
STC-01	7/31/2018	2.10	cfs	
STC-01	8/17/2018	3.00	cfs	
STC-01	8/29/2018	2.03	cfs	
STC-01	9/14/2018	1.92	cfs	
STC-01	9/25/2018	2.72	cfs	
STC-01	10/12/2018	2.07	cfs	
STC-01	10/24/2018	2.16	cfs	
STC-01	11/12/2018	2.63	cfs	
STC-01	11/24/2018	3.07	cfs	
STC-01	11/30/2018	9.60	cfs	
STC-01	12/21/2018	4.47	cfs	

Appendix J - Historical Stream Flow Discharge at Surface Water Monitoring Sites in the Beaumont Groundwater Management Zone

Station ID	Date	Flow	Unit	Comments
STC-01	1/3/2019	4.40	cfs	
STC-01	1/18/2019	12.03	cfs	
STC-01	2/7/2019	7.60	cfs	
STC-01	2/18/2019	8.95	cfs	
STC-01	3/4/2019	6.13	cfs	
STC-01	3/18/2019	4.89	cfs	
STC-01	4/4/2019	5.92	cfs	
STC-01	4/24/2019	6.10	cfs	
STC-01	5/7/2019	4.66	cfs	
STC-01	5/25/2019	6.24	cfs	
STC-01	6/6/2019	4.63	cfs	
STC-01	6/20/2019	3.76	cfs	
STC-01	7/3/2019	2.78	cfs	
STC-01	7/16/2019	1.66	cfs	
STC-01	8/2/2019	1.89	cfs	
STC-01	8/15/2019	2.65	cfs	
STC-01	8/29/2019	3.31	cfs	
STC-01	9/15/2019	3.19	cfs	
STC-01	10/4/2019	2.78	cfs	
STC-01	10/14/2019	2.90	cfs	
STC-01	10/27/2019	2.89	cfs	
STC-01	11/8/2019	2.53	cfs	
STC-01	11/19/2019	2.78	cfs	
STC-01	11/29/2019	14.57	cfs	
STC-01	12/17/2019	4.52	cfs	
STC-01	12/30/2019	5.75	cfs	
STC-01	1/17/2020	6.44	cfs	
STC-01	2/5/2020	4.10	cfs	
STC-01	2/13/2020	4.85	cfs	
STC-01	3/2/2020	6.00	cfs	
STC-01	3/14/2020	16.08	cfs	
STC-01	4/4/2020	6.23	cfs	
STC-01	4/18/2020	8.73	cfs	
STC-01	4/28/2020	5.04	cfs	
STC-01	5/18/2020	4.17	cfs	
STC-01	6/7/2020	4.28	cfs	
STC-01	6/18/2020	3.58	cfs	
STC-01	6/27/2020	2.51	cfs	
STC-01	7/18/2020	3.78	cfs	
STC-01	7/28/2020	1.33	cfs	
STC-01	8/16/2020	3.80	cfs	
STC-01	8/29/2020	2.38	cfs	
STC-01	9/12/2020	2.34	cfs	

Appendix J - Historical Stream Flow Discharge at Surface Water Monitoring Sites in the Beaumont Groundwater Management Zone

Station ID	Date	Flow	Unit	Comments
STC-01	9/22/2020	3.47	cfs	
STC-01	10/10/2020	5.04	cfs	
STC-01	11/3/2020	1.65	cfs	
STC-01	11/10/2020	3.01	cfs	
STC-01	11/25/2020	4.69	cfs	
STC-01	12/10/2020	2.62	cfs	
STC-01	12/23/2020	2.30	cfs	

APPENDIX K

Field Forms and Field Parameters for Surface Water Monitoring in the Beaumont Groundwater Management Zone in 2020

Site: CC-01

Date: 1/17/20

Weather Flow Visuals

Conditions:

Total width of creek 7.0

Sum of segment's widths 7.0

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft^3/s (w x d x v)	Total Flow Through Creek in ft^3/s
	.1	0.7	1.077	0.7539	
	1	0.6	1.191	0.7146	
	1	0.7	1.376	0.9632	
	1	0.7	1.261	0.8827	
	1	0.8	1.321	1.0568	
	1	0.6	0.848	0.5088	
	1	0.9	1.396	1.2564	
	~~1~~	~~KM~~	~~1.399~~	~~1.9256~~	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
16:30	17.9	7.92	834	5.24	Y

Conditions Key:

Flow Description : 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces
3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F

Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F

Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Site: CC-03 Weather Flow Visuals

Date: 11/7/20 Conditions:

Total width of creek 4 Sum of segment's widths 4

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft^3/s (w x d x v)	Total Flow Through Creek in ft^3/s
	1	0.9	1.396	1.2564	
	1	1.1	1.799	1.9789	
	1	1.1	2.218	2.4398	
	1	0.5	1.184	0.592	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
16:00	16.1	8.26	755	7.99	Y

Conditions Key:

Flow Description : 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces
3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Site: STC-01

Date: 1/17/20

Weather Flow Visuals

Conditions:

Total width of creek 4.4

Sum of segment's widths 4.4

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft^3/s (w x d x v)	Total Flow Through Creek in ft^3/s
	1.1	0.6	3.489	2.302	
	1.1	0.6	3.537	2.334	
	1.1	0.4	3.077	1.352	
	1.1	0.2	2.028	0.446	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
15:00	13	8.01	625	8.61	Y

Conditions Key:

Flow Description : 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces
3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Site: STC-02

Date: 1/17/20

Weather Flow Visuals

Conditions: _____

Total width of creek _____

Sum of segment's widths _____

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft^3/s (w x d x v)	Total Flow Through Creek in ft^3/s

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
15:30	9.0	7.88	633	8.33	Y

Conditions Key:

Flow Description : 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces
3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Clinical Lab of San Bernardino, Inc. Chain of Custody

WO _____

21881 Barton Road Grand Terrace CA 92313 909 825-7693 / 516-A N 8th St. Lompoc CA 93436 805 737-7300

Client	City of Beaumont
Address:	550 E. 6th St.
	Beaumont, CA. 92223
Client Contact:	Amer Jaker
Phone No.:	951-769-8520 FAX No.: 951-769-8526
System No.:	
Project:	Max Benefits - Beaumont GMZ
Sampled By:	C. Hunter
Comments:	

Email results to: **Ajakher@ci.beaumont.ca.us, ckhunter@dudek.com, sstuart@dudek.com**

Destination Laboratory

[X] Clinical Grand Terrace / ELAP 1088

[ ] Clinical Lompoc / ELAP 1678

[ ] Other:

Date	Time	Sample Identification	Container ID	Matrix	Sample Type	No. of Preserved Cont. Unpreserved	Na2S2O3	NH4Cl	C6H8O6	HNO3	HCl	NaOH	Na2SO3	ZnC4H6O4	ChlorAC	Total Containers	Total Dissolved Solids (SM 2540C)	Nitrate-N (EPA 300.0)	Nitrite-N (EPA 300.0)	Ammonia-N (EPA 350.1)	Alkalinity (inc. HCO3, CO3, and OH	Ca, Mg, K, Na (EPA 200.7)	Sulfate (EPA 300.0)	Specific Conductance (SM 2510B)	pH (SM 4500H+B)	Chloride (EPA 300.0)	Fluoride (EPA 300.0)	Comments	Turn Around Time (TAT)
1/17/20	16:30	CC-01	1	SW		X										2	X	X	X	X	X	X	X	X	X	X	X		10
	16:00	CC-03	3	SW		X										2	X	X	X	X	X	X	X	X	X	X	X		10
	15:00	STC-01	ST1	SW		X										2	X	X	X	X	X	X	X	X	X	X	X		10
	15:30	STC-02	ST2	SW		X										2	X	X	X	X	X	X	X	X	X	X	X		10

Matrix: DW - Drinking Water GW - Ground Water SW - Surface Water W - Water WW - Wastewater SWR - Stormwater Runoff S - Sludge O - Other _____

Use for Bacteria Samples / Sample Type: 1-Routine 2-Repeat 3-Replacement 4-Special D-Distribution W-Well

TAT: (10) Ten Day (5) Five Day Rush (2) Two Day Rush

Relinquished By (Sign)	Print Name / Company	Date / Time	Received By (Sign)	Print Name / Company
	C. Hunter / Dudek	1/17/20 17:00		

(Lab Use Only) Lompoc Lab Receipt Temp.: _____°C

Shipped Via: [ ] Fed Ex [ ] Golden State Overnight [ ] UPS [ ] OnTrac [ ] USPS [ ] Other _____

Condition: [ ] On Wet Ice [ ] On Blu Ice [ ] Intact [ ] Custody Seals Samples / COC Checked By: _____ Work Order Logged By: _____

Receipt Comments: Clinical Lab Receipt Temp.: _____°C

DUDEK

FIELD CALIBRATION RECORD

Project Name: City of Beaumont

Project Number: 11110.2020

Field Crew: C. Hunter

Signature:

Date of Field Calibration: 1/17/20

Field Location: Beaumont area, CA

Weather Conditions:

Parameter Sensor:

Instr. Type: YSI

Model: 556

Temp (using thermometer): Temp (using meter):

Parameters / Field Measurements								General Description of Standards
		pH	Percent Error	Dissolved Oxygen - Atmospheric Pressure (mmHg)	Percent Error	Specific Conductance (µS/cm)	Percent Error	calibration solution, supplier, exp. Date
Standard Solution Values	1	4.0		718.2		1307		
	2	7.0						
	3	10.0						
Pre-calibration Readings for Each Standard	1	4.13		718.4		1285		
	2	7.06						
	3	10.04						
Post-calibration Readings for Each Standard	1	4.02		718.4		1305		
	2	7.00						
	3	10.01						

Site: CC-01

Weather Flow Visuals

Date: 2/5/20

Conditions:

Total width of creek 6.6

Sum of segment's widths 6.6

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft^3/s (w x d x v)	Total Flow Through Creek in ft^3/s
	1.1	0.6	1.015	0.669	
	1.1	0.7	1.343	1.037	
	1.1	0.6	1.376	0.908	
	1.1	0.6	1.498	0.988	
	1.1	0.6	1.280	0.844	
	1.1	0.5	0.737	0.405	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
15:15	16.9	8.19	801	7.31	Y

Conditions Key:

Flow Description : 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces
3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Comments:

Site: CC-03

Date: 2/5/20

Weather Flow Visuals

Conditions:

Total width of creek 4.0

Sum of segment's widths 4.0

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft^3/s (w x d x v)	Total Flow Through Creek in ft^3/s
	1	0.9	1.450	1.305	
	1	0.8	1.664	1.331	
	1	1.0	2.144	2.144	
	1	0.7	1.088	0.435	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
14:15	15.7	8.40	815	8.29	Y

Conditions Key:

Flow Description: 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces
3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Comments:

Site: STC-01 Weather Flow Visuals

Date: 2/5/20 Conditions:

Total width of creek 4 Sum of segment's widths 4

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft^3/s (w x d x v)	Total Flow Through Creek in ft^3/s
	1	0.6	2.802	1.681	
	1	0.4	2.672	1.068	
	1	0.3	2.564	0.769	
	1	0.3	1.924	0.577	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
13:30	11.5	8.08	882	9.53	Y

Conditions Key:

Flow Description: 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces
3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Clinical Lab of San Bernardino, Inc. Chain of Custody

WO _____

21881 Barton Road Grand Terrace CA 92313 909 825-7693 / 516-A N 8th St. Lompoc CA 93436 805 737-7300

Client	City of Beaumont
Address:	550 E. 6th St.
	Beaumont, CA. 92223
Client Contact:	Amer Jaker
Phone No.:	951-769-8520 FAX No.: 951-769-8526
System No.:	
Project:	Max Benefits - Beaumont GMZ
Sampled By:	C Hunter
Comments:	
Email results to: Ajakher@ci.beaumont.ca.us, ckhunter@dudek.com, sstuart@dudek.com	

Destination Laboratory

[X] Clinical Grand Terrace / ELAP 1088
[ ] Clinical Lompoc / ELAP 1678
[ ] Other:

Date	Time	Sample Identification	Container ID	Matrix	Sample Type	No. of Preserved Cont.										Total Containers	Analysis Requested											Comments	Turn Around Time (TAT)
						Unpreserved	Na2S2O3	NH4Cl	C6H8O6	HNO3	HCl	NaOH	Na2SO3	ZnC4H6O4	ChlorAC		Total Dissolved Solids (SM 2540C)	Nitrate-N (EPA 300.0)	Nitrite-N (EPA 300.0)	Ammonia-N (EPA 350.1)	Alkalinity (inc. HCO3, CO3, and OH	Ca, Mg, K, Na (EPA 200.7)	Sulfate (EPA 300.0)	Specific Conductance (SM 2510B)	pH (SM 4500H+B)	Chloride (EPA 300.0)	Fluoride (EPA 300.0)		
2/5/20	15:15	CC-01	1	SW		X										2	X	X	X	X	X	X	X	X	X	X	X		10
1	14:45	CC-03	3	SW		X										2	X	X	X	X	X	X	X	X	X	X	X		10
1	13:30	STC-01	STC	SW		X										2	X	X	X	X	X	X	X	X	X	X	X		10

Matrix: DW - Drinking Water GW - Ground Water SW - Surface Water W - Water WW - Wastewater SWR - Stormwater Runoff S - Sludge O - Other _____

Use for Bacteria Samples / Sample Type: 1-Routine 2-Repeat 3-Replacement 4-Special D-Distribution W-Well

TAT: (10) Ten Day (5) Five Day Rush (2) Two Day Rush

Relinquished By (Sign)	Print Name / Company	Date / Time	Received By (Sign)	Print Name / Company
C Hunter	C. Hunter / Dudek	2/5/20 15:40		

(Lab Use Only) Lompoc Lab Receipt Temp.: _____°C

Shipped Via: [ ] Fed Ex [ ] Golden State Overnight [ ] UPS [ ] OnTrac [ ] USPS [ ] Other _____

Condition: [ ] On Wet Ice [ ] On Blu Ice [ ] Intact [ ] Custody Seals Samples / COC Checked By: _____ Work Order Logged By: _____

Receipt Comments: Clinical Lab Receipt Temp.: _____°C

DUDEK

FIELD CALIBRATION RECORD

Project Name: City of Beaumont

Project Number: 11110.2020

Field Crew: C. Hunter

Signature:

Date of Field Calibration: 2/5/20

Field Location: Beaumont area, CA

Weather Conditions:

Parameter Sensor:

Instr. Type: YSI

Model: 556

Temp (using thermometer): 22.4 Temp (using meter): 23.3

Parameters / Field Measurements								General Description of Standards
		pH	Percent Error	Dissolved Oxygen - Atmospheric Pressure (mmHg)	Percent Error	Specific Conductance (µS/cm)	Percent Error	calibration solution, supplier, exp. Date
Standard Solution Values	1	4.0		713.8		1314		
	2	7.0						
	3	10.0						
Pre-calibration Readings for Each Standard	1	4.02		713.2		1387		
	2	6.94						
	3	10.01						
Post-calibration Readings for Each Standard	1	4.00		713.9		1312		
	2	6.98						
	3	10.00						

Site: CC-01 Weather Flow Visuals

Date: 2/13/20 Conditions:

Total width of creek 6.6 Sum of segment's widths 6.6

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft^3/s (w x d x v)	Total Flow Through Creek in ft^3/s
	1.1	0.5	1.136	0.624	
	1.1	0.5	1.424	0.783	
	1.1	0.5	1.585	0.871	
	1.1	0.6	1.424	0.939	
	1.1	0.6	1.520	1.003	
	1.1	0.5	1.082	0.595	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
14:30	18.2	8.13	820	5.99	Y

Conditions Key:

Flow Description: 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow
Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces
3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Site: CC-03 Weather Flow Visuals

Date: 2/13/20 Conditions:

Total width of creek 4 Sum of segment's widths 4

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft^3/s (w x d x v)	Total Flow Through Creek in ft^3/s
	1	0.6	1.640	1.317	
	1	0.7	2.048	1.433	
	1	0.9	2.336	2.102	
	1	0.7	0.982	0.392	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
14:00	17.3	8.38	801	7.51	Y

Conditions Key:

Flow Description : 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces
3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Site: STC-01 Weather Flow Visuals

Date: 2/13/20 Conditions:

Total width of creek 4 Sum of segment's widths 4

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft^3/s (w x d x v)	Total Flow Through Creek in ft^3/s
	1	0.6	2.528	1.516	
	1	0.6	2.864	1.718	
	1	0.7	2.816	1.126	
	1	0.7	2.732	0.486	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
13:15	14.7	8.16	767	8.61	Y

Conditions Key:

Flow Description : 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow
Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces
3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Clinical Lab of San Bernardino, Inc. Chain of Custody

WO _____

21881 Barton Road Grand Terrace CA 92313 909 825-7693 / 516-A N 8th St. Lompoc CA 93436 805 737-7300

Client	City of Beaumont
Address:	550 E. 6th St.
	Beaumont, CA. 92223
Client Contact:	Amer Jaker
Phone No.:	951-769-8520 FAX No.: 951-769-8526
System No.:	
Project:	Max Benefits - Beaumont GMZ
Sampled By:	C. Hunter
Comments:	

Email results to: Ajakher@ci.beaumont.ca.us, ckhunter@dudek.com, sstuart@dudek.com

Destination Laboratory

[X] Clinical Grand Terrace / ELAP 1088

[ ] Clinical Lompoc / ELAP 1678

[ ] Other:

Date	Time	Sample Identification	Container ID	Matrix	Sample Type	No. of Preserved Cont.										Total Containers	Total Dissolved Solids (SM 2540C)	Nitrate-N (EPA 300.0)	Nitrite-N (EPA 300.0)	Ammonia-N (EPA 350.1)	Alkalinity (inc. HCO3, CO3, and OH	Ca, Mg, K, Na (EPA 200.7)	Sulfate (EPA 300.0)	Specific Conductance (SM 2510B)	pH (SM 4500H+B)	Chloride (EPA 300.0)	Fluoride (EPA 300.0)	Comments	Turn Around Time (TAT)
						Unpreserved	Na2S2O3	NH4Cl	C6H8O6	HNO3	HCl	NaOH	Na2SO3	ZnC4H6O4	ChlorAC														
2/13/20	1430	CC-01	1	SW		X										2	X	X	X	X	X	X	X	X	X	X	X		10
1	1400	CC-03	3	SW		X										2	X	X	X	X	X	X	X	X	X	X	X		10
1	1300	STC-01	STC	SW		X										2	X	X	X	X	X	X	X	X	X	X	X		10

Matrix: DW - Drinking Water GW - Ground Water SW - Surface Water W - Water WW - Wastewater SWR - Stormwater Runoff S - Sludge O - Other _____

Use for Bacteria Samples / Sample Type: 1-Routine 2-Repeat 3-Replacement 4-Special D-Distribution W-Well

TAT: (10) Ten Day (5) Five Day Rush (2) Two Day Rush

Relinquished By (Sign)	Print Name / Company	Date / Time	Received By (Sign)	Print Name / Company
	C. Hunter / Dudek			

(Lab Use Only) Lompoc Lab Receipt Temp.: _____°C

Shipped Via: [ ] Fed Ex [ ] Golden State Overnight [ ] UPS [ ] OnTrac [ ] USPS [ ] Other _____

Condition: [ ] On Wet Ice [ ] On Blu Ice [ ] Intact [ ] Custody Seals Samples / COC Checked By: _____ Work Order Logged By: _____

Receipt Comments: Clinical Lab Receipt Temp.: _____°C

DUDEK

FIELD CALIBRATION RECORD

Project Name: City of Beaumont

Project Number: 11110.2020

Field Crew: C. Hunter

Signature: C. Hunter

Date of Field Calibration: 2/13/20

Field Location: Beaumont area, CA

Weather Conditions:

Parameter Sensor:

Instr. Type: YSI

Model: 556

Temp (using thermometer): 22.5 Temp (using meter): 23.6

Parameters / Field Measurements								General Description of Standards
		pH	Percent Error	Dissolved Oxygen - Atmospheric Pressure (mmHg)	Percent Error	Specific Conductance (µS/cm)	Percent Error	calibration solution, supplier, exp. Date
Standard Solution Values	1	4.0		711.2		1272		
	2	7.0						
	3	10.0						
Pre-calibration Readings for Each Standard	1	3.79		712.4		1276		
	2	6.96						
	3	10.10						
Post-calibration Readings for Each Standard	1	4.04		711.4		1295		
	2	6.99						
	3	9.99						

Site: CC-01

Date: 3/2/20

Weather Flow Visuals

Conditions:

Total width of creek 6.6

Sum of segment's widths 6.6

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft^3/s (w x d x v)	Total Flow Through Creek in ft^3/s
	1.1	0.5	1.505	0.827	
	1.1	0.5	1.856	1.020	
	1.1	0.5	1.799	0.989	
	1.1	0.6	1.695	1.118	
	1.1	0.6	1.695	1.118	
	1.1	0.5	1.088	0.598	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
12:45	18.9	8.14	818	6.85	Y

Conditions Key:

Flow Description : 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces
3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F

Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F

Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Site: CC-03

Date: 3/2/20

Weather Flow Visuals

Conditions:

Total width of creek 4

Sum of segment's widths 4

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft^3/s (w x d x v)	Total Flow Through Creek in ft^3/s
	1	0.8	1.640	1.312	
	1	0.7	2.076	1.453	
	1	0.9	2.336	2.102	
	1	0.4	0.982	0.392	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
12:15	18.7	8.36	796	6.85	Y

Conditions Key:

Flow Description : 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces
3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Site: STC-01

Date: 3/2/20

Weather Flow Visuals

Conditions:

Total width of creek 6

Sum of segment's widths 6

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft^3/s (w x d x v)	Total Flow Through Creek in ft^3/s
	1	0.2	0.634	0.126	
	1	0.6	2.760	1.656	
	1	0.5	3.393	1.696	
	1	0.4	2.994	1.197	
	1	0.3	3.104	0.931	
	1	0.2	1.942	0.388	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
11:15	14.1	8.16	841	7.67	Y

Conditions Key:

Flow Description : 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces
3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Site: STC-02

Date: 3/2/20

Weather Flow Visuals

Conditions: _____

Total width of creek _____

Sum of segment's widths _____

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft^3/s (w x d x v)	Total Flow Through Creek in ft^3/s

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
11:15	10.1	7.98	567	9.39	Y

Conditions Key:

Flow Description : 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces
3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Clinical Lab of San Bernardino, Inc. Chain of Custody

WO _____

21881 Barton Road Grand Terrace CA 92313 909 825-7693 / 516-A N 8th St. Lompoc CA 93436 805 737-7300

Client	City of Beaumont
Address:	550 E. 6th St.
	Beaumont, CA. 92223
Client Contact:	Amer Jaker
Phone No.:	951-769-8520 FAX No.: 951-769-8526
System No.:	
Project:	Max Benefits - Beaumont GMZ
Sampled By:	C Hunter
Comments:	
Email results to: Ajakher@ci.beaumont.ca.us, ckhunter@dudek.com, sstuart@dudek.com	

Destination Laboratory

[X] Clinical Grand Terrace / ELAP 1088

[ ] Clinical Lompoc / ELAP 1678

[ ] Other:

Date	Time	Sample Identification	Container ID	Matrix	Sample Type	No. of Preserved Cont. Unpreserved	Na2S2O3	NH4Cl	C6H8O6	HNO3	HCl	NaOH	Na2SO3	ZnC4H6O4	ChlorAC	Total Containers	Total Dissolved Solids (SM 2540C)	Nitrate-N (EPA 300.0)	Nitrite-N (EPA 300.0)	Ammonia-N (EPA 350.1)	Alkalinity (inc. HCO3, CO3, and OH	Ca, Mg, K, Na (EPA 200.7)	Sulfate (EPA 300.0)	Specific Conductance (SM 2510B)	pH (SM 4500H+B)	Chloride (EPA 300.0)	Fluoride (EPA 300.0)	Comments	Turn Around Time (TAT)
3/2/20	12:45	CC-01	1	SW		X										2	X	X	X	X	X	X	X	X	X	X	X		10
	12:15	CC-03	3	SW		X										2	X	X	X	X	X	X	X	X	X	X	X		10
	11:45	STC-01	STC	SW		X										2	X	X	X	X	X	X	X	X	X	X	X		10
	11:15	STC-02	52	SW		X										2	X	X	X	X	X	X	X	X	X	X	X		10

Matrix: DW - Drinking Water GW - Ground Water SW - Surface Water W - Water WW - Wastewater SWR - Stormwater Runoff S - Sludge O - Other _____

Use for Bacteria Samples / Sample Type: 1-Routine 2-Repeat 3-Replacement 4-Special D-Distribution W-Well

TAT: (10) Ten Day (5) Five Day Rush (2) Two Day Rush

Relinquished By (Sign)	Print Name / Company	Date / Time	Received By (Sign)	Print Name / Company
C Hunter	C. Hunter / Dudek	3/2/20		

(Lab Use Only) Lompoc Lab Receipt Temp.: _____°C

Shipped Via: [ ] Fed Ex [ ] Golden State Overnight [ ] UPS [ ] OnTrac [ ] USPS [ ] Other _____

Condition: [ ] On Wet Ice [ ] On Blu Ice [ ] Intact [ ] Custody Seals Samples / COC Checked By: _____ Work Order Logged By: _____

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DUDEK

FIELD CALIBRATION RECORD

Project Name: City of Beaumont

Project Number: 11110.2020

Field Crew: C. Hunter

Signature:

Date of Field Calibration: 3/2/20

Field Location: Beaumont area, CA

Weather Conditions:

Parameter Sensor:

Instr. Type: YSI

Model: 556

Temp (using thermometer): 22.7 Temp (using meter): 23.4

Parameters / Field Measurements								General Description of Standards
		pH	Percent Error	Dissolved Oxygen - Atmospheric Pressure (mmHg)	Percent Error	Specific Conductance (µS/cm)	Percent Error	calibration solution, supplier, exp. Date
Standard Solution Values	1	4.0		710.3		1286		
	2	7.0						
	3	10.0						
Pre-calibration Readings for Each Standard	1	4.19		712.8		1314		
	2	6.93						
	3	9.82						
Post-calibration Readings for Each Standard	1	4.02		712.3		1288		
	2	7.00						
	3	10.01						

Site: CC-01 Weather Flow Visuals

Date: 3/14/20 Conditions:

Total width of creek 6.6 Sum of segment's widths 6.6

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft^3/s (w x d x v)	Total Flow Through Creek in ft^3/s
	1.1	0.7	1.197	0.921	
	1.1	0.7	1.261	0.971	
	1.1	0.6	1.616	1.066	
	1.1	0.6	1.443	0.952	
	1.1	0.5	1.082	0.595	
	1.1	0.6	0.652	0.430	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
14:45	18.6	8.16	754	7.22	Y

Conditions Key:

Flow Description : 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces
3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Comments:

Site: CC-03 Weather Flow Visuals

Date: 3/14/20 Conditions:

Total width of creek 3 Sum of segment's widths 3

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft^3/s (w x d x v)	Total Flow Through Creek in ft^3/s
	1	0.6	2.408	1.444	
	1	1.0	3.056	3.056	
	1	0.9	2.672	2.404	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
14:15	16.7	8.27	607	7.98	Y

Conditions Key:

Flow Description : 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces
3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Site: STC-01

Date: 3/14/20

Weather Flow Visuals

Conditions:

Total width of creek 6

Sum of segment's widths 6

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft^3/s (w x d x v)	Total Flow Through Creek in ft^3/s
	1	0.4	0.703	0.281	
	1	0.8	2.931	2.344	
	1	0.9	3.681	3.312	
	1	1.3	3.393	4.410	
	1	1.6	3.393	5.428	
	1	0.4	0.748	0.299	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
13:15	13.6	8.08	602	8.79	Y

Conditions Key:

Flow Description : 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces
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Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Site: STC-02 Weather Flow Visuals

Date: 3/14/20 Conditions:

Total width of creek _____ Sum of segment's widths _____

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft^3/s (w x d x v)	Total Flow Through Creek in ft^3/s

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
13:45	14.3	8.18	421	8.27	Y

Conditions Key:

Flow Description: 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces
3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Clinical Lab of San Bernardino, Inc. Chain of Custody

WO _____

21881 Barton Road Grand Terrace CA 92313 909 825-7693 / 516-A N 8th St. Lompoc CA 93436 805 737-7300

Client	City of Beaumont
Address:	550 E. 6th St.
	Beaumont, CA. 92223
Client Contact:	Amer Jaker
Phone No.:	951-769-8520 FAX No.: 951-769-8526
System No.:	
Project:	Max Benefits - Beaumont GMZ
Sampled By:	C. Hunter
Comments:	

Email results to: **Ajakher@ci.beaumont.ca.us, ckhunter@dudek.com, sstuart@dudek.com**

Destination Laboratory

[X] Clinical Grand Terrace / ELAP 1088
[ ] Clinical Lompoc / ELAP 1678
[ ] Other:

Date	Time	Sample Identification	Container ID	Matrix	Sample Type	No. of Preserved Cont: Unpreserved	Na2S2O3	NH4Cl	C6H8O6	HNO3	HCl	NaOH	Na2SO3	ZnC4H6O4	ChlorAC	Total Containers	Total Dissolved Solids (SM 2540C)	Nitrate-N (EPA 300.0)	Nitrite-N (EPA 300.0)	Ammonia-N (EPA 350.1)	Alkalinity (inc. HCO3, CO3, and OH	Ca, Mg, K, Na (EPA 200.7)	Sulfate (EPA 300.0)	Specific Conductance (SM 2510B)	pH (SM 4500H+B)	Chloride (EPA 300.0)	Fluoride (EPA 300.0)	Comments	Turn Around Time (TAT)
3/14/20	14:45	CC-01	1	SW		X										2	X	X	X	X	X	X	X	X	X	X	X		10
	14:15	CC-03	3	SW		X										2	X	X	X	X	X	X	X	X	X	X	X		10
	13:45	STC-01	STC	SW		X										2	X	X	X	X	X	X	X	X	X	X	X		10
	13:15	STC-02	52	SW		X										2	X	X	X	X	X	X	X	X	X	X	X		10

Matrix: DW - Drinking Water GW - Ground Water SW - Surface Water W - Water WW - Wastewater SWR - Stormwater Runoff S - Sludge O - Other _____

Use for Bacteria Samples / Sample Type: 1-Routine 2-Repeat 3-Replacement 4-Special D-Distribution W-Well

TAT: (10) Ten Day (5) Five Day Rush (2) Two Day Rush

Relinquished By (Sign)	Print Name / Company	Date / Time	Received By (Sign)	Print Name / Company
	C. Hunter / Dudek	3/14/20 15:00		

(Lab Use Only) Lompoc Lab Receipt Temp.: _____ °C

Shipped Via: [ ] Fed Ex [ ] Golden State Overnight [ ] UPS [ ] OnTrac [ ] USPS [ ] Other _____

Condition: [ ] On Wet Ice [ ] On Blu Ice [ ] Intact [ ] Custody Seals Samples / COC Checked By: _____ Work Order Logged By: _____

Receipt Comments: Clinical Lab Receipt Temp.: _____ °C

DUDEK

FIELD CALIBRATION RECORD

Project Name: City of Beaumont

Project Number: 11110.2020

Field Crew: C. Hunter

Signature:

Date of Field Calibration: 3/14/20

Field Location: Beaumont area, CA

Weather Conditions:

Parameter Sensor:

Instr. Type: YSI

Model: 556

Temp (using thermometer): 22.4 Temp (using meter): 23.4

Parameters / Field Measurements								General Description of Standards
		pH	Percent Error	Dissolved Oxygen - Atmospheric Pressure (mmHg)	Percent Error	Specific Condctance (µS/cm)	Percent Error	calibration solution, supplier, exp. Date
Standard Solution Values	1	4.0		712.3		1338		
	2	7.0						
	3	10.0						
Pre-calibration Readings for Each Standard	1	3.93		711.4		1341		
	2	7.03						
	3	10.05						
Post-calibration Readings for Each Standard	1	3.96		712.1		1312		
	2	7.03						
	3	9.97						

Site: CC-01

Date: 4/4/20

Weather Flow Visuals

Conditions:

Total width of creek 6

Sum of segment's widths 6

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft^3/s (w x d x v)	Total Flow Through Creek in ft^3/s
	1	0.6	1.585	0.951	
	1	0.6	1.302	0.781	
	1	0.6	1.600	0.960	
	1	0.5	1.640	0.820	
	1	0.4	1.396	0.558	
	1	0.5	0.684	0.342	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
15:00	21.5	8.27	748	6.60	Y

Conditions Key:

Flow Description: 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces
3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Site: CC-03 Weather Flow Visuals

Date: 4/4/20 Conditions:

Total width of creek 4 Sum of segment's widths 4

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft^3/s (w x d x v)	Total Flow Through Creek in ft^3/s
	1	0.6	1.856	1.113	
	1	0.6	2.134	1.280	
	1	0.8	2.336	1.868	
	1	0.6	1.952	1.171	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
13:15	20.6	8.44	773	6.46	Y

Conditions Key:

Flow Description: 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces
3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Site: STC-01 Weather Flow Visuals

Date: 4/4/20 Conditions:

Total width of creek 4 Sum of segment's widths 4

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft^3/s (w x d x v)	Total Flow Through Creek in ft^3/s
	1	0.5	3.407	1.703	
	1	0.4	3.517	1.407	
	1	0.4	3.806	1.522	
	1	0.5	3.201	1.600	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
12:15	15.7	8.11	864	7.81	

Conditions Key:

Flow Description : 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces
3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T	W-0-T sunny	W-2-T cloudy	W-X-0 = < 30° F	W-X-3 = 50-60° F	W-X-6 = 80-90° F
Wind - Y, N	W-1-T few clouds	W-3-T raining	W-X-1 = 30-40° F	W-X-4 = 60-70° F	W-X-7 = 90-100° F
Comments:			W-X-2 = 40-50° F	W-X-5 = 70-80° F	W-X-8 = > 100° F

Clinical Lab of San Bernardino, Inc. Chain of Custody

WO _____

21881 Barton Road Grand Terrace CA 92313 909 825-7693 / 516-A N 8th St. Lompoc CA 93436 805 737-7300

Client	City of Beaumont
Address:	550 E. 6th St.
	Beaumont, CA. 92223
Client Contact:	Amer Jaker
Phone No.:	951-769-8520 FAX No.: 951-769-8526
System No.:	
Project:	Max Benefits - Beaumont GMZ
Sampled By:	C. Hunter
Comments:	

Email results to: Ajakher@ci.beaumont.ca.us, ckhunter@dudek.com, sstuart@dudek.com

Destination Laboratory

[X] Clinical Grand Terrace / ELAP 1088

[ ] Clinical Lompoc / ELAP 1678

[ ] Other:

Date	Time	Sample Identification	Container ID	Matrix	Sample Type	No. of Preserved Cont. Unpreserved	Na2S2O3	NH4Cl	C6H8O6	HNO3	HCl	NaOH	Na2SO3	ZnC4H6O4	ChlorAC	Total Containers	Total Dissolved Solids (SM 2540C)	Nitrate-N (EPA 300.0)	Nitrite-N (EPA 300.0)	Ammonia-N (EPA 350.1)	Alkalinity (inc. HCO3, CO3, and OH	Ca, Mg, K, Na (EPA 200.7)	Sulfate (EPA 300.0)	Specific Conductance (SM 2510B)	pH (SM 4500H+B)	Chloride (EPA 300.0)	Fluoride (EPA 300.0)	Comments	Turn Around Time (TAT)
4/4/20	13:00	CC-01	1	SW		X										2	X	X	X	X	X	X	X	X	X	X	X		10
"	13:15	CC-03	3	SW		X										2	X	X	X	X	X	X	X	X	X	X	X		10
"	12:15	STC-01	STC	SW		X										2	X	X	X	X	X	X	X	X	X	X	X		10

Matrix: DW - Drinking Water GW - Ground Water SW - Surface Water W - Water WW - Wastewater SWR - Stormwater Runoff S - Sludge O - Other _____

Use for Bacteria Samples / Sample Type: 1-Routine 2-Repeat 3-Replacement 4-Special D-Distribution W-Well

TAT: (10) Ten Day (5) Five Day Rush (2) Two Day Rush

Relinquished By (Sign)	Print Name / Company	Date / Time	Received By (Sign)	Print Name / Company
	C. Hunter / Dudek	4/4/20 15:15		

(Lab Use Only) Lompoc Lab Receipt Temp.: _____ °C

Shipped Via: [ ] Fed Ex [ ] Golden State Overnight [ ] UPS [ ] OnTrac [ ] USPS [ ] Other _____

Condition: [ ] On Wet Ice [ ] On Blu Ice [ ] Intact [ ] Custody Seals Samples / COC Checked By: _____ Work Order Logged By: _____

Receipt Comments: Clinical Lab Receipt Temp.: _____ °C

DUDEK

FIELD CALIBRATION RECORD

Project Name: City of Beaumont

Project Number: 11110.2020

Field Crew: C Hunter

Signature:

Date of Field Calibration: 4/4/20

Field Location: Beaumont area, CA

Weather Conditions:

Parameter Sensor:

Instr. Type: YSI

Model: 556

Temp (using thermometer): 22.5 Temp (using meter): 23.4

		Parameters / Field Measurements						General Description of Standards
		pH	Percent Error	Dissolved Oxygen - Atmospheric Pressure (mmHg)	Percent Error	Specific Condctance (µS/cm)	Percent Error	calibration solution, supplier, exp. Date
Standard Solution Values	1	4.0		712.8		1309		
	2	7.0						
	3	10.0						
Pre-calibration Readings for Each Standard	1	3.97		715.7		1292		
	2	6.90						
	3	10.06						
Post-calibration Readings for Each Standard	1	4.03		711.9		1336		
	2	7.00						
	3	9.98						

Site: CC-01 Weather Flow Visuals

Date: 4/18/20 Conditions:

Total width of creek 6 Sum of segment's widths 6

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft^3/s (w x d x v)	Total Flow Through Creek in ft^3/s
	1	0.7	1.261	0.882	
	1	0.9	1.040	0.936	
	1	0.8	1.255	1.004	
	1	0.8	1.443	1.154	
	1	0.7	1.376	0.963	
	1	0.6	0.623	0.373	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
15:30	19.8	8.15	821	6.98	Y

Conditions Key:

Flow Description : 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces
3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Site: CC-03 Weather Flow Visuals

Date: 4/18/20 Conditions:

Total width of creek 5 Sum of segment's widths 5

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft^3/s (w x d x v)	Total Flow Through Creek in ft^3/s
	1	0.7	1.088	0.761	
	1	1.0	1.512	1.512	
	1	0.6	2.576	1.545	
	1	0.5	2.144	1.072	
	1	0.3	1.376	0.412	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
14:45	18.0	8.32	761	8.05	Y

Conditions Key:

Flow Description : 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces
3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Site: STC-01 Weather Flow Visuals

Date: 4/18/20 Conditions:

Total width of creek 5 Sum of segment's widths 5

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft^3/s (w x d x v)	Total Flow Through Creek in ft^3/s
	1	3	3.137	0.941	
	1	4	4.065	1.626	
	1	3	4.497	1.349	
	1	4	3.806	1.522	
	1	5	3.441	1.720	
	1	5	3.137	1.568	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
14:00	15.1	8.21	904	9.76	Y

Conditions Key:

Flow Description : 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces
3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Clinical Lab of San Bernardino, Inc. Chain of Custody

WO _____

21881 Barton Road Grand Terrace CA 92313 909 825-7693 / 516-A N 8th St. Lompoc CA 93436 805 737-7300

Client	City of Beaumont
Address:	550 E. 6th St.
	Beaumont, CA. 92223
Client Contact:	Amer Jaker
Phone No.:	951-769-8520 FAX No.: 951-769-8526
System No.:	
Project:	Max Benefits - Beaumont GMZ
Sampled By:	C. Hunter
Comments:	

Email results to: **Ajakher@ci.beaumont.ca.us, ckhunter@dudek.com, sstuart@dudek.com**

Destination Laboratory

[X] Clinical Grand Terrace / ELAP 1088
[ ] Clinical Lompoc / ELAP 1678
[ ] Other:

Date	Time	Sample Identification	Container ID	Matrix	No. of Preserved Cont: Sample Type	Unpreserved	Na2S2O3	NH4Cl	C6H8O6	HNO3	HCl	NaOH	Na2SO3	ZnC4H6O4	ChlorAC	Total Containers	Total Dissolved Solids (SM 2540C)	Nitrate-N (EPA 300.0)	Nitrite-N (EPA 300.0)	Ammonia-N (EPA 350.1)	Alkalinity (inc. HCO3, CO3, and OH	Ca, Mg, K, Na (EPA 200.7)	Sulfate (EPA 300.0)	Specific Conductance (SM 2510B)	pH (SM 4500H+B)	Chloride (EPA 300.0)	Fluoride (EPA 300.0)	Comments	Turn Around Time (TAT)
4/18/20	15:30	CC-01	1	SW		X										1	X	X	X	X	X	X	X	X	X	X	X		10
1	14:45	CC-03	3	SW		X										1	X	X	X	X	X	X	X	X	X	X	X		10
1	14:00	STC-01	STC	SW		X										1	X	X	X	X	X	X	X	X	X	X	X		10

Matrix: DW - Drinking Water GW - Ground Water SW - Surface Water W - Water WW - Wastewater SWR - Stormwater Runoff S - Sludge O - Other _____

Use for Bacteria Samples / Sample Type: 1-Routine 2-Repeat 3-Replacement 4-Special D-Distribution W-Well

TAT: (10) Ten Day (5) Five Day Rush (2) Two Day Rush

Relinquished By (Sign)	Print Name / Company	Date / Time	Received By (Sign)	Print Name / Company
[signature]	C. Hunter / Dudek	4/18/20 15:40		

(Lab Use Only) Lompoc Lab Receipt Temp.: _____ °C

Shipped Via: [ ] Fed Ex [ ] Golden State Overnight [ ] UPS [ ] OnTrac [ ] USPS [ ] Other _____

Condition: [ ] On Wet Ice [ ] On Blu Ice [ ] Intact [ ] Custody Seals Samples / COC Checked By: _____ Work Order Logged By: _____

Receipt Comments: Clinical Lab Receipt Temp.: _____ °C

DUDEK

FIELD CALIBRATION RECORD

Project Name: City of Beaumont

Project Number: 11110.2020

Field Crew: C. Hunter

Signature: [signature]

Date of Field Calibration: 4/18/20

Field Location: Beaumont area, CA

Weather Conditions:

Parameter Sensor:

Instr. Type: YSI

Model: 556

Temp (using thermometer): 22.2 Temp (using meter): 23.3

Parameters / Field Measurements								General Description of Standards
		pH	Percent Error	Dissolved Oxygen - Atmospheric Pressure (mmHg)	Percent Error	Specific Conductance (µS/cm)	Percent Error	calibration solution, supplier, exp. Date
Standard Solution Values	1	4.0		712.6		1357		
	2	7.0						
	3	10.0						
Pre-calibration Readings for Each Standard	1	4.14		711.8		1244		
	2	7.13						
	3	9.90						
Post-calibration Readings for Each Standard	1	3.99		711.9		1307		
	2	7.03						
	3	9.97						

Site: CC-01

Date: 4/28/20

Weather Flow Visuals

Conditions:

Total width of creek 6

Sum of segment's widths 6

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft^3/s (w x d x v)	Total Flow Through Creek in ft^3/s
	1	0.7	1.280	0.896	
	1	0.7	1.220	0.854	
	1	0.8	1.156	0.924	
	1	0.8	1.356	1.084	
	1	0.7	1.077	0.753	
	1	0.7	0.792	0.554	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
13:30	25.3	8.13	811	5.20	Y

Conditions Key:

Flow Description : 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces
3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Site: CC-03

Date: 4/28/20

Weather Flow Visuals

Conditions:

Total width of creek 5

Sum of segment's widths 5

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft^3/s (w x d x v)	Total Flow Through Creek in ft^3/s
	1	0.2	0.973	0.194	
	1	0.5	1.904	0.952	
	1	0.6	1.973	1.183	
	1	0.7	2.000	1.400	
	1	0.6	1.790	1.074	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
12:45	25.2	8.42	784	6.48	Y

Conditions Key:

Flow Description : 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces
3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F

Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F

Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Site: STC-01

Date: 4/28/20

Weather Flow Visuals

Conditions:

Total width of creek 4.4

Sum of segment's widths 4.4

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft^3/s (w x d x v)	Total Flow Through Creek in ft^3/s
	1.1	0.4	2.912	1.281	
	1.1	0.4	3.633	1.598	
	1.1	0.3	2.912	0.960	
	1.1	0.5	2.181	1.199	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
12:00	22.9	8.23	897	5.54	Y

Conditions Key:

Flow Description : 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces
3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Clinical Lab of San Bernardino, Inc. Chain of Custody

WO _____

21881 Barton Road Grand Terrace CA 92313 909 825-7693 / 516-A N 8th St. Lompoc CA 93436 805 737-7300

Client	City of Beaumont
Address:	550 E. 6th St.
	Beaumont, CA. 92223
Client Contact:	Amer Jaker
Phone No.:	951-769-8520 FAX No.: 951-769-8526
System No.:	
Project:	Max Benefits - Beaumont GMZ
Sampled By:	C. Hunter
Comments:	

Email results to: Ajakher@ci.beaumont.ca.us, ckhunter@dudek.com, sstuart@dudek.com

Destination Laboratory

[X] Clinical Grand Terrace / ELAP 1088

[ ] Clinical Lompoc / ELAP 1678

[ ] Other:

Date	Time	Sample Identification	Container ID	Matrix	Sample Type	No. of Preserved Cont: Unpreserved	Na2S2O3	NH4Cl	C6H8O6	HNO3	HCl	NaOH	Na2SO3	ZnC4H6O4	ChlorAC	Total Containers	Total Dissolved Solids (SM 2540C)	Nitrate-N (EPA 300.0)	Nitrite-N (EPA 300.0)	Ammonia-N (EPA 350.1)	Alkalinity (inc. HCO3, CO3, and OH	Ca, Mg, K, Na (EPA 200.7)	Sulfate (EPA 300.0)	Specific Conductance (SM 2510B)	pH (SM 4500H+B)	Chloride (EPA 300.0)	Fluoride (EPA 300.0)	Comments	Turn Around Time (TAT)
4/28/20	13:30	CC-01	1	SW		X										2	X	X	X	X	X	X	X	X	X	X	X		10
1	12:45	CC-03	3	SW		X										2	X	X	X	X	X	X	X	X	X	X	X		10
1	12:00	STC-01	STC	SW		X										2	X	X	X	X	X	X	X	X	X	X	X		10

Matrix: DW - Drinking Water GW - Ground Water SW - Surface Water W - Water WW - Wastewater SWR - Stormwater Runoff S - Sludge O - Other _____

Use for Bacteria Samples / Sample Type: 1-Routine 2-Repeat 3-Replacement 4-Special D-Distribution W-Well

TAT: (10) Ten Day (5) Five Day Rush (2) Two Day Rush

Relinquished By (Sign)	Print Name / Company	Date / Time	Received By (Sign)	Print Name / Company
	C. Hunter / Dudek	4/28/20 14:00		

(Lab Use Only) Lompoc Lab Receipt Temp.: _____ °C

Shipped Via: [ ] Fed Ex [ ] Golden State Overnight [ ] UPS [ ] OnTrac [ ] USPS [ ] Other _____

Condition: [ ] On Wet Ice [ ] On Blu Ice [ ] Intact [ ] Custody Seals Samples / COC Checked By: _____ Work Order Logged By: _____

Receipt Comments: Clinical Lab Receipt Temp.: _____ °C

DUDEK

FIELD CALIBRATION RECORD

Project Name: City of Beaumont

Project Number: 11110.2020

Field Crew: C. Hunter

Signature:

Date of Field Calibration: 4/28/20

Field Location: Beaumont area, CA

Weather Conditions:

Parameter Sensor:

Instr. Type: YSI

Model: 556

Temp (using thermometer): 22.1 Temp (using meter): 23.1

Parameters / Field Measurements								General Description of Standards
		pH	Percent Error	Dissolved Oxygen - Atmospheric Pressure (mmHg)	Percent Error	Specific Conductance (µS/cm)	Percent Error	calibration solution, supplier, exp. Date
Standard Solution Values	1	4.0		713.4		1286		
	2	7.0						
	3	10.0						
Pre-calibration Readings for Each Standard	1	4.02		713.2		1256		
	2	7.00						
	3	9.80						
Post-calibration Readings for Each Standard	1	4.00		713.2		1310		
	2	7.00						
	3	9.97						

Site: CC-01 Weather Flow Visuals

Date: 5/18/20 Conditions:

Total width of creek 5 Sum of segment's widths 5

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft^3/s (w x d x v)	Total Flow Through Creek in ft^3/s
	1	0.7	0.439	0.3073	
	1	0.8	1.232	0.985	
	1	0.9	1.732	1.558	
	1	1.1	1.328	1.460	
	1	1.1	1.184	1.302	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
18:45	23.8	8.49	737	6.74	Y

Conditions Key:

Flow Description: 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces
3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Site: CC-03 Weather Flow Visuals

Date: 5/18/20 Conditions:

Total width of creek 4 Sum of segment's widths 4

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft^3/s (w x d x v)	Total Flow Through Creek in ft^3/s
	1	0.8	1.957	1.561	
	1	0.9	2.288	2.059	
	1	0.9	2.361	2.124	
	1	0.6	0.380	0.228	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
18:20	22.6	8.55	743	7.39	Y

Conditions Key:

Flow Description : 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces
3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Site: STC-01 Weather Flow Visuals

Date: 5/18/20 Conditions:

Total width of creek 4.4 Sum of segment's widths 4.4

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft^3/s (w x d x v)	Total Flow Through Creek in ft^3/s
	1.1	0.4	3.633	1.598	
	1.1	0.3	3.525	1.262	
	1.1	0.3	3.245	1.072	
	1.1	0.2	1.057	0.232	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
13:30	21.7	8.23	776	8.16	Y

Conditions Key:

Flow Description: 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces
3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Clinical Lab of San Bernardino, Inc. Chain of Custody

WO _____

21881 Barton Road Grand Terrace CA 92313 909 825-7693 / 516-A N 8th St. Lompoc CA 93436 805 737-7300

Client	City of Beaumont
Address:	550 E. 6th St.
	Beaumont, CA. 92223
Client Contact:	Amer Jaker
Phone No.:	951-769-8520 FAX No.: 951-769-8526
System No.:	
Project:	Max Benefits - Beaumont GMZ
Sampled By:	C. Hunter
Comments:	

Email results to: Ajakher@ci.beaumont.ca.us, ckhunter@dudek.com, sstuart@dudek.com

Destination Laboratory

[X] Clinical Grand Terrace / ELAP 1088

[ ] Clinical Lompoc / ELAP 1678

[ ] Other:

Date	Time	Sample Identification	Container ID	Matrix	No. of Preserved Cont	Sample Type	Unpreserved	Na2S2O3	NH4Cl	C6H8O6	HNO3	HCl	NaOH	Na2SO3	ZnC4H6O4	ChlorAC	Total Containers	Total Dissolved Solids (SM 2540C)	Nitrate-N (EPA 300.0)	Nitrite-N (EPA 300.0)	Ammonia-N (EPA 350.1)	Alkalinity (inc. HCO3, CO3, and OH	Ca, Mg, K, Na (EPA 200.7)	Sulfate (EPA 300.0)	Specific Conductance (SM 2510B)	pH (SM 4500H+B)	Chloride (EPA 300.0)	Fluoride (EPA 300.0)	Comments	Turn Around Time (TAT)
5/18/20	18:45	CC-01	1	SW			X										2	X	X	X	X	X	X	X	X	X	X	X		10
1	18:20	CC-03	3	SW			X										2	X	X	X	X	X	X	X	X	X	X	X		10
	13:30	STC-01	STC	SW			X										2	X	X	X	X	X	X	X	X	X	X	X		10

Matrix: DW - Drinking Water GW - Ground Water SW - Surface Water W - Water WW - Wastewater SWR - Stormwater Runoff S - Sludge O - Other _____

Use for Bacteria Samples / Sample Type: 1-Routine 2-Repeat 3-Replacement 4-Special D-Distribution W-Well

TAT: (10) Ten Day (5) Five Day Rush (2) Two Day Rush

Relinquished By (Sign)	Print Name / Company	Date / Time	Received By (Sign)	Print Name / Company
[signature]	C. Hunter / Dudek	5/19/20 18:15		

(Lab Use Only) Lompoc Lab Receipt Temp.: _____ °C

Shipped Via: [ ] Fed Ex [ ] Golden State Overnight [ ] UPS [ ] OnTrac [ ] USPS [ ] Other _____

Condition: [ ] On Wet Ice [ ] On Blu Ice [ ] Intact [ ] Custody Seals Samples / COC Checked By: _____ Work Order Logged By: _____

Receipt Comments: Clinical Lab Receipt Temp.: _____ °C

DUDEK

FIELD CALIBRATION RECORD

Project Name: City of Beaumont

Project Number: 11110.2020

Field Crew: C. Hunter

Signature:

Date of Field Calibration: 5/18/20

Field Location: Beaumont area, CA

Weather Conditions:

Parameter Sensor:

Instr. Type: YSI

Model: 556

Temp (using thermometer): 22.6 Temp (using meter): 23.6

Parameters / Field Measurements								General Description of Standards
		pH	Percent Error	Dissolved Oxygen - Atmospheric Pressure (mmHg)	Percent Error	Specific Conductance (µS/cm)	Percent Error	calibration solution, supplier, exp. Date
Standard Solution Values	1	4.0		714.1		1294		
	2	7.0						
	3	10.0						
Pre-calibration Readings for Each Standard	1	4.18		712.5		1329		
	2	7.13						
	3	10.05						
Post-calibration Readings for Each Standard	1	4.00		712.0		1297		
	2	7.00						
	3	10.02						

Site: CC-01

Date: 6/7/20

Weather Flow Visuals

Conditions:

Total width of creek 6.6

Sum of segment's widths 6.6

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft^3/s (w x d x v)	Total Flow Through Creek in ft^3/s
	1.1	0.6	0.678	0.447	
	1.1	0.6	1.062	0.700	
	1.1	0.7	1.184	0.911	
	1.1	0.7	1.197	0.921	
	1.1	0.7	1.105	0.850	
	1.1	0.6	0.946	0.625	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
13:30	24.6	8.3	758	6.79	Y

Conditions Key:

Flow Description : 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces
3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Site: CC-03 Weather Flow Visuals

Date: 6/7/20 Conditions:

Total width of creek 5 Sum of segment's widths 5

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft^3/s (w x d x v)	Total Flow Through Creek in ft^3/s
	1	0.2	0.537	0.107	
	1	0.4	1.417	0.566	
	1	0.5	1.712	0.856	
	1	0.6	1.417	0.850	
	1	0.6	1.505	0.903	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
13:00	23.1	8.46	732	7.31	Y

Conditions Key:

Flow Description : 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces
3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Site: STC-01

Date: 6/7/20

Weather Flow Visuals

Conditions:

Total width of creek 4

Sum of segment's widths 4

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft^3/s (w x d x v)	Total Flow Through Creek in ft^3/s
	1	0.5	3.662	1.831	
	1	0.4	3.489	1.395	
	1	0.3	2.624	0.787	
	1	0.2	1.315	0.263	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
12:30	20.2	8.34	770	8.16	Y

Conditions Key:

Flow Description: 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces
3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F

Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F

Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Clinical Lab of San Bernardino, Inc. Chain of Custody

WO _____

21881 Barton Road Grand Terrace CA 92313 909 825-7693 / 516-A N 8th St. Lompoc CA 93436 805 737-7300

Client	City of Beaumont
Address:	550 E. 6th St.
	Beaumont, CA. 92223
Client Contact:	Amer Jaker
Phone No.:	951-769-8520 FAX No.: 951-769-8526
System No.:	
Project:	Max Benefits - Beaumont GMZ
Sampled By:	C. Hunter
Comments:	TVanBelle@beaumontca.gov

Email results to: ~~Ajaker@ci.beaumont.ca.us~~, ckhunter@dudek.com, sstuart@dudek.com

Destination Laboratory

[X] Clinical Grand Terrace / ELAP 1088

[ ] Clinical Lompoc / ELAP 1678

[ ] Other:

Date	Time	Sample Identification	Container ID	Matrix	Sample Type	No. of Preserved Cont: Unpreserved	Na2S2O3	NH4Cl	C6H8O6	HNO3	HCl	NaOH	Na2SO3	ZnC4H6O4	ChlorAC	Total Containers	Total Dissolved Solids (SM 2540C)	Nitrate-N (EPA 300.0)	Nitrite-N (EPA 300.0)	Ammonia-N (EPA 350.1)	Alkalinity (inc. HCO3, CO3, and OH	Ca, Mg, K, Na (EPA 200.7)	Sulfate (EPA 300.0)	Specific Conductance (SM 2510B)	pH (SM 4500H+B)	Chloride (EPA 300.0)	Fluoride (EPA 300.0)	Comments	Turn Around Time (TAT)
6/7/20	13:30	CC-01	1	SW		X										2	X	X	X	X	X	X	X	X	X	X	X		10
1	13:00	CC-03	3	SW		X										2	X	X	X	X	X	X	X	X	X	X	X		10
1	12:30	STC-01	STC	SW		X										2	X	X	X	X	X	X	X	X	X	X	X		10

Matrix: DW - Drinking Water GW - Ground Water SW - Surface Water W - Water WW - Wastewater SWR - Stormwater Runoff S - Sludge O - Other _____

Use for Bacteria Samples / Sample Type: 1-Routine 2-Repeat 3-Replacement 4-Special D-Distribution W-Well

TAT: (10) Ten Day (5) Five Day Rush (2) Two Day Rush

Relinquished By (Sign)	Print Name / Company	Date / Time	Received By (Sign)	Print Name / Company
	C. Hunter / Dudek	6/7/20 14:00		

(Lab Use Only) Lompoc Lab Receipt Temp.: _____°C

Shipped Via: [ ] Fed Ex [ ] Golden State Overnight [ ] UPS [ ] OnTrac [ ] USPS [ ] Other _____

Condition: [ ] On Wet Ice [ ] On Blu Ice [ ] Intact [ ] Custody Seals Samples / COC Checked By: _____ Work Order Logged By: _____

Receipt Comments: Clinical Lab Receipt Temp.: _____°C

DUDEK

FIELD CALIBRATION RECORD

Project Name: City of Beaumont

Project Number: 11110.2020

Field Crew: C. Hunter

Signature: [signature]

Date of Field Calibration: 6/7/20

Field Location: Beaumont area, CA

Weather Conditions:

Parameter Sensor:

Instr. Type: YSI

Model: 556

Temp (using thermometer): 22.7 Temp (using meter): 23.6

Parameters / Field Measurements								General Description of Standards
		pH	Percent Error	Dissolved Oxygen - Atmospheric Pressure (mmHg)	Percent Error	Specific Conductance (µS/cm)	Percent Error	calibration solution, supplier, exp. Date
Standard Solution Values	1	4.0		712.8		1321		
	2	7.0						
	3	10.0						
Pre-calibration Readings for Each Standard	1	4.05		711.2		1343		
	2	6.98						
	3	9.90						
Post-calibration Readings for Each Standard	1	4.00		712.2		1318		
	2	7.01						
	3	10.00						

Site: CC-01 Weather Flow Visuals

Date: 6/18/20 Conditions:

Total width of creek 5 Sum of segment's widths 5

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft^3/s (w x d x v)	Total Flow Through Creek in ft^3/s
	1	0.3	0.605	0.181	
	1	0.9	1.172	1.054	
	1	1.0	1.520	1.520	
	1	1.1	1.136	1.249	
	1	1.3	0.674	0.876	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
16:30	26.3	8.12	751	5.05	Y

Conditions Key:

Flow Description : 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces
3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Site: CC-03 Weather Flow Visuals

Date: 6/18/20 Conditions:

Total width of creek 4 Sum of segment's widths 4

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft^3/s (w x d x v)	Total Flow Through Creek in ft^3/s
	1	0.8	0.944	0.755	
	1	0.8	1.648	1.318	
	1	1.0	1.904	1.904	
	1	0.9	1.565	1.41	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
15:15	25.9	8.41	733	6.87	Y

Conditions Key:

Flow Description : 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces
3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Site: STC-01

Date: 6/18/20

Weather Flow Visuals

Conditions:

Total width of creek 4

Sum of segment's widths 4

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft^3/s (w x d x v)	Total Flow Through Creek in ft^3/s
	1	0.5	3.137	1.568	
	1	0.4	3.056	1.222	
	1	0.2	2.659	0.531	
	1	0.2	1.267	0.253	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
16:00	23.7	8.32	772	7.32	Y

Conditions Key:

Flow Description : 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces
3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Comments:

0/6/16 20F1772

Clinical Laboratory of San Bernardino, Inc.

Chain of Custody

Client	City of Beaumont		
Address	715 West 4th Street		
	Beaumont, CA 92223		
Contact	*Thaxton Van Belle*	Email Address:	[redacted]
Phone #	(951) 769-8534	Fax #:	(951) 769-0914
Project	Max Benefits [redacted]	Reporting Requests:	
Sub Project	[redacted]	(X) Test Share ( ) CC's To:_____	
Sampled by	C. Hunter		

Date (Comp Start)	Time (Comp Start)	Date (Comp End)	Time (Comp End)	Sample Identification	Matrix	Type	Preservatives	Analysis Requested: See List							Comments / Bottles
				~~Influent 24 Hr. Composite~~	~~WW~~	~~1~~	~~7~~	X		X					~~1 Half Gallon~~
				~~Effluent 24 Hr. Composite~~	~~WW~~	~~1~~	~~5, 7~~	X		X					~~1 Half Gallon~~
		-	-	~~Effluent Grab~~	~~WW~~	~~1~~	~~1, 7~~				X				~~[redacted]~~
6/18/20	14:30			CC-01	1	SW		X							
1	15:15			CC-03	3	SW		X							
1	16:00			STC-01	STC	SW		X							

Matrix: DW-Drinking Water, WW-Wasre Water, SW-Surface Water, GW- Ground Water ***Type-*** 1-Routine, 2-Repeat, 3-Replacement, 4-Special

Preservatives: (1) Na2S2O3 (2) HCl (3) HNO3 (4) NH4Cl (5) H2SO4 (6) Na2SO3 (7) Cold (8) Other:_____

Relinquished By (Sign)	*Print Name / Company*	*Date / Time*	*Received By (Sign)*	*Print Name / Company*
[signature]	C. Hunter / Dudek	6/18/20 16:20	[signature] 6/19 10:30	Chris Martinez
Chris Martinez	Chris Martinez	6-19-20 12:45		
		14:05	[signature]	JA CRSB

Samples received: (X) *On ice* (X) *Intact* ( ) *Custody seals* *Temp* 4 ( ) F (X) C

ELAP # 1088

DUDEK

FIELD CALIBRATION RECORD

Project Name: City of Beaumont

Project Number: 11110.2020

Field Crew: C. Hunter

Signature: [signature]

Date of Field Calibration: 6/18/20

Field Location: Beaumont area, CA

Weather Conditions:

Parameter Sensor:

Instr. Type: YSI

Model: 556

Temp (using thermometer): 22.3 Temp (using meter): 23.3

Parameters / Field Measurements								General Description of Standards
		pH	Percent Error	Dissolved Oxygen - Atmospheric Pressure (mmHg)	Percent Error	Specific Conductance (µS/cm)	Percent Error	calibration solution, supplier, exp. Date
Standard Solution Values	1	4.0		711.4		1302		
	2	7.0						
	3	10.0						
Pre-calibration Readings for Each Standard	1	3.86		713.8		1250		
	2	6.88						
	3	9.63						
Post-calibration Readings for Each Standard	1	3.98		711.6		1306		
	2	6.98						
	3	10.02						

Site: CC-01

Date: 6/27/20

Weather Flow Visuals

Conditions:

Total width of creek 6

Sum of segment's widths 6

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft^3/s (w x d x v)	Total Flow Through Creek in ft^3/s
	1	0.3	0.463	0.138	
	1	0.9	1.280	1.152	
	1	1.0	1.328	1.328	
	1	1.0	1.505	1.505	
	1	1.1	1.232	1.355	
	1	1.2	0.913	1.095	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
16:30	27.5	8.12	756	4.76	Y

Conditions Key:

Flow Description : 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces
3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Comments:

Site: CC-03

Date: 6/27/20

Weather Flow Visuals

Conditions:

Total width of creek 5

Sum of segment's widths 5

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft^3/s (w x d x v)	Total Flow Through Creek in ft^3/s
	1	0.2	0.944	0.188	
	1	0.5	1.648	0.824	
	1	0.6	2.192	1.315	
	1	0.6	2.048	1.228	
	1	0.7	1.981	1.386	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
16:00	27.6	8.76	759	6.62	Y

Conditions Key:

Flow Description : 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces
3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Site: STC-01 Weather Flow Visuals

Date: 6/27/20 Conditions:

Total width of creek 3.3 Sum of segment's widths 3.3

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft^3/s (w x d x v)	Total Flow Through Creek in ft^3/s
	1.1	0.5	2.720	1.496	
	1.1	0.3	2.720	0.897	
	1.1	0.2	0.547	0.119	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
15:30	25.5	8.41	720	7.02	Y

Conditions Key:

Flow Description: 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces
3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

2063

20F2314

Clinical Lab of San Bernardino, Inc. Chain of Custody

21881 Barton Road Grand Terrace CA 92313 909 825-7693 / 516-A N 8th St. Lompoc CA 93436 805 737-7300

Client:	City of Beaumont
Address:	550 E. 6th St.
	Beaumont, CA. 92223
Client Contact:	Amer Jakar
Phone No.:	951-769-8520 FAX No.: 951-769-8526
System No.:	
Project:	Max Benefits - Beaumont GMZ
Sampled By:	C. Hunter
Comments:	Email results to Ajakher@ci.beaumont.ca.us, chhunter@dudek.com, zmart@dudek.com

Destination Laboratory

[X] Clinical Grand Terrace / ELAP 1088
[ ] Clinical Lompoc / ELAP 1678
[ ] Other

Date	Time	Sample Identification	Container ID	Matrix	Sample Type	No. of Preserved Cont.: Unpreserved	$Na_2S_2O_3$	NH_4Cl	$C_6H_8O_6$	HNO_3	HCl	NaOH	H_2SO_4	$ZnC_4H_6O_4$	ChlorAC	Total Containers	Total Dissolved Solids (SM 2540C)	Nitrate-N (EPA 300.0)	Nitrite-N (EPA 300.0)	Ammonia-N (EPA 350.1)	Alkalinity (inc. HCO3, CO3, and OH)	Ca, Mg, K, Na (EPA 200.7)	Sulfate (EPA 300.0)	Specific Conductance (SM 2510B)	pH (SM 4500 H+B)	Chloride (EPA 300.0)	Fluoride (EPA 300.0)	Comments	Turn Around Time (TAT)
6/27/20	15:30	CC-01	1	SW		X										2	X	X	X	X	X	X	X	X	X	X	X		10
	16:00	CC-03	3	SW		X										2	X	X	X	X	X	X	X	X	X	X	X		10
	16:30	STC-01	STC	SW		X										2	X	X	X	X	X	X	X	X	X	X	X		10

Matrix: DW - Drinking Water GW - Ground Water SW - Surface Water W - Water WW - Wastewater SWR - Stormwater Runoff S - Sludge O - Other ____

Use for Bacteria Samples / Sample Type: 1-Routine 2-Repeat 3-Replacement 4-Special D-Distribution W-Well   TAT: (10) Ten Day (5) Five Day Rush (2) Two Day Rush

Relinquished By (Sign)	Print Name / Company	Date / Time	Received By (Sign)	Print Name / Company
[signature]	C. Hunter / Dudek	6/28/20 1600		
		6/29/20-755	[signature]	Stu Styles / CLSB
[signature]	Stu Styles / CLSB	6/29/20-845	[signature]	JH CLSB

(Lab Use Only) Lompoc Lab Receipt Temp.: ____ °C

Shipped Via: [ ] Fed Ex [ ] Golden State Overnight [ ] UPS [ ] OnTrac [ ] USPS [ ] Other ____

Condition: [X] On Wet Ice [/] On Blu Ice [X] Intact [ ] Custody Seals Samples / COC Checked By: ____ Work Order Logged By: ____

Receipt Comments: Clinical Lab Receipt Temp.: 4.3 °C

DUDEK

FIELD CALIBRATION RECORD

Project Name: City of Beaumont

Project Number: 11110.2020

Field Crew: C. Hunter

Signature: [signature]

Date of Field Calibration: 6/27/20

Field Location: Beaumont area, CA

Weather Conditions:

Parameter Sensor:

Instr. Type: YSI

Model: 556

Temp (using thermometer): 22.7 Temp (using meter): 23.6

Parameters / Field Measurements								General Description of Standards
		pH	Percent Error	Dissolved Oxygen - Atmospheric Pressure (mmHg)	Percent Error	Specific Conductance (µS/cm)	Percent Error	calibration solution, supplier, exp. Date
Standard Solution Values	1	4.0		711.6		1317		
	2	7.0						
	3	10.0						
Pre-calibration Readings for Each Standard	1	3.97		712.2		1347		
	2	6.88						
	3	10.00						
Post-calibration Readings for Each Standard	1	4.01		711.8		1319		
	2	6.99						
	3	10.00						

Site: CC-01

Date: 7/18/20

Weather Flow Visuals

Conditions: _____

Total width of creek _____

Sum of segment's widths _____

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft^3/s (w x d x v)	Total Flow Through Creek in ft^3/s
	1	0.3	0.402	0.120	
	1	0.8	0.961	0.768	
	1	0.8	1.472	1.177	
	1	0.9	1.328	1.195	
	1	0.1	1.088	1.088	
	1	1.1	0.511	0.562	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
13:00	27.8	8.19	757	4.72	Y

Conditions Key:

Flow Description : 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces
3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F

Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F

Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Site: CC-03 Weather Flow Visuals

Date: 7/8/20 Conditions:

Total width of creek 4.4 Sum of segment's widths 4.4

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft^3/s (w x d x v)	Total Flow Through Creek in ft^3/s
	1.1	0.6	1.367	0.895	
	1.1	0.6	1.424	0.939	
	1.1	0.4	1.343	0.590	
	1.1	0.2	0.441	0.097	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
12:00	26.3	8.51	753	7.07	Y

Conditions Key:

Flow Description : 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow
Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces
3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T	W-0-T sunny	W-2-T cloudy	W-X-0 = < 30° F	W-X-3 = 50-60° F	W-X-6 = 80-90° F
Wind - Y, N	W-1-T few clouds	W-3-T raining	W-X-1 = 30-40° F	W-X-4 = 60-70° F	W-X-7 = 90-100° F
Comments:			W-X-2 = 40-50° F	W-X-5 = 70-80° F	W-X-8 = > 100° F

Site: STC-01 Weather Flow Visuals

Date: 7/18/20 Conditions:

Total width of creek 2.2 Sum of segment's widths 2.2

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft^3/s (w x d x v)	Total Flow Through Creek in ft^3/s
	1.1	0.6	2.72	1.795	
	1.1	0.6	3.00	1.983	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
11:00	22.3	8.48	761	7.64	Y

Conditions Key:

Flow Description : 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces
3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

0-0-6

WO 20G1667

Clinical Lab of San Bernardino, Inc. — Chain of Custody

21881 Barton Road Grand Terrace CA 92313 909 825-7693 / 516-A N 8th St. Lompoc CA 93436 805 737-7300

Client	City of Beaumont
Address:	550 E. 6th St.
	Beaumont, CA. 92223
Client Contact:	Thaston Van Ell
Phone No.:	(951) 769-8537 FAX No.:
System No.:	
Project:	Max Benefits - Beaumont CMZ
Sampled By:	C. Hunter
Comments:	
Email results to:	[redacted], ckhunter@dudek.com, sstuart@dudek.com

Destination Laboratory

[X] Clinical Grand Terrace / ELAP 1088
[ ] Clinical Lompoc / ELAP 1678
[ ] Other:

Date	Time	Sample Identification	Container ID	Matrix	Sample Type	No. of Preserved Cont: Unpreserved	Na2S2O3	NH4Cl	C6H8O6	HNO3	HCl	NaOH	Na2SO3	ZnC4H6O4	ChlorAC	Total Containers	Total Dissolved Solids (SM 2540C)	Nitrate (EPA 300.0)	Nitrite (EPA 300.0)	Alkalinity (EPA 350.1)	Total alkalinity: HCO3, CO3, and OH	Ca, Mg, K, Na (EPA 200.7)	Sulfate (EPA 300.0)	Specific Conductance (SM 2510B)	pH (SM 4500H+B)	Chloride (EPA 300.0)	Fluoride (EPA 300.0)	Comments	Turn Around Time (TAT)
7/16/20	13:00	CC-01	1	SW		X										2	X	X	X	X	X	X	X	X	X	X	X		10
"	12:00	CC-03	3	SW		X										2	X	X	X	X	X	X	X	X	X	X	X		10
	11:00	STC-01	STC	SW		X										2	X	X	X	X	X	X	X	X	X	X	X		10

Matrix: DW - Drinking Water GW - Ground Water SW - Surface Water W - Water WW - Wastewater SWR - Stormwater Runoff S - Sludge O - Other

Use for Bacteria Samples / Sample Type: 1-Routine 2-Repeat 3-Replacement 4-Special D-Distribution W-Well

TAT: (10) Ten Day (5) Five Day Rush (2) Two Day Rush

Relinquished By (Sign)	Print Name / Company	Date / Time	Received By (Sign)	Print Name / Company
[signature]	C. Hunter / DUDEK	7/16/20 13:30	[signature]	Chris Martinez
[signature]	Chris Martinez	7/17/20 9:35	[signature]	CLSB / Colin D.

(Lab Use Only) Lompoc Lab Receipt Temp.: _____ °C

Shipped Via: [ ] Fed Ex [ ] Golden State Overnight [ ] UPS [ ] OnTrac [ ] USPS [ ] Other _____

Condition: [ ] On Wet Ice [ ] On Blu Ice [ ] Intact [ ] Custody Seals Samples / COC Checked By: Work Order Logged By: _____

Receipt Comments: Clinical Lab Receipt Temp.: 4.4 °C

DUDEK

FIELD CALIBRATION RECORD

Project Name: City of Beaumont

Project Number: 11110.2020

Field Crew: C. Hunter

Signature:

Date of Field Calibration: 7/18/20

Field Location: Beaumont area, CA

Weather Conditions:

Parameter Sensor:

Instr. Type: YSI

Model: 556

Temp (using thermometer): 22.5 Temp (using meter): 23.7

Parameters / Field Measurements								General Description of Standards
		pH	Percent Error	Dissolved Oxygen - Atmospheric Pressure (mmHg)	Percent Error	Specific Condctance (µS/cm)	Percent Error	calibration solution, supplier, exp. Date
Standard Solution Values	1	4.0		709.8		1350		
	2	7.0						
	3	10.0						
Pre-calibration Readings for Each Standard	1	4.04		710.6		1360		
	2	6.94						
	3	10.07						
Post-calibration Readings for Each Standard	1	3.99		709.9		1301		
	2	6.99						
	3	9.98						

Site: CC-01 Weather Flow Visuals

Date: 7/28/20 Conditions:

Total width of creek 4.4 Sum of segment's widths 4.4

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft^3/s (w x d x v)	Total Flow Through Creek in ft^3/s
	1.1	0.5	0.549	0.301	
	1.1	0.6	0.944	0.623	
	1.1	0.6	0.987	0.651	
	1.1	0.9	0.557	0.551	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
15:30	28.4	8.32	760	5.41	Y

Conditions Key:

Flow Description : 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces
3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Site: CC-03

Date: 7/28/20

Weather Flow Visuals

Conditions:

Total width of creek 3.3

Sum of segment's widths 3.3

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft^3/s (w x d x v)	Total Flow Through Creek in ft^3/s
	1.1	0.5	0.559	0.307	
	1.1	0.4	1.136	0.499	
	1.1	0.2	0.486	0.106	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
14:30	26.8	8.44	755	6.29	Y

Conditions Key:

Flow Description : 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces
3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Comments:

Site: STC-01 Weather Flow Visuals

Date: 7/28/20 Conditions:

Total width of creek 1 Sum of segment's widths 1

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft^3/s (w x d x v)	Total Flow Through Creek in ft^3/s
	1	0.7	3.328	1.331	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
13:30	24.7	8.38	678	6.88	Y

Conditions Key:

Flow Description : 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces
3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Clinical Lab of San Bernardino, Inc. Chain of Custody

WO _____

21881 Barton Road Grand Terrace CA 92313 909 825-7693 / 516-A N 8th St. Lompoc CA 93436 805 737-7300

Client	City of Beaumont
Address:	550 E. 6th St.
	Beaumont, CA. 92223
Client Contact:	Thaxton VanBelle
Phone No.:	FAX No.:
System No.:	
Project:	Max Benefits - Beaumont GMZ
Sampled By:	
Comments:	
Email results to:	[redacted], ckhunter@dudek.com, sstuart@dudek.com

Destination Laboratory

[X] Clinical Grand Terrace / ELAP 1088
[ ] Clinical Lompoc / ELAP 1678
[ ] Other:

Date	Time	Sample Identification	Container ID	Matrix	Sample Type	No. of Preserved Cont.									Total Containers	Analysis Requested											Comments	Turn Around Time (TAT)
						Unpreserved	Na2S2O3	NH4Cl	C6H8O6	HNO3	HCl	NaOH	Na2SO3	ZnC4H6O4	ChlorAC		Total Dissolved Solids (SM 2540C)	Nitrate-N (EPA 300.0)	Nitrite-N (EPA 300.0)	Ammonia-N (EPA 350.1)	Alkalinity (inc. HCO3, CO3, and OH	Ca, Mg, K, Na (EPA 200.7)	Sulfate (EPA 300.0)	Specific Conductance (SM 2510B)	pH (SM 4500H+B)	Chloride (EPA 300.0)	Fluoride (EPA 300.0)		
7/28/20	15:30	CC-01	1	SW		X									2	X	X	X	X	X	X	X	X	X	X	X		10
"	14:30	CC-03	3	SW		X									2	X	X	X	X	X	X	X	X	X	X	X		10
"	13:30	STC-01	STC	SW		X									2	X	X	X	X	X	X	X	X	X	X	X		10

Matrix: DW - Drinking Water GW - Ground Water SW - Surface Water W - Water WW - Wastewater SWR - Stormwater Runoff S - Sludge O - Other _____

Use for Bacteria Samples / Sample Type: 1-Routine 2-Repeat 3-Replacement 4-Special D-Distribution W-Well

TAT: (10) Ten Day (5) Five Day Rush (2) Two Day Rush

Relinquished By (Sign)	Print Name / Company	Date / Time	Received By (Sign)	Print Name / Company
[signature]	C. Thaxton / Dudek	7/28/20 15:45		

(Lab Use Only) Lompoc Lab Receipt Temp.: _____°C

Shipped Via: [ ] Fed Ex [ ] Golden State Overnight [ ] UPS [ ] OnTrac [ ] USPS [ ] Other _____

Condition: [ ] On Wet Ice [ ] On Blu Ice [ ] Intact [ ] Custody Seals Samples / COC Checked By: _____ Work Order Logged By: _____

Receipt Comments: Clinical Lab Receipt Temp.: _____°C

FIELD CALIBRATION RECORD

Project Name: City of Beaumont

Project Number: 11110.2020

Field Crew: C Hunter

Signature: [signature]

Date of Field Calibration: 7/28/20

Field Location: Beaumont area, CA

Weather Conditions:

Parameter Sensor:

Instr. Type: YSI

Model: 556

Temp (using thermometer): 22.6 Temp (using meter): 23.5

Parameters / Field Measurements								General Description of Standards
		pH	Percent Error	Dissolved Oxygen - Atmospheric Pressure (mmHg)	Percent Error	Specific Conductance (µS/cm)	Percent Error	calibration solution, supplier, exp. Date
Standard Solution Values	1	4.0		710.0		1296		
	2	7.0						
	3	10.0						
Pre-calibration Readings for Each Standard	1	4.11		711.3		1302		
	2	6.99						
	3	9.90				1319		
Post-calibration Readings for Each Standard	1	3.99		710.2				
	2	7.00						
	3	10.02						

Site: CC-01 Weather Flow Visuals

Date: 8/16/20 Conditions:

Total width of creek 6 Sum of segment's widths 6

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft^3/s (w x d x v)	Total Flow Through Creek in ft^3/s
	1	0.3	0.544	0.163	
	1	0.8	1.088	0.870	
	1	0.9	1.328	1.195	
	1	0.9	1.472	1.324	
	1	1.0	1.648	1.648	
	1	1.1	0.441	0.485	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
9:00	27.6	8.23	761	5.39	Y

Conditions Key:

Flow Description : 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces
3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Site: CC-03 Weather Flow Visuals

Date: 8/16/20 Conditions:

Total width of creek 3.3 Sum of segment's widths 3.3

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft^3/s (w x d x v)	Total Flow Through Creek in ft^3/s
	1.1	0.5	1.424	0.783	
	1.1	0.6	1.648	1.087	
	1.1	0.5	1.362	0.749	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
9:30	25.9	8.29	756	6.68	

Conditions Key:

Flow Description : 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces
3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F

Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F

Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Site: STC-01 Weather Flow Visuals

Date: 8/16/20 Conditions:

Total width of creek 2 Sum of segment's widths 2

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft^3/s (w x d x v)	Total Flow Through Creek in ft^3/s
	1	0.6	3.006	1.803	
	1	0.6	3.328	1.996	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
10:00	22.5	8.61	756	7.78	Y

Conditions Key:

Flow Description: 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces
3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Clinical Lab of San Bernardino, Inc. Chain of Custody

WO _____

21881 Barton Road Grand Terrace CA 92313 909 825-7693 / 516-A N 8th St. Lompoc CA 93436 805 737-7300

Client	City of Beaumont
Address:	550 E. 6th St.
	Beaumont, CA. 92223
Client Contact:	
Phone No.:	FAX No.:
System No.:	
Project:	Max Benefits - Beaumont GMZ
Sampled By:	
Comments:	

Email results to: **Ajakher@ci.beaumont.ca.us, ckhunter@dudek.com, sstuart@dudek.com**

Destination Laboratory

[X] Clinical Grand Terrace / ELAP 1088
[ ] Clinical Lompoc / ELAP 1678
[ ] Other:

Date	Time	Sample Identification	Container ID	Matrix	Sample Type	No. of Preserved Cont.										Total Containers	Analysis Requested											Comments	Turn Around Time (TAT)
						Unpreserved	Na2S2O3	NH4Cl	C6H8O6	HNO3	HCl	NaOH	Na2SO3	ZnC4H6O4	ChlorAC		Total Dissolved Solids (SM 2540C)	Nitrate-N (EPA 300.0)	Nitrite-N (EPA 300.0)	Ammonia-N (EPA 350.1)	Alkalinity (inc. HCO3, CO3, and OH	Ca, Mg, K, Na (EPA 200.7)	Sulfate (EPA 300.0)	Specific Conductance (SM 2510B)	pH (SM 4500H+B)	Chloride (EPA 300.0)	Fluoride (EPA 300.0)		
8/16/20	9:00	CC-01	1	SW		X										2	X	X	X	X	X	X	X	X	X	X	X		10
1	9:30	CC-03	3	SW		X										2	X	X	X	X	X	X	X	X	X	X	X		10
1	10:00	STC-01	STC	SW		X										2	X	X	X	X	X	X	X	X	X	X	X		10

Matrix: DW - Drinking Water GW - Ground Water SW - Surface Water W - Water WW - Wastewater SWR - Stormwater Runoff S - Sludge O - Other _____

Use for Bacteria Samples / Sample Type: 1-Routine 2-Repeat 3-Replacement 4-Special D-Distribution W-Well

TAT: (10) Ten Day (5) Five Day Rush (2) Two Day Rush

Relinquished By (Sign)	Print Name / Company	Date / Time	Received By (Sign)	Print Name / Company
	Christen Hunter / Dudek	8/16/20 10:30		

(Lab Use Only) Lompoc Lab Receipt Temp.: _____°C

Shipped Via: [ ] Fed Ex [ ] Golden State Overnight [ ] UPS [ ] OnTrac [ ] USPS [ ] Other _____

Condition: [ ] On Wet Ice [ ] On Blu Ice [ ] Intact [ ] Custody Seals Samples / COC Checked By: _____ Work Order Logged By: _____

Receipt Comments: Clinical Lab Receipt Temp.: _____°C

DUDEK

FIELD CALIBRATION RECORD

Project Name: City of Beaumont

Project Number: 11110.2020

Field Crew: C. Hunter

Signature:

Date of Field Calibration: 8/16/20

Field Location: Beaumont area, CA

Weather Conditions:

Parameter Sensor:

Instr. Type: YSI

Model: 556

Temp (using thermometer): 22.4 Temp (using meter): 23.4

Parameters / Field Measurements								General Description of Standards
		pH	Percent Error	Dissolved Oxygen - Atmospheric Pressure (mmHg)	Percent Error	Specific Condctance (µS/cm)	Percent Error	calibration solution, supplier, exp. Date
Standard Solution Values	1	4.0		712.8		1326		
	2	7.0						
	3	10.0						
Pre-calibration Readings for Each Standard	1	4.02		709.2		1297		
	2	6.95						
	3	9.87						
Post-calibration Readings for Each Standard	1	4.02		711.9		1328		
	2	6.98						
	3	9.99						

Site: CC-01 Weather Flow Visuals

Date: 8/27/20 Conditions:

Total width of creek 5 Sum of segment's widths 5

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft^3/s (w x d x v)	Total Flow Through Creek in ft^3/s
	1	1.1	0.792	0.871	
	1	0.8	1.328	1.062	
	1	0.8	1.568	1.254	
	1	0.7	1.072	0.750	
	1	0.7	0.671	0.469	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
13:00	29.3	8.23	793	5.78	Y

Conditions Key:

Flow Description: 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces
3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Site: CC-03

Date: 8/27/20

Weather Flow Visuals

Conditions:

Total width of creek 6

Sum of segment's widths 6

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft^3/s (w x d x v)	Total Flow Through Creek in ft^3/s
	1	0.3	0.646	0.1938	
	1	0.4	1.114	0.445	
	1	0.4	1.512	0.604	
	1	0.4	1.471	0.588	
	1	0.4	1.403	0.561	
	1	0.4	0.866	0.346	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
12:30	27.1	8.48	782	6.34	Y

Conditions Key:

Flow Description: 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces
3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F

Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F

Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Site: STC-01 Weather Flow Visuals

Date: 8/27/20 Conditions:

Total width of creek 2.2 Sum of segment's widths 2.2

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft^3/s (w x d x v)	Total Flow Through Creek in ft^3/s
	1.1	0.4	2.000	0.88	
	1.1	0.5	2.720	1.496	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
12:00	22.8	8.36	770	7.27	Y

Conditions Key:

Flow Description : 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces
3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F

Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F

Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Clinical Lab of San Bernardino, Inc. Chain of Custody

WO _____

21881 Barton Road Grand Terrace CA 92313 909 825-7693 / 516-A N 8th St. Lompoc CA 93436 805 737-7300

Client	City of Beaumont
Address:	550 E. 6th St.
	Beaumont, CA. 92223
Client Contact:	
Phone No.:	FAX No.:
System No.:	
Project:	Max Benefits - Beaumont GMZ
Sampled By:	C. Hunter
Comments:	

Email results to: **Ajakher@ci.beaumont.ca.us, ckhunter@dudek.com, sstuart@dudek.com**

Destination Laboratory

[X] Clinical Grand Terrace / ELAP 1088
[ ] Clinical Lompoc / ELAP 1678
[ ] Other:

Date	Time	Sample Identification	Container ID	Matrix	Sample Type	No. of Preserved Cont. Unpreserved	Na2S2O3	NH4Cl	C6H8O6	HNO3	HCl	NaOH	Na2SO3	ZnC4H6O4	ChlorAC	Total Containers	Total Dissolved Solids (SM 2540C)	Nitrate-N (EPA 300.0)	Nitrite-N (EPA 300.0)	Ammonia-N (EPA 350.1)	Alkalinity (inc. HCO3, CO3, and OH	Ca, Mg, K, Na (EPA 200.7)	Sulfate (EPA 300.0)	Specific Conductance (SM 2510B)	pH (SM 4500H+B)	Chloride (EPA 300.0)	Fluoride (EPA 300.0)	Comments	Turn Around Time (TAT)
8/29/20	13:00	CC-01	1	SW		X										2	X	X	X	X	X	X	X	X	X	X	X		10
	12:30	CC-03	3	SW		X										2	X	X	X	X	X	X	X	X	X	X	X		10
	12:00	STC-01	STC	SW		X										2	X	X	X	X	X	X	X	X	X	X	X		10

Matrix: DW - Drinking Water GW - Ground Water SW - Surface Water W - Water WW - Wastewater SWR - Stormwater Runoff S - Sludge O - Other _____

Use for Bacteria Samples / Sample Type: 1-Routine 2-Repeat 3-Replacement 4-Special D-Distribution W-Well

TAT: (10) Ten Day (5) Five Day Rush (2) Two Day Rush

Relinquished By (Sign)	Print Name / Company	Date / Time	Received By (Sign)	Print Name / Company
C. Hunter	C. Hunter / Dudek	8/29/20 13:30		

(Lab Use Only) Lompoc Lab Receipt Temp.: _____°C

Shipped Via: [ ] Fed Ex [ ] Golden State Overnight [ ] UPS [ ] OnTrac [ ] USPS [ ] Other _____

Condition: [ ] On Wet Ice [ ] On Blu Ice [ ] Intact [ ] Custody Seals Samples / COC Checked By: _____ Work Order Logged By: _____

Receipt Comments: Clinical Lab Receipt Temp.: _____°C

DUDEK

FIELD CALIBRATION RECORD

Project Name: City of Beaumont

Project Number: 11110.2020

Field Crew: C. Hunter

Signature:

Date of Field Calibration: 8/27/20

Field Location: Beaumont area, CA

Weather Conditions:

Parameter Sensor:

Instr. Type: YSI

Model: 556

Temp (using thermometer): 22.1 Temp (using meter): 23.2

Parameters / Field Measurements								General Description of Standards
		pH	Percent Error	Dissolved Oxygen - Atmospheric Pressure (mmHg)	Percent Error	Specific Conductance (µS/cm)	Percent Error	calibration solution, supplier, exp. Date
Standard Solution Values	1	4.0		710.5		1259		
	2	7.0						
	3	10.0						
Pre-calibration Readings for Each Standard	1	4.03		710.9		1330		
	2	7.13						
	3	10.02						
Post-calibration Readings for Each Standard	1	4.01		712.0		1326		
	2	7.01						
	3	9.99						

Site: CC-01

Date: 9/12/20

Weather Flow Visuals

Conditions:

Total width of creek 5

Sum of segment's widths 5

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft^3/s (w x d x v)	Total Flow Through Creek in ft^3/s
	1.1	0.7	0.992	0.763	
	1.1	1.2	1.429	1.879	
	1.1	1.1	1.782	2.156	
	1.1	1.2	1.734	2.288	
	1.1	1.3	1.161	1.660	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
13:00	28.0	8.22	817	6.01	Y

Conditions Key:

Flow Description : 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces
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Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Site: CC-03

Date: 9/12/20

Weather Flow Visuals

Conditions:

Total width of creek 3.3

Sum of segment's widths 3.3

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft^3/s (w x d x v)	Total Flow Through Creek in ft^3/s
	1.1	0.8	2.789	2.454	
	1.1	0.9	2.994	2.964	
	1.1	0.7	2.313	1.781	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
12:15	26.1	8.47	795	6.62	Y

Conditions Key:

Flow Description : 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces
3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Site: STC-01 Weather Flow Visuals

Date: 9/12/20 Conditions:

Total width of creek 2.2 Sum of segment's widths 2.2

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft^3/s (w x d x v)	Total Flow Through Creek in ft^3/s
	1.1	0.4	1.856	0.816	
	1.1	0.5	2.768	1.522	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
11:30	19.8	8.37	772	8.09	Y

Conditions Key:

Flow Description : 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces
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Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Clinical Lab of San Bernardino, Inc. Chain of Custody

WO _____

21881 Barton Road Grand Terrace CA 92313 909 825-7693 / 516-A N 8th St. Lompoc CA 93436 805 737-7300

Client	City of Beaumont
Address:	550 E. 6th St.
	Beaumont, CA. 92223
Client Contact:	
Phone No.:	FAX No.:
System No.:	
Project:	Max Benefits - Beaumont GMZ
Sampled By:	C. Hunter
Comments:	

Email results to: **Ajakher@ci.beaumont.ca.us, ckhunter@dudek.com, sstuart@dudek.com**

Destination Laboratory

[X] Clinical Grand Terrace / ELAP 1088
[ ] Clinical Lompoc / ELAP 1678
[ ] Other:

Date	Time	Sample Identification	Container ID	Matrix	Sample Type	No. of Preserved Cont.										Total Containers	Analysis Requested												Turn Around Time (TAT)
						Unpreserved	Na2S2O3	NH4Cl	C6H8O6	HNO3	HCl	NaOH	Na2SO3	ZnC4H6O4	ChlorAC		Total Dissolved Solids (SM 2540C)	Nitrate-N (EPA 300.0)	Nitrite-N (EPA 300.0)	Ammonia-N (EPA 350.1)	Alkalinity (inc. HCO3, CO3, and OH	Ca, Mg, K, Na (EPA 200.7)	Sulfate (EPA 300.0)	Specific Conductance (SM 2510B)	pH (SM 4500H+B)	Chloride (EPA 300.0)	Fluoride (EPA 300.0)	Comments	
9/12/20	13:00	CC-01	1	SW		X										2	X	X	X	X	X	X	X	X	X	X	X		10
	12:15	CC-03	3	SW		X										2	X	X	X	X	X	X	X	X	X	X	X		10
	11:30	STC-01	STC	SW		X										2	X	X	X	X	X	X	X	X	X	X	X		10

Matrix: DW - Drinking Water GW - Ground Water SW - Surface Water W - Water WW - Wastewater SWR - Stormwater Runoff S - Sludge O - Other _____

Use for Bacteria Samples / Sample Type: 1-Routine 2-Repeat 3-Replacement 4-Special D-Distribution W-Well

TAT: (10) Ten Day (5) Five Day Rush (2) Two Day Rush

Relinquished By (Sign)	Print Name / Company	Date / Time	Received By (Sign)	Print Name / Company
	C. Hunter / Dudek	9/12/20 13:30		

(Lab Use Only) Lompoc Lab Receipt Temp.: _____°C

Shipped Via: [ ] Fed Ex [ ] Golden State Overnight [ ] UPS [ ] OnTrac [ ] USPS [ ] Other _____

Condition: [ ] On Wet Ice [ ] On Blu Ice [ ] Intact [ ] Custody Seals Samples / COC Checked By: _____ Work Order Logged By: _____

Receipt Comments: Clinical Lab Receipt Temp.: _____°C

DUDEK

FIELD CALIBRATION RECORD

Project Name: City of Beaumont

Project Number: 11110.2020

Field Crew: C. Hunter

Signature: [signature]

Date of Field Calibration: 9/12/20

Field Location: Beaumont area, CA

Weather Conditions:

Parameter Sensor:

Instr. Type: YSI

Model: 556

Temp (using thermometer): 22.4 Temp (using meter): 23.4

Parameters / Field Measurements								General Description of Standards
		pH	Percent Error	Dissolved Oxygen - Atmospheric Pressure (mmHg)	Percent Error	Specific Conductance (µS/cm)	Percent Error	calibration solution, supplier, exp. Date
Standard Solution Values	1	4.0		712.1		1302		
	2	7.0						
	3	10.0						
Pre-calibration Readings for Each Standard	1	3.91		714.0		1318		
	2	7.09						
	3	9.83						
Post-calibration Readings for Each Standard	1	4.03		711.9		1307		
	2	6.99						
	3	10.01						

Site: CC-01 Weather Flow Visuals

Date: 9/22/20 Conditions:

Total width of creek 6 Sum of segment's widths 6

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft^3/s (w x d x v)	Total Flow Through Creek in ft^3/s
	1	0.3	0.748	0.224	
	1	0.9	1.255	1.129	
	1	0.9	1.64	1.476	
	1	1.0	1.59	1.59	
	1	1.2	1.057	1.268	
	1	1.3	1.184	1.539	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
17:30	29.1	8.28	780	5.77	Y

Conditions Key:

Flow Description : 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces
3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Site: CC-03 Weather Flow Visuals

Date: 9/22/20 Conditions:

Total width of creek 3.3 Sum of segment's widths 3.3

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft^3/s (w x d x v)	Total Flow Through Creek in ft^3/s
	1.1	0.8	2.673	2.352	
	1.1	0.9	2.759	2.761	
	1.1	0.7	2.313	1.781	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
16:45	27.9	8.70	796	6.18	Y

Conditions Key:

Flow Description : 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces
3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Site: STC-01 Weather Flow Visuals

Date: 9/22/20 Conditions:

Total width of creek 3.3 Sum of segment's widths 3.3

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft^3/s (w x d x v)	Total Flow Through Creek in ft^3/s
	1.1	0.7	1.751	0.577	
	1.1	0.5	2.724	1.223	
	1.1	0.5	3.041	1.672	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
14:20	23.1	8.41	759	7.21	Y

Conditions Key:

Flow Description: 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces
3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Comments:

Clinical Lab of San Bernardino, Inc. Chain of Custody

WO _____

21881 Barton Road Grand Terrace CA 92313 909 825-7693 / 516-A N 8th St. Lompoc CA 93436 805 737-7300

Client	City of Beaumont
Address:	550 E. 6th St.
	Beaumont, CA. 92223
Client Contact:	
Phone No.:	FAX No.:
System No.:	
Project:	Max Benefits - Beaumont GMZ
Sampled By:	C. Hunter
Comments:	

Email results to: **Ajakher@ci.beaumont.ca.us, ckhunter@dudek.com, sstuart@dudek.com**

Destination Laboratory

[X] Clinical Grand Terrace / ELAP 1088
[ ] Clinical Lompoc / ELAP 1678
[ ] Other:

Date	Time	Sample Identification	Container ID	Matrix	Sample Type	No. of Preserved Cont. Unpreserved	Na2S2O3	NH4Cl	C6H8O6	HNO3	HCl	NaOH	Na2SO3	ZnC4H6O4	ChlorAC	Total Containers	Total Dissolved Solids (SM 2540C)	Nitrate-N (EPA 300.0)	Nitrite-N (EPA 300.0)	Ammonia-N (EPA 350.1)	Alkalinity (inc. HCO3, CO3, and OH	Ca, Mg, K, Na (EPA 200.7)	Sulfate (EPA 300.0)	Specific Conductance (SM 2510B)	pH (SM 4500H+B)	Chloride (EPA 300.0)	Fluoride (EPA 300.0)	Comments	Turn Around Time (TAT)
9/22/20	17:30	CC-01	1	SW		X										2	X	X	X	X	X	X	X	X	X	X	X		10
	16:45	CC-03	3	SW		X										2	X	X	X	X	X	X	X	X	X	X	X		10
	16:00	STC-01	STC	SW		X										2	X	X	X	X	X	X	X	X	X	X	X		10

Matrix: DW - Drinking Water GW - Ground Water SW - Surface Water W - Water WW - Wastewater SWR - Stormwater Runoff S - Sludge O - Other _____

Use for Bacteria Samples / Sample Type: 1-Routine 2-Repeat 3-Replacement 4-Special D-Distribution W-Well

TAT: (10) Ten Day (5) Five Day Rush (2) Two Day Rush

Relinquished By (Sign)	Print Name / Company	Date / Time	Received By (Sign)	Print Name / Company
	C. Hunter / Dudek	9/23/20 14:00		

(Lab Use Only) Lompoc Lab Receipt Temp.: _____°C

Shipped Via: [ ] Fed Ex [ ] Golden State Overnight [ ] UPS [ ] OnTrac [ ] USPS [ ] Other _____

Condition: [ ] On Wet Ice [ ] On Blu Ice [ ] Intact [ ] Custody Seals Samples / COC Checked By: _____ Work Order Logged By: _____

Receipt Comments: Clinical Lab Receipt Temp.: _____°C

DUDEK

FIELD CALIBRATION RECORD

Project Name: City of Beaumont

Project Number: 11110.2020

Field Crew: C. Hunter

Signature:

Date of Field Calibration: 9/22/20

Field Location: Beaumont area, CA

Weather Conditions:

Parameter Sensor:

Instr. Type: YSI

Model: 556

Temp (using thermometer): 22.5 Temp (using meter): 23.7

Parameters / Field Measurements								General Description of Standards
		pH	Percent Error	Dissolved Oxygen - Atmospheric Pressure (mmHg)	Percent Error	Specific Condctance (µS/cm)	Percent Error	calibration solution, supplier, exp. Date
Standard Solution Values	1	4.0		712.1		1339		
	2	7.0						
	3	10.0						
Pre-calibration Readings for Each Standard	1	4.08		713.6		1260		
	2	6.89						
	3	9.80						
Post-calibration Readings for Each Standard	1	3.97		712.0		1338		
	2	7.02						
	3	10.03						

Site: CC-01 Weather Flow Visuals

Date: 10/10/20 Conditions:

Total width of creek 6.6 Sum of segment's widths 6.6

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft^3/s (w x d x v)	Total Flow Through Creek in ft^3/s
	1.1	1.0	0.607	0.667	
	1.1	1.0	1.057	1.162	
	1.1	1.0	1.472	1.619	
	1.1	1.0	1.472	1.619	
	1.1	0.9	1.01	0.999	
	1.1	0.7	0.358	0.275	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
18:00	28.3	8.3	736	5.86	Y

Conditions Key:

Flow Description : 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces
3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Site: CC-03 Weather Flow Visuals

Date: 10/10/20 Conditions:

Total width of creek 6 Sum of segment's widths 6

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft^3/s (w x d x v)	Total Flow Through Creek in ft^3/s
	1	0.7	0.463	0.324	
	1	0.9	0.973	0.875	
	1	0.9	1.924	1.731	
	1	1.1	2.000	2.2	
	1	1.1	1.553	1.708	
	1	0.5	1.450	0.725	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
17:15	26.5	8.46	808	6.19	Y

Conditions Key:

Flow Description : 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces
3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Site: STC-01 Weather Flow Visuals

Date: 10/10/20 Conditions:

Total width of creek 4.4 Sum of segment's widths 4.4

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft^3/s (w x d x v)	Total Flow Through Creek in ft^3/s
	1.1	0.8	1.924	1.693	
	1.1	0.6	2.313	1.576	
	1.1	0.5	2.676	1.471	
	1.1	0.3	1.057	0.348	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
16:30	20.7	8.39	736	7.41	1

Conditions Key:

Flow Description : 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces
3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Clinical Lab of San Bernardino, Inc. Chain of Custody

WO _____

21881 Barton Road Grand Terrace CA 92313 909 825-7693 / 516-A N 8th St. Lompoc CA 93436 805 737-7300

Client	City of Beaumont	Destination Laboratory
Address:	550 E. 6th St.	[X] Clinical Grand Terrace / ELAP 1088
	Beaumont, CA. 92223	[ ] Clinical Lompoc / ELAP 1678
Client Contact:		[ ] Other:
Phone No.:	FAX No.:	
System No.:		
Project:	Max Benefits - Beaumont GMZ	
Sampled By:	C Hunter	
Comments:		

E-mail results to: **Ajakher@ci.beaumont.ca.us, ckhunter@dudek.com, stuart@dudek.com**

Date	Time	Sample Identification	Container ID	Matrix	Sample Type	No. of Preserved Cont. Unpreserved	Na2S2O3	NH4Cl	C6H8O6	HNO3	HCl	NaOH	Na2SO3	ZnC4H6O4	CH3OAC	Total Containers	Total Dissolved Solids (SM 2540C)	Nitrate-N (EPA 300.0)	Nitrite-N (EPA 300.0)	Ammonia-N (EPA 350.1)	Alkalinity (inc. HCO3, CO3, and OH)	Ca, Mg, K, Na (EPA 200.7)	Sulfate (EPA 300.0)	Specific Conductance (SM 2510B)	pH (SM 4500H+B)	Chloride (EPA 300.0)	Fluoride (EPA 300.0)	Comments	Turn Around Time (TAT)
10/10/22	18:00	CC-01	1	SW		X										2	X	X	X	X	X	X	X	X	X	X	X		10
	12:15	CC-03	3	SW		X										2	X	X	X	X	X	X	X	X	X	X	X		10
	16:50	STC-01	STC	SW		X										2	X	X	X	X	X	X	X	X	X	X	X		10

Matrix: DW - Drinking Water GW - Ground Water SW - Surface Water W - Water WW - Wastewater SWR - Stormwater Runoff S - Sludge O - Other _____

Use for Bacteria Samples / Sample Type: 1-Routine 2-Repeat 3-Replacement 4-Special D-Distribution W-Well TAT: (10) Ten Day (5) Five Day Rush (2) Two Day Rush

Relinquished By (Sign)	Print Name / Company	Date / Time	Received By (Sign)	Print Name / Company
C Hunter	C Hunter / Dudek	10/10/22 19:00		

(Lab Use Only) Lompoc Lab Receipt Temp.: _____ °C

Shipped Via: [ ] Fed Ex [ ] Golden State Overnight [ ] UPS [ ] OnTrac [ ] USPS [ ] Other _____

Condition: [ ] On Wet Ice [ ] On Blu Ice [ ] Intact [ ] Custody Seals Samples / COC Checked By: _____ Work Order Logged By: _____

Receipt Comments: Clinical Lab Receipt Temp.: _____ °C

DUDEK

FIELD CALIBRATION RECORD

Project Name: City of Beaumont

Project Number: 11110.2020

Field Crew: C. Hunter

Signature: [signature]

Date of Field Calibration: 10/10/20

Field Location: Beaumont area, CA

Weather Conditions:

Parameter Sensor:

Instr. Type: YSI

Model: 556

Temp (using thermometer): 22.2 Temp (using meter): 23.3

Parameters / Field Measurements								General Description of Standards
		pH	Percent Error	Dissolved Oxygen - Atmospheric Pressure (mmHg)	Percent Error	Specific Conductance (µS/cm)	Percent Error	calibration solution, supplier, exp. Date
Standard Solution Values	1	4.0		711.6		1319		
	2	7.0						
	3	10.0						
Pre-calibration Readings for Each Standard	1	3.87		711.5		1265		
	2	7.01						
	3	10.01						
Post-calibration Readings for Each Standard	1	4.01		711.6		1322		
	2	7.02						
	3	10.03						

Site: CC-01

Weather Flow Visuals

Date: 11/3/20

Conditions:

Total width of creek 6.6

Sum of segment's widths 6.6

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft^3/s (w x d x v)	Total Flow Through Creek in ft^3/s
	1.1	0.8	0.715	0.658	
	1.1	0.7	1.025	0.789	
	1.1	0.8	1.349	1.187	
	1.1	0.8	1.424	1.253	
	1.1	0.8	1.13	0.994	
	1.1	0.4	0.511	0.224	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
13:30	27.3	8.13	787	6.17	Y

Conditions Key:

Flow Description : 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces
3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Site: CC-03

Date: 11/3/20

Weather Flow Visuals

Conditions:

Total width of creek 5.5

Sum of segment's widths 5.5

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft^3/s (w x d x v)	Total Flow Through Creek in ft^3/s
	1.1	0.5	0.930	0.511	
	1.1	0.8	2.018	1.775	
	1.1	0.6	1.904	1.256	
	1.1	0.6	1.664	1.098	
	1.1	0.7	1.208	0.930	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
12:45	24.8	8.38	589	6.62	Y

Conditions Key:

Flow Description : 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces
3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Site: STC-01

Date: 11/3/20

Weather Flow Visuals

Conditions:

Total width of creek 4

Sum of segment's widths 4

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft^3/s (w x d x v)	Total Flow Through Creek in ft^3/s
	1	0.5	1.035	0.517	
	1	0.4	1.512	0.604	
	1	0.3	1.437	0.431	
	1	0.2	0.463	0.092	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
12:00	18.1	8.3	752	8.01	Y

Conditions Key:

Flow Description : 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces
3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Clinical Lab of San Bernardino, Inc. Chain of Custody

WO _____

21881 Barton Road Grand Terrace CA 92313 909 825-7693 / 516-A N 8th St. Lompoc CA 93436 805 737-7300

Client	City of Beaumont
Address:	550 E. 6th St.
	Beaumont, CA. 92223
Client Contact:	
Phone No.:	FAX No.:
System No.:	
Project:	Max Benefits - Beaumont GMZ
Sampled By:	C. Hunter
Comments:	

Email results to: Ajakher@ci.beaumont.ca.us, ckhunter@dudek.com, sstuart@dudek.com

Destination Laboratory

[X] Clinical Grand Terrace / ELAP 1088
[ ] Clinical Lompoc / ELAP 1678
[ ] Other:

Date	Time	Sample Identification	Container ID	Matrix	Sample Type	No. of Preserved Cont.										Total Containers	Analysis Requested											Comments	Turn Around Time (TAT)
						Unpreserved	Na2S2O3	NH4Cl	C6H8O6	HNO3	HCl	NaOH	Na2SO3	ZnC4H6O4	ChlorAC		Total Dissolved Solids (SM 2540C)	Nitrate-N (EPA 300.0)	Nitrite-N (EPA 300.0)	Ammonia-N (EPA 350.1)	Alkalinity (inc. HCO3, CO3, and OH	Ca, Mg, K, Na (EPA 200.7)	Sulfate (EPA 300.0)	Specific Conductance (SM 2510B)	pH (SM 4500H+B)	Chloride (EPA 300.0)	Fluoride (EPA 300.0)		
11/3/20	13:30	CC-01	1	SW		X										2	X	X	X	X	X	X	X	X	X	X	X		10
1	12:45	CC-03	3	SW		X										2	X	X	X	X	X	X	X	X	X	X	X		10
1	12:00	STC-01	STC	SW		X										2	X	X	X	X	X	X	X	X	X	X	X		10

Matrix: DW - Drinking Water GW - Ground Water SW - Surface Water W - Water WW - Wastewater SWR - Stormwater Runoff S - Sludge O - Other _____

Use for Bacteria Samples / Sample Type: 1-Routine 2-Repeat 3-Replacement 4-Special D-Distribution W-Well

TAT: (10) Ten Day (5) Five Day Rush (2) Two Day Rush

Relinquished By (Sign)	Print Name / Company	Date / Time	Received By (Sign)	Print Name / Company
	C. Hunter / Dudek	11/3/20 14:00		

(Lab Use Only) Lompoc Lab Receipt Temp.: _____°C

Shipped Via: [ ] Fed Ex [ ] Golden State Overnight [ ] UPS [ ] OnTrac [ ] USPS [ ] Other _____

Condition: [ ] On Wet Ice [ ] On Blu Ice [ ] Intact [ ] Custody Seals Samples / COC Checked By: _____ Work Order Logged By: _____

Receipt Comments: Clinical Lab Receipt Temp.: _____°C

DUDEK

FIELD CALIBRATION RECORD

Project Name: City of Beaumont

Project Number: 11110.2020

Field Crew: C. Hunter

Signature:

Date of Field Calibration: 11/3/20

Field Location: Beaumont area, CA

Weather Conditions:

Parameter Sensor:

Instr. Type: YSI

Model: 556

Temp (using thermometer): 22.3 Temp (using meter): 23.2

Parameters / Field Measurements								General Description of Standards
		pH	Percent Error	Dissolved Oxygen - Atmospheric Pressure (mmHg)	Percent Error	Specific Conductance (µS/cm)	Percent Error	calibration solution, supplier, exp. Date
Standard Solution Values	1	4.0		712.1		1305		
	2	7.0						
	3	10.0						
Pre-calibration Readings for Each Standard	1	4.06		711.4		1391		
	2	6.83						
	3	10.03						
Post-calibration Readings for Each Standard	1	4.00		712.1		1308		
	2	7.02						
	3	9.98						

Site: CC-01 Weather Flow Visuals

Date: 11/10/20 Conditions:

Total width of creek 6.6 Sum of segment's widths 6.6

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft^3/s (w x d x v)	Total Flow Through Creek in ft^3/s
	1.1	0.9	0.921	0.911	
	1.1	0.9	1.362	1.498	
	1.1	1.0	1.41	1.551	
	1.1	1.0	0.959	0.949	
	1.1	0.9	0.415	0.319	
	1.1	0.7	0.364	0.160	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
15:45	24.7	-	603	6.22	Y

Conditions Key:

Flow Description: 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces
3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Comments:

pH bulb broken

Site: CC-03

Date: 11/10/20

Weather Flow Visuals

Conditions:

Total width of creek 5.5

Sum of segment's widths 5.5

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft^3/s (w x d x v)	Total Flow Through Creek in ft^3/s
	1.1	0.4	2.072	0.160	
	1.1	0.7	1.876	1.598	
	1.1	0.6	1.376	1.238	
	1.1	0.6	0.674	0.908	
	1.1	0.4	0.364	0.296	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
14:45	21.1	5.82	593	7.91	Y

Conditions Key:

Flow Description : 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces
3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F

Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F

Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Site: STC-01 Weather Flow Visuals

Date: 11/10/20 Conditions:

Total width of creek 4 Sum of segment's widths 4

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft^3/s (w x d x v)	Total Flow Through Creek in ft^3/s
	1	0.65	1.687	1.096	
	1	0.6	1.743	1.045	
	1	0.7	1.695	0.678	
	1	0.2	0.944	0.188	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
13:30	14.1	8.18	763	9.1	Y

Conditions Key:

Flow Description : 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces
3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

0/0/14

Clinical Lab of San Bernardino, Inc. Chain of Custody

WO 20K1074

21881 Barton Road Grand Terrace CA 92313 909 825-7693 / 516-A N 8th St. Lompoc CA 93436 805 737-7300

Client	City of Beaumont
Address:	550 E. 6th St.
	Beaumont, CA 92223
Client Contact:	Thaxton VanBelle
Phone No.:	951-769-8520 FAX No.: 951-769-8526
System No.:	
Project:	Max Benefits - Beaumont GMZ
Sampled By:	
Comments:	

Email results to: TVanBelle@beaumontca.gov, ckhunter@dudek.com, sstuart@dudek.com

Destination Laboratory

[X] Clinical Grand Terrace / ELAP 1088
[ ] Clinical Lompoc / ELAP 1678
[ ] Other:

Date	Time	Sample Identification	Container ID	Matrix	Sample Type	No. of Preserved Cont. Unpreserved	Na2S2O3	NH4Cl	C6H8O6	HNO3	HCl	NaOH	Na2SO3	ZnC4H6O4	ChlorAC	Total Containers	Total Dissolved Solids (SM 2540C)	Nitrate-N (EPA 300.0)	Nitrite-N (EPA 300.0)	Ammonia-N (EPA 350.1)	Alkalinity (inc. HCO3, CO3, and OH	Ca, Mg, K, Na (EPA 200.7)	Sulfate (EPA 300.0)	Specific Conductance (SM 2510B)	pH (SM 4500H+B)	Chloride (EPA 300.0)	Fluoride (EPA 300.0)	Silica (EPA 200.7)	Comments	Turn Around Time (TAT)
11/10/20	11:30	Henry Schwankert	HS	GW		X										2	X	X	X	X	X	X	X	X	X	X	X	X		10
	13:00	SanTim-1	ST1	GW		X										2	X	X	X	X	X	X	X	X	X	X	X	X		10
	13:30	SanTim-2B/1	2B1	GW		X										2	X	X	X	X	X	X	X	X	X	X	X	X		10
	14:00	SanTim-2B/2	2B2	GW		X										2	X	X	X	X	X	X	X	X	X	X	X	X		10
	15:45	CC-01	1	GW		X										2	X	X	X	X	X	X	X	X	X	X	X	X	2 (4)	10
	14:45	CC-03	3	GW		X										2	X	X	X	X	X	X	X	X	X	X	X	X	3	10
	12:30	STC-01	STC	GW		X										2	X	X	X	X	X	X	X	X	X	X	X	X	3	10

Matrix: DW - Drinking Water GW - Ground Water SW - Surface Water W - Water WW - Wastewater SWR - Stormwater Runoff S - Sludge O - Other

Use for Bacteria Samples / Sample Type: 1-Routine 2-Repeat 3-Replacement 4-Special D-Distribution W-Well

TAT: (10) Ten Day (5) Five Day Rush (2) Two Day Rush

Relinquished By (Sign)	Print Name / Company	Date / Time	Received By (Sign)	Print Name / Company
C. Hunter	C. Hunter Dudek	11/10/20 16:15	M. Salazar	Mike/CLSB
M. Salazar	Mike/CLSB	1:39		
		11-11-20 15:26		Jeanette Hernandez/CLSB

(Lab Use Only) Lompoc Lab Receipt Temp.: _____°C

Shipped Via: [ ] Fed Ex [ ] Golden State Overnight [ ] UPS [ ] OnTrac [ ] USPS [ ] Other _____

Condition: [X] On Wet Ice [ ] On Blu Ice [X] Intact [ ] Custody Seals Samples / COC Checked By: _____ Work Order Logged By: _____

Receipt Comments: Clinical Lab Receipt Temp.: _____°C

5.1 °C

DUDEK

FIELD CALIBRATION RECORD

Project Name: City of Beaumont

Project Number: 11110.2020

Field Crew: C. Hunter

Signature: Chris Kidd

Date of Field Calibration: 11/10/20

Field Location: Beaumont area, CA

Weather Conditions:

Parameter Sensor:

Instr. Type: YSI

Model: 556

Temp (using thermometer): 22.6 Temp (using meter): 23.6

Parameters / Field Measurements								General Description of Standards
		pH	Percent Error	Dissolved Oxygen - Atmospheric Pressure (mmHg)	Percent Error	Specific Conductance (µS/cm)	Percent Error	calibration solution, supplier, exp. Date
Standard Solution Values	1	4.0		712.7		1345		
	2	7.0						
	3	10.0						
Pre-calibration Readings for Each Standard	1	4.09		711.0		1362		
	2	6.88						
	3	10.09				1322		
Post-calibration Readings for Each Standard	1	4.00		712.9				
	2	7.01						
	3	10.01						

Site: CC-01

Date: 11/25/20

Weather Flow Visuals

Conditions:

Total width of creek 6.6

Sum of segment's widths 6.6

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft^3/s (w x d x v)	Total Flow Through Creek in ft^3/s
	1.1	0.9	1.035	1.024	
	1.1	0.9	1.362	1.348	
	1.1	1.0	1.512	1.663	
	1.1	1.0	1.876	2.063	
	1.1	0.9	0.921	0.911	
	1.1	0.7	0.674	0.518	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
16:00	25.0	7.91	483	6.81	Y

Conditions Key:

Flow Description : 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces
3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F

Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F

Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Site: CC-03 Weather Flow Visuals

Date: 11/25/20 Conditions:

Total width of creek 5.5 Sum of segment's widths 5.5

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft^3/s (w x d x v)	Total Flow Through Creek in ft^3/s
	1.1	0.6	0.415	0.273	
	1.1	1.0	0.921	1.013	
	1.1	0.8	2.076	1.826	
	1.1	0.6	1.437	0.948	
	1.1	0.5	0.959	0.527	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
14:45	22.0	8.22	533	7.14	Y

Conditions Key:

Flow Description: 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces
3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Site: STC-01 Weather Flow Visuals

Date: 11/25/20 Conditions:

Total width of creek 4 Sum of segment's widths 4

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft^3/s (w x d x v)	Total Flow Through Creek in ft^3/s
	1	0.8	2.676	2.140	
	1	0.6	2.313	1.387	
	1	0.5	1.743	0.871	
	1	0.3	0.959	0.287	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
15:00	15.0	8.35	661	8.89	Y

Conditions Key:

Flow Description : 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces
3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Clinical Lab of San Bernardino, Inc. Chain of Custody

WO _____

21881 Barton Road Grand Terrace CA 92313 909 825-7693 / 516-A N 8th St. Lompoc CA 93436 805 737-7300

Client	City of Beaumont
Address:	550 E. 6th St.
	Beaumont, CA. 92223
Client Contact:	
Phone No.:	FAX No.:
System No.:	
Project:	Max Benefits - Beaumont GMZ
Sampled By:	C.Hunter
Comments:	

Email results to: **Ajakher@ci.beaumont.ca.us, ckhunter@dudek.com, sstuart@dudek.com**

Destination Laboratory

[X] Clinical Grand Terrace / ELAP 1088
[ ] Clinical Lompoc / ELAP 1678
[ ] Other:

Date	Time	Sample Identification	Container ID	Matrix	Sample Type	No. of Preserved Cont. Unpreserved	Na2S2O3	NH4Cl	C6H8O6	HNO3	HCl	NaOH	Na2SO3	ZnC4H6O4	ChlorAC	Total Containers	Total Dissolved Solids (SM 2540C)	Nitrate-N (EPA 300.0)	Nitrite-N (EPA 300.0)	Ammonia-N (EPA 350.1)	Alkalinity (inc. HCO3, CO3, and OH	Ca, Mg, K, Na (EPA 200.7)	Sulfate (EPA 300.0)	Specific Conductance (SM 2510B)	pH (SM 4500H+B)	Chloride (EPA 300.0)	Fluoride (EPA 300.0)	Comments	Turn Around Time (TAT)
11/25/20	16:00	CC-01	1	SW		X										2	X	X	X	X	X	X	X	X	X	X	X		10
	14:45	CC-03	3	SW		X										2	X	X	X	X	X	X	X	X	X	X	X		10
	15:00	STC-01	STC	SW		X										2	X	X	X	X	X	X	X	X	X	X	X		10

Matrix: DW - Drinking Water GW - Ground Water SW - Surface Water W - Water WW - Wastewater SWR - Stormwater Runoff S - Sludge O - Other _____

Use for Bacteria Samples / Sample Type: 1-Routine 2-Repeat 3-Replacement 4-Special D-Distribution W-Well

TAT: (10) Ten Day (5) Five Day Rush (2) Two Day Rush

Relinquished By (Sign)	Print Name / Company	Date / Time	Received By (Sign)	Print Name / Company
	C.Hunter / Dudek	11/25/20 16:15		

(Lab Use Only) Lompoc Lab Receipt Temp.: _____°C

Shipped Via: [ ] Fed Ex [ ] Golden State Overnight [ ] UPS [ ] OnTrac [ ] USPS [ ] Other _____

Condition: [ ] On Wet Ice [ ] On Blu Ice [ ] Intact [ ] Custody Seals Samples / COC Checked By: _____ Work Order Logged By: _____

Receipt Comments: Clinical Lab Receipt Temp.: _____°C

DUDEK

FIELD CALIBRATION RECORD

Project Name: City of Beaumont

Project Number: 11110.2020

Field Crew: C. Hunter

Signature: [signature]

Date of Field Calibration: 11/25/20

Field Location: Beaumont area, CA

Weather Conditions:

Parameter Sensor:

Instr. Type: YSI

Model: 556

Temp (using thermometer): 22.7 Temp (using meter): 23.4

Parameters / Field Measurements								General Description of Standards
		pH	Percent Error	Dissolved Oxygen - Atmospheric Pressure (mmHg)	Percent Error	Specific Condctance (µS/cm)	Percent Error	calibration solution, supplier, exp. Date
Standard Solution Values	1	4.0		712.1		1316		
	2	7.0						
	3	10.0						
Pre-calibration Readings for Each Standard	1	3.90		712.4		1319		
	2	6.96						
	3	10.14						
Post-calibration Readings for Each Standard	1	4.02		712.2		1314		
	2	6.97						
	3	9.98						

Site: CC-01 Weather Flow Visuals

Date: 12/10/20 Conditions:

Total width of creek 7.7 Sum of segment's widths 7.7

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft^3/s (w x d x v)	Total Flow Through Creek in ft^3/s
	1.1	1.0	0.532	0.585	
	1.1	0.9	0.748	0.740	
	1.1	1.0	0.957	1.085	
	1.1	0.9	1.119	1.107	
	1.1	0.9	1.156	1.144	
	1.1	1.0	1.015	1.116	
	1.1	0.9	0.703	0.695	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
16:15	23.5	7.82	423	6.5	Y

Conditions Key:

Flow Description : 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces
3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T	W-0-T sunny	W-2-T cloudy	W-X-0 = < 30° F	W-X-3 = 50-60° F	W-X-6 = 80-90° F
Wind - Y, N	W-1-T few clouds	W-3-T raining	W-X-1 = 30-40° F	W-X-4 = 60-70° F	W-X-7 = 90-100° F
Comments:			W-X-2 = 40-50° F	W-X-5 = 70-80° F	W-X-8 = > 100° F

Site: CC-03

Date: 12/10/20

Weather Flow Visuals

Conditions:

Total width of creek 6

Sum of segment's widths 6

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft^3/s (w x d x v)	Total Flow Through Creek in ft^3/s
	1	0.9	1.6	1.44	
	1	1.0	1.276	1.276	
	1	0.8	1.695	1.356	
	1	0.6	1.560	0.936	
	1	0.5	1.417	0.708	
	1	0.3	0.387	0.116	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
15:45	20.8	8.04	535	6.92	Y

Conditions Key:

Flow Description : 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces
3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Comments:

Site: STC-01

Date: 12/10/20

Weather Flow Visuals

Conditions:

Total width of creek 4

Sum of segment's widths 4

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft^3/s (w x d x v)	Total Flow Through Creek in ft^3/s
	1	0.8	1.424	1.139	
	1	0.6	1.255	0.753	
	1	0.7	1.22	0.488	
	1	0.3	0.8	0.240	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
15:00	15.0	8.35	669	8.89	Y

Conditions Key:

Flow Description : 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces
3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Comments:

0/8/6

Clinical Lab of San Bernardino, Inc. Chain of Custody

WO 201129

21881 Barton Road Grand Terrace CA 92313 909 825-7693 / 516-A N 8th St. Lompoc CA 93436 805 737-7300

Client	City of Beaumont
Address:	550 E. 6th St.
	Beaumont, CA. 92223
Client Contact:	
Phone No.:	FAX No.:
System No.:	
Project:	Max Benefits - Beaumont GMZ
Sampled By:	C Hunter
Comments:	

Email results to: Ajakher@ci.beaumont.ca.us, ckhunter@dudek.com, sstuart@dudek.com

Destination Laboratory

[X] Clinical Grand Terrace / ELAP 1088
[ ] Clinical Lompoc / ELAP 1678
[ ] Other:

Analysis Requested

Date	Time	Sample Identification	Container ID	Matrix	Sample Type	Unpreserved	Na2S2O3	NH4Cl	C6H8O6	HNO3	HCl	NaOH	Na2SO3	ZnC4H6O4	ChlorAC	Total Containers	Total Dissolved Solids (SM 2540C)	Nitrate-N (EPA 300.0)	Nitrite-N (EPA 300.0)	Ammonia-N (EPA 350.1)	Alkalinity (inc. HCO3, CO3, and OH	Ca, Mg, K, Na (EPA 200.7)	Sulfate (EPA 300.0)	Specific Conductance (SM 2510B)	pH (SM 4500H+B)	Chloride (EPA 300.0)	Fluoride (EPA 300.0)	Comments	Turn Around Time (TAT)
12/10/20	16:15	CC-01	1	SW		X										2	X	X	X	X	X	X	X	X	X	X	X		10
|	15:45	CC-03	3	SW		X										2	X	X	X	X	X	X	X	X	X	X	X		10
|	15:00	STC-01	STC	SW		X										2	X	X	X	X	X	X	X	X	X	X	X		10

Matrix: DW - Drinking Water GW - Ground Water SW - Surface Water W - Water WW - Wastewater SWR - Stormwater Runoff S - Sludge O - Other

Use for Bacteria Samples / Sample Type: 1-Routine 2-Repeat 3-Replacement 4-Special D-Distribution W-Well

TAT: (10) Ten Day (5) Five Day Rush (2) Two Day Rush

Relinquished By (Sign)	Print Name / Company	Date / Time	Received By (Sign)	Print Name / Company
[signature]	C. Hunter / Dudek	12/10/20 16:30		
		12/11/2020 / 1020	[signature]	StStyles / CLSB
[signature]	StStyles / CLSB	12/11/2020 / 1135	[signature]	[illegible] CLSB

(Lab Use Only) Lompoc Lab Receipt Temp.: ______ °C

Shipped Via: [ ] Fed Ex [ ] Golden State Overnight [ ] UPS [ ] OnTrac [ ] USPS [ ] Other

Condition: [X] On Wet Ice [ ] On Blu Ice [X] Intact [ ] Custody Seals Samples / COC Checked By: ______ Work Order Logged By: ______

Receipt Comments: Clinical Lab Receipt Temp.: 1.1 °C

DUDEK

FIELD CALIBRATION RECORD

Project Name: City of Beaumont

Project Number: 11110.2020

Field Crew: C. Hunter

Signature:

Date of Field Calibration: 12/10/20

Field Location: Beaumont area, CA

Weather Conditions:

Parameter Sensor:

Instr. Type: YSI

Model: 556

Temp (using thermometer): 22.4 Temp (using meter): 23.7

Parameters / Field Measurements								General Description of Standards
		pH	Percent Error	Dissolved Oxygen - Atmospheric Pressure (mmHg)	Percent Error	Specific Condctance (µS/cm)	Percent Error	calibration solution, supplier, exp. Date
Standard Solution Values	1	4.0		712.9		1323		
	2	7.0						
	3	10.0						
Pre-calibration Readings for Each Standard	1	4.02		713.0		1326		
	2	7.03						
	3	10.05						
Post-calibration Readings for Each Standard	1	4.01		712.8		1324		
	2	6.99						
	3	9.99						

Site: CC-01 Weather Flow Visuals

Date: 12/23/20 Conditions:

Total width of creek 7.7 Sum of segment's widths 7.7

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft^3/s (w x d x v)	Total Flow Through Creek in ft^3/s
	1.1	1.0	0.752	0.827	
	1.1	0.8	0.977	0.859	
	1.1	0.8	1.267	1.114	
	1.1	0.8	1.589	1.750	
	1.1	0.9	1.585	1.569	
	1.1	1.0	1.125	1.237	
	1.1	0.9	0.73	0.772	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
16:15	22.2	7.91	511	6.97	Y

Conditions Key:

Flow Description : 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces
3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Site: CC-03 Weather Flow Visuals

Date: 12/23/20 Conditions:

Total width of creek 6 Sum of segment's widths 6

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft^3/s (w x d x v)	Total Flow Through Creek in ft^3/s
	1	1.0	1.450	1.450	
	1	0.8	1.356	1.084	
	1	0.7	1.632	1.142	
	1	0.6	1.971	1.182	
	1	0.6	1.321	0.792	
	1	0.5	0.177	0.088	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
15:45	19.2	8.18	717	7.50	Y

Conditions Key:

Flow Description : 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces
3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F
Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F
Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

Site: STC-01

Date: 12/23/20

Weather Flow Visuals

Conditions:

Total width of creek 4

Sum of segment's widths 4

Time	Width (feet) of segment (w)	Depth (feet) (d)	Velocity in ft/s (v)	Flow in ft^3/s (w x d x v)	Total Flow Through Creek in ft^3/s
	1	1.8	1.232	0.985	
	1	0.6	1.057	0.634	
	1	0.7	1.369	0.547	
	1	0.3	0.443	0.132	

Time	Temperature (°C)	pH	Specific Conductance (uS/cm)	Dissolved Oxygen (mg/L)	Sample Collected (Y/N)
15:30	12.6	8.26	694	9.24	Y

Conditions Key:

Flow Description : 1 - low; insufficient depth 2 - low-mod; just sufficient for flow, ~0.2 ft
3 - moderate; good flow, good depth 4 - mod-high; 1/2 ft across, fast 5 - high; 1 foot across, fast flow

Visuals: 1 - clear; can see substrate 2 - slightly turbid; no large pieces
3 - turbid; cloudy, can't see bottom, debris 4 - very turbid; lots of debris 5 - chunky mud

Weather: W-X-T W-0-T sunny W-2-T cloudy W-X-0 = < 30° F W-X-3 = 50-60° F W-X-6 = 80-90° F

Wind - Y, N W-1-T few clouds W-3-T raining W-X-1 = 30-40° F W-X-4 = 60-70° F W-X-7 = 90-100° F

Comments: W-X-2 = 40-50° F W-X-5 = 70-80° F W-X-8 = > 100° F

2/0/6

WO 2012137

Clinical Lab of San Bernardino, Inc. Chain of Custody

21881 Barton Road Grand Terrace CA 92313 909 825-7693 / 516-A N 8th St. Lompoc CA 93436 805 737-7300

Client	City of Beaumont
Address:	550 E. 6th St.
	Beaumont, CA. 92223
Client Contact:	
Phone No.:	FAX No.:
System No.:	
Project:	Max Benefits - Beaumont GMZ
Sampled By:	C. Hunter
Comments:	

Email results to: **Ajakher@ci.beaumont.ca.us, ckhunter@dudek.com, sstuart@dudek.com**

Destination Laboratory

[X] Clinical Grand Terrace / ELAP 1088
[ ] Clinical Lompoc / ELAP 1678
[ ] Other:

Date	Time	Sample Identification	Container ID	Matrix	Sample Type	No. of Preserved Cont. Unpreserved	Na2S2O3	NH4Cl	C6H8O6	HNO3	HCl	NaOH	Na2SO3	ZnC4H6O4	ChlorAC	Total Containers	Total Dissolved Solids (SM 2540C)	Nitrate-N (EPA 300.0)	Nitrite-N (EPA 300.0)	Ammonia-N (EPA 350.1)	Alkalinity (inc. HCO3, CO3, and OH	Ca, Mg, K, Na (EPA 200.7)	Sulfate (EPA 300.0)	Specific Conductance (SM 2510B)	pH (SM 4500H+B)	Chloride (EPA 300.0)	Fluoride (EPA 300.0)	Comments	Turn Around Time (TAT)
12/23/20	16:15	CC-01	1	SW		X										2	X	X	X	X	X	X	X	X	X	X	X		10
	15:45	CC-03	3	SW		X										2	X	X	X	X	X	X	X	X	X	X	X		10
	15:00	STC-01	STC	SW		X										2	X	X	X	X	X	X	X	X	X	X	X		10

Matrix: DW - Drinking Water GW - Ground Water SW - Surface Water W - Water WW - Wastewater SWR - Stormwater Runoff S - Sludge O - Other _____

Use for Bacteria Samples / Sample Type: 1-Routine 2-Repeat 3-Replacement 4-Special D-Distribution W-Well

TAT: (10) Ten Day (5) Five Day Rush (2) Two Day Rush

Relinquished By (Sign)	Print Name / Company	Date / Time	Received By (Sign)	Print Name / Company
	C. Hunter / Dudek	12/23/20 16:30		
		12/24/2020 7:55		Sr Styles / CUSB
	Sr Styles / CUSB	12/24/2020 8:40		CUSB

(Lab Use Only) Lompoc Lab Receipt Temp.: _____ °C

Shipped Via: [ ] Fed Ex [ ] Golden State Overnight [ ] UPS [ ] OnTrac [ ] USPS [ ] Other _____

Condition: [ ] On Wet Ice [ ] On Blu Ice [X] Intact [ ] Custody Seals Samples / COC Checked By: _____ Work Order Logged By: _____

Receipt Comments: Clinical Lab Receipt Temp.: 1.3A °C

DUDEK

FIELD CALIBRATION RECORD

Project Name: City of Beaumont

Project Number: 11110.2020

Field Crew: C. Hunter

Signature:

Date of Field Calibration: 12/23/20

Field Location: Beaumont area, CA

Weather Conditions:

Parameter Sensor:

Instr. Type: YSI

Model: 556

Temp (using thermometer): 22.8 Temp (using meter): 23.9

Parameters / Field Measurements								General Description of Standards
		pH	Percent Error	Dissolved Oxygen - Atmospheric Pressure (mmHg)	Percent Error	Specific Conductance (µS/cm)	Percent Error	calibration solution, supplier, exp. Date
Standard Solution Values	1	4.0		712.0		1335		
	2	7.0						
	3	10.0						
Pre-calibration Readings for Each Standard	1	3.96		715.2		1369		
	2	6.90						
	3	10.11						
Post-calibration Readings for Each Standard	1	4.00		712.0		1333		
	2	6.99						
	3	9.98						

APPENDIX L

Analytical Laboratory Reports for Surface Water Samples Collected in the Beaumont Groundwater Management Zone in 2020

Beaumont, City of	Project: Maximum Benefit-Surface Water	Work Order: 20A1447
550 East 6th Street	Sub Project: Beaumont GMZ	Received: 01/18/20 10:05
Beaumont CA, 92223	Project Manager: Thaxton Van Belle	Reported: 01/29/20

CC - 01 **20A1447-01 (Water)** **Sample Date:** 01/17/20 16:30 **Sampler:** C. Hunter

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
General Chemical Analyses									
Alkalinity, Total (as CaCO3)	SM 2320 B	**240**	mg/L	5.0		01/22/20	01/22/20	2004004	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	01/22/20	01/23/20	2004070	
Bicarbonate (HCO3)	SM 2320 B	**300**	mg/L	5.0		01/22/20	01/22/20	2004004	
Carbonate (CO3)	SM 2320B	ND	mg/L	5.0		01/22/20	01/22/20	2004004	
Chloride (Cl)	EPA 300.0	**83**	mg/L	1.0	0.075	01/19/20	01/19/20	2003136	
Specific Conductance (E.C.)	SM 2510B	**810**	umhos/cm	2.0	0.20	01/20/20	01/20/20	2004004	
Fluoride (F)	EPA 300.0	**0.51**	mg/L	0.10	0.026	01/19/20	01/19/20	2003136	
Hardness, Total (as CaCO3)	Calculated	**200**	mg/L	6.6		01/23/20	01/23/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		01/22/20	01/22/20	2004004	
Inorganic Nitrogen	Calculated	**4.6**	mg/L	1.3		01/22/20	01/23/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	**4.3**	mg/L	0.40	0.12	01/19/20	01/19/20	2003136	
Nitrite as N (NO2-N)	EPA 300.0	**0.26**	mg/L	0.40	0.17	01/19/20	01/19/20	2003136	J
pH (Lab)	SM 4500HB	**7.7**	pH Units			01/20/20	01/20/20	2004004	
Sulfate (SO4)	EPA 300.0	**33**	mg/L	0.50	0.14	01/19/20	01/19/20	2003136	
Total Filterable Residue/TDS	SM 2540C	**450**	mg/L	5.0	3.1	01/20/20	01/22/20	2004017	
Metals									
Calcium (Ca)	EPA 200.7	**52**	mg/L	1.0	0.080	01/23/20	01/23/20	2004100	
Magnesium (Mg)	EPA 200.7	**16**	mg/L	1.0	0.51	01/23/20	01/23/20	2004100	
Potassium (K)	EPA 200.7	**20**	mg/L	1.0	0.18	01/23/20	01/23/20	2004100	
Sodium (Na)	EPA 200.7	**100**	mg/L	1.0	0.21	01/23/20	01/23/20	2004100	

Stu Styles
Client Services Manager

Post Office Box 329 San Bernardino, CA 92402 (909) 825-7693 Fax (909) 825-7696 ELAP Number 1088

Beaumont, City of	Project: Maximum Benefit-Surface Water	Work Order: 20A1447
550 East 6th Street	Sub Project: Beaumont GMZ	Received: 01/18/20 10:05
Beaumont CA, 92223	Project Manager: Thaxton Van Belle	Reported: 01/29/20

CC - 03 **20A1447-02 (Water)** **Sample Date:** 01/17/20 16:00 **Sampler:** C. Hunter

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
General Chemical Analyses									
Alkalinity, Total (as CaCO3)	SM 2320 B	**220**	mg/L	5.0		01/22/20	01/22/20	2004004	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	01/22/20	01/23/20	2004070	
Bicarbonate (HCO3)	SM 2320 B	**270**	mg/L	5.0		01/22/20	01/22/20	2004004	
Carbonate (CO3)	SM 2320B	ND	mg/L	5.0		01/22/20	01/22/20	2004004	
Chloride (Cl)	EPA 300.0	**78**	mg/L	1.0	0.075	01/19/20	01/19/20	2003136	
Specific Conductance (E.C.)	SM 2510B	**760**	umhos/cm	2.0	0.20	01/20/20	01/20/20	2004004	
Fluoride (F)	EPA 300.0	**0.46**	mg/L	0.10	0.026	01/19/20	01/19/20	2003136	
Hardness, Total (as CaCO3)	Calculated	**190**	mg/L	6.6		01/23/20	01/23/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		01/22/20	01/22/20	2004004	
Inorganic Nitrogen	Calculated	**4.8**	mg/L	1.3		01/22/20	01/23/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	**4.8**	mg/L	0.40	0.12	01/19/20	01/19/20	2003136	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	01/19/20	01/19/20	2003136	
pH (Lab)	SM 4500HB	**8.2**	pH Units			01/20/20	01/20/20	2004004	
Sulfate (SO4)	EPA 300.0	**32**	mg/L	0.50	0.14	01/19/20	01/19/20	2003136	
Total Filterable Residue/TDS	SM 2540C	**430**	mg/L	5.0	3.1	01/20/20	01/22/20	2004017	
Metals									
Calcium (Ca)	EPA 200.7	**49**	mg/L	1.0	0.080	01/23/20	01/23/20	2004100	
Magnesium (Mg)	EPA 200.7	**15**	mg/L	1.0	0.51	01/23/20	01/23/20	2004100	
Potassium (K)	EPA 200.7	**18**	mg/L	1.0	0.18	01/23/20	01/23/20	2004100	
Sodium (Na)	EPA 200.7	**96**	mg/L	1.0	0.21	01/23/20	01/23/20	2004100	

Stu Styles
Client Services Manager

Post Office Box 329 San Bernardino, CA 92402 (909) 825-7693 Fax (909) 825-7696 ELAP Number 1088

Beaumont, City of	Project: Maximum Benefit-Surface Water	Work Order: 20A1447
550 East 6th Street	Sub Project: Beaumont GMZ	Received: 01/18/20 10:05
Beaumont CA, 92223	Project Manager: Thaxton Van Belle	Reported: 01/29/20

STC - 01 **20A1447-03 (Water)** **Sample Date:** 01/17/20 15:00 **Sampler:** C. Hunter

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
General Chemical Analyses									
Alkalinity, Total (as CaCO3)	SM 2320 B	**250**	mg/L	5.0		01/22/20	01/22/20	2004004	
Ammonia as N (NH3-N)	EPA 350.1	**0.76**	mg/L	0.50	0.15	01/23/20	01/24/20	2004111	
Bicarbonate (HCO3)	SM 2320 B	**300**	mg/L	5.0		01/22/20	01/22/20	2004004	
Carbonate (CO3)	SM 2320B	**2.9**	mg/L	5.0		01/22/20	01/22/20	2004004	J
Chloride (Cl)	EPA 300.0	**79**	mg/L	1.0	0.075	01/19/20	01/19/20	2003136	
Specific Conductance (E.C.)	SM 2510B	**780**	umhos/cm	2.0	0.20	01/20/20	01/20/20	2004004	
Fluoride (F)	EPA 300.0	**0.48**	mg/L	0.10	0.026	01/19/20	01/19/20	2003136	
Hardness, Total (as CaCO3)	Calculated	**230**	mg/L	6.6		01/23/20	01/23/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		01/22/20	01/22/20	2004004	
Inorganic Nitrogen	Calculated	**3.66**	mg/L	0.50		01/23/20	01/24/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	**2.9**	mg/L	0.40	0.12	01/19/20	01/19/20	2003136	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	01/19/20	01/19/20	2003136	
pH (Lab)	SM 4500HB	**8.3**	pH Units			01/20/20	01/20/20	2004004	
Sulfate (SO4)	EPA 300.0	**34**	mg/L	0.50	0.14	01/19/20	01/19/20	2003136	
Total Filterable Residue/TDS	SM 2540C	**440**	mg/L	5.0	3.1	01/20/20	01/22/20	2004017	
Metals									
Calcium (Ca)	EPA 200.7	**61**	mg/L	1.0	0.080	01/23/20	01/23/20	2004100	
Magnesium (Mg)	EPA 200.7	**18**	mg/L	1.0	0.51	01/23/20	01/23/20	2004100	
Potassium (K)	EPA 200.7	**13**	mg/L	1.0	0.18	01/23/20	01/23/20	2004100	
Sodium (Na)	EPA 200.7	**95**	mg/L	1.0	0.21	01/23/20	01/23/20	2004100	

Stu Styles
Client Services Manager

Post Office Box 329 San Bernardino, CA 92402 (909) 825-7693 Fax (909) 825-7696 ELAP Number 1088

Beaumont, City of	Project: Maximum Benefit-Surface Water	Work Order: 20A1447
550 East 6th Street	Sub Project: Beaumont GMZ	Received: 01/18/20 10:05
Beaumont CA, 92223	Project Manager: Thaxton Van Belle	Reported: 01/29/20

STC - 02 **20A1447-04 (Water)** **Sample Date:** 01/17/20 15:30 **Sampler:** C. Hunter

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
General Chemical Analyses									
Alkalinity, Total (as CaCO3)	SM 2320 B	**270**	mg/L	5.0		01/22/20	01/22/20	2004004	
Ammonia as N (NH3-N)	EPA 350.1	**0.56**	mg/L	0.50	0.15	01/23/20	01/24/20	2004111	
Bicarbonate (HCO3)	SM 2320 B	**330**	mg/L	5.0		01/22/20	01/22/20	2004004	
Carbonate (CO3)	SM 2320B	ND	mg/L	5.0		01/22/20	01/22/20	2004004	
Chloride (Cl)	EPA 300.0	**36**	mg/L	1.0	0.075	01/19/20	01/19/20	2003136	
Specific Conductance (E.C.)	SM 2510B	**630**	umhos/cm	2.0	0.20	01/20/20	01/20/20	2004004	
Fluoride (F)	EPA 300.0	**0.48**	mg/L	0.10	0.026	01/19/20	01/19/20	2003136	
Hardness, Total (as CaCO3)	Calculated	**260**	mg/L	6.6		01/23/20	01/23/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		01/22/20	01/22/20	2004004	
Inorganic Nitrogen	Calculated	**0.56**	mg/L	0.50		01/23/20	01/24/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	ND	mg/L	0.40	0.12	01/19/20	01/19/20	2003136	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	01/19/20	01/19/20	2003136	
pH (Lab)	SM 4500HB	**7.9**	pH Units			01/20/20	01/20/20	2004004	
Sulfate (SO4)	EPA 300.0	**19**	mg/L	0.50	0.14	01/19/20	01/19/20	2003136	
Total Filterable Residue/TDS	SM 2540C	**360**	mg/L	5.0	3.1	01/20/20	01/22/20	2004017	
Metals									
Calcium (Ca)	EPA 200.7	**67**	mg/L	1.0	0.080	01/23/20	01/23/20	2004100	
Magnesium (Mg)	EPA 200.7	**23**	mg/L	1.0	0.51	01/23/20	01/23/20	2004100	
Potassium (K)	EPA 200.7	**5.1**	mg/L	1.0	0.18	01/23/20	01/23/20	2004100	
Sodium (Na)	EPA 200.7	**57**	mg/L	1.0	0.21	01/23/20	01/23/20	2004100	

J Detected below the Reporting Limit; reported concentration is estimated; (J-Flag)

pH (Lab) was analyzed ASAP but received and analyzed past the 15 minute hold time.

ND Analyte NOT DETECTED at or above the MDL; Method Detection Limit

Stu Styles
Client Services Manager

Post Office Box 329 San Bernardino, CA 92402 (909) 825-7693 Fax (909) 825-7696 ELAP Number 1088

0/0/8

WO 20A1447

Clinical Lab of San Bernardino, Inc. — Chain of Custody

21881 Barton Road Grand Terrace CA 92313 909 825-7693 / 516-A N 8th St. Lompoc CA 93436 805 737-7300

Client	City of Beaumont
Address:	550 E. 6th St.
	Beaumont, CA. 92223
Client Contact:	Amer Jaker
Phone No.:	951-769-8520 FAX No.: 951-769-8526
System No.:	
Project:	Max Benefits - Beaumont GMZ
Sampled By:	C. Hunter
Comments:	
	Email results to: Ajakher@ci.beaumont.ca.us, ckhunter@dudek.com, sstuart@dudek.com

Destination Laboratory

[X] Clinical Grand Terrace / ELAP 1088

[ ] Clinical Lompoc / ELAP 1678

[ ] Other:

Analysis Requested

Date	Time	Sample Identification												Total Dissolved Solids (SM 2540C)	Nitrate-N (EPA 300.0)	Nitrite-N (EPA 300.0)	Ammonia-N (EPA 350.1)	Alkalinity (inc. HCO3, CO3, and OH	Ca, Mg, K, Na (EPA 200.7)	Sulfate (EPA 300.0)	Specific Conductance (SM 2510B)	pH (SM 4500H+B)	Chloride (EPA 300.0)	Fluoride (EPA 300.0)	Comments	Turn Around Time
1/17/20	16:30	CC-01	1	SW		X							2	X	X	X	X	X	X	X	X	X	X	X		10
	16:00	CC-03	3	SW		X							2	X	X	X	X	X	X	X	X	X	X	X		10
	15:00	STC-01	ST1	SW		X							2	X	X	X	X	X	X	X	X	X	X	X		10
	15:30	STC-02	ST2	SW		X							2	X	X	X	X	X	X	X	X	X	X	X		10

Matrix: DW - Drinking Water GW - Ground Water SW - Surface Water W - Water WW - Wastewater SWR - Stormwater Runoff S - Sludge O - Other

Use for Bacteria Samples / Sample Type: 1-Routine 2-Repeat 3-Replacement 4-Special D-Distribution W-Well

TAT: (10) Ten Day (5) Five Day Rush (2) Two Day Rush

Relinquished By (Sign)	Print Name / Company	Date / Time	Received By (Sign)	Print Name / Company
C. Hunter	C. Hunter / Dudek	1/17/20 17:00	Chris Martinez	Chris Martinez 9:15
Chris Martinez	Chris Martinez	1-18-2020 10:05		CLSB

(Lab Use Only) Lompoc Lab Receipt Temp.: _____ °C

Shipped Via: [ ] Fed Ex [ ] Golden State Overnight [ ] UPS [ ] OnTrac [ ] USPS [ ] Other _____

Condition: [ ] On Wet Ice [ ] On Blu Ice [ ] Intact [ ] Custody Seals Samples / COC Checked By: _____ Work Order Logged By: _____

Receipt Comments: Clinical Lab Receipt Temp.: 4.0 °C

Beaumont, City of	Project: Maximum Benefit-Surface Water	Work Order: 20B0499
550 East 6th Street	Sub Project: Beaumont GMZ	Received: 02/06/20 09:05
Beaumont CA, 92223	Project Manager: Thaxton Van Belle	Reported: 02/17/20

CC - 01 **20B0499-01 (Water)** **Sample Date:** 02/05/20 15:15 **Sampler:** C. Hunter

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
General Chemical Analyses									
Alkalinity, Total (as CaCO3)	SM 2320 B	**240**	mg/L	5.0		02/12/20	02/12/20	2006121	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	02/11/20	02/12/20	2007058	
Bicarbonate (HCO3)	SM 2320 B	**290**	mg/L	5.0		02/12/20	02/12/20	2006121	
Carbonate (CO3)	SM 2320B	ND	mg/L	5.0		02/12/20	02/12/20	2006121	
Chloride (Cl)	EPA 300.0	**81**	mg/L	1.0	0.075	02/06/20	02/06/20	2006124	
Specific Conductance (E.C.)	SM 2510B	**790**	umhos/cm	2.0	0.20	02/06/20	02/06/20	2006121	
Fluoride (F)	EPA 300.0	**0.45**	mg/L	0.10	0.026	02/06/20	02/06/20	2006124	
Hardness, Total (as CaCO3)	Calculated	**190**	mg/L	6.6		02/13/20	02/13/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		02/12/20	02/12/20	2006121	
Inorganic Nitrogen	Calculated	**2.1**	mg/L	1.3		02/11/20	02/12/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	**2.1**	mg/L	0.40	0.12	02/06/20	02/06/20	2006124	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	02/06/20	02/06/20	2006124	
pH (Lab)	SM 4500HB	**8.1**	pH Units			02/06/20	02/06/20	2006121	
Sulfate (SO4)	EPA 300.0	**32**	mg/L	0.50	0.14	02/06/20	02/06/20	2006124	
Total Filterable Residue/TDS	SM 2540C	**470**	mg/L	5.0	3.1	02/06/20	02/11/20	2006133	
Metals									
Calcium (Ca)	EPA 200.7	**51**	mg/L	1.0	0.080	02/13/20	02/13/20	2007125	
Magnesium (Mg)	EPA 200.7	**16**	mg/L	1.0	0.51	02/13/20	02/13/20	2007125	
Potassium (K)	EPA 200.7	**18**	mg/L	1.0	0.18	02/13/20	02/13/20	2007125	
Sodium (Na)	EPA 200.7	**96**	mg/L	1.0	0.21	02/13/20	02/13/20	2007125	

Stu Styles
Client Services Manager

Post Office Box 329 San Bernardino, CA 92402 (909) 825-7693 Fax (909) 825-7696 ELAP Number 1088

Beaumont, City of	Project: Maximum Benefit-Surface Water	Work Order: 20B0499
550 East 6th Street	Sub Project: Beaumont GMZ	Received: 02/06/20 09:05
Beaumont CA, 92223	Project Manager: Thaxton Van Belle	Reported: 02/17/20

CC - 03 **20B0499-02 (Water)** **Sample Date:** 02/05/20 14:15 **Sampler:** C. Hunter

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
General Chemical Analyses									
Alkalinity, Total (as CaCO3)	SM 2320 B	**250**	mg/L	5.0		02/12/20	02/12/20	2006121	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	02/11/20	02/12/20	2007058	
Bicarbonate (HCO3)	SM 2320 B	**290**	mg/L	5.0		02/12/20	02/12/20	2006121	
Carbonate (CO3)	SM 2320B	**3.8**	mg/L	5.0		02/12/20	02/12/20	2006121	J
Chloride (Cl)	EPA 300.0	**80**	mg/L	1.0	0.075	02/06/20	02/06/20	2006124	
Specific Conductance (E.C.)	SM 2510B	**780**	umhos/cm	2.0	0.20	02/06/20	02/06/20	2006121	
Fluoride (F)	EPA 300.0	**0.49**	mg/L	0.10	0.026	02/06/20	02/06/20	2006124	
Hardness, Total (as CaCO3)	Calculated	**190**	mg/L	6.6		02/13/20	02/13/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		02/12/20	02/12/20	2006121	
Inorganic Nitrogen	Calculated	**1.9**	mg/L	1.3		02/11/20	02/12/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	**1.9**	mg/L	0.40	0.12	02/06/20	02/06/20	2006124	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	02/06/20	02/06/20	2006124	
pH (Lab)	SM 4500HB	**8.4**	pH Units			02/06/20	02/06/20	2006121	
Sulfate (SO4)	EPA 300.0	**32**	mg/L	0.50	0.14	02/06/20	02/06/20	2006124	
Total Filterable Residue/TDS	SM 2540C	**500**	mg/L	5.0	3.1	02/06/20	02/11/20	2006133	
Metals									
Calcium (Ca)	EPA 200.7	**50**	mg/L	1.0	0.080	02/13/20	02/13/20	2007125	
Magnesium (Mg)	EPA 200.7	**16**	mg/L	1.0	0.51	02/13/20	02/13/20	2007125	
Potassium (K)	EPA 200.7	**18**	mg/L	1.0	0.18	02/13/20	02/13/20	2007125	
Sodium (Na)	EPA 200.7	**93**	mg/L	1.0	0.21	02/13/20	02/13/20	2007125	

Stu Styles
Client Services Manager

Post Office Box 329 San Bernardino, CA 92402 (909) 825-7693 Fax (909) 825-7696 ELAP Number 1088

Beaumont, City of	Project: Maximum Benefit-Surface Water	Work Order: 20B0499
550 East 6th Street	Sub Project: Beaumont GMZ	Received: 02/06/20 09:05
Beaumont CA, 92223	Project Manager: Thaxton Van Belle	Reported: 02/17/20

STC - 01 **20B0499-03 (Water)** **Sample Date:** 02/05/20 13:30 **Sampler:** C. Hunter

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
General Chemical Analyses									
Alkalinity, Total (as CaCO3)	SM 2320 B	**270**	mg/L	5.0		02/12/20	02/12/20	2006121	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	02/11/20	02/12/20	2007058	
Bicarbonate (HCO3)	SM 2320 B	**320**	mg/L	5.0		02/12/20	02/12/20	2006121	
Carbonate (CO3)	SM 2320B	**7.7**	mg/L	5.0		02/12/20	02/12/20	2006121	
Chloride (Cl)	EPA 300.0	**82**	mg/L	1.0	0.075	02/06/20	02/06/20	2006124	
Specific Conductance (E.C.)	SM 2510B	**820**	umhos/cm	2.0	0.20	02/06/20	02/06/20	2006121	
Fluoride (F)	EPA 300.0	**0.55**	mg/L	0.10	0.026	02/06/20	02/06/20	2006124	
Hardness, Total (as CaCO3)	Calculated	**240**	mg/L	6.6		02/13/20	02/13/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		02/12/20	02/12/20	2006121	
Inorganic Nitrogen	Calculated	ND	mg/L	1.3		02/11/20	02/12/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	**1.2**	mg/L	0.40	0.12	02/06/20	02/06/20	2006124	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	02/06/20	02/06/20	2006124	
pH (Lab)	SM 4500HB	**8.5**	pH Units			02/06/20	02/06/20	2006121	
Sulfate (SO4)	EPA 300.0	**35**	mg/L	0.50	0.14	02/06/20	02/06/20	2006124	
Total Filterable Residue/TDS	SM 2540C	**480**	mg/L	5.0	3.1	02/06/20	02/11/20	2006133	
Metals									
Calcium (Ca)	EPA 200.7	**64**	mg/L	1.0	0.080	02/13/20	02/13/20	2007125	
Magnesium (Mg)	EPA 200.7	**19**	mg/L	1.0	0.51	02/13/20	02/13/20	2007125	
Potassium (K)	EPA 200.7	**12**	mg/L	1.0	0.18	02/13/20	02/13/20	2007125	
Sodium (Na)	EPA 200.7	**91**	mg/L	1.0	0.21	02/13/20	02/13/20	2007125	

J Detected below the Reporting Limit; reported concentration is estimated; (J-Flag)

pH (Lab) was analyzed ASAP but received and analyzed past the 15 minute hold time.

ND Analyte NOT DETECTED at or above the MDL; Method Detection Limit

Stu Styles
Client Services Manager

Post Office Box 329 San Bernardino, CA 92402 (909) 825-7693 Fax (909) 825-7696 ELAP Number 1088

0/0/6

WO 20B0499

Clinical Lab of San Bernardino, Inc. — Chain of Custody

21881 Barton Road Grand Terrace CA 92313 909 825-7693 / 516-A N 8th St. Lompoc CA 93436 805 737-7300

Client	City of Beaumont
Address:	550 E. 6th St.
	Beaumont, CA. 92223
Client Contact:	Amer Jaker
Phone No.:	951-769-8520 FAX No.: 951-769-8526
System No.:	
Project:	Max Benefits - Beaumont GMZ
Sampled By:	C Hunter
Comments:	

Email results to: Ajakher@ci.beaumont.ca.us, ckhunter@dudek.com, sstuart@dudek.com

Destination Laboratory

[X] Clinical Grand Terrace / ELAP 1088

[ ] Clinical Lompoc / ELAP 1678

[ ] Other:

Date	Time	Sample Identification	Container ID	Matrix	Sample Type	No. of Preserved Cont.									Total Containers	Total Dissolved Solids (SM 2540C)	Nitrate-N (EPA 300.0)	Nitrite-N (EPA 300.0)	Ammonia-N (EPA 350.1)	Alkalinity (inc. HCO3, CO3, and OH	Ca, Mg, K, Na (EPA 200.7)	Sulfate (EPA 300.0)	Specific Conductance (SM 2510B)	pH (SM 4500H+B)	Chloride (EPA 300.0)	Fluoride (EPA 300.0)	Comments	Turn Around Time (TAT)
						Unpreserved	Na2S2O3	NH4Cl	C6H8O6	HNO3	HCl	NaOH	Na2SO3	ZnC4H6O4	ChlorAC													
2/5/20	15:15	CC-01	1	SW		X									2	X	X	X	X	X	X	X	X	X	X	X	10
1	14:25	CC-03	3	SW		X									2	X	X	X	X	X	X	X	X	X	X	X	10
1	13:30	STC-01	STC	SW		X									2	X	X	X	X	X	X	X	X	X	X	X	10

Matrix: DW - Drinking Water GW - Ground Water SW - Surface Water W - Water WW - Wastewater SWR - Stormwater Runoff S - Sludge O - Other _____

Use for Bacteria Samples / Sample Type: 1-Routine 2-Repeat 3-Replacement 4-Special D-Distribution W-Well

TAT: (10) Ten Day (5) Five Day Rush (2) Two Day Rush

Relinquished By (Sign)	Print Name / Company	Date / Time	Received By (Sign)	Print Name / Company
	C. Hunter / Dudek	2/5/20 15:40		
		2/6/2020 / 820		Sh Styles / CCSB
	Sh Styles / CCSB	2/6/2020 - 905		JA CCSB

(Lab Use Only) Lompoc Lab Receipt Temp.: _____ °C

Shipped Via: [ ] Fed Ex [ ] Golden State Overnight [ ] UPS [ ] OnTrac [ ] USPS [ ] Other _____

Condition: [X] On Wet Ice [ ] On Blu Ice [X] Intact [ ] Custody Seals Samples / COC Checked By: _____ Work Order Logged By: _____

Receipt Comments: Clinical Lab Receipt Temp.: 3.8 °C

Beaumont, City of	Project: Maximum Benefit-Surface Water	Work Order: 20B1180
550 East 6th Street	Sub Project: Beaumont GMZ	Received: 02/14/20 11:30
Beaumont CA, 92223	Project Manager: Thaxton Van Belle	Reported: 02/25/20

CC - 01 **20B1180-01 (Water)** **Sample Date:** 02/13/20 14:30 **Sampler:** C. Hunter

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
General Chemical Analyses									
Alkalinity, Total (as CaCO3)	SM 2320 B	**240**	mg/L	5.0		02/18/20	02/18/20	2007153	
Ammonia as N (NH3-N)	EPA 350.1	**0.69**	mg/L	0.50	0.15	02/19/20	02/19/20	2008030	
Bicarbonate (HCO3)	SM 2320 B	**290**	mg/L	5.0		02/18/20	02/18/20	2007153	
Carbonate (CO3)	SM 2320B	ND	mg/L	5.0		02/18/20	02/18/20	2007153	
Chloride (Cl)	EPA 300.0	**83**	mg/L	1.0	0.075	02/14/20	02/14/20	2007150	
Specific Conductance (E.C.)	SM 2510B	**790**	umhos/cm	2.0	0.20	02/18/20	02/18/20	2007153	
Fluoride (F)	EPA 300.0	**0.41**	mg/L	0.10	0.026	02/14/20	02/14/20	2007150	
Hardness, Total (as CaCO3)	Calculated	**190**	mg/L	6.6		02/19/20	02/19/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		02/18/20	02/18/20	2007153	
Inorganic Nitrogen	Calculated	**4.7**	mg/L	1.3		02/19/20	02/19/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	**3.7**	mg/L	0.40	0.12	02/14/20	02/14/20	2007150	
Nitrite as N (NO2-N)	EPA 300.0	**0.26**	mg/L	0.40	0.17	02/14/20	02/14/20	2007150	J
pH (Lab)	SM 4500HB	**8.0**	pH Units			02/14/20	02/14/20	2007153	
Sulfate (SO4)	EPA 300.0	**36**	mg/L	0.50	0.14	02/14/20	02/14/20	2007150	
Total Filterable Residue/TDS	SM 2540C	**460**	mg/L	5.0	3.1	02/17/20	02/18/20	2008020	
Metals									
Calcium (Ca)	EPA 200.7	**51**	mg/L	1.0	0.080	02/19/20	02/19/20	2008069	
Magnesium (Mg)	EPA 200.7	**15**	mg/L	1.0	0.51	02/19/20	02/19/20	2008069	
Potassium (K)	EPA 200.7	**18**	mg/L	1.0	0.18	02/19/20	02/19/20	2008069	
Sodium (Na)	EPA 200.7	**93**	mg/L	1.0	0.21	02/19/20	02/19/20	2008069	

Stu Styles
Client Services Manager

Post Office Box 329 San Bernardino, CA 92402 (909) 825-7693 Fax (909) 825-7696 ELAP Number 1088

Beaumont, City of	Project: Maximum Benefit-Surface Water	Work Order: 20B1180
550 East 6th Street	Sub Project: Beaumont GMZ	Received: 02/14/20 11:30
Beaumont CA, 92223	Project Manager: Thaxton Van Belle	Reported: 02/25/20

CC - 03 **20B1180-02 (Water)** **Sample Date:** 02/13/20 14:00 **Sampler:** C. Hunter

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
General Chemical Analyses									
Alkalinity, Total (as CaCO3)	SM 2320 B	**240**	mg/L	5.0		02/18/20	02/18/20	2007153	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	02/19/20	02/19/20	2008030	
Bicarbonate (HCO3)	SM 2320 B	**290**	mg/L	5.0		02/18/20	02/18/20	2007153	
Carbonate (CO3)	SM 2320B	ND	mg/L	5.0		02/18/20	02/18/20	2007153	
Chloride (Cl)	EPA 300.0	**86**	mg/L	1.0	0.075	02/14/20	02/14/20	2007150	
Specific Conductance (E.C.)	SM 2510B	**780**	umhos/cm	2.0	0.20	02/18/20	02/18/20	2007153	
Fluoride (F)	EPA 300.0	**0.42**	mg/L	0.10	0.026	02/14/20	02/14/20	2007150	
Hardness, Total (as CaCO3)	Calculated	**180**	mg/L	6.6		02/19/20	02/19/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		02/18/20	02/18/20	2007153	
Inorganic Nitrogen	Calculated	**4.2**	mg/L	1.3		02/19/20	02/19/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	**4.2**	mg/L	0.40	0.12	02/14/20	02/14/20	2007150	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	02/14/20	02/14/20	2007150	
pH (Lab)	SM 4500HB	**8.3**	pH Units			02/14/20	02/14/20	2007153	
Sulfate (SO4)	EPA 300.0	**35**	mg/L	0.50	0.14	02/14/20	02/14/20	2007150	
Total Filterable Residue/TDS	SM 2540C	**450**	mg/L	5.0	3.1	02/17/20	02/18/20	2008020	
Metals									
Calcium (Ca)	EPA 200.7	**48**	mg/L	1.0	0.080	02/19/20	02/19/20	2008069	
Magnesium (Mg)	EPA 200.7	**15**	mg/L	1.0	0.51	02/19/20	02/19/20	2008069	
Potassium (K)	EPA 200.7	**16**	mg/L	1.0	0.18	02/19/20	02/19/20	2008069	
Sodium (Na)	EPA 200.7	**87**	mg/L	1.0	0.21	02/19/20	02/19/20	2008069	

Stu Styles
Client Services Manager

Post Office Box 329 San Bernardino, CA 92402 (909) 825-7693 Fax (909) 825-7696 ELAP Number 1088

Beaumont, City of	Project: Maximum Benefit-Surface Water	Work Order: 20B1180
550 East 6th Street	Sub Project: Beaumont GMZ	Received: 02/14/20 11:30
Beaumont CA, 92223	Project Manager: Thaxton Van Belle	Reported: 02/25/20

STC - 01 **20B1180-03 (Water)** **Sample Date:** 02/13/20 13:00 **Sampler:** C. Hunter

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
General Chemical Analyses									
Alkalinity, Total (as CaCO3)	SM 2320 B	**280**	mg/L	5.0		02/18/20	02/18/20	2007153	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	02/19/20	02/19/20	2008030	
Bicarbonate (HCO3)	SM 2320 B	**330**	mg/L	5.0		02/18/20	02/18/20	2007153	
Carbonate (CO3)	SM 2320B	**2.9**	mg/L	5.0		02/18/20	02/18/20	2007153	J
Chloride (Cl)	EPA 300.0	**83**	mg/L	1.0	0.075	02/14/20	02/14/20	2007150	
Specific Conductance (E.C.)	SM 2510B	**830**	umhos/cm	2.0	0.20	02/18/20	02/18/20	2007153	
Fluoride (F)	EPA 300.0	**0.51**	mg/L	0.10	0.026	02/14/20	02/14/20	2007150	
Hardness, Total (as CaCO3)	Calculated	**230**	mg/L	6.6		02/19/20	02/19/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		02/18/20	02/18/20	2007153	
Inorganic Nitrogen	Calculated	**2.7**	mg/L	1.3		02/19/20	02/19/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	**2.7**	mg/L	0.40	0.12	02/14/20	02/14/20	2007150	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	02/14/20	02/14/20	2007150	
pH (Lab)	SM 4500HB	**8.3**	pH Units			02/14/20	02/14/20	2007153	
Sulfate (SO4)	EPA 300.0	**37**	mg/L	0.50	0.14	02/14/20	02/14/20	2007150	
Total Filterable Residue/TDS	SM 2540C	**480**	mg/L	5.0	3.1	02/17/20	02/18/20	2008020	
Metals									
Calcium (Ca)	EPA 200.7	**62**	mg/L	1.0	0.080	02/19/20	02/19/20	2008069	
Magnesium (Mg)	EPA 200.7	**19**	mg/L	1.0	0.51	02/19/20	02/19/20	2008069	
Potassium (K)	EPA 200.7	**12**	mg/L	1.0	0.18	02/19/20	02/19/20	2008069	
Sodium (Na)	EPA 200.7	**86**	mg/L	1.0	0.21	02/19/20	02/19/20	2008069	

J Detected below the Reporting Limit; reported concentration is estimated; (J-Flag)

pH (Lab) was analyzed ASAP but received and analyzed past the 15 minute hold time.

ND Analyte NOT DETECTED at or above the MDL; Method Detection Limit

Stu Styles
Client Services Manager

Post Office Box 329 San Bernardino, CA 92402 (909) 825-7693 Fax (909) 825-7696 ELAP Number 1088

c/o/4

WO 20B1180

Clinical Lab of San Bernardino, Inc. Chain of Custody

21881 Barton Road Grand Terrace CA 92313 909 825-7693 / 516-A N 8th St. Lompoc CA 93436 805 737-7300

Client	City of Beaumont
Address:	550 E. 6th St.
	Beaumont, CA. 92223
Client Contact:	Amer Jaker
Phone No.:	951-769-8520 FAX No.: 951-769-8526
System No.:	
Project:	Max Benefits - Beaumont GMZ
Sampled By:	C. Hunter
Comments:	

Email results to: Ajakher@ci.beaumont.ca.us, ckhunter@dudek.com, sstuart@dudek.com

Destination Laboratory

[X] Clinical Grand Terrace / ELAP 1088
[ ] Clinical Lompoc / ELAP 1678
[ ] Other:

Date	Time	Sample Identification	Container ID	Matrix	Sample Type	No. of Preserved Cont.									Total Containers	Total Dissolved Solids (SM 2540C)	Nitrate-N (EPA 300.0)	Nitrite-N (EPA 300.0)	Ammonia-N (EPA 350.1)	Alkalinity (inc. HCO3, CO3, and OH	Ca, Mg, K, Na (EPA 200.7)	Sulfate (EPA 300.0)	Specific Conductance (SM 2510B)	pH (SM 4500H+B)	Chloride (EPA 300.0)	Fluoride (EPA 300.0)	Comments	Turn Around Time (TAT)
						Unpreserved	Na2S2O3	NH4Cl	C6H8O6	HNO3	HCl	NaOH	Na2SO3	ZnC4H6O4	ChlorAC													
2/13/20	1430	CC-01	1	SW		X									2	X	X	X	X	X	X	X	X	X	X	X		10
	1400	CC-03	3	SW		X									2	X	X	X	X	X	X	X	X	X	X	X		10
	1300	STC-01	STC	SW		X									2	X	X	X	X	X	X	X	X	X	X	X		10

Matrix: DW - Drinking Water GW - Ground Water SW - Surface Water W - Water WW - Wastewater SWR - Stormwater Runoff S - Sludge O - Other _____

Use for Bacteria Samples / Sample Type: 1-Routine 2-Repeat 3-Replacement 4-Special D-Distribution W-Well

TAT: (10) Ten Day (5) Five Day Rush (2) Two Day Rush

Relinquished By (Sign)	Print Name / Company	Date / Time	Received By (Sign)	Print Name / Company
	C. Hunter / Dudek	2-14-2020 7:30		Chris Martinez
	Chris Martinez	2-14-2020 11:30		
				Rebecca Mcreach/CBB

(Lab Use Only) Lompoc Lab Receipt Temp.: _____ °C

Shipped Via: [ ] Fed Ex [ ] Golden State Overnight [ ] UPS [ ] OnTrac [ ] USPS [ ] Other _____

Condition: [ ] On Wet Ice [ ] On Blu Ice [ ] Intact [ ] Custody Seals Samples / COC Checked By: _____ Work Order Logged By: _____

Receipt Comments: Clinical Lab Receipt Temp.: 3.7 °C

Beaumont, City of	Project: Maximum Benefit-Surface Water	Work Order: 20C0103
550 East 6th Street	Sub Project: Beaumont GMZ	Received: 03/03/20 09:35
Beaumont CA, 92223	Project Manager: Thaxton Van Belle	Reported: 03/13/20

CC - 01 **20C0103-01 (Water)** **Sample Date:** 03/02/20 12:45 **Sampler:** C. Hunter

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
General Chemical Analyses									
Alkalinity, Total (as CaCO3)	SM 2320 B	**220**	mg/L	5.0		03/06/20	03/06/20	2010036	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	03/09/20	03/10/20	2011019	
Bicarbonate (HCO3)	SM 2320 B	**270**	mg/L	5.0		03/06/20	03/06/20	2010036	
Carbonate (CO3)	SM 2320B	ND	mg/L	5.0		03/06/20	03/06/20	2010036	
Chloride (Cl)	EPA 300.0	**80**	mg/L	1.0	0.075	03/03/20	03/03/20	2010038	
Specific Conductance (E.C.)	SM 2510B	**780**	umhos/cm	2.0	0.20	03/03/20	03/03/20	2010036	
Fluoride (F)	EPA 300.0	**0.41**	mg/L	0.10	0.026	03/03/20	03/03/20	2010038	
Hardness, Total (as CaCO3)	Calculated	**190**	mg/L	6.6		03/12/20	03/12/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		03/06/20	03/06/20	2010036	
Inorganic Nitrogen	Calculated	**4.1**	mg/L	1.3		03/09/20	03/10/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	**4.1**	mg/L	0.40	0.12	03/03/20	03/03/20	2010038	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	03/03/20	03/03/20	2010038	
pH (Lab)	SM 4500HB	**8.2**	pH Units			03/03/20	03/03/20	2010036	
Sulfate (SO4)	EPA 300.0	**35**	mg/L	0.50	0.14	03/03/20	03/03/20	2010038	
Total Filterable Residue/TDS	SM 2540C	**460**	mg/L	5.0	3.1	03/03/20	03/04/20	2010058	
Metals									
Calcium (Ca)	EPA 200.7	**51**	mg/L	1.0	0.080	03/12/20	03/12/20	2011102	
Magnesium (Mg)	EPA 200.7	**16**	mg/L	1.0	0.51	03/12/20	03/12/20	2011102	
Potassium (K)	EPA 200.7	**18**	mg/L	1.0	0.18	03/12/20	03/12/20	2011102	
Sodium (Na)	EPA 200.7	**94**	mg/L	1.0	0.21	03/12/20	03/12/20	2011102	

Stu Styles
Client Services Manager

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Beaumont, City of	Project: Maximum Benefit-Surface Water	Work Order: 20C0103
550 East 6th Street	Sub Project: Beaumont GMZ	Received: 03/03/20 09:35
Beaumont CA, 92223	Project Manager: Thaxton Van Belle	Reported: 03/13/20

CC - 03 **20C0103-02 (Water)** **Sample Date:** 03/02/20 12:15 **Sampler:** C. Hunter

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
General Chemical Analyses									
Alkalinity, Total (as CaCO3)	SM 2320 B	**220**	mg/L	5.0		03/06/20	03/06/20	2010036	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	03/09/20	03/10/20	2011019	
Bicarbonate (HCO3)	SM 2320 B	**270**	mg/L	5.0		03/06/20	03/06/20	2010036	
Carbonate (CO3)	SM 2320B	**0.96**	mg/L	5.0		03/06/20	03/06/20	2010036	J
Chloride (Cl)	EPA 300.0	**78**	mg/L	1.0	0.075	03/03/20	03/03/20	2010038	
Specific Conductance (E.C.)	SM 2510B	**760**	umhos/cm	2.0	0.20	03/03/20	03/03/20	2010036	
Fluoride (F)	EPA 300.0	**0.40**	mg/L	0.10	0.026	03/03/20	03/03/20	2010038	
Hardness, Total (as CaCO3)	Calculated	**180**	mg/L	6.6		03/12/20	03/12/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		03/06/20	03/06/20	2010036	
Inorganic Nitrogen	Calculated	**3.7**	mg/L	1.3		03/09/20	03/10/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	**3.7**	mg/L	0.40	0.12	03/03/20	03/03/20	2010038	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	03/03/20	03/03/20	2010038	
pH (Lab)	SM 4500HB	**8.3**	pH Units			03/03/20	03/03/20	2010036	
Sulfate (SO4)	EPA 300.0	**34**	mg/L	0.50	0.14	03/03/20	03/03/20	2010038	
Total Filterable Residue/TDS	SM 2540C	**460**	mg/L	5.0	3.1	03/03/20	03/04/20	2010058	
Metals									
Calcium (Ca)	EPA 200.7	**48**	mg/L	1.0	0.080	03/12/20	03/12/20	2011102	
Magnesium (Mg)	EPA 200.7	**15**	mg/L	1.0	0.51	03/12/20	03/12/20	2011102	
Potassium (K)	EPA 200.7	**16**	mg/L	1.0	0.18	03/12/20	03/12/20	2011102	
Sodium (Na)	EPA 200.7	**87**	mg/L	1.0	0.21	03/12/20	03/12/20	2011102	

Stu Styles
Client Services Manager

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Beaumont, City of	Project: Maximum Benefit-Surface Water	Work Order: 20C0103
550 East 6th Street	Sub Project: Beaumont GMZ	Received: 03/03/20 09:35
Beaumont CA, 92223	Project Manager: Thaxton Van Belle	Reported: 03/13/20

STC - 01 **20C0103-03 (Water)** **Sample Date:** 03/02/20 11:45 **Sampler:** C. Hunter

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
General Chemical Analyses									
Alkalinity, Total (as CaCO3)	SM 2320 B	**260**	mg/L	5.0		03/06/20	03/06/20	2010036	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	03/09/20	03/10/20	2011019	
Bicarbonate (HCO3)	SM 2320 B	**310**	mg/L	5.0		03/06/20	03/06/20	2010036	
Carbonate (CO3)	SM 2320B	**2.9**	mg/L	5.0		03/06/20	03/06/20	2010036	J
Chloride (Cl)	EPA 300.0	**77**	mg/L	1.0	0.075	03/03/20	03/03/20	2010038	
Specific Conductance (E.C.)	SM 2510B	**810**	umhos/cm	2.0	0.20	03/03/20	03/03/20	2010036	
Fluoride (F)	EPA 300.0	**0.51**	mg/L	0.10	0.026	03/03/20	03/03/20	2010038	
Hardness, Total (as CaCO3)	Calculated	**230**	mg/L	6.6		03/12/20	03/12/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		03/06/20	03/06/20	2010036	
Inorganic Nitrogen	Calculated	**2.1**	mg/L	1.3		03/09/20	03/10/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	**2.1**	mg/L	0.40	0.12	03/03/20	03/03/20	2010038	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	03/03/20	03/03/20	2010038	
pH (Lab)	SM 4500HB	**8.4**	pH Units			03/03/20	03/03/20	2010036	
Sulfate (SO4)	EPA 300.0	**36**	mg/L	0.50	0.14	03/03/20	03/03/20	2010038	
Total Filterable Residue/TDS	SM 2540C	**470**	mg/L	5.0	3.1	03/03/20	03/04/20	2010058	
Metals									
Calcium (Ca)	EPA 200.7	**60**	mg/L	1.0	0.080	03/12/20	03/12/20	2011102	
Magnesium (Mg)	EPA 200.7	**19**	mg/L	1.0	0.51	03/12/20	03/12/20	2011102	
Potassium (K)	EPA 200.7	**13**	mg/L	1.0	0.18	03/12/20	03/12/20	2011102	
Sodium (Na)	EPA 200.7	**89**	mg/L	1.0	0.21	03/12/20	03/12/20	2011102	

Stu Styles
Client Services Manager

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Beaumont, City of	Project: Maximum Benefit-Surface Water	Work Order: 20C0103
550 East 6th Street	Sub Project: Beaumont GMZ	Received: 03/03/20 09:35
Beaumont CA, 92223	Project Manager: Thaxton Van Belle	Reported: 03/13/20

STC - 02 **20C0103-04 (Water)** **Sample Date:** 03/02/20 11:15 **Sampler:** C. Hunter

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
General Chemical Analyses									
Alkalinity, Total (as CaCO3)	SM 2320 B	**240**	mg/L	5.0		03/06/20	03/06/20	2010036	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	03/09/20	03/10/20	2011019	
Bicarbonate (HCO3)	SM 2320 B	**300**	mg/L	5.0		03/06/20	03/06/20	2010036	
Carbonate (CO3)	SM 2320B	ND	mg/L	5.0		03/06/20	03/06/20	2010036	
Chloride (Cl)	EPA 300.0	**23**	mg/L	1.0	0.075	03/03/20	03/03/20	2010038	
Specific Conductance (E.C.)	SM 2510B	**550**	umhos/cm	2.0	0.20	03/03/20	03/03/20	2010036	
Fluoride (F)	EPA 300.0	**0.45**	mg/L	0.10	0.026	03/03/20	03/03/20	2010038	
Hardness, Total (as CaCO3)	Calculated	**220**	mg/L	6.6		03/12/20	03/12/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		03/06/20	03/06/20	2010036	
Inorganic Nitrogen	Calculated	ND	mg/L	1.3		03/09/20	03/10/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	**0.44**	mg/L	0.40	0.12	03/03/20	03/03/20	2010038	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	03/03/20	03/03/20	2010038	
pH (Lab)	SM 4500HB	**8.1**	pH Units			03/03/20	03/03/20	2010036	
Sulfate (SO4)	EPA 300.0	**14**	mg/L	0.50	0.14	03/03/20	03/03/20	2010038	
Total Filterable Residue/TDS	SM 2540C	**330**	mg/L	5.0	3.1	03/03/20	03/04/20	2010058	
Metals									
Calcium (Ca)	EPA 200.7	**54**	mg/L	1.0	0.080	03/12/20	03/12/20	2011102	
Magnesium (Mg)	EPA 200.7	**20**	mg/L	1.0	0.51	03/12/20	03/12/20	2011102	
Potassium (K)	EPA 200.7	**4.4**	mg/L	1.0	0.18	03/12/20	03/12/20	2011102	
Sodium (Na)	EPA 200.7	**42**	mg/L	1.0	0.21	03/12/20	03/12/20	2011102	

J Detected below the Reporting Limit; reported concentration is estimated; (J-Flag)

pH (Lab) was analyzed ASAP but received and analyzed past the 15 minute hold time.

ND Analyte NOT DETECTED at or above the MDL; Method Detection Limit

Stu Styles
Client Services Manager

Post Office Box 329 San Bernardino, CA 92402 (909) 825-7693 Fax (909) 825-7696 ELAP Number 1088

0/0/8

Clinical Lab of San Bernardino, Inc. Chain of Custody

WO 2000103

21881 Barton Road Grand Terrace CA 92313 909 825-7693 / 516-A N 8th St. Lompoc CA 93436 805 737-7300

Client	City of Beaumont
Address:	550 E. 6th St.
	Beaumont, CA. 92223
Client Contact:	Amer Jaker
Phone No.:	951-769-8520 FAX No.: 951-769-8526
System No.:	
Project:	Max Benefits - Beaumont GMZ
Sampled By:	CHunter
Comments:	

Email results to: Ajakher@ci.beaumont.ca.us, ckhunter@dudek.com, sstuart@dudek.com

Destination Laboratory

[X] Clinical Grand Terrace / ELAP 1088

[ ] Clinical Lompoc / ELAP 1678

[ ] Other:

Date	Time	Sample Identification	Container ID	Matrix	Sample Type	No. of Preserved Cont. Unpreserved	Na2S2O3	NH4Cl	C6H8O6	HNO3	HCl	NaOH	Na2SO3	ZnC4H6O4	ChlorAC	Total Containers	Total Dissolved Solids (SM 2540C)	Nitrate-N (EPA 300.0)	Nitrite-N (EPA 300.0)	Ammonia-N (EPA 350.1)	Alkalinity (inc. HCO3, CO3, and OH	Ca, Mg, K, Na (EPA 200.7)	Sulfate (EPA 300.0)	Specific Conductance (SM 2510B)	pH (SM 4500H+B)	Chloride (EPA 300.0)	Fluoride (EPA 300.0)	Comments	Turn Around Time (TAT)
3/2/20	12:45	CC-01	1	SW		X										2	X	X	X	X	X	X	X	X	X	X	X		10
	12:15	CC-03	3	SW		X										2	X	X	X	X	X	X	X	X	X	X	X		10
	11:45	STC-01	STC	SW		X										2	X	X	X	X	X	X	X	X	X	X	X		10
	11:15	STC-02	STC2	SW		X										2	X	X	X	X	X	X	X	X	X	X	X		10

Matrix: DW - Drinking Water GW - Ground Water SW - Surface Water W - Water WW - Wastewater SWR - Stormwater Runoff S - Sludge O - Other _____

Use for Bacteria Samples / Sample Type: 1-Routine 2-Repeat 3-Replacement 4-Special D-Distribution W-Well

TAT: (10) Ten Day (5) Five Day Rush (2) Two Day Rush

Relinquished By (Sign)	Print Name / Company	Date / Time	Received By (Sign)	Print Name / Company
	C. Hunter / Dudek	3/2/20		
	SM Stuart / CLSB	3/3/2020 - 815		SM Stuart / CLSB
		3/3/2020 - 935		

(Lab Use Only) Lompoc Lab Receipt Temp.: _____ °C

Shipped Via: [ ] Fed Ex [ ] Golden State Overnight [ ] UPS [ ] OnTrac [ ] USPS [ ] Other _____

Condition: [X] On Wet Ice [ ] On Blu Ice [X] Intact [ ] Custody Seals Samples / COC Checked By: _____ Work Order Logged By: _____

Receipt Comments: Clinical Lab Receipt Temp.: 1.7 °C

Beaumont, City of	Project: Maximum Benefit-Surface Water	Work Order: 20C1219
550 East 6th Street	Sub Project: Beaumont GMZ	Received: 03/15/20 09:45
Beaumont CA, 92223	Project Manager: Thaxton Van Belle	Reported: 04/15/20

CC - 01 **20C1219-01 (Water)** **Sample Date:** 03/14/20 14:45 **Sampler:** C. Hunter

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
General Chemical Analyses									
Alkalinity, Total (as CaCO3)	SM 2320 B	**220**	mg/L	5.0		03/20/20	03/20/20	2012038	
Ammonia as N (NH3-N)	EPA 350.1	**0.16**	mg/L	0.50	0.15	03/23/20	03/23/20	2012117	J
Bicarbonate (HCO3)	SM 2320 B	**270**	mg/L	5.0		03/20/20	03/20/20	2012038	
Carbonate (CO3)	SM 2320B	ND	mg/L	5.0		03/20/20	03/20/20	2012038	
Chloride (Cl)	EPA 300.0	**72**	mg/L	1.0	0.075	03/15/20	03/15/20	2011143	
Specific Conductance (E.C.)	SM 2510B	**720**	umhos/cm	2.0	0.20	03/17/20	03/17/20	2012038	
Fluoride (F)	EPA 300.0	**0.28**	mg/L	0.10	0.026	03/15/20	03/15/20	2011143	
Hardness, Total (as CaCO3)	Calculated	**170**	mg/L	6.6		03/19/20	03/19/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		03/20/20	03/20/20	2012038	
Inorganic Nitrogen	Calculated	**2.3**	mg/L	1.3		03/23/20	03/23/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	**2.2**	mg/L	0.40	0.12	03/15/20	03/15/20	2011143	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	03/15/20	03/15/20	2011143	
pH (Lab)	SM 4500HB	**8.1**	pH Units			03/17/20	03/17/20	2012038	
Sulfate (SO4)	EPA 300.0	**30**	mg/L	0.50	0.14	03/15/20	03/15/20	2011143	
Total Filterable Residue/TDS	SM 2540C	**420**	mg/L	5.0	3.1	03/16/20	03/18/20	2011110	
Metals									
Calcium (Ca)	EPA 200.7	**46**	mg/L	1.0	0.080	03/19/20	03/19/20	2012115	
Magnesium (Mg)	EPA 200.7	**14**	mg/L	1.0	0.51	03/19/20	03/19/20	2012115	
Potassium (K)	EPA 200.7	**15**	mg/L	1.0	0.18	03/19/20	03/19/20	2012115	
Sodium (Na)	EPA 200.7	**87**	mg/L	1.0	0.21	03/19/20	03/19/20	2012115	

Stu Styles
Client Services Manager

Post Office Box 329 San Bernardino, CA 92402 (909) 825-7693 Fax (909) 825-7696 ELAP Number 1088

Beaumont, City of	Project: Maximum Benefit-Surface Water	Work Order: 20C1219
550 East 6th Street	Sub Project: Beaumont GMZ	Received: 03/15/20 09:45
Beaumont CA, 92223	Project Manager: Thaxton Van Belle	Reported: 04/15/20

CC - 03 **20C1219-02 (Water)** **Sample Date:** 03/14/20 14:15 **Sampler:** C. Hunter

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
General Chemical Analyses									
Alkalinity, Total (as CaCO3)	SM 2320 B	**180**	mg/L	5.0		03/20/20	03/20/20	2012038	
Ammonia as N (NH3-N)	EPA 350.1	**0.17**	mg/L	0.50	0.15	03/23/20	03/23/20	2012117	J
Bicarbonate (HCO3)	SM 2320 B	**220**	mg/L	5.0		03/20/20	03/20/20	2012038	
Carbonate (CO3)	SM 2320B	ND	mg/L	5.0		03/20/20	03/20/20	2012038	
Chloride (Cl)	EPA 300.0	**54**	mg/L	1.0	0.075	03/15/20	03/15/20	2011143	
Specific Conductance (E.C.)	SM 2510B	**580**	umhos/cm	2.0	0.20	03/17/20	03/17/20	2012038	
Fluoride (F)	EPA 300.0	**0.25**	mg/L	0.10	0.026	03/15/20	03/15/20	2011143	
Hardness, Total (as CaCO3)	Calculated	**160**	mg/L	6.6		03/19/20	03/19/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		03/20/20	03/20/20	2012038	
Inorganic Nitrogen	Calculated	**1.7**	mg/L	1.3		03/23/20	03/23/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	**1.5**	mg/L	0.40	0.12	03/15/20	03/15/20	2011143	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	03/15/20	03/15/20	2011143	
pH (Lab)	SM 4500HB	**8.1**	pH Units			03/17/20	03/17/20	2012038	
Sulfate (SO4)	EPA 300.0	**24**	mg/L	0.50	0.14	03/15/20	03/15/20	2011143	
Total Filterable Residue/TDS	SM 2540C	**340**	mg/L	5.0	3.1	03/16/20	03/18/20	2011110	
Metals									
Calcium (Ca)	EPA 200.7	**42**	mg/L	1.0	0.080	03/19/20	03/19/20	2012115	
Magnesium (Mg)	EPA 200.7	**13**	mg/L	1.0	0.51	03/19/20	03/19/20	2012115	
Potassium (K)	EPA 200.7	**12**	mg/L	1.0	0.18	03/19/20	03/19/20	2012115	
Sodium (Na)	EPA 200.7	**68**	mg/L	1.0	0.21	03/19/20	03/19/20	2012115	

Stu Styles
Client Services Manager

Post Office Box 329 San Bernardino, CA 92402 (909) 825-7693 Fax (909) 825-7696 ELAP Number 1088

Beaumont, City of	Project: Maximum Benefit-Surface Water	Work Order: 20C1219
550 East 6th Street	Sub Project: Beaumont GMZ	Received: 03/15/20 09:45
Beaumont CA, 92223	Project Manager: Thaxton Van Belle	Reported: 04/15/20

STC - 01 **20C1219-03 (Water)** **Sample Date:** 03/14/20 13:45 **Sampler:** C. Hunter

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
General Chemical Analyses									
Alkalinity, Total (as CaCO3)	SM 2320 B	**220**	mg/L	5.0		03/20/20	03/20/20	2012038	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	03/23/20	03/23/20	2012117	
Bicarbonate (HCO3)	SM 2320 B	**270**	mg/L	5.0		03/20/20	03/20/20	2012038	
Carbonate (CO3)	SM 2320B	ND	mg/L	5.0		03/20/20	03/20/20	2012038	
Chloride (Cl)	EPA 300.0	**55**	mg/L	1.0	0.075	03/15/20	03/15/20	2011143	
Specific Conductance (E.C.)	SM 2510B	**650**	umhos/cm	2.0	0.20	03/17/20	03/17/20	2012038	
Fluoride (F)	EPA 300.0	**0.34**	mg/L	0.10	0.026	03/15/20	03/15/20	2011143	
Hardness, Total (as CaCO3)	Calculated	**240**	mg/L	6.6		03/19/20	03/19/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		03/20/20	03/20/20	2012038	
Inorganic Nitrogen	Calculated	ND	mg/L	1.3		03/23/20	03/23/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	**0.91**	mg/L	0.40	0.12	03/15/20	03/15/20	2011143	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	03/15/20	03/15/20	2011143	
pH (Lab)	SM 4500HB	**8.2**	pH Units			03/17/20	03/17/20	2012038	
Sulfate (SO4)	EPA 300.0	**32**	mg/L	0.50	0.14	03/15/20	03/15/20	2011143	
Total Filterable Residue/TDS	SM 2540C	**380**	mg/L	5.0	3.1	03/16/20	03/18/20	2011110	
Metals									
Calcium (Ca)	EPA 200.7	**61**	mg/L	1.0	0.080	03/19/20	03/19/20	2012115	
Magnesium (Mg)	EPA 200.7	**21**	mg/L	1.0	0.51	03/19/20	03/19/20	2012115	
Potassium (K)	EPA 200.7	**8.7**	mg/L	1.0	0.18	03/19/20	03/19/20	2012115	
Sodium (Na)	EPA 200.7	**70**	mg/L	1.0	0.21	03/19/20	03/19/20	2012115	

Stu Styles
Client Services Manager

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Beaumont, City of	Project: Maximum Benefit-Surface Water	Work Order: 20C1219
550 East 6th Street	Sub Project: Beaumont GMZ	Received: 03/15/20 09:45
Beaumont CA, 92223	Project Manager: Thaxton Van Belle	Reported: 04/15/20

STC - 02 **20C1219-04 (Water)** **Sample Date:** 03/14/20 13:15 **Sampler:** C. Hunter

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
General Chemical Analyses									
Alkalinity, Total (as CaCO3)	SM 2320 B	**120**	mg/L	5.0		03/20/20	03/20/20	2012038	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	03/23/20	03/23/20	2012117	
Bicarbonate (HCO3)	SM 2320 B	**150**	mg/L	5.0		03/20/20	03/20/20	2012038	
Carbonate (CO3)	SM 2320B	ND	mg/L	5.0		03/20/20	03/20/20	2012038	
Chloride (Cl)	EPA 300.0	**15**	mg/L	1.0	0.075	03/15/20	03/15/20	2011143	
Specific Conductance (E.C.)	SM 2510B	**310**	umhos/cm	2.0	0.20	03/17/20	03/17/20	2012038	
Fluoride (F)	EPA 300.0	**0.21**	mg/L	0.10	0.026	03/15/20	03/15/20	2011143	
Hardness, Total (as CaCO3)	Calculated	**120**	mg/L	6.6		03/19/20	03/19/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		03/20/20	03/20/20	2012038	
Inorganic Nitrogen	Calculated	ND	mg/L	1.3		03/23/20	03/23/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	**0.32**	mg/L	0.40	0.12	03/15/20	03/15/20	2011143	J
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	03/15/20	03/15/20	2011143	
pH (Lab)	SM 4500HB	**8.0**	pH Units			03/17/20	03/17/20	2012038	
Sulfate (SO4)	EPA 300.0	**10**	mg/L	0.50	0.14	03/15/20	03/15/20	2011143	
Total Filterable Residue/TDS	SM 2540C	**200**	mg/L	5.0	3.1	03/16/20	03/18/20	2011110	
Metals									
Calcium (Ca)	EPA 200.7	**31**	mg/L	1.0	0.080	03/19/20	03/19/20	2012115	
Magnesium (Mg)	EPA 200.7	**10**	mg/L	1.0	0.51	03/19/20	03/19/20	2012115	
Potassium (K)	EPA 200.7	**3.8**	mg/L	1.0	0.18	03/19/20	03/19/20	2012115	
Sodium (Na)	EPA 200.7	**22**	mg/L	1.0	0.21	03/19/20	03/19/20	2012115	

J Detected below the Reporting Limit; reported concentration is estimated; (J-Flag)

pH (Lab) was analyzed ASAP but received and analyzed past the 15 minute hold time.

ND Analyte NOT DETECTED at or above the MDL; Method Detection Limit

Stu Styles
Client Services Manager

Post Office Box 329 San Bernardino, CA 92402 (909) 825-7693 Fax (909) 825-7696 ELAP Number 1088

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WO 20C1219

Clinical Lab of San Bernardino, Inc. Chain of Custody

21881 Barton Road Grand Terrace CA 92313 909 825-7693 / 516-A N 8th St. Lompoc CA 93436 805 737-7300

Client	City of Beaumont
Address:	550 E. 6th St.
	Beaumont, CA. 92223
Client Contact:	Amer Jaker
Phone No.:	951-769-8520 FAX No.: 951-769-8526
System No.:	
Project:	Max Benefits - Beaumont GMZ
Sampled By:	C. Hunter
Comments:	

Email results to: Ajakher@ci.beaumont.ca.us, ckhunter@dudek.com, sstuart@dudek.com

Destination Laboratory

[X] Clinical Grand Terrace / ELAP 1088

[ ] Clinical Lompoc / ELAP 1678

[ ] Other:

Date	Time	Sample Identification	Container ID	Matrix	Sample Type	No. of Preserved Cont: Unpreserved	Na2S2O3	NH4Cl	C6H8O6	HNO3	HCl	NaOH	Na2SO3	ZnC4H6O4	ChlorAC	Total Containers	Total Dissolved Solids (SM 2540C)	Nitrate-N (EPA 300.0)	Nitrite-N (EPA 300.0)	Ammonia-N (EPA 350.1)	Alkalinity (inc. HCO3, CO3, and OH	Ca, Mg, K, Na (EPA 200.7)	Sulfate (EPA 300.0)	Specific Conductance (SM 2510B)	pH (SM 4500H+B)	Chloride (EPA 300.0)	Fluoride (EPA 300.0)	Comments	Turn Around Time (TAT)
3/14/20	14:45	CC-01	1	SW		X										2	X	X	X	X	X	X	X	X	X	X	X		10
	14:15	CC-03	3	SW		X										2	X	X	X	X	X	X	X	X	X	X	X		10
	13:45	STC-01	STC	SW		X										2	X	X	X	X	X	X	X	X	X	X	X		10
	13:15	STC-02	S2	SW		X										2	X	X	X	X	X	X	X	X	X	X	X		10

Matrix: DW - Drinking Water GW - Ground Water SW - Surface Water W - Water WW - Wastewater SWR - Stormwater Runoff S - Sludge O - Other

Use for Bacteria Samples / Sample Type: 1-Routine 2-Repeat 3-Replacement 4-Special D-Distribution W-Well

TAT: (10) Ten Day (5) Five Day Rush (2) Two Day Rush

Relinquished By (Sign)	Print Name / Company	Date / Time	Received By (Sign)	Print Name / Company
[signature]	C. Hunter / Dudek	3/14/20 1500	[signature]	[signature]
[signature]	[signature]	3/14/20 945	[signature]	CLSD

(Lab Use Only) Lompoc Lab Receipt Temp.: _____ °C

Shipped Via: [ ] Fed Ex [ ] Golden State Overnight [ ] UPS [ ] OnTrac [ ] USPS [ ] Other _____

Condition: [X] On Wet Ice [ ] On Blu Ice [X] Intact [ ] Custody Seals Samples / COC Checked By: _____ Work Order Logged By: _____

Receipt Comments: Clinical Lab Receipt Temp.: 4.5 °C

Beaumont, City of	Project: Maximum Benefit-Surface Water	Work Order: 20D0329
550 East 6th Street	Sub Project: Beaumont GMZ	Received: 04/05/20 09:10
Beaumont CA, 92223	Project Manager: Thaxton Van Belle	Reported: 04/15/20

CC - 01 **20D0329-01 (Water)** **Sample Date:** 04/04/20 14:00 **Sampler:** C. Hunter

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
General Chemical Analyses									
Alkalinity, Total (as CaCO3)	SM 2320 B	**220**	mg/L	5.0		04/08/20	04/08/20	2015016	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	04/07/20	04/09/20	2015057	
Bicarbonate (HCO3)	SM 2320 B	**270**	mg/L	5.0		04/08/20	04/08/20	2015016	
Carbonate (CO3)	SM 2320B	ND	mg/L	5.0		04/08/20	04/08/20	2015016	
Chloride (Cl)	EPA 300.0	**78**	mg/L	1.0	0.075	04/05/20	04/05/20	2014137	
Specific Conductance (E.C.)	SM 2510B	**750**	umhos/cm	2.0	0.20	04/06/20	04/06/20	2015016	
Fluoride (F)	EPA 300.0	**0.23**	mg/L	0.10	0.026	04/05/20	04/05/20	2014137	
Hardness, Total (as CaCO3)	Calculated	**180**	mg/L	6.6		04/09/20	04/09/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		04/08/20	04/08/20	2015016	
Inorganic Nitrogen	Calculated	**2.0**	mg/L	1.3		04/07/20	04/09/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	**2.0**	mg/L	0.40	0.12	04/05/20	04/05/20	2014137	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	04/05/20	04/05/20	2014137	
pH (Lab)	SM 4500HB	**8.3**	pH Units			04/06/20	04/06/20	2015016	
Sulfate (SO4)	EPA 300.0	**34**	mg/L	0.50	0.14	04/05/20	04/05/20	2014137	
Total Filterable Residue/TDS	SM 2540C	**440**	mg/L	5.0	3.1	04/06/20	04/07/20	2015008	
Metals									
Calcium (Ca)	EPA 200.7	**47**	mg/L	1.0	0.080	04/09/20	04/09/20	2015106	
Magnesium (Mg)	EPA 200.7	**14**	mg/L	1.0	0.51	04/09/20	04/09/20	2015106	
Potassium (K)	EPA 200.7	**18**	mg/L	1.0	0.18	04/09/20	04/09/20	2015106	
Sodium (Na)	EPA 200.7	**88**	mg/L	1.0	0.21	04/09/20	04/09/20	2015106	

Stu Styles
Client Services Manager

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Beaumont, City of	Project: Maximum Benefit-Surface Water	Work Order: 20D0329
550 East 6th Street	Sub Project: Beaumont GMZ	Received: 04/05/20 09:10
Beaumont CA, 92223	Project Manager: Thaxton Van Belle	Reported: 04/15/20

CC - 03 **20D0329-02 (Water)** **Sample Date:** 04/04/20 13:15 **Sampler:** C. Hunter

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
General Chemical Analyses									
Alkalinity, Total (as CaCO3)	SM 2320 B	**230**	mg/L	5.0		04/08/20	04/08/20	2015016	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	04/07/20	04/09/20	2015057	
Bicarbonate (HCO3)	SM 2320 B	**270**	mg/L	5.0		04/08/20	04/08/20	2015016	
Carbonate (CO3)	SM 2320B	**4.3**	mg/L	5.0		04/08/20	04/08/20	2015016	J
Chloride (Cl)	EPA 300.0	**78**	mg/L	1.0	0.075	04/05/20	04/05/20	2014137	
Specific Conductance (E.C.)	SM 2510B	**750**	umhos/cm	2.0	0.20	04/06/20	04/06/20	2015016	
Fluoride (F)	EPA 300.0	**0.24**	mg/L	0.10	0.026	04/05/20	04/05/20	2014137	
Hardness, Total (as CaCO3)	Calculated	**180**	mg/L	6.6		04/09/20	04/09/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		04/08/20	04/08/20	2015016	
Inorganic Nitrogen	Calculated	**1.5**	mg/L	1.3		04/07/20	04/09/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	**1.5**	mg/L	0.40	0.12	04/05/20	04/05/20	2014137	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	04/05/20	04/05/20	2014137	
pH (Lab)	SM 4500HB	**8.4**	pH Units			04/06/20	04/06/20	2015016	
Sulfate (SO4)	EPA 300.0	**33**	mg/L	0.50	0.14	04/05/20	04/05/20	2014137	
Total Filterable Residue/TDS	SM 2540C	**450**	mg/L	5.0	3.1	04/06/20	04/07/20	2015008	
Metals									
Calcium (Ca)	EPA 200.7	**49**	mg/L	1.0	0.080	04/09/20	04/09/20	2015106	
Magnesium (Mg)	EPA 200.7	**15**	mg/L	1.0	0.51	04/09/20	04/09/20	2015106	
Potassium (K)	EPA 200.7	**17**	mg/L	1.0	0.18	04/09/20	04/09/20	2015106	
Sodium (Na)	EPA 200.7	**91**	mg/L	1.0	0.21	04/09/20	04/09/20	2015106	

Stu Styles
Client Services Manager

Post Office Box 329 San Bernardino, CA 92402 (909) 825-7693 Fax (909) 825-7696 ELAP Number 1088

Beaumont, City of	Project: Maximum Benefit-Surface Water	Work Order: 20D0329
550 East 6th Street	Sub Project: Beaumont GMZ	Received: 04/05/20 09:10
Beaumont CA, 92223	Project Manager: Thaxton Van Belle	Reported: 04/15/20

STC - 01 **20D0329-03 (Water)** **Sample Date:** 04/04/20 12:15 **Sampler:** C. Hunter

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
General Chemical Analyses									
Alkalinity, Total (as CaCO3)	SM 2320 B	**280**	mg/L	5.0		04/08/20	04/08/20	2015016	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	04/07/20	04/09/20	2015057	
Bicarbonate (HCO3)	SM 2320 B	**340**	mg/L	5.0		04/08/20	04/08/20	2015016	
Carbonate (CO3)	SM 2320B	**5.3**	mg/L	5.0		04/08/20	04/08/20	2015016	
Chloride (Cl)	EPA 300.0	**83**	mg/L	1.0	0.075	04/05/20	04/05/20	2014137	
Specific Conductance (E.C.)	SM 2510B	**860**	umhos/cm	2.0	0.20	04/06/20	04/06/20	2015016	
Fluoride (F)	EPA 300.0	**0.34**	mg/L	0.10	0.026	04/05/20	04/05/20	2014137	
Hardness, Total (as CaCO3)	Calculated	**270**	mg/L	6.6		04/09/20	04/09/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		04/08/20	04/08/20	2015016	
Inorganic Nitrogen	Calculated	ND	mg/L	1.3		04/07/20	04/09/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	**1.2**	mg/L	0.40	0.12	04/05/20	04/05/20	2014137	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	04/05/20	04/05/20	2014137	
pH (Lab)	SM 4500HB	**8.4**	pH Units			04/06/20	04/06/20	2015016	
Sulfate (SO4)	EPA 300.0	**40**	mg/L	0.50	0.14	04/05/20	04/05/20	2014137	
Total Filterable Residue/TDS	SM 2540C	**480**	mg/L	5.0	3.1	04/07/20	04/08/20	2015031	
Metals									
Calcium (Ca)	EPA 200.7	**72**	mg/L	1.0	0.080	04/09/20	04/09/20	2015106	
Magnesium (Mg)	EPA 200.7	**22**	mg/L	1.0	0.51	04/09/20	04/09/20	2015106	
Potassium (K)	EPA 200.7	**12**	mg/L	1.0	0.18	04/09/20	04/09/20	2015106	
Sodium (Na)	EPA 200.7	**100**	mg/L	1.0	0.21	04/09/20	04/09/20	2015106	

J Detected below the Reporting Limit; reported concentration is estimated; (J-Flag)

pH (Lab) was analyzed ASAP but received and analyzed past the 15 minute hold time.

ND Analyte NOT DETECTED at or above the MDL; Method Detection Limit

Stu Styles
Client Services Manager

Post Office Box 329 San Bernardino, CA 92402 (909) 825-7693 Fax (909) 825-7696 ELAP Number 1088

o/o/4

Clinical Lab of San Bernardino, Inc. Chain of Custody

WO 20D0329

21881 Barton Road Grand Terrace CA 92313 909 825-7693 / 516-A N 8th St. Lompoc CA 93436 805 737-7300

Client	City of Beaumont
Address:	550 E. 6th St.
	Beaumont, CA. 92223
Client Contact:	Amer Jaker
Phone No.:	951-769-8520 FAX No.: 951-769-8526
System No.:	
Project:	Max Benefits - Beaumont GMZ
Sampled By:	C Hunter
Comments:	

Email results to: Ajakher@ci.beaumont.ca.us, ckhunter@dudek.com, sstuart@dudek.com

Destination Laboratory

[X] Clinical Grand Terrace / ELAP 1088

[ ] Clinical Lompoc / ELAP 1678

[ ] Other:

Date	Time	Sample Identification	Container ID	Matrix	Sample Type	No. of Preserved Cont: Unpreserved	$Na_2S_2O_3$	NH_4Cl	$C_6H_8O_6$	HNO_3	HCl	NaOH	Na_2SO_3	$ZnC_4H_6O_4$	$CHBr_3Cl_2$	Total Containers	Total Dissolved Solids (SM 2540C)	Nitrate-N (EPA 300.0)	Nitrite-N (EPA 300.0)	Ammonia-N (EPA 350.1)	Alkalinity (inc. HCO_3, CO_3, and OH)	Ca, Mg, K, Na (EPA 200.7)	Sulfate (EPA 300.0)	Specific Conductance (SM 2510B)	pH (SM 4500H+B)	Chloride (EPA 300.0)	Fluoride (EPA 300.0)	Comments	Turn Around Time, TAT:
4/4/20	9:00	CC-01	1	SW		X										2	X	X	X	X	X	X	X	X	X	X	X		10
1	13:15	CC-03	3	SW		X										2	X	X	X	X	X	X	X	X	X	X	X		10
	12:15	STC-01	STC	SW		X										2	X	X	X	X	X	X	X	X	X	X	X		10

Matrix: DW - Drinking Water GW - Ground Water SW - Surface Water W - Water WW - Wastewater SWR - Stormwater Runoff S - Sludge O - Other _____

Use for Bacteria Samples / Sample Type: 1-Routine 2-Repeat 3-Replacement 4-Special D-Distribution W-Well

TAT: (10) Ten Day (5) Five Day Rush (2) Two Day Rush

Relinquished By (Sign)	Print Name / Company	Date / Time	Received By (Sign)	Print Name / Company
	C Hunter / Dudek	4/4/20 15:15	4/5/20 8:15	
	Chris Martinez	4-5-2020 " "	C Du	CSB / DD

(Lab Use Only) Lompoc Lab Receipt Temp.: _____ °C

Shipped Via: [ ] Fed Ex [ ] Golden State Overnight [ ] UPS [ ] OnTrac [ ] USPS [ ] Other _____

Condition: [ ] On Wet Ice [ ] On Blu Ice [ ] Intact [ ] Custody Seals Samples / COC Checked By: _____ Work Order Logged By: _____

Receipt Comments: Clinical Lab Receipt Temp.: 2.8 °C

Beaumont, City of	Project: Maximum Benefit-Surface Water	Work Order: 20D1495
550 East 6th Street	Sub Project: Beaumont GMZ	Received: 04/19/20 09:50
Beaumont CA, 92223	Project Manager: Thaxton Van Belle	Reported: 04/29/20

CC - 01 **20D1495-01 (Water)** **Sample Date:** 04/18/20 15:30 **Sampler:** C. Hunter

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
General Chemical Analyses									
Alkalinity, Total (as CaCO3)	SM 2320 B	**230**	mg/L	5.0		04/24/20	04/24/20	2017004	
Ammonia as N (NH3-N)	EPA 350.1	**0.70**	mg/L	0.50	0.15	04/24/20	04/27/20	2017163	
Bicarbonate (HCO3)	SM 2320 B	**280**	mg/L	5.0		04/24/20	04/24/20	2017004	
Carbonate (CO3)	SM 2320B	ND	mg/L	5.0		04/24/20	04/24/20	2017004	
Chloride (Cl)	EPA 300.0	**84**	mg/L	1.0	0.075	04/19/20	04/19/20	2016147	
Specific Conductance (E.C.)	SM 2510B	**800**	umhos/cm	2.0	0.20	04/21/20	04/21/20	2017004	
Fluoride (F)	EPA 300.0	**0.37**	mg/L	0.10	0.026	04/19/20	04/19/20	2016147	
Hardness, Total (as CaCO3)	Calculated	**190**	mg/L	6.6		04/22/20	04/23/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		04/24/20	04/24/20	2017004	
Inorganic Nitrogen	Calculated	**2.1**	mg/L	1.3		04/24/20	04/27/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	**1.4**	mg/L	0.40	0.12	04/19/20	04/19/20	2016147	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	04/19/20	04/19/20	2016147	
pH (Lab)	SM 4500HB	**8.0**	pH Units			04/21/20	04/21/20	2017004	
Sulfate (SO4)	EPA 300.0	**33**	mg/L	0.50	0.14	04/19/20	04/19/20	2016147	
Total Filterable Residue/TDS	SM 2540C	**460**	mg/L	5.0	3.1	04/20/20	04/22/20	2017023	
Metals									
Calcium (Ca)	EPA 200.7	**51**	mg/L	1.0	0.080	04/22/20	04/23/20	2017099	
Magnesium (Mg)	EPA 200.7	**14**	mg/L	1.0	0.51	04/22/20	04/23/20	2017099	
Potassium (K)	EPA 200.7	**17**	mg/L	1.0	0.18	04/22/20	04/23/20	2017099	
Sodium (Na)	EPA 200.7	**93**	mg/L	1.0	0.21	04/22/20	04/23/20	2017099	

Stu Styles
Client Services Manager

Post Office Box 329 San Bernardino, CA 92402 (909) 825-7693 Fax (909) 825-7696 ELAP Number 1088

Beaumont, City of	Project: Maximum Benefit-Surface Water	Work Order: 20D1495
550 East 6th Street	Sub Project: Beaumont GMZ	Received: 04/19/20 09:50
Beaumont CA, 92223	Project Manager: Thaxton Van Belle	Reported: 04/29/20

CC - 03 **20D1495-02 (Water)** **Sample Date:** 04/18/20 14:45 **Sampler:** C. Hunter

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
General Chemical Analyses									
Alkalinity, Total (as CaCO3)	SM 2320 B	**220**	mg/L	5.0		04/24/20	04/24/20	2017004	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	04/24/20	04/27/20	2017163	
Bicarbonate (HCO3)	SM 2320 B	**260**	mg/L	5.0		04/24/20	04/24/20	2017004	
Carbonate (CO3)	SM 2320B	ND	mg/L	5.0		04/24/20	04/24/20	2017004	
Chloride (Cl)	EPA 300.0	**76**	mg/L	1.0	0.075	04/19/20	04/19/20	2016147	
Specific Conductance (E.C.)	SM 2510B	**740**	umhos/cm	2.0	0.20	04/21/20	04/21/20	2017004	
Fluoride (F)	EPA 300.0	**0.32**	mg/L	0.10	0.026	04/19/20	04/19/20	2016147	
Hardness, Total (as CaCO3)	Calculated	**180**	mg/L	6.6		04/22/20	04/23/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		04/24/20	04/24/20	2017004	
Inorganic Nitrogen	Calculated	**1.7**	mg/L	1.3		04/24/20	04/27/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	**1.7**	mg/L	0.40	0.12	04/19/20	04/19/20	2016147	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	04/19/20	04/19/20	2016147	
pH (Lab)	SM 4500HB	**8.2**	pH Units			04/21/20	04/21/20	2017004	
Sulfate (SO4)	EPA 300.0	**31**	mg/L	0.50	0.14	04/19/20	04/19/20	2016147	
Total Filterable Residue/TDS	SM 2540C	**430**	mg/L	5.0	3.1	04/20/20	04/22/20	2017023	
Metals									
Calcium (Ca)	EPA 200.7	**50**	mg/L	1.0	0.080	04/22/20	04/23/20	2017099	
Magnesium (Mg)	EPA 200.7	**14**	mg/L	1.0	0.51	04/22/20	04/23/20	2017099	
Potassium (K)	EPA 200.7	**16**	mg/L	1.0	0.18	04/22/20	04/23/20	2017099	
Sodium (Na)	EPA 200.7	**86**	mg/L	1.0	0.21	04/22/20	04/23/20	2017099	

Stu Styles
Client Services Manager

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Beaumont, City of	Project: Maximum Benefit-Surface Water	Work Order: 20D1495
550 East 6th Street	Sub Project: Beaumont GMZ	Received: 04/19/20 09:50
Beaumont CA, 92223	Project Manager: Thaxton Van Belle	Reported: 04/29/20

STC - 01 **20D1495-03 (Water)** **Sample Date:** 04/18/20 14:00 **Sampler:** C. Hunter

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
General Chemical Analyses									
Alkalinity, Total (as CaCO3)	SM 2320 B	**290**	mg/L	5.0		04/24/20	04/24/20	2017004	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	04/24/20	04/27/20	2017163	
Bicarbonate (HCO3)	SM 2320 B	**350**	mg/L	5.0		04/24/20	04/24/20	2017004	
Carbonate (CO3)	SM 2320B	**0.96**	mg/L	5.0		04/24/20	04/24/20	2017004	J
Chloride (Cl)	EPA 300.0	**82**	mg/L	1.0	0.075	04/19/20	04/19/20	2016147	
Specific Conductance (E.C.)	SM 2510B	**890**	umhos/cm	2.0	0.20	04/21/20	04/21/20	2017004	
Fluoride (F)	EPA 300.0	**0.52**	mg/L	0.10	0.026	04/19/20	04/19/20	2016147	
Hardness, Total (as CaCO3)	Calculated	**280**	mg/L	6.6		04/22/20	04/23/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		04/24/20	04/24/20	2017004	
Inorganic Nitrogen	Calculated	**1.5**	mg/L	1.3		04/24/20	04/27/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	**1.5**	mg/L	0.40	0.12	04/19/20	04/19/20	2016147	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	04/19/20	04/19/20	2016147	
pH (Lab)	SM 4500HB	**8.4**	pH Units			04/21/20	04/21/20	2017004	
Sulfate (SO4)	EPA 300.0	**46**	mg/L	0.50	0.14	04/19/20	04/19/20	2016147	
Total Filterable Residue/TDS	SM 2540C	**530**	mg/L	5.0	3.1	04/20/20	04/22/20	2017023	
Metals									
Calcium (Ca)	EPA 200.7	**73**	mg/L	1.0	0.080	04/22/20	04/23/20	2017099	
Magnesium (Mg)	EPA 200.7	**23**	mg/L	1.0	0.51	04/22/20	04/23/20	2017099	
Potassium (K)	EPA 200.7	**12**	mg/L	1.0	0.18	04/22/20	04/23/20	2017099	
Sodium (Na)	EPA 200.7	**100**	mg/L	1.0	0.21	04/22/20	04/23/20	2017099	

J Detected below the Reporting Limit; reported concentration is estimated; (J-Flag)

pH (Lab) was analyzed ASAP but received and analyzed past the 15 minute hold time.

ND Analyte NOT DETECTED at or above the MDL; Method Detection Limit

Stu Styles
Client Services Manager

Post Office Box 329 San Bernardino, CA 92402 (909) 825-7693 Fax (909) 825-7696 ELAP Number 1088

0/0/3 WO 20D1495

Clinical Lab of San Bernardino, Inc. Chain of Custody

21881 Barton Road Grand Terrace CA 92313 909 825-7693 / 516-A N 8th St. Lompoc CA 93436 805 737-7300

Client	City of Beaumont
Address:	550 E. 6th St.
	Beaumont, CA. 92223
Client Contact:	Amer Jaker
Phone No.:	951-769-8520 FAX No.: 951-769-8526
System No.:	
Project:	Max Benefits - Beaumont GMZ
Sampled By:	C Hunter
Comments:	

Email results to: Ajakher@ci.beaumont.ca.us, ckhunter@dudek.com, sstuart@dudek.com

Destination Laboratory

[X] Clinical Grand Terrace / ELAP 1088
[ ] Clinical Lompoc / ELAP 1678
[ ] Other:

Date	Time	Sample Identification	Container ID	Matrix	[illegible]	[illegible]	Na2S2O3	NH4Cl	C6H8O6	HNO3	HCl	NaOH	Na2SO3	ZnC4H6O4	ChlorAC	Total Containers	Total Dissolved Solids (SM 2540C)	~~Nitrate-N (EPA 300.0)~~ Con 4/19/20 RG	Nitrite-N (EPA 300.0)	Ammonia-N (EPA 350.1)	Alkalinity (inc. HCO3, CO3, and OH)	Ca, Mg, K, Na (EPA 200.7)	Sulfate (EPA 300.0)	Specific Conductance (SM 2510B)	pH (SM 4500H+B)	Chloride (EPA 300.0)	Fluoride (EPA 300.0)	Comments	TAT
4/18/20	15:30	CC-01	1	SW		X										1	X	X	X	X	X	X	X	X	X	X	X		10
|	14:45	CC-03	3	SW		X										1	X	X	X	X	X	X	X	X	X	X	X		10
|	14:00	STC-01	STC	SW		X										1	X	X	X	X	X	X	X	X	X	X	X		10

Matrix: DW - Drinking Water GW - Ground Water SW - Surface Water W - Water WW - Wastewater SWR - Stormwater Runoff S - Sludge O - Other

Use for Bacteria Samples / Sample Type: 1-Routine 2-Repeat 3-Replacement 4-Special D-Distribution W-Well TAT: (10) Ten Day (5) Five Day Rush (2) Two Day Rush

Relinquished By (Sign)	Print Name / Company	Date / Time	Received By (Sign)	Print Name / Company
[signature]	C Hunter / Dudek	4/18/20 15:40	[signature]	[illegible] CLSB
[signature]	LeBaron [illegible] CLSB	4/19/20 0930	HF / [signature]	[illegible] CLSB

(Lab Use Only) Lompoc Lab Receipt Temp.: ____ °C

Shipped Via: [ ] Fed Ex [ ] Golden State Overnight [ ] UPS [ ] OnTrac [ ] USPS [ ] Other ____

Condition: [ ] On Wet Ice [ ] On Blu Ice [ ] Intact [ ] Custody Seals Samples / COC Checked By: ____ Work Order Logged By: ____

Receipt Comments: Clinical Lab Receipt Temp.: 5.5 c

Beaumont, City of	Project: Maximum Benefit-Surface Water	Work Order: 20D2246
550 East 6th Street	Sub Project: Beaumont GMZ	Received: 04/29/20 08:35
Beaumont CA, 92223	Project Manager: Thaxton Van Belle	Reported: 05/08/20

CC - 01 **20D2246-01 (Water)** **Sample Date:** 04/28/20 13:30 **Sampler:** C. Hunter

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
General Chemical Analyses									
Alkalinity, Total (as CaCO3)	SM 2320 B	**230**	mg/L	5.0		05/05/20	05/05/20	2018065	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	04/30/20	05/01/20	2018117	
Bicarbonate (HCO3)	SM 2320 B	**290**	mg/L	5.0		05/05/20	05/05/20	2018065	
Carbonate (CO3)	SM 2320B	ND	mg/L	5.0		05/05/20	05/05/20	2018065	
Chloride (Cl)	EPA 300.0	**81**	mg/L	1.0	0.075	04/29/20	04/29/20	2018073	
Specific Conductance (E.C.)	SM 2510B	**790**	umhos/cm	2.0	0.20	04/29/20	04/29/20	2018065	
Fluoride (F)	EPA 300.0	**0.34**	mg/L	0.10	0.026	04/29/20	04/29/20	2018073	
Hardness, Total (as CaCO3)	Calculated	**190**	mg/L	6.6		05/04/20	05/04/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		05/05/20	05/05/20	2018065	
Inorganic Nitrogen	Calculated	ND	mg/L	1.3		04/30/20	05/01/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	**0.65**	mg/L	0.40	0.12	04/29/20	04/29/20	2018073	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	04/29/20	04/29/20	2018073	
pH (Lab)	SM 4500HB	**8.3**	pH Units			04/29/20	04/29/20	2018065	
Sulfate (SO4)	EPA 300.0	**34**	mg/L	0.50	0.14	04/29/20	04/29/20	2018073	
Total Filterable Residue/TDS	SM 2540C	**440**	mg/L	5.0	3.1	04/30/20	05/06/20	2018096	
Metals									
Calcium (Ca)	EPA 200.7	**50**	mg/L	1.0	0.080	05/04/20	05/04/20	2019015	
Magnesium (Mg)	EPA 200.7	**15**	mg/L	1.0	0.51	05/04/20	05/04/20	2019015	
Potassium (K)	EPA 200.7	**17**	mg/L	1.0	0.18	05/04/20	05/04/20	2019015	
Sodium (Na)	EPA 200.7	**89**	mg/L	1.0	0.21	05/04/20	05/04/20	2019015	

Stu Styles
Client Services Manager

Post Office Box 329 San Bernardino, CA 92402 (909) 825-7693 Fax (909) 825-7696 ELAP Number 1088

Beaumont, City of	Project: Maximum Benefit-Surface Water	Work Order: 20D2246
550 East 6th Street	Sub Project: Beaumont GMZ	Received: 04/29/20 08:35
Beaumont CA, 92223	Project Manager: Thaxton Van Belle	Reported: 05/08/20

CC - 03 **20D2246-02 (Water)** **Sample Date:** 04/28/20 12:45 **Sampler:** C. Hunter

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
General Chemical Analyses									
Alkalinity, Total (as CaCO3)	SM 2320 B	**230**	mg/L	5.0		05/05/20	05/05/20	2018065	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	04/30/20	05/01/20	2018117	
Bicarbonate (HCO3)	SM 2320 B	**280**	mg/L	5.0		05/05/20	05/05/20	2018065	
Carbonate (CO3)	SM 2320B	**5.3**	mg/L	5.0		05/05/20	05/05/20	2018065	
Chloride (Cl)	EPA 300.0	**81**	mg/L	1.0	0.075	04/29/20	04/29/20	2018073	
Specific Conductance (E.C.)	SM 2510B	**780**	umhos/cm	2.0	0.20	04/29/20	04/29/20	2018065	
Fluoride (F)	EPA 300.0	**0.35**	mg/L	0.10	0.026	04/29/20	04/29/20	2018073	
Hardness, Total (as CaCO3)	Calculated	**190**	mg/L	6.6		05/04/20	05/04/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		05/05/20	05/05/20	2018065	
Inorganic Nitrogen	Calculated	ND	mg/L	1.3		04/30/20	05/01/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	**1.2**	mg/L	0.40	0.12	04/29/20	04/29/20	2018073	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	04/29/20	04/29/20	2018073	
pH (Lab)	SM 4500HB	**8.5**	pH Units			04/29/20	04/29/20	2018065	
Sulfate (SO4)	EPA 300.0	**34**	mg/L	0.50	0.14	04/29/20	04/29/20	2018073	
Total Filterable Residue/TDS	SM 2540C	**450**	mg/L	5.0	3.1	04/30/20	05/06/20	2018096	
Metals									
Calcium (Ca)	EPA 200.7	**51**	mg/L	1.0	0.080	05/04/20	05/04/20	2019015	
Magnesium (Mg)	EPA 200.7	**16**	mg/L	1.0	0.51	05/04/20	05/04/20	2019015	
Potassium (K)	EPA 200.7	**16**	mg/L	1.0	0.18	05/04/20	05/04/20	2019015	
Sodium (Na)	EPA 200.7	**89**	mg/L	1.0	0.21	05/04/20	05/04/20	2019015	

Stu Styles
Client Services Manager

Post Office Box 329 San Bernardino, CA 92402 (909) 825-7693 Fax (909) 825-7696 ELAP Number 1088

Beaumont, City of	Project: Maximum Benefit-Surface Water	Work Order: 20D2246
550 East 6th Street	Sub Project: Beaumont GMZ	Received: 04/29/20 08:35
Beaumont CA, 92223	Project Manager: Thaxton Van Belle	Reported: 05/08/20

STC - 01 **20D2246-03 (Water)** **Sample Date:** 04/28/20 12:00 **Sampler:** C. Hunter

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
General Chemical Analyses									
Alkalinity, Total (as CaCO3)	SM 2320 B	**280**	mg/L	5.0		05/05/20	05/05/20	2018065	
Ammonia as N (NH3-N)	EPA 350.1	**0.19**	mg/L	0.50	0.15	04/30/20	05/01/20	2018117	J
Bicarbonate (HCO3)	SM 2320 B	**330**	mg/L	5.0		05/05/20	05/05/20	2018065	
Carbonate (CO3)	SM 2320B	**6.7**	mg/L	5.0		05/05/20	05/05/20	2018065	
Chloride (Cl)	EPA 300.0	**85**	mg/L	1.0	0.075	04/29/20	04/29/20	2018073	
Specific Conductance (E.C.)	SM 2510B	**870**	umhos/cm	2.0	0.20	04/29/20	04/29/20	2018065	
Fluoride (F)	EPA 300.0	**0.53**	mg/L	0.10	0.026	04/29/20	04/29/20	2018073	
Hardness, Total (as CaCO3)	Calculated	**250**	mg/L	6.6		05/04/20	05/04/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		05/05/20	05/05/20	2018065	
Inorganic Nitrogen	Calculated	**1.3**	mg/L	1.3		04/30/20	05/01/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	**1.1**	mg/L	0.40	0.12	04/29/20	04/29/20	2018073	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	04/29/20	04/29/20	2018073	
pH (Lab)	SM 4500HB	**8.5**	pH Units			04/29/20	04/29/20	2018065	
Sulfate (SO4)	EPA 300.0	**39**	mg/L	0.50	0.14	04/29/20	04/29/20	2018073	
Total Filterable Residue/TDS	SM 2540C	**500**	mg/L	5.0	3.1	04/30/20	05/06/20	2018096	
Metals									
Calcium (Ca)	EPA 200.7	**65**	mg/L	1.0	0.080	05/04/20	05/04/20	2019015	
Magnesium (Mg)	EPA 200.7	**21**	mg/L	1.0	0.51	05/04/20	05/04/20	2019015	
Potassium (K)	EPA 200.7	**13**	mg/L	1.0	0.18	05/04/20	05/04/20	2019015	
Sodium (Na)	EPA 200.7	**93**	mg/L	1.0	0.21	05/04/20	05/04/20	2019015	

J Detected below the Reporting Limit; reported concentration is estimated; (J-Flag)

pH (Lab) was analyzed ASAP but received and analyzed past the 15 minute hold time.

ND Analyte NOT DETECTED at or above the MDL; Method Detection Limit

Stu Styles
Client Services Manager

Post Office Box 329 San Bernardino, CA 92402 (909) 825-7693 Fax (909) 825-7696 ELAP Number 1088

0/6

WO 2002246

Clinical Lab of San Bernardino, Inc. Chain of Custody

21881 Barton Road Grand Terrace CA 92313 909 825-7693 / 516-A N 8th St. Lompoc CA 93436 805 737-7300

Client	City of Beaumont
Address:	550 E. 6th St.
	Beaumont, CA. 92223
Client Contact:	Amer Jaker
Phone No.:	951-769-8520 FAX No.: 951-769-8526
System No.:	
Project:	Max Benefits - Beaumont GMZ
Sampled By:	C. Hunter
Comments:	

Email results to: Ajakher@ci.beaumont.ca.us, ckhunter@dudek.com, sstuart@dudek.com

Destination Laboratory

[X] Clinical Grand Terrace / ELAP 1088

[ ] Clinical Lompoc / ELAP 1678

[ ] Other:

Date	Time	Sample Identification	Container ID	Matrix	No. of Preserved Cont: Sample Type	Unpreserved	$Na_2S_2O_3$	NH_4Cl	$C_6H_8O_6$	HNO_3	HCl	NaOH	Na_2SO_3	$ZnC_4H_6O_4$	C_2H_3ClO	Total Containers	Total Dissolved Solids (SM 2540C)	Nitrate-N (EPA 300.0)	Nitrite-N (EPA 300.0)	Ammonia-N (EPA 350.1)	Alkalinity (inc. HCO_3, CO_3, and OH	Ca, Mg, K, Na (EPA 200.7)	Sulfate (EPA 300.0)	Specific Conductance (SM 2510B)	pH (SM 4500H+B)	Chloride (EPA 300.0)	Fluoride (EPA 300.0)	Comments	Turn Around Time (TAT)
4/28/20	13:30	CC-01	1	SW		X										2	X	X	X	X	X	X	X	X	X	X	X		10
1	12:45	CC-03	3	SW		X										2	X	X	X	X	X	X	X	X	X	X	X		10
1	12:00	STC-01	STC	SW		X										2	X	X	X	X	X	X	X	X	X	X	X		10

Matrix: DW - Drinking Water GW - Ground Water SW - Surface Water W - Water WW - Wastewater SWR - Stormwater Runoff S - Sludge O - Other

Use for Bacteria Samples / Sample Type: 1-Routine 2-Repeat 3-Replacement 4-Special D-Distribution W-Well

TAT: (10) Ten Day (5) Five Day Rush (2) Two Day Rush

Relinquished By (Sign)	Print Name / Company	Date / Time	Received By (Sign)	Print Name / Company
	C. Hunter / Dudek	4/28/20 14:00		
	S. Styles / CLSB	4/29/2020 - 745		S. Styles / CLSB
		4/29/2020 - 835		OA CLSB

(Lab Use Only) Lompoc Lab Receipt Temp.: _____ °C

Shipped Via: [ ] Fed Ex [ ] Golden State Overnight [ ] UPS [ ] OnTrac [ ] USPS [ ] Other _____

Condition: [X] On Wet Ice [ ] On Blu Ice [X] Intact [ ] Custody Seals Samples / COC Checked By: _____ Work Order Logged By: _____

Receipt Comments: Clinical Lab Receipt Temp.: 1.1 °C

Beaumont, City of	Project: Maximum Benefit-Surface Water	Work Order: 20E1481
550 East 6th Street	Sub Project: Beaumont GMZ	Received: 05/20/20 08:50
Beaumont CA, 92223	Project Manager: Thaxton Van Belle	Reported: 06/01/20

CC - 01 **20E1481-01 (Water)** **Sample Date:** 05/18/20 18:45 **Sampler:** C. Hunter

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
General Chemical Analyses									
Alkalinity, Total (as CaCO3)	SM 2320 B	**220**	mg/L	5.0		05/28/20	05/28/20	2021064	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	05/26/20	05/26/20	2022015	
Bicarbonate (HCO3)	SM 2320 B	**270**	mg/L	5.0		05/28/20	05/28/20	2021064	
Carbonate (CO3)	SM 2320B	ND	mg/L	5.0		05/28/20	05/28/20	2021064	
Chloride (Cl)	EPA 300.0	**83**	mg/L	1.0	0.075	05/20/20	05/20/20	2021068	
Specific Conductance (E.C.)	SM 2510B	**770**	umhos/cm	2.0	0.20	05/20/20	05/20/20	2021064	
Fluoride (F)	EPA 300.0	**0.32**	mg/L	0.10	0.026	05/20/20	05/20/20	2021068	
Hardness, Total (as CaCO3)	Calculated	**180**	mg/L	6.6		05/28/20	05/28/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		05/28/20	05/28/20	2021064	
Inorganic Nitrogen	Calculated	**3.3**	mg/L	1.3		05/26/20	05/26/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	**3.3**	mg/L	0.40	0.12	05/20/20	05/20/20	2021068	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	05/20/20	05/20/20	2021068	
pH (Lab)	SM 4500HB	**8.3**	pH Units			05/20/20	05/20/20	2021064	
Sulfate (SO4)	EPA 300.0	**31**	mg/L	0.50	0.14	05/20/20	05/20/20	2021068	
Total Filterable Residue/TDS	SM 2540C	**450**	mg/L	5.0	3.1	05/21/20	05/22/20	2021110	
Metals									
Calcium (Ca)	EPA 200.7	**47**	mg/L	1.0	0.080	05/28/20	05/28/20	2022095	
Magnesium (Mg)	EPA 200.7	**16**	mg/L	1.0	0.51	05/28/20	05/28/20	2022095	
Potassium (K)	EPA 200.7	**17**	mg/L	1.0	0.18	05/28/20	05/28/20	2022095	
Sodium (Na)	EPA 200.7	**91**	mg/L	1.0	0.21	05/28/20	05/28/20	2022095	

Stu Styles
Client Services Manager

Post Office Box 329 San Bernardino, CA 92402 (909) 825-7693 Fax (909) 825-7696 ELAP Number 1088

Beaumont, City of	Project: Maximum Benefit-Surface Water	Work Order: 20E1481
550 East 6th Street	Sub Project: Beaumont GMZ	Received: 05/20/20 08:50
Beaumont CA, 92223	Project Manager: Thaxton Van Belle	Reported: 06/01/20

CC - 03 **20E1481-02 (Water)** **Sample Date:** 05/18/20 18:20 **Sampler:** C. Hunter

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
General Chemical Analyses									
Alkalinity, Total (as CaCO3)	SM 2320 B	**230**	mg/L	5.0		05/28/20	05/28/20	2021064	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	05/26/20	05/26/20	2022015	
Bicarbonate (HCO3)	SM 2320 B	**270**	mg/L	5.0		05/28/20	05/28/20	2021064	
Carbonate (CO3)	SM 2320B	**2.9**	mg/L	5.0		05/28/20	05/28/20	2021064	J
Chloride (Cl)	EPA 300.0	**86**	mg/L	1.0	0.075	05/20/20	05/20/20	2021068	
Specific Conductance (E.C.)	SM 2510B	**780**	umhos/cm	2.0	0.20	05/20/20	05/20/20	2021064	
Fluoride (F)	EPA 300.0	**0.34**	mg/L	0.10	0.026	05/20/20	05/20/20	2021068	
Hardness, Total (as CaCO3)	Calculated	**190**	mg/L	6.6		05/28/20	05/28/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		05/28/20	05/28/20	2021064	
Inorganic Nitrogen	Calculated	**2.7**	mg/L	1.3		05/26/20	05/26/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	**2.7**	mg/L	0.40	0.12	05/20/20	05/20/20	2021068	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	05/20/20	05/20/20	2021068	
pH (Lab)	SM 4500HB	**8.4**	pH Units			05/20/20	05/20/20	2021064	
Sulfate (SO4)	EPA 300.0	**31**	mg/L	0.50	0.14	05/20/20	05/20/20	2021068	
Total Filterable Residue/TDS	SM 2540C	**440**	mg/L	5.0	3.1	05/21/20	05/22/20	2021110	
Metals									
Calcium (Ca)	EPA 200.7	**50**	mg/L	1.0	0.080	05/28/20	05/28/20	2022095	
Magnesium (Mg)	EPA 200.7	**16**	mg/L	1.0	0.51	05/28/20	05/28/20	2022095	
Potassium (K)	EPA 200.7	**18**	mg/L	1.0	0.18	05/28/20	05/28/20	2022095	
Sodium (Na)	EPA 200.7	**92**	mg/L	1.0	0.21	05/28/20	05/28/20	2022095	

Stu Styles
Client Services Manager

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Beaumont, City of	Project: Maximum Benefit-Surface Water	Work Order: 20E1481
550 East 6th Street	Sub Project: Beaumont GMZ	Received: 05/20/20 08:50
Beaumont CA, 92223	Project Manager: Thaxton Van Belle	Reported: 06/01/20

STC - 01 **20E1481-03 (Water)** **Sample Date:** 05/18/20 13:30 **Sampler:** C. Hunter

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
General Chemical Analyses									
Alkalinity, Total (as CaCO3)	SM 2320 B	**280**	mg/L	5.0		05/28/20	05/28/20	2021064	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	05/26/20	05/26/20	2022015	
Bicarbonate (HCO3)	SM 2320 B	**330**	mg/L	5.0		05/28/20	05/28/20	2021064	
Carbonate (CO3)	SM 2320B	**7.2**	mg/L	5.0		05/28/20	05/28/20	2021064	
Chloride (Cl)	EPA 300.0	**85**	mg/L	1.0	0.075	05/20/20	05/20/20	2021068	
Specific Conductance (E.C.)	SM 2510B	**830**	umhos/cm	2.0	0.20	05/20/20	05/20/20	2021064	
Fluoride (F)	EPA 300.0	**0.47**	mg/L	0.10	0.026	05/20/20	05/20/20	2021068	
Hardness, Total (as CaCO3)	Calculated	**240**	mg/L	6.6		05/28/20	05/28/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		05/28/20	05/28/20	2021064	
Inorganic Nitrogen	Calculated	ND	mg/L	1.3		05/26/20	05/26/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	**0.68**	mg/L	0.40	0.12	05/20/20	05/20/20	2021068	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	05/20/20	05/20/20	2021068	
pH (Lab)	SM 4500HB	**8.6**	pH Units			05/20/20	05/20/20	2021064	
Sulfate (SO4)	EPA 300.0	**34**	mg/L	0.50	0.14	05/20/20	05/20/20	2021068	
Total Filterable Residue/TDS	SM 2540C	**470**	mg/L	5.0	3.1	05/21/20	05/22/20	2021110	
Metals									
Calcium (Ca)	EPA 200.7	**63**	mg/L	1.0	0.080	05/28/20	05/28/20	2022095	
Magnesium (Mg)	EPA 200.7	**20**	mg/L	1.0	0.51	05/28/20	05/28/20	2022095	
Potassium (K)	EPA 200.7	**13**	mg/L	1.0	0.18	05/28/20	05/28/20	2022095	
Sodium (Na)	EPA 200.7	**95**	mg/L	1.0	0.21	05/28/20	05/28/20	2022095	

J Detected below the Reporting Limit; reported concentration is estimated; (J-Flag)

pH (Lab) was analyzed ASAP but received and analyzed past the 15 minute hold time.

ND Analyte NOT DETECTED at or above the MDL; Method Detection Limit

Stu Styles
Client Services Manager

Post Office Box 329 San Bernardino, CA 92402 (909) 825-7693 Fax (909) 825-7696 ELAP Number 1088

5/0/6

Clinical Lab of San Bernardino, Inc. Chain of Custody

WO 20E1481

21881 Barton Road Grand Terrace CA 92313 909 825-7693 / 516-A N 8th St. Lompoc CA 93436 805 737-7300

Client	City of Beaumont
Address:	550 E. 6th St.
	Beaumont, CA. 92223
Client Contact:	Amer Jaker
Phone No.:	951-769-8520 FAX No.: 951-769-8526
System No.:	
Project:	Max Benefits - Beaumont GMZ
Sampled By:	C. Hunter
Comments:	

Email results to: Ajakher@ci.beaumont.ca.us, ckhunter@dudek.com, sstuart@dudek.com

Destination Laboratory

[X] Clinical Grand Terrace / ELAP 1088

[ ] Clinical Lompoc / ELAP 1678

[ ] Other:

Date	Time	Sample Identification	Container ID	Matrix	No. of Preserved Cont.											Total Containers	Total Dissolved Solids (SM 2540C)	Nitrate-N (EPA 300.0)	Nitrite-N (EPA 300.0)	Ammonia-N (EPA 350.1)	Alkalinity (inc. HCO3, CO3, and OH	Ca, Mg, K, Na (EPA 200.7)	Sulfate (EPA 300.0)	Specific Conductance (SM 2510B)	pH (SM 4500H+B)	Chloride (EPA 300.0)	Fluoride (EPA 300.0)	Comments	Turn Around Time (TAT)
					Sample Type	Unpreserved	Na2S2O3	NH4Cl	C6H8O6	HNO3	HCl	NaOH	Na2SO3	ZnC4H6O4	ChlorAC														
5/18/20	18:45	CC-01	1	SW		X										2	X	X	X	X	X	X	X	X	X	X	X		10
1	18:20	CC-03	3	SW		X										2	X	X	X	X	X	X	X	X	X	X	X		10
	13:30	STC-01	STC	SW		X										2	X	X	X	X	X	X	X	X	X	X	X		10

Matrix: DW - Drinking Water GW - Ground Water SW - Surface Water W - Water WW - Wastewater SWR - Stormwater Runoff S - Sludge O - Other

Use for Bacteria Samples / Sample Type: 1-Routine 2-Repeat 3-Replacement 4-Special D-Distribution W-Well

TAT: (10) Ten Day (5) Five Day Rush (2) Two Day Rush

Relinquished By (Sign)	Print Name / Company	Date / Time	Received By (Sign)	Print Name / Company
	C. Hunter / Dudek	5/19/20 18:15		
		5/20/2020 - 820		Sh Styles / CUSB
	Sh Styles / CUSB	5/21/2020 - 850		

(Lab Use Only) Lompoc Lab Receipt Temp.: _____ °C

Shipped Via: [ ] Fed Ex [ ] Golden State Overnight [ ] UPS [ ] OnTrac [ ] USPS [ ] Other _____

Condition: [X] On Wet Ice [ ] On Blu Ice [X] Intact [ ] Custody Seals Samples / COC Checked By: _____ Work Order Logged By: _____

Receipt Comments: Clinical Lab Receipt Temp.: 4.1 °C

Beaumont, City of	Project: Maximum Benefit-Surface Water	Work Order: 20F0649
550 East 6th Street	Sub Project: Beaumont GMZ	Received: 06/08/20 08:55
Beaumont CA, 92223	Project Manager: Thaxton Van Belle	Reported: 06/17/20

CC - 01 **20F0649-01 (Water)** **Sample Date:** 06/07/20 13:30 **Sampler:** C. Hunter

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
General Chemical Analyses									
Alkalinity, Total (as CaCO3)	SM 2320 B	**230**	mg/L	5.0		06/09/20	06/09/20	2024027	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	06/10/20	06/11/20	2024104	
Bicarbonate (HCO3)	SM 2320 B	**290**	mg/L	5.0		06/09/20	06/09/20	2024027	
Carbonate (CO3)	SM 2320B	ND	mg/L	5.0		06/09/20	06/09/20	2024027	
Chloride (Cl)	EPA 300.0	**92**	mg/L	1.0	0.075	06/08/20	06/08/20	2024029	
Specific Conductance (E.C.)	SM 2510B	**810**	umhos/cm	2.0	0.20	06/08/20	06/08/20	2024027	
Fluoride (F)	EPA 300.0	**0.39**	mg/L	0.10	0.026	06/08/20	06/08/20	2024029	
Hardness, Total (as CaCO3)	Calculated	**200**	mg/L	6.6		06/16/20	06/16/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		06/09/20	06/09/20	2024027	
Inorganic Nitrogen	Calculated	**1.4**	mg/L	1.3		06/10/20	06/11/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	**1.4**	mg/L	0.40	0.12	06/08/20	06/08/20	2024029	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	06/08/20	06/08/20	2024029	
pH (Lab)	SM 4500HB	**8.2**	pH Units			06/08/20	06/08/20	2024027	
Sulfate (SO4)	EPA 300.0	**32**	mg/L	0.50	0.14	06/08/20	06/08/20	2024029	
Total Filterable Residue/TDS	SM 2540C	**460**	mg/L	5.0	3.1	06/08/20	06/10/20	2024032	
Metals									
Calcium (Ca)	EPA 200.7	**54**	mg/L	1.0	0.080	06/16/20	06/16/20	2025037	
Magnesium (Mg)	EPA 200.7	**16**	mg/L	1.0	0.51	06/16/20	06/16/20	2025037	
Potassium (K)	EPA 200.7	**20**	mg/L	1.0	0.18	06/16/20	06/16/20	2025037	
Sodium (Na)	EPA 200.7	**99**	mg/L	1.0	0.21	06/16/20	06/16/20	2025037	

Stu Styles
Client Services Manager

Post Office Box 329 San Bernardino, CA 92402 (909) 825-7693 Fax (909) 825-7696 ELAP Number 1088

Beaumont, City of	Project: Maximum Benefit-Surface Water	Work Order: 20F0649
550 East 6th Street	Sub Project: Beaumont GMZ	Received: 06/08/20 08:55
Beaumont CA, 92223	Project Manager: Thaxton Van Belle	Reported: 06/17/20

CC - 03 **20F0649-02 (Water)** **Sample Date:** 06/07/20 13:00 **Sampler:** C. Hunter

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
General Chemical Analyses									
Alkalinity, Total (as CaCO3)	SM 2320 B	**240**	mg/L	5.0		06/09/20	06/09/20	2024027	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	06/10/20	06/11/20	2024104	
Bicarbonate (HCO3)	SM 2320 B	**270**	mg/L	5.0		06/09/20	06/09/20	2024027	
Carbonate (CO3)	SM 2320B	**7.2**	mg/L	5.0		06/09/20	06/09/20	2024027	
Chloride (Cl)	EPA 300.0	**82**	mg/L	1.0	0.075	06/08/20	06/08/20	2024029	
Specific Conductance (E.C.)	SM 2510B	**770**	umhos/cm	2.0	0.20	06/08/20	06/08/20	2024027	
Fluoride (F)	EPA 300.0	**0.41**	mg/L	0.10	0.026	06/08/20	06/08/20	2024029	
Hardness, Total (as CaCO3)	Calculated	**190**	mg/L	6.6		06/16/20	06/16/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		06/09/20	06/09/20	2024027	
Inorganic Nitrogen	Calculated	ND	mg/L	1.3		06/10/20	06/11/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	**1.2**	mg/L	0.40	0.12	06/08/20	06/08/20	2024029	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	06/08/20	06/08/20	2024029	
pH (Lab)	SM 4500HB	**8.4**	pH Units			06/08/20	06/08/20	2024027	
Sulfate (SO4)	EPA 300.0	**32**	mg/L	0.50	0.14	06/08/20	06/08/20	2024029	
Total Filterable Residue/TDS	SM 2540C	**430**	mg/L	5.0	3.1	06/08/20	06/10/20	2024032	
Metals									
Calcium (Ca)	EPA 200.7	**51**	mg/L	1.0	0.080	06/16/20	06/16/20	2025037	
Magnesium (Mg)	EPA 200.7	**16**	mg/L	1.0	0.51	06/16/20	06/16/20	2025037	
Potassium (K)	EPA 200.7	**18**	mg/L	1.0	0.18	06/16/20	06/16/20	2025037	
Sodium (Na)	EPA 200.7	**96**	mg/L	1.0	0.21	06/16/20	06/16/20	2025037	

Stu Styles
Client Services Manager

Post Office Box 329 San Bernardino, CA 92402 (909) 825-7693 Fax (909) 825-7696 ELAP Number 1088

Beaumont, City of	Project: Maximum Benefit-Surface Water	Work Order: 20F0649
550 East 6th Street	Sub Project: Beaumont GMZ	Received: 06/08/20 08:55
Beaumont CA, 92223	Project Manager: Thaxton Van Belle	Reported: 06/17/20

STC - 01 **20F0649-03 (Water)** **Sample Date:** 06/07/20 12:30 **Sampler:** C. Hunter

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
General Chemical Analyses									
Alkalinity, Total (as CaCO3)	SM 2320 B	**270**	mg/L	5.0		06/09/20	06/09/20	2024027	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	06/10/20	06/11/20	2024104	
Bicarbonate (HCO3)	SM 2320 B	**310**	mg/L	5.0		06/09/20	06/09/20	2024027	
Carbonate (CO3)	SM 2320B	**12**	mg/L	5.0		06/09/20	06/09/20	2024027	
Chloride (Cl)	EPA 300.0	**82**	mg/L	1.0	0.075	06/08/20	06/08/20	2024029	
Specific Conductance (E.C.)	SM 2510B	**830**	umhos/cm	2.0	0.20	06/08/20	06/08/20	2024027	
Fluoride (F)	EPA 300.0	**0.46**	mg/L	0.10	0.026	06/08/20	06/08/20	2024029	
Hardness, Total (as CaCO3)	Calculated	**240**	mg/L	6.6		06/16/20	06/16/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		06/09/20	06/09/20	2024027	
Inorganic Nitrogen	Calculated	ND	mg/L	1.3		06/10/20	06/11/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	**0.62**	mg/L	0.40	0.12	06/08/20	06/08/20	2024029	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	06/08/20	06/08/20	2024029	
pH (Lab)	SM 4500HB	**8.5**	pH Units			06/08/20	06/08/20	2024027	
Sulfate (SO4)	EPA 300.0	**33**	mg/L	0.50	0.14	06/08/20	06/08/20	2024029	
Total Filterable Residue/TDS	SM 2540C	**460**	mg/L	5.0	3.1	06/08/20	06/10/20	2024032	
Metals									
Calcium (Ca)	EPA 200.7	**65**	mg/L	1.0	0.080	06/16/20	06/16/20	2025037	
Magnesium (Mg)	EPA 200.7	**20**	mg/L	1.0	0.51	06/16/20	06/16/20	2025037	
Potassium (K)	EPA 200.7	**14**	mg/L	1.0	0.18	06/16/20	06/16/20	2025037	
Sodium (Na)	EPA 200.7	**97**	mg/L	1.0	0.21	06/16/20	06/16/20	2025037	

J Detected below the Reporting Limit; reported concentration is estimated; (J-Flag)

pH (Lab) was analyzed ASAP but received and analyzed past the 15 minute hold time.

ND Analyte NOT DETECTED at or above the MDL; Method Detection Limit

Stu Styles
Client Services Manager

Post Office Box 329 San Bernardino, CA 92402 (909) 825-7693 Fax (909) 825-7696 ELAP Number 1088

6/16

WO 20F0649

Clinical Lab of San Bernardino, Inc. — Chain of Custody

21881 Barton Road Grand Terrace CA 92313 909 825-7693 / 516-A N 8th St. Lompoc CA 93436 805 737-7300

Client	City of Beaumont
Address:	550 E. 6th St.
	Beaumont, CA. 92223
Client Contact:	Amer Jaker
Phone No.:	951-769-8520 FAX No.: 951-769-8526
System No.:	
Project:	Max Benefits - Beaumont GMZ
Sampled By:	C Hunter
Comments:	TVanBelle@beaumontca.gov

Email results to: ~~Ajakher@ci.beaumont.ca.us~~, ckhunter@dudek.com, sstuart@dudek.com

Destination Laboratory

[X] Clinical Grand Terrace / ELAP 1088
[ ] Clinical Lompoc / ELAP 1678
[ ] Other:

Date	Time	Sample Identification	Container ID	Matrix	Sample Type	No. of Preserved Cont: Unpreserved	Na2S2O3	NH4Cl	C6H8O6	HNO3	HCl	NaOH	Na2SO3	ZnC4H6O4	ChlorAC	Total Containers	Total Dissolved Solids (SM 2540C)	Nitrate-N (EPA 300.0)	Nitrite-N (EPA 300.0)	Ammonia-N (EPA 350.1)	Alkalinity (inc. HCO3, CO3, and OH	Ca, Mg, K, Na (EPA 200.7)	Sulfate (EPA 300.0)	Specific Conductance (SM 2510B)	pH (SM 4500H+B)	Chloride (EPA 300.0)	Fluoride (EPA 300.0)	Comments	Turn Around Time (TAT)
6/7/20	13:30	CC-01	1	SW		X										2	X	X	X	X	X	X	X	X	X	X	X	10
	13:00	CC-03	3	SW		X										2	X	X	X	X	X	X	X	X	X	X	X	10
	12:30	STC-01	STC	SW		X										2	X	X	X	X	X	X	X	X	X	X	X	10

Matrix: DW - Drinking Water GW - Ground Water SW - Surface Water W - Water WW - Wastewater SWR - Stormwater Runoff S - Sludge O - Other

Use for Bacteria Samples / Sample Type: 1-Routine 2-Repeat 3-Replacement 4-Special D-Distribution W-Well

TAT: (10) Ten Day (5) Five Day Rush (2) Two Day Rush

Relinquished By (Sign)	Print Name / Company	Date / Time	Received By (Sign)	Print Name / Company
	C Hunter / Dudek	6/7/20 14:00		
	SStyles / CUSB	6/8/2020 - 735		SStyles / CUSB
		6/8/2020 - 855		JA CUSB

(Lab Use Only) Lompoc Lab Receipt Temp.: _____ °C

Shipped Via: [ ] Fed Ex [ ] Golden State Overnight [ ] UPS [ ] OnTrac [ ] USPS [ ] Other _____

Condition: [X] On Wet Ice [ ] On Blu Ice [X] Intact [ ] Custody Seals Samples / COC Checked By: _____ Work Order Logged By: _____

Receipt Comments: Clinical Lab Receipt Temp.: 4.2 °C

Beaumont, City of	Project: Maximum Benefit-Surface Water	Work Order: 20F1772
550 East 6th Street	Sub Project: Beaumont GMZ	Received: 06/19/20 14:05
Beaumont CA, 92223	Project Manager: Thaxton Van Belle	Reported: 06/30/20

CC - 01 **20F1772-01 (Water)** **Sample Date:** 06/18/20 14:30 **Sampler:** C. Hunter

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
General Chemical Analyses									
Alkalinity, Total (as CaCO3)	SM 2320 B	**240**	mg/L	5.0		06/22/20	06/22/20	2025139	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	06/22/20	06/22/20	2026011	
Bicarbonate (HCO3)	SM 2320 B	**290**	mg/L	5.0		06/22/20	06/22/20	2025139	
Carbonate (CO3)	SM 2320B	ND	mg/L	5.0		06/22/20	06/22/20	2025139	
Chloride (Cl)	EPA 300.0	**85**	mg/L	1.0	0.075	06/19/20	06/19/20	2025143	
Specific Conductance (E.C.)	SM 2510B	**770**	umhos/cm	2.0	0.20	06/19/20	06/19/20	2025139	
Fluoride (F)	EPA 300.0	**0.40**	mg/L	0.10	0.026	06/19/20	06/19/20	2025143	
Hardness, Total (as CaCO3)	Calculated	**170**	mg/L	6.6		06/25/20	06/25/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		06/22/20	06/22/20	2025139	
Inorganic Nitrogen	Calculated	**1.3**	mg/L	1.3		06/22/20	06/22/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	**1.1**	mg/L	0.40	0.12	06/19/20	06/19/20	2025143	
Nitrite as N (NO2-N)	EPA 300.0	**0.20**	mg/L	0.40	0.17	06/19/20	06/19/20	2025143	J
pH (Lab)	SM 4500HB	**8.2**	pH Units			06/19/20	06/19/20	2025139	
Sulfate (SO4)	EPA 300.0	**32**	mg/L	0.50	0.14	06/19/20	06/19/20	2025143	
Total Filterable Residue/TDS	SM 2540C	**450**	mg/L	5.0	3.1	06/22/20	06/23/20	2026020	
Metals									
Calcium (Ca)	EPA 200.7	**44**	mg/L	1.0	0.080	06/25/20	06/25/20	2026116	
Magnesium (Mg)	EPA 200.7	**15**	mg/L	1.0	0.51	06/25/20	06/25/20	2026116	
Potassium (K)	EPA 200.7	**17**	mg/L	1.0	0.18	06/25/20	06/25/20	2026116	
Sodium (Na)	EPA 200.7	**83**	mg/L	1.0	0.21	06/25/20	06/25/20	2026116	

Stu Styles
Client Services Manager

Post Office Box 329 San Bernardino, CA 92402 (909) 825-7693 Fax (909) 825-7696 ELAP Number 1088

Beaumont, City of	Project: Maximum Benefit-Surface Water	Work Order: 20F1772
550 East 6th Street	Sub Project: Beaumont GMZ	Received: 06/19/20 14:05
Beaumont CA, 92223	Project Manager: Thaxton Van Belle	Reported: 06/30/20

CC - 03 **20F1772-02 (Water)** **Sample Date:** 06/18/20 15:15 **Sampler:** C. Hunter

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
General Chemical Analyses									
Alkalinity, Total (as CaCO3)	SM 2320 B	**240**	mg/L	5.0		06/22/20	06/22/20	2025139	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	06/22/20	06/22/20	2026011	
Bicarbonate (HCO3)	SM 2320 B	**290**	mg/L	5.0		06/22/20	06/22/20	2025139	
Carbonate (CO3)	SM 2320B	**3.4**	mg/L	5.0		06/22/20	06/22/20	2025139	J
Chloride (Cl)	EPA 300.0	**85**	mg/L	1.0	0.075	06/19/20	06/19/20	2025143	
Specific Conductance (E.C.)	SM 2510B	**770**	umhos/cm	2.0	0.20	06/19/20	06/19/20	2025139	
Fluoride (F)	EPA 300.0	**0.33**	mg/L	0.10	0.026	06/19/20	06/19/20	2025143	
Hardness, Total (as CaCO3)	Calculated	**170**	mg/L	6.6		06/25/20	06/25/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		06/22/20	06/22/20	2025139	
Inorganic Nitrogen	Calculated	**1.4**	mg/L	1.3		06/22/20	06/22/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	**1.4**	mg/L	0.40	0.12	06/19/20	06/19/20	2025143	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	06/19/20	06/19/20	2025143	
pH (Lab)	SM 4500HB	**8.5**	pH Units			06/19/20	06/19/20	2025139	
Sulfate (SO4)	EPA 300.0	**32**	mg/L	0.50	0.14	06/19/20	06/19/20	2025143	
Total Filterable Residue/TDS	SM 2540C	**450**	mg/L	5.0	3.1	06/22/20	06/23/20	2026020	
Metals									
Calcium (Ca)	EPA 200.7	**45**	mg/L	1.0	0.080	06/25/20	06/25/20	2026116	
Magnesium (Mg)	EPA 200.7	**14**	mg/L	1.0	0.51	06/25/20	06/25/20	2026116	
Potassium (K)	EPA 200.7	**17**	mg/L	1.0	0.18	06/25/20	06/25/20	2026116	
Sodium (Na)	EPA 200.7	**83**	mg/L	1.0	0.21	06/25/20	06/25/20	2026116	

Stu Styles
Client Services Manager

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Beaumont, City of	Project: Maximum Benefit-Surface Water	Work Order: 20F1772
550 East 6th Street	Sub Project: Beaumont GMZ	Received: 06/19/20 14:05
Beaumont CA, 92223	Project Manager: Thaxton Van Belle	Reported: 06/30/20

STC - 01 **20F1772-03 (Water)** **Sample Date:** 06/18/20 16:00 **Sampler:** C. Hunter

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
General Chemical Analyses									
Alkalinity, Total (as CaCO3)	SM 2320 B	**270**	mg/L	5.0		06/22/20	06/22/20	2025139	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	06/22/20	06/22/20	2026011	
Bicarbonate (HCO3)	SM 2320 B	**310**	mg/L	5.0		06/22/20	06/22/20	2025139	
Carbonate (CO3)	SM 2320B	**8.2**	mg/L	5.0		06/22/20	06/22/20	2025139	
Chloride (Cl)	EPA 300.0	**84**	mg/L	1.0	0.075	06/19/20	06/19/20	2025143	
Specific Conductance (E.C.)	SM 2510B	**800**	umhos/cm	2.0	0.20	06/19/20	06/19/20	2025139	
Fluoride (F)	EPA 300.0	**0.48**	mg/L	0.10	0.026	06/19/20	06/19/20	2025143	
Hardness, Total (as CaCO3)	Calculated	**220**	mg/L	6.6		06/25/20	06/25/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		06/22/20	06/22/20	2025139	
Inorganic Nitrogen	Calculated	ND	mg/L	1.3		06/22/20	06/22/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	**0.93**	mg/L	0.40	0.12	06/19/20	06/19/20	2025143	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	06/19/20	06/19/20	2025143	
pH (Lab)	SM 4500HB	**8.6**	pH Units			06/19/20	06/19/20	2025139	
Sulfate (SO4)	EPA 300.0	**33**	mg/L	0.50	0.14	06/19/20	06/19/20	2025143	
Total Filterable Residue/TDS	SM 2540C	**480**	mg/L	5.0	3.1	06/22/20	06/23/20	2026020	
Metals									
Calcium (Ca)	EPA 200.7	**59**	mg/L	1.0	0.080	06/25/20	06/25/20	2026116	
Magnesium (Mg)	EPA 200.7	**18**	mg/L	1.0	0.51	06/25/20	06/25/20	2026116	
Potassium (K)	EPA 200.7	**12**	mg/L	1.0	0.18	06/25/20	06/25/20	2026116	
Sodium (Na)	EPA 200.7	**83**	mg/L	1.0	0.21	06/25/20	06/25/20	2026116	

J Detected below the Reporting Limit; reported concentration is estimated; (J-Flag)

pH (Lab) was analyzed ASAP but received and analyzed past the 15 minute hold time.

ND Analyte NOT DETECTED at or above the MDL; Method Detection Limit

Stu Styles
Client Services Manager

Post Office Box 329 San Bernardino, CA 92402 (909) 825-7693 Fax (909) 825-7696 ELAP Number 1088

0/6/16 20F1772

Clinical Laboratory of San Bernardino, Inc.

Chain of Custody

Client	City of Beaumont		
Address	715 West 4th Street		
	Beaumont, CA 92223		
Contact	*Thaxton Van Belle*	Email Address:	[redacted]
Phone #	(951) 769-8534	Fax #:	(951) 769-0914
Project	Max Benefits [redacted]	Reporting Requests:	
Sub Project	[redacted]	(X) Test Share ( ) CC's To:_____	
Sampled by	C. Hunter		

Date (Comp Start)	Time (Comp Start)	Date (Comp End)	Time (Comp End)	Sample Identification	Matrix	Type	Preservatives	Analysis Requested: See List							Comments / Bottles
				~~Influent 24 Hr. Composite~~	~~WW~~	~~1~~	~~7~~	X		X					~~1 Half Gallon~~
				~~Effluent 24 Hr. Composite~~	~~WW~~	~~1~~	~~5, 7~~	X		X					~~1 Half Gallon~~
		-	-	~~Effluent Grab~~	~~WW~~	~~1~~	~~1, 7~~				X				~~[redacted]~~
6/18/20	14:30			CC-01	1	SW		X							
1	15:15			CC-03	3	SW		X							
1	16:00			STC-01	STC	SW		X							

Matrix: DW-Drinking Water, WW-Wasre Water, SW-Surface Water, GW- Ground Water ***Type-*** 1-Routine, 2-Repeat, 3-Replacement, 4-Special

Preservatives: (1) Na2S2O3 (2) HCl (3) HNO3 (4) NH4Cl (5) H2SO4 (6) Na2SO3 (7) Cold (8) Other:_____

Relinquished By (Sign)	*Print Name / Company*	*Date / Time*	*Received By (Sign)*	*Print Name / Company*
[signature]	C. Hunter / Dudek	6/18/20 16:20	[signature] 6/19 10:30	Chris Martinez
Chris Martinez	Chris Martinez	6-19-20 12:45		
		14:05	[signature]	JA CRSB

Samples received: (X) *On ice* (X) *Intact* ( ) *Custody seals* *Temp* 4 ( ) F (X) C

ELAP # 1088

Beaumont, City of	Project: Maximum Benefit-Surface Water	Work Order: 20F2314
550 East 6th Street	Sub Project: Beaumont GMZ	Received: 06/29/20 08:45
Beaumont CA, 92223	Project Manager: Thaxton Van Belle	Reported: 07/09/20

CC - 01 **20F2314-01 (Water)** **Sample Date:** 06/27/20 15:30 **Sampler:** C. Hunter

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
General Chemical Analyses									
Alkalinity, Total (as CaCO3)	SM 2320 B	**250**	mg/L	5.0		07/01/20	07/01/20	2026151	
Ammonia as N (NH3-N)	EPA 350.1	**0.36**	mg/L	0.50	0.15	07/06/20	07/06/20	2028003	J
Bicarbonate (HCO3)	SM 2320 B	**300**	mg/L	5.0		07/01/20	07/01/20	2026151	
Carbonate (CO3)	SM 2320B	ND	mg/L	5.0		07/01/20	07/01/20	2026151	
Chloride (Cl)	EPA 300.0	**80**	mg/L	1.0	0.075	06/29/20	06/29/20	2027016	
Specific Conductance (E.C.)	SM 2510B	**780**	umhos/cm	2.0	0.20	06/29/20	06/29/20	2026151	
Fluoride (F)	EPA 300.0	**0.26**	mg/L	0.10	0.026	06/29/20	06/29/20	2027016	
Hardness, Total (as CaCO3)	Calculated	**180**	mg/L	6.6		06/30/20	06/30/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		07/01/20	07/01/20	2026151	
Inorganic Nitrogen	Calculated	ND	mg/L	1.3		07/06/20	07/06/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	**0.65**	mg/L	0.40	0.12	06/29/20	06/29/20	2027016	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	06/29/20	06/29/20	2027016	
pH (Lab)	SM 4500HB	**8.0**	pH Units			06/29/20	06/29/20	2026151	
Sulfate (SO4)	EPA 300.0	**33**	mg/L	0.50	0.14	06/29/20	06/29/20	2027016	
Total Filterable Residue/TDS	SM 2540C	**450**	mg/L	5.0	3.1	06/30/20	07/01/20	2027028	
Metals									
Calcium (Ca)	EPA 200.7	**48**	mg/L	1.0	0.080	06/30/20	06/30/20	2027041	
Magnesium (Mg)	EPA 200.7	**15**	mg/L	1.0	0.51	06/30/20	06/30/20	2027041	
Potassium (K)	EPA 200.7	**16**	mg/L	1.0	0.18	06/30/20	06/30/20	2027041	
Sodium (Na)	EPA 200.7	**89**	mg/L	1.0	0.21	06/30/20	06/30/20	2027041	

Stu Styles
Client Services Manager

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Beaumont, City of	Project: Maximum Benefit-Surface Water	Work Order: 20F2314
550 East 6th Street	Sub Project: Beaumont GMZ	Received: 06/29/20 08:45
Beaumont CA, 92223	Project Manager: Thaxton Van Belle	Reported: 07/09/20

CC - 03 **20F2314-02 (Water)** **Sample Date:** 06/27/20 16:00 **Sampler:** C. Hunter

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
General Chemical Analyses									
Alkalinity, Total (as CaCO3)	SM 2320 B	**250**	mg/L	5.0		07/01/20	07/01/20	2026151	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	07/06/20	07/06/20	2028003	
Bicarbonate (HCO3)	SM 2320 B	**290**	mg/L	5.0		07/01/20	07/01/20	2026151	
Carbonate (CO3)	SM 2320B	**3.8**	mg/L	5.0		07/01/20	07/01/20	2026151	J
Chloride (Cl)	EPA 300.0	**84**	mg/L	1.0	0.075	06/29/20	06/29/20	2027016	
Specific Conductance (E.C.)	SM 2510B	**780**	umhos/cm	2.0	0.20	06/29/20	06/29/20	2026151	
Fluoride (F)	EPA 300.0	**0.36**	mg/L	0.10	0.026	06/29/20	06/29/20	2027016	
Hardness, Total (as CaCO3)	Calculated	**190**	mg/L	6.6		06/30/20	06/30/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		07/01/20	07/01/20	2026151	
Inorganic Nitrogen	Calculated	ND	mg/L	1.3		07/06/20	07/06/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	**0.67**	mg/L	0.40	0.12	06/29/20	06/29/20	2027016	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	06/29/20	06/29/20	2027016	
pH (Lab)	SM 4500HB	**8.4**	pH Units			06/29/20	06/29/20	2026151	
Sulfate (SO4)	EPA 300.0	**33**	mg/L	0.50	0.14	06/29/20	06/29/20	2027016	
Total Filterable Residue/TDS	SM 2540C	**520**	mg/L	5.0	3.1	06/30/20	07/01/20	2027028	
Metals									
Calcium (Ca)	EPA 200.7	**49**	mg/L	1.0	0.080	06/30/20	06/30/20	2027041	
Magnesium (Mg)	EPA 200.7	**15**	mg/L	1.0	0.51	06/30/20	06/30/20	2027041	
Potassium (K)	EPA 200.7	**16**	mg/L	1.0	0.18	06/30/20	06/30/20	2027041	
Sodium (Na)	EPA 200.7	**90**	mg/L	1.0	0.21	06/30/20	06/30/20	2027041	

Stu Styles
Client Services Manager

Post Office Box 329 San Bernardino, CA 92402 (909) 825-7693 Fax (909) 825-7696 ELAP Number 1088

Beaumont, City of	Project: Maximum Benefit-Surface Water	Work Order: 20F2314
550 East 6th Street	Sub Project: Beaumont GMZ	Received: 06/29/20 08:45
Beaumont CA, 92223	Project Manager: Thaxton Van Belle	Reported: 07/09/20

STC - 01 **20F2314-03 (Water)** **Sample Date:** 06/27/20 16:30 **Sampler:** C. Hunter

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
General Chemical Analyses									
Alkalinity, Total (as CaCO3)	SM 2320 B	**270**	mg/L	5.0		07/01/20	07/01/20	2026151	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	07/06/20	07/06/20	2028003	
Bicarbonate (HCO3)	SM 2320 B	**310**	mg/L	5.0		07/01/20	07/01/20	2026151	
Carbonate (CO3)	SM 2320B	**8.2**	mg/L	5.0		07/01/20	07/01/20	2026151	
Chloride (Cl)	EPA 300.0	**81**	mg/L	1.0	0.075	06/29/20	06/29/20	2027016	
Specific Conductance (E.C.)	SM 2510B	**800**	umhos/cm	2.0	0.20	06/29/20	06/29/20	2026151	
Fluoride (F)	EPA 300.0	**0.46**	mg/L	0.10	0.026	06/29/20	06/29/20	2027016	
Hardness, Total (as CaCO3)	Calculated	**220**	mg/L	6.6		06/30/20	06/30/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		07/01/20	07/01/20	2026151	
Inorganic Nitrogen	Calculated	ND	mg/L	1.3		07/06/20	07/06/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	**0.50**	mg/L	0.40	0.12	06/29/20	06/29/20	2027016	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	06/29/20	06/29/20	2027016	
pH (Lab)	SM 4500HB	**8.6**	pH Units			06/29/20	06/29/20	2026151	
Sulfate (SO4)	EPA 300.0	**33**	mg/L	0.50	0.14	06/29/20	06/29/20	2027016	
Total Filterable Residue/TDS	SM 2540C	**480**	mg/L	5.0	3.1	06/30/20	07/01/20	2027028	
Metals									
Calcium (Ca)	EPA 200.7	**58**	mg/L	1.0	0.080	06/30/20	06/30/20	2027041	
Magnesium (Mg)	EPA 200.7	**17**	mg/L	1.0	0.51	06/30/20	06/30/20	2027041	
Potassium (K)	EPA 200.7	**12**	mg/L	1.0	0.18	06/30/20	06/30/20	2027041	
Sodium (Na)	EPA 200.7	**84**	mg/L	1.0	0.21	06/30/20	06/30/20	2027041	

J Detected below the Reporting Limit; reported concentration is estimated; (J-Flag)

pH (Lab) was analyzed ASAP but received and analyzed past the 15 minute hold time.

ND Analyte NOT DETECTED at or above the MDL; Method Detection Limit

Stu Styles
Client Services Manager

Post Office Box 329 San Bernardino, CA 92402 (909) 825-7693 Fax (909) 825-7696 ELAP Number 1088

2 of 3

20F2314

Clinical Lab of San Bernardino, Inc. Chain of Custody

21881 Barton Road Grand Terrace CA 92313 909 825-7693 / 516-A N 8th St. Lompoc CA 93436 805 737-7300

Client:	City of Beaumont
Address:	550 E. 6th St. Beaumont, CA. 92223
Client Contact:	Amer Jakor
Phone No.:	951-769-8520 FAX No.: 951-769-8526
System No.:	
Project:	Max Benefits - Beaumont GMZ
Sampled By:	C. Hunter
Comments:	Email results to Ajakher@ci.beaumont.ca.us, chunter@dudek.com, zmarta@dudek.com

Destination Laboratory
[X] Clinical Grand Terrace / ELAP 1088
[ ] Clinical Lompoc / ELAP 1678
[ ] Other

Date	Time	Sample Identification	Container ID	Matrix	Sample Type	Unpreserved	Na2S2O3	NH4Cl	C6H8O6	HNO3	HCl	NaOH	Na2SO3	ZnC4H8O4	ChloAC	Total Containers	Total Dissolved Solids (SM 2540C)	Nitrate-N (EPA 300.0)	Nitrite-N (EPA 300.0)	Ammonia-N (EPA 350.1)	Alkalinity (inc. HCO3, CO3, and OH)	Ca, Mg, K, Na (EPA 200.7)	Sulfate (EPA 300.0)	Specific Conductance (SM 2510B)	pH (SM 4500H+B)	Chloride (EPA 300.0)	Fluoride (EPA 300.0)	Comments	Turn Around Time (TAT)
6/27/20	15:30	CC-01	1	SW		X										2	X	X	X	X	X	X	X	X	X	X	X		10
	16:00	CC-03	3	SW		X										2	X	X	X	X	X	X	X	X	X	X	X		10
	16:30	STC-01	STC	SW		X										2	X	X	X	X	X	X	X	X	X	X	X		10

Matrix: DW - Drinking Water GW - Ground Water SW - Surface Water W - Water WW - Wastewater SWR - Stormwater Runoff S - Sludge O - Other

Use for Bacteria Samples - Sample Type: 1 Routine 2 Repeat 3 Replacement 4 Special D Distribution W Well   TAT: (10) Ten Day (5) Five Day Rush (2) Two Day Rush

Relinquished By (Sign)	Print Name / Company	Date / Time	Received By (Sign)	Print Name / Company
	C. Hunter / Dudek	6/28/20 1600		
		6/29/20 - 755		Stu Styles / CLSB
	Stu Styles / CLSB	6/29/20 - 845		JH CLSB

(Lab Use Only) Lompoc Lab Receipt Temp.: ____ °C

Shipped Via: [ ] Fed Ex [ ] Golden State Overnight [ ] UPS [ ] OnTrac [ ] USPS [ ] Other ____

Condition: [X] On Wet Ice [X] On Blu Ice [X] Intact [ ] Custody Seals   Samples / COC Checked By: ____   Work Order Logged By: ____

Receipt Comments: Clinical Lab Receipt Temp.: 4.3 °C

Beaumont, City of	Project: Maximum Benefit-Surface Water	Work Order: 20G1667
550 East 6th Street	Sub Project: Beaumont GMZ	Received: 07/19/20 09:35
Beaumont CA, 92223	Project Manager: Thaxton Van Belle	Reported: 07/30/20

CC - 01 **20G1667-01 (Water)** **Sample Date:** 07/18/20 13:00 **Sampler:** C. Hunter

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
General Chemical Analyses									
Alkalinity, Total (as CaCO3)	SM 2320 B	**250**	mg/L	5.0		07/23/20	07/23/20	2030035	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	07/23/20	07/23/20	2030090	
Bicarbonate (HCO3)	SM 2320 B	**310**	mg/L	5.0		07/23/20	07/23/20	2030035	
Carbonate (CO3)	SM 2320B	ND	mg/L	5.0		07/23/20	07/23/20	2030035	
Chloride (Cl)	EPA 300.0	**82**	mg/L	1.0	0.075	07/19/20	07/19/20	2029161	
Specific Conductance (E.C.)	SM 2510B	**810**	umhos/cm	2.0	0.20	07/20/20	07/20/20	2030035	
Fluoride (F)	EPA 300.0	**0.42**	mg/L	0.10	0.026	07/19/20	07/19/20	2029161	
Hardness, Total (as CaCO3)	Calculated	**180**	mg/L	6.6		07/28/20	07/28/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		07/23/20	07/23/20	2030035	
Inorganic Nitrogen	Calculated	ND	mg/L	1.3		07/23/20	07/23/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	**1.1**	mg/L	0.40	0.12	07/19/20	07/19/20	2029161	
Nitrite as N (NO2-N)	EPA 300.0	**0.17**	mg/L	0.40	0.17	07/19/20	07/19/20	2029161	J
pH (Lab)	SM 4500HB	**8.2**	pH Units			07/20/20	07/20/20	2030035	
Sulfate (SO4)	EPA 300.0	**28**	mg/L	0.50	0.14	07/19/20	07/19/20	2029161	
Total Filterable Residue/TDS	SM 2540C	**450**	mg/L	5.0	3.1	07/20/20	07/22/20	2030022	
Metals									
Calcium (Ca)	EPA 200.7	**48**	mg/L	1.0	0.080	07/28/20	07/28/20	2031048	
Magnesium (Mg)	EPA 200.7	**15**	mg/L	1.0	0.51	07/28/20	07/28/20	2031048	
Potassium (K)	EPA 200.7	**19**	mg/L	1.0	0.18	07/28/20	07/28/20	2031048	
Sodium (Na)	EPA 200.7	**100**	mg/L	1.0	0.21	07/28/20	07/28/20	2031048	

Stu Styles
Client Services Manager

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Beaumont, City of	Project: Maximum Benefit-Surface Water	Work Order: 20G1667
550 East 6th Street	Sub Project: Beaumont GMZ	Received: 07/19/20 09:35
Beaumont CA, 92223	Project Manager: Thaxton Van Belle	Reported: 07/30/20

CC - 03 **20G1667-02 (Water)** **Sample Date:** 07/18/20 12:00 **Sampler:** C. Hunter

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
General Chemical Analyses									
Alkalinity, Total (as CaCO3)	SM 2320 B	**250**	mg/L	5.0		07/23/20	07/23/20	2030035	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	07/23/20	07/23/20	2030090	
Bicarbonate (HCO3)	SM 2320 B	**290**	mg/L	5.0		07/23/20	07/23/20	2030035	
Carbonate (CO3)	SM 2320B	**5.8**	mg/L	5.0		07/23/20	07/23/20	2030035	
Chloride (Cl)	EPA 300.0	**81**	mg/L	1.0	0.075	07/19/20	07/19/20	2029161	
Specific Conductance (E.C.)	SM 2510B	**800**	umhos/cm	2.0	0.20	07/20/20	07/20/20	2030035	
Fluoride (F)	EPA 300.0	**0.40**	mg/L	0.10	0.026	07/19/20	07/19/20	2029161	
Hardness, Total (as CaCO3)	Calculated	**180**	mg/L	6.6		07/28/20	07/28/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		07/23/20	07/23/20	2030035	
Inorganic Nitrogen	Calculated	**1.4**	mg/L	1.3		07/23/20	07/23/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	**1.4**	mg/L	0.40	0.12	07/19/20	07/19/20	2029161	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	07/19/20	07/19/20	2029161	
pH (Lab)	SM 4500HB	**8.4**	pH Units			07/20/20	07/20/20	2030035	
Sulfate (SO4)	EPA 300.0	**29**	mg/L	0.50	0.14	07/19/20	07/19/20	2029161	
Total Filterable Residue/TDS	SM 2540C	**440**	mg/L	5.0	3.1	07/20/20	07/22/20	2030022	
Metals									
Calcium (Ca)	EPA 200.7	**49**	mg/L	1.0	0.080	07/28/20	07/28/20	2031048	
Magnesium (Mg)	EPA 200.7	**15**	mg/L	1.0	0.51	07/28/20	07/28/20	2031048	
Potassium (K)	EPA 200.7	**18**	mg/L	1.0	0.18	07/28/20	07/28/20	2031048	
Sodium (Na)	EPA 200.7	**100**	mg/L	1.0	0.21	07/28/20	07/28/20	2031048	

Stu Styles
Client Services Manager

Post Office Box 329 San Bernardino, CA 92402 (909) 825-7693 Fax (909) 825-7696 ELAP Number 1088

Beaumont, City of	Project: Maximum Benefit-Surface Water	Work Order: 20G1667
550 East 6th Street	Sub Project: Beaumont GMZ	Received: 07/19/20 09:35
Beaumont CA, 92223	Project Manager: Thaxton Van Belle	Reported: 07/30/20

STC - 01 **20G1667-03 (Water)** **Sample Date:** 07/18/20 11:00 **Sampler:** C. Hunter

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
General Chemical Analyses									
Alkalinity, Total (as CaCO3)	SM 2320 B	**260**	mg/L	5.0		07/23/20	07/23/20	2030035	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	07/23/20	07/23/20	2030090	
Bicarbonate (HCO3)	SM 2320 B	**300**	mg/L	5.0		07/23/20	07/23/20	2030035	
Carbonate (CO3)	SM 2320B	**9.6**	mg/L	5.0		07/23/20	07/23/20	2030035	
Chloride (Cl)	EPA 300.0	**81**	mg/L	1.0	0.075	07/19/20	07/19/20	2029161	
Specific Conductance (E.C.)	SM 2510B	**810**	umhos/cm	2.0	0.20	07/20/20	07/20/20	2030035	
Fluoride (F)	EPA 300.0	**0.49**	mg/L	0.10	0.026	07/19/20	07/19/20	2029161	
Hardness, Total (as CaCO3)	Calculated	**210**	mg/L	6.6		07/28/20	07/28/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		07/23/20	07/23/20	2030035	
Inorganic Nitrogen	Calculated	ND	mg/L	1.3		07/23/20	07/23/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	**0.95**	mg/L	0.40	0.12	07/19/20	07/19/20	2029161	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	07/19/20	07/19/20	2029161	
pH (Lab)	SM 4500HB	**8.5**	pH Units			07/20/20	07/20/20	2030035	
Sulfate (SO4)	EPA 300.0	**30**	mg/L	0.50	0.14	07/19/20	07/19/20	2029161	
Total Filterable Residue/TDS	SM 2540C	**450**	mg/L	5.0	3.1	07/20/20	07/22/20	2030022	
Metals									
Calcium (Ca)	EPA 200.7	**56**	mg/L	1.0	0.080	07/28/20	07/28/20	2031048	
Magnesium (Mg)	EPA 200.7	**18**	mg/L	1.0	0.51	07/28/20	07/28/20	2031048	
Potassium (K)	EPA 200.7	**15**	mg/L	1.0	0.18	07/28/20	07/28/20	2031048	
Sodium (Na)	EPA 200.7	**92**	mg/L	1.0	0.21	07/28/20	07/28/20	2031048	

J Detected below the Reporting Limit; reported concentration is estimated; (J-Flag)

pH (Lab) was analyzed ASAP but received and analyzed past the 15 minute hold time.

ND Analyte NOT DETECTED at or above the MDL; Method Detection Limit

Stu Styles
Client Services Manager

Post Office Box 329 San Bernardino, CA 92402 (909) 825-7693 Fax (909) 825-7696 ELAP Number 1088

0-0-6

WO 20G1667

Clinical Lab of San Bernardino, Inc. — Chain of Custody

21881 Barton Road Grand Terrace CA 92313 909 825-7693 / 516-A N 8th St. Lompoc CA 93436 805 737-7300

Client	City of Beaumont
Address:	550 E. 6th St.
	Beaumont, CA. 92223
Client Contact:	Thaston Van Ell
Phone No.:	(951) 769-8537 FAX No.:
System No.:	
Project:	Max Benefits - Beaumont CMZ
Sampled By:	C. Hunter
Comments:	
Email results to:	[redacted], ckhunter@dudek.com, sstuart@dudek.com

Destination Laboratory

[X] Clinical Grand Terrace / ELAP 1088
[ ] Clinical Lompoc / ELAP 1678
[ ] Other:

Date	Time	Sample Identification	Container ID	Matrix	Sample Type	No. of Preserved Cont: Unpreserved	Na2S2O3	NH4Cl	C6H8O6	HNO3	HCl	NaOH	Na2SO3	ZnC4H6O4	ChlorAC	Total Containers	Total Dissolved Solids (SM 2540C)	Nitrate (EPA 300.0)	Nitrite (EPA 300.0)	Alkalinity (EPA 350.1)	Total alkalinity: HCO3, CO3, and OH	Ca, Mg, K, Na (EPA 200.7)	Sulfate (EPA 300.0)	Specific Conductance (SM 2510B)	pH (SM 4500H+B)	Chloride (EPA 300.0)	Fluoride (EPA 300.0)	Comments	Turn Around Time (TAT)
7/16/20	13:00	CC-01	1	SW		X										2	X	X	X	X	X	X	X	X	X	X	X		10
"	12:00	CC-03	3	SW		X										2	X	X	X	X	X	X	X	X	X	X	X		10
	11:00	STC-01	STC	SW		X										2	X	X	X	X	X	X	X	X	X	X	X		10

Matrix: DW - Drinking Water GW - Ground Water SW - Surface Water W - Water WW - Wastewater SWR - Stormwater Runoff S - Sludge O - Other

Use for Bacteria Samples / Sample Type: 1-Routine 2-Repeat 3-Replacement 4-Special D-Distribution W-Well

TAT: (10) Ten Day (5) Five Day Rush (2) Two Day Rush

Relinquished By (Sign)	Print Name / Company	Date / Time	Received By (Sign)	Print Name / Company
[signature]	C. Hunter / DUDEK	7/16/20 13:30	[signature]	Chris Martinez
[signature]	Chris Martinez	7/17/20 9:35	[signature]	CLSB / Colin D.

(Lab Use Only) Lompoc Lab Receipt Temp.: _____ °C

Shipped Via: [ ] Fed Ex [ ] Golden State Overnight [ ] UPS [ ] OnTrac [ ] USPS [ ] Other _____

Condition: [ ] On Wet Ice [ ] On Blu Ice [ ] Intact [ ] Custody Seals Samples / COC Checked By: Work Order Logged By: _____

Receipt Comments: Clinical Lab Receipt Temp.: 4.4 °C

Beaumont, City of	Project: Maximum Benefit-Surface Water	Work Order: 20G2412
550 East 6th Street	Sub Project: Beaumont GMZ	Received: 07/29/20 08:45
Beaumont CA, 92223	Project Manager: Thaxton Van Belle	Reported: 08/06/20

CC - 01 **20G2412-01 (Water)** **Sample Date:** 07/28/20 15:30 **Sampler:** C. Hunter

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
General Chemical Analyses									
Alkalinity, Total (as CaCO3)	SM 2320 B	**240**	mg/L	5.0		07/30/20	07/30/20	2031040	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	07/30/20	07/30/20	2031080	
Bicarbonate (HCO3)	SM 2320 B	**290**	mg/L	5.0		07/30/20	07/30/20	2031040	
Carbonate (CO3)	SM 2320B	ND	mg/L	5.0		07/30/20	07/30/20	2031040	
Chloride (Cl)	EPA 300.0	**87**	mg/L	1.0	0.075	07/29/20	07/29/20	2031072	
Specific Conductance (E.C.)	SM 2510B	**800**	umhos/cm	2.0	0.20	07/29/20	07/29/20	2031040	
Fluoride (F)	EPA 300.0	**0.40**	mg/L	0.10	0.026	07/29/20	07/29/20	2031072	
Hardness, Total (as CaCO3)	Calculated	**200**	mg/L	6.6		08/04/20	08/04/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		07/30/20	07/30/20	2031040	
Inorganic Nitrogen	Calculated	**1.5**	mg/L	1.3		07/30/20	07/30/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	**1.5**	mg/L	0.40	0.12	07/29/20	07/29/20	2031072	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	07/29/20	07/29/20	2031072	
pH (Lab)	SM 4500HB	**8.2**	pH Units			07/29/20	07/29/20	2031040	
Sulfate (SO4)	EPA 300.0	**36**	mg/L	0.50	0.14	07/29/20	07/29/20	2031072	
Total Filterable Residue/TDS	SM 2540C	**460**	mg/L	5.0	3.1	07/29/20	08/04/20	2031075	
Metals									
Calcium (Ca)	EPA 200.7	**53**	mg/L	1.0	0.080	08/04/20	08/04/20	2032049	
Magnesium (Mg)	EPA 200.7	**16**	mg/L	1.0	0.51	08/04/20	08/04/20	2032049	
Potassium (K)	EPA 200.7	**18**	mg/L	1.0	0.18	08/04/20	08/04/20	2032049	
Sodium (Na)	EPA 200.7	**99**	mg/L	1.0	0.21	08/04/20	08/04/20	2032049	

Stu Styles
Client Services Manager

Post Office Box 329 San Bernardino, CA 92402 (909) 825-7693 Fax (909) 825-7696 ELAP Number 1088

Beaumont, City of	Project: Maximum Benefit-Surface Water	Work Order: 20G2412
550 East 6th Street	Sub Project: Beaumont GMZ	Received: 07/29/20 08:45
Beaumont CA, 92223	Project Manager: Thaxton Van Belle	Reported: 08/06/20

CC - 03 **20G2412-02 (Water)** **Sample Date:** 07/28/20 14:30 **Sampler:** C. Hunter

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
General Chemical Analyses									
Alkalinity, Total (as CaCO3)	SM 2320 B	**240**	mg/L	5.0		07/30/20	07/30/20	2031040	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	07/30/20	07/30/20	2031080	
Bicarbonate (HCO3)	SM 2320 B	**290**	mg/L	5.0		07/30/20	07/30/20	2031040	
Carbonate (CO3)	SM 2320B	**3.8**	mg/L	5.0		07/30/20	07/30/20	2031040	J
Chloride (Cl)	EPA 300.0	**86**	mg/L	1.0	0.075	07/29/20	07/29/20	2031072	
Specific Conductance (E.C.)	SM 2510B	**800**	umhos/cm	2.0	0.20	07/29/20	07/29/20	2031040	
Fluoride (F)	EPA 300.0	**0.42**	mg/L	0.10	0.026	07/29/20	07/29/20	2031072	
Hardness, Total (as CaCO3)	Calculated	**200**	mg/L	6.6		08/04/20	08/04/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		07/30/20	07/30/20	2031040	
Inorganic Nitrogen	Calculated	**1.3**	mg/L	1.3		07/30/20	07/30/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	**1.3**	mg/L	0.40	0.12	07/29/20	07/29/20	2031072	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	07/29/20	07/29/20	2031072	
pH (Lab)	SM 4500HB	**8.4**	pH Units			07/29/20	07/29/20	2031040	
Sulfate (SO4)	EPA 300.0	**36**	mg/L	0.50	0.14	07/29/20	07/29/20	2031072	
Total Filterable Residue/TDS	SM 2540C	**470**	mg/L	5.0	3.1	07/29/20	08/04/20	2031075	
Metals									
Calcium (Ca)	EPA 200.7	**52**	mg/L	1.0	0.080	08/04/20	08/04/20	2032049	
Magnesium (Mg)	EPA 200.7	**16**	mg/L	1.0	0.51	08/04/20	08/04/20	2032049	
Potassium (K)	EPA 200.7	**17**	mg/L	1.0	0.18	08/04/20	08/04/20	2032049	
Sodium (Na)	EPA 200.7	**96**	mg/L	1.0	0.21	08/04/20	08/04/20	2032049	

Stu Styles
Client Services Manager

Post Office Box 329 San Bernardino, CA 92402 (909) 825-7693 Fax (909) 825-7696 ELAP Number 1088

Beaumont, City of	Project: Maximum Benefit-Surface Water	Work Order: 20G2412
550 East 6th Street	Sub Project: Beaumont GMZ	Received: 07/29/20 08:45
Beaumont CA, 92223	Project Manager: Thaxton Van Belle	Reported: 08/06/20

STC - 01 **20G2412-03 (Water)** **Sample Date:** 07/28/20 13:30 **Sampler:** C. Hunter

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
General Chemical Analyses									
Alkalinity, Total (as CaCO3)	SM 2320 B	**270**	mg/L	5.0		07/30/20	07/30/20	2031040	
Ammonia as N (NH3-N)	EPA 350.1	**0.38**	mg/L	0.50	0.15	07/30/20	07/30/20	2031080	J
Bicarbonate (HCO3)	SM 2320 B	**300**	mg/L	5.0		07/30/20	07/30/20	2031040	
Carbonate (CO3)	SM 2320B	**11**	mg/L	5.0		07/30/20	07/30/20	2031040	
Chloride (Cl)	EPA 300.0	**84**	mg/L	1.0	0.075	07/29/20	07/29/20	2031072	
Specific Conductance (E.C.)	SM 2510B	**820**	umhos/cm	2.0	0.20	07/29/20	07/29/20	2031040	
Fluoride (F)	EPA 300.0	**0.49**	mg/L	0.10	0.026	07/29/20	07/29/20	2031072	
Hardness, Total (as CaCO3)	Calculated	**230**	mg/L	6.6		08/04/20	08/04/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		07/30/20	07/30/20	2031040	
Inorganic Nitrogen	Calculated	ND	mg/L	1.3		07/30/20	07/30/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	**0.86**	mg/L	0.40	0.12	07/29/20	07/29/20	2031072	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	07/29/20	07/29/20	2031072	
pH (Lab)	SM 4500HB	**8.5**	pH Units			07/29/20	07/29/20	2031040	
Sulfate (SO4)	EPA 300.0	**35**	mg/L	0.50	0.14	07/29/20	07/29/20	2031072	
Total Filterable Residue/TDS	SM 2540C	**480**	mg/L	5.0	3.1	07/29/20	08/04/20	2031075	
Metals									
Calcium (Ca)	EPA 200.7	**64**	mg/L	1.0	0.080	08/04/20	08/04/20	2032049	
Magnesium (Mg)	EPA 200.7	**18**	mg/L	1.0	0.51	08/04/20	08/04/20	2032049	
Potassium (K)	EPA 200.7	**14**	mg/L	1.0	0.18	08/04/20	08/04/20	2032049	
Sodium (Na)	EPA 200.7	**94**	mg/L	1.0	0.21	08/04/20	08/04/20	2032049	

J Detected below the Reporting Limit; reported concentration is estimated; (J-Flag)

pH (Lab) was analyzed ASAP but received and analyzed past the 15 minute hold time.

ND Analyte NOT DETECTED at or above the MDL; Method Detection Limit

Stu Styles
Client Services Manager

Post Office Box 329 San Bernardino, CA 92402 (909) 825-7693 Fax (909) 825-7696 ELAP Number 1088

0/0/6

Clinical Lab of San Bernardino, Inc. Chain of Custody

WO 20612412

21881 Barton Road Grand Terrace CA 92313 909 825-7693 / 516-A N 8th St. Lompoc CA 93436 805 737-7300

Client	City of Beaumont
Address:	550 E. 6th St.
	Beaumont, CA. 92223
Client Contact:	Thaxton VanBelle
Phone No.:	FAX No.:
System No.:	
Project:	Max Benefits - Beaumont GMZ
Sampled By:	
Comments:	

Email results to: [redacted], ckhunter@dudek.com, sstuart@dudek.com

Destination Laboratory

[X] Clinical Grand Terrace / ELAP 1088
[ ] Clinical Lompoc / ELAP 1678
[ ] Other:

Date	Time	Sample Identification	Container ID	Matrix	Sample Type	No. of Preserved Cont. Unpreserved	Na2S2O3	NH4Cl	C6H8O6	HNO3	HCl	NaOH	Na2SO3	ZnC4H6O4	ChlorAC	Total Containers	Total Dissolved Solids (SM 2540C)	Nitrate-N (EPA 300.0)	Nitrite-N (EPA 300.0)	Ammonia-N (EPA 350.1)	Alkalinity (inc. HCO3, CO3, and OH)	Ca, Mg, K, Na (EPA 200.7)	Sulfate (EPA 300.0)	Specific Conductance (SM 2510B)	pH (SM 4500H+B)	Chloride (EPA 300.0)	Fluoride (EPA 300.0)	Comments	Turn Around Time (TAT)
7/28/20	15:30	CC-01	1	SW		X										2	X	X	X	X	X	X	X	X	X	X	X		10
	14:30	CC-03	3	SW		X										2	X	X	X	X	X	X	X	X	X	X	X		10
	13:30	STC-01	STC	SW		X										2	X	X	X	X	X	X	X	X	X	X	X		10

Matrix: DW - Drinking Water GW - Ground Water SW - Surface Water W - Water WW - Wastewater SWR - Stormwater Runoff S - Sludge O - Other _____

Use for Bacteria Samples / Sample Type: 1-Routine 2-Repeat 3-Replacement 4-Special D-Distribution W-Well

TAT: (10) Ten Day (5) Five Day Rush (2) Two Day Rush

Relinquished By (Sign)	Print Name / Company	Date / Time	Received By (Sign)	Print Name / Company
	Cthaxton / Dudek	7/28/20 15:45		
		7/28/2020 - 745		St Styles / CLSB
	St Styles / CLSB	7/28/2020 - 845		CLSB

(Lab Use Only) Lompoc Lab Receipt Temp.: _____ °C

Shipped Via: [ ] Fed Ex [ ] Golden State Overnight [ ] UPS [ ] OnTrac [ ] USPS [ ] Other _____

Condition: [X] On Wet Ice [ ] On Blu Ice [X] Intact [ ] Custody Seals Samples / COC Checked By: _____ Work Order Logged By: _____

Receipt Comments: Clinical Lab Receipt Temp.: 7.2 °C

Beaumont, City of	Project: Maximum Benefit-Surface Water	Work Order: 20H1257
550 East 6th Street	Sub Project: Beaumont GMZ	Received: 08/17/20 08:55
Beaumont CA, 92223	Project Manager: Thaxton Van Belle	Reported: 08/26/20

CC - 01 **20H1257-01 (Water)** **Sample Date:** 08/16/20 9:00 **Sampler:** C. Hunter

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
General Chemical Analyses									
Alkalinity, Total (as CaCO3)	SM 2320 B	**250**	mg/L	5.0		08/18/20	08/18/20	2034026	
Ammonia as N (NH3-N)	EPA 350.1	**0.24**	mg/L	0.50	0.15	08/20/20	08/20/20	2034080	J
Bicarbonate (HCO3)	SM 2320 B	**300**	mg/L	5.0		08/18/20	08/18/20	2034026	
Carbonate (CO3)	SM 2320B	ND	mg/L	5.0		08/18/20	08/18/20	2034026	
Chloride (Cl)	EPA 300.0	**85**	mg/L	1.0	0.075	08/17/20	08/17/20	2034018	
Specific Conductance (E.C.)	SM 2510B	**820**	umhos/cm	2.0	0.20	08/17/20	08/17/20	2034026	
Fluoride (F)	EPA 300.0	**0.39**	mg/L	0.10	0.026	08/17/20	08/17/20	2034018	
Hardness, Total (as CaCO3)	Calculated	**190**	mg/L	6.6		08/25/20	08/25/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		08/18/20	08/18/20	2034026	
Inorganic Nitrogen	Calculated	ND	mg/L	1.3		08/20/20	08/20/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	**0.67**	mg/L	0.40	0.12	08/17/20	08/17/20	2034018	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	08/17/20	08/17/20	2034018	
pH (Lab)	SM 4500HB	**8.2**	pH Units			08/17/20	08/17/20	2034026	
Sulfate (SO4)	EPA 300.0	**34**	mg/L	0.50	0.14	08/17/20	08/17/20	2034018	
Total Filterable Residue/TDS	SM 2540C	**460**	mg/L	5.0	3.1	08/18/20	08/19/20	2034036	
Metals									
Calcium (Ca)	EPA 200.7	**52**	mg/L	1.0	0.080	08/25/20	08/25/20	2035035	
Magnesium (Mg)	EPA 200.7	**15**	mg/L	1.0	0.51	08/25/20	08/25/20	2035035	
Potassium (K)	EPA 200.7	**18**	mg/L	1.0	0.18	08/25/20	08/25/20	2035035	
Sodium (Na)	EPA 200.7	**96**	mg/L	5.0	1.1	08/25/20	08/25/20	2035035	

Stu Styles
Client Services Manager

Post Office Box 329 San Bernardino, CA 92402 (909) 825-7693 Fax (909) 825-7696 ELAP Number 1088

Beaumont, City of	Project: Maximum Benefit-Surface Water	Work Order: 20H1257
550 East 6th Street	Sub Project: Beaumont GMZ	Received: 08/17/20 08:55
Beaumont CA, 92223	Project Manager: Thaxton Van Belle	Reported: 08/26/20

CC - 03 **20H1257-02 (Water)** **Sample Date:** 08/16/20 9:30 **Sampler:** C. Hunter

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
General Chemical Analyses									
Alkalinity, Total (as CaCO3)	SM 2320 B	**250**	mg/L	5.0		08/18/20	08/18/20	2034026	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	08/20/20	08/20/20	2034080	
Bicarbonate (HCO3)	SM 2320 B	**290**	mg/L	5.0		08/18/20	08/18/20	2034026	
Carbonate (CO3)	SM 2320B	**5.8**	mg/L	5.0		08/18/20	08/18/20	2034026	
Chloride (Cl)	EPA 300.0	**86**	mg/L	1.0	0.075	08/17/20	08/17/20	2034018	
Specific Conductance (E.C.)	SM 2510B	**820**	umhos/cm	2.0	0.20	08/17/20	08/17/20	2034026	
Fluoride (F)	EPA 300.0	**0.42**	mg/L	0.10	0.026	08/17/20	08/17/20	2034018	
Hardness, Total (as CaCO3)	Calculated	**190**	mg/L	6.6		08/25/20	08/25/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		08/18/20	08/18/20	2034026	
Inorganic Nitrogen	Calculated	ND	mg/L	1.3		08/20/20	08/20/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	**0.96**	mg/L	0.40	0.12	08/17/20	08/17/20	2034018	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	08/17/20	08/17/20	2034018	
pH (Lab)	SM 4500HB	**8.4**	pH Units			08/17/20	08/17/20	2034026	
Sulfate (SO4)	EPA 300.0	**34**	mg/L	0.50	0.14	08/17/20	08/17/20	2034018	
Total Filterable Residue/TDS	SM 2540C	**460**	mg/L	5.0	3.1	08/18/20	08/19/20	2034036	
Metals									
Calcium (Ca)	EPA 200.7	**52**	mg/L	1.0	0.080	08/25/20	08/25/20	2035035	
Magnesium (Mg)	EPA 200.7	**15**	mg/L	1.0	0.51	08/25/20	08/25/20	2035035	
Potassium (K)	EPA 200.7	**18**	mg/L	1.0	0.18	08/25/20	08/25/20	2035035	
Sodium (Na)	EPA 200.7	**98**	mg/L	5.0	1.1	08/25/20	08/25/20	2035035	

Stu Styles
Client Services Manager

Post Office Box 329 San Bernardino, CA 92402 (909) 825-7693 Fax (909) 825-7696 ELAP Number 1088

Beaumont, City of	Project: Maximum Benefit-Surface Water	Work Order: 20H1257
550 East 6th Street	Sub Project: Beaumont GMZ	Received: 08/17/20 08:55
Beaumont CA, 92223	Project Manager: Thaxton Van Belle	Reported: 08/26/20

STC - 01 **20H1257-03 (Water)** **Sample Date:** 08/16/20 10:00 **Sampler:** C. Hunter

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
General Chemical Analyses									
Alkalinity, Total (as CaCO3)	SM 2320 B	**260**	mg/L	5.0		08/18/20	08/18/20	2034026	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	08/20/20	08/20/20	2034080	
Bicarbonate (HCO3)	SM 2320 B	**290**	mg/L	5.0		08/18/20	08/18/20	2034026	
Carbonate (CO3)	SM 2320B	**12**	mg/L	5.0		08/18/20	08/18/20	2034026	
Chloride (Cl)	EPA 300.0	**85**	mg/L	1.0	0.075	08/17/20	08/17/20	2034018	
Specific Conductance (E.C.)	SM 2510B	**820**	umhos/cm	2.0	0.20	08/17/20	08/17/20	2034026	
Fluoride (F)	EPA 300.0	**0.50**	mg/L	0.10	0.026	08/17/20	08/17/20	2034018	
Hardness, Total (as CaCO3)	Calculated	**230**	mg/L	6.6		08/25/20	08/25/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		08/18/20	08/18/20	2034026	
Inorganic Nitrogen	Calculated	ND	mg/L	1.3		08/20/20	08/20/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	**0.56**	mg/L	0.40	0.12	08/17/20	08/17/20	2034018	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	08/17/20	08/17/20	2034018	
pH (Lab)	SM 4500HB	**8.4**	pH Units			08/17/20	08/17/20	2034026	
Sulfate (SO4)	EPA 300.0	**34**	mg/L	0.50	0.14	08/17/20	08/17/20	2034018	
Total Filterable Residue/TDS	SM 2540C	**460**	mg/L	5.0	3.1	08/18/20	08/19/20	2034036	
Metals									
Calcium (Ca)	EPA 200.7	**63**	mg/L	1.0	0.080	08/25/20	08/25/20	2035035	
Magnesium (Mg)	EPA 200.7	**19**	mg/L	1.0	0.51	08/25/20	08/25/20	2035035	
Potassium (K)	EPA 200.7	**16**	mg/L	1.0	0.18	08/25/20	08/25/20	2035035	
Sodium (Na)	EPA 200.7	**100**	mg/L	1.0	0.21	08/25/20	08/25/20	2035035	

J Detected below the Reporting Limit; reported concentration is estimated; (J-Flag)

pH (Lab) was analyzed ASAP but received and analyzed past the 15 minute hold time.

ND Analyte NOT DETECTED at or above the MDL; Method Detection Limit

Stu Styles
Client Services Manager

Post Office Box 329 San Bernardino, CA 92402 (909) 825-7693 Fax (909) 825-7696 ELAP Number 1088

0/0/6

Clinical Lab of San Bernardino, Inc. Chain of Custody

WO 20H1257

21881 Barton Road Grand Terrace CA 92313 909 825-7693 / 516-A N 8th St. Lompoc CA 93436 805 737-7300

Client	City of Beaumont
Address:	550 E. 6th St.
	Beaumont, CA. 92223
Client Contact:	
Phone No.:	FAX No.:
System No.:	
Project:	Max Benefits - Beaumont GMZ
Sampled By:	
Comments:	

Email results to: **Ajakher@ci.beaumont.ca.us, ckhunter@dudek.com, sstuart@dudek.com**

Destination Laboratory

[X] Clinical Grand Terrace / ELAP 1088
[ ] Clinical Lompoc / ELAP 1678
[ ] Other:

Date	Time	Sample Identification	Container ID	Matrix	Sample Type	No. of Preserved Cont. Unpreserved	Na2S2O3	NH4Cl	C6H8O6	HNO3	HCl	NaOH	Na2SO3	ZnC4H6O4	ChlorAC	Total Containers	Total Dissolved Solids (SM 2540C)	Nitrate-N (EPA 300.0)	Nitrite-N (EPA 300.0)	Ammonia-N (EPA 350.1)	Alkalinity (inc. HCO3, CO3, and OH)	Ca, Mg, K, Na (EPA 200.7)	Sulfate (EPA 300.0)	Specific Conductance (SM 2510B)	pH (SM 4500H+B)	Chloride (EPA 300.0)	Fluoride (EPA 300.0)	Comments	Turn Around Time (TAT)
8/16/20	9:00	CC-01	1	SW		X										2	X	X	X	X	X	X	X	X	X	X	X		10
1	9:30	CC-03	3	SW		X										2	X	X	X	X	X	X	X	X	X	X	X		10
1	10:00	STC-01	STC	SW		X										2	X	X	X	X	X	X	X	X	X	X	X		10

Matrix: DW - Drinking Water GW - Ground Water SW - Surface Water W - Water WW - Wastewater SWR - Stormwater Runoff S - Sludge O - Other _____

Use for Bacteria Samples / Sample Type: 1-Routine 2-Repeat 3-Replacement 4-Special D-Distribution W-Well

TAT: (10) Ten Day (5) Five Day Rush (2) Two Day Rush

Relinquished By (Sign)	Print Name / Company	Date / Time	Received By (Sign)	Print Name / Company
	Christian Hunter / Dudek	8/16/20 10:30		
		8/17/2020 800		SStyles/CUSB
	SStyles / CUSB	8/17/2020 855		CUSB

(Lab Use Only) Lompoc Lab Receipt Temp.: _____ °C

Shipped Via: [ ] Fed Ex [ ] Golden State Overnight [ ] UPS [ ] OnTrac [ ] USPS [ ] Other _____

Condition: [X] On Wet Ice [ ] On Blu Ice [X] Intact [ ] Custody Seals Samples / COC Checked By: _____ Work Order Logged By: _____

Receipt Comments: Clinical Lab Receipt Temp.: 2.5 °C

Beaumont, City of	Project: Maximum Benefit-Surface Water	Work Order: 20H2305
550 East 6th Street	Sub Project: Beaumont GMZ	Received: 08/30/20 09:50
Beaumont CA, 92223	Project Manager: Thaxton Van Belle	Reported: 09/10/20

CC - 01 **20H2305-01 (Water)** **Sample Date:** 08/29/20 13:00 **Sampler:** C. Hunter

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
General Chemical Analyses									
Alkalinity, Total (as CaCO3)	SM 2320 B	**230**	mg/L	5.0		09/02/20	09/02/20	2036008	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	09/04/20	09/04/20	2036125	
Bicarbonate (HCO3)	SM 2320 B	**280**	mg/L	5.0		09/02/20	09/02/20	2036008	
Carbonate (CO3)	SM 2320B	ND	mg/L	5.0		09/02/20	09/02/20	2036008	
Chloride (Cl)	EPA 300.0	**89**	mg/L	1.0	0.075	08/30/20	08/30/20	2035126	
Specific Conductance (E.C.)	SM 2510B	**850**	umhos/cm	2.0	0.20	08/31/20	08/31/20	2036008	
Fluoride (F)	EPA 300.0	**0.29**	mg/L	0.10	0.026	08/30/20	08/30/20	2035126	
Hardness, Total (as CaCO3)	Calculated	**180**	mg/L	6.6		09/02/20	09/02/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		09/02/20	09/02/20	2036008	
Inorganic Nitrogen	Calculated	**7.2**	mg/L	1.3		09/04/20	09/04/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	**7.2**	mg/L	0.40	0.12	08/30/20	08/30/20	2035126	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	08/30/20	08/30/20	2035126	
pH (Lab)	SM 4500HB	**8.2**	pH Units			08/31/20	08/31/20	2036008	
Sulfate (SO4)	EPA 300.0	**33**	mg/L	0.50	0.14	08/30/20	08/30/20	2035126	
Total Filterable Residue/TDS	SM 2540C	**480**	mg/L	5.0	3.1	09/02/20	09/03/20	2036054	
Metals									
Calcium (Ca)	EPA 200.7	**47**	mg/L	1.0	0.080	09/02/20	09/02/20	2036061	
Magnesium (Mg)	EPA 200.7	**16**	mg/L	1.0	0.51	09/02/20	09/02/20	2036061	
Potassium (K)	EPA 200.7	**18**	mg/L	1.0	0.18	09/02/20	09/02/20	2036061	
Sodium (Na)	EPA 200.7	**100**	mg/L	1.0	0.21	09/02/20	09/02/20	2036061	

Stu Styles
Client Services Manager

Post Office Box 329 San Bernardino, CA 92402 (909) 825-7693 Fax (909) 825-7696 ELAP Number 1088

Beaumont, City of	Project: Maximum Benefit-Surface Water	Work Order: 20H2305
550 East 6th Street	Sub Project: Beaumont GMZ	Received: 08/30/20 09:50
Beaumont CA, 92223	Project Manager: Thaxton Van Belle	Reported: 09/10/20

CC - 03 **20H2305-02 (Water)** **Sample Date:** 08/29/20 12:30 **Sampler:** C. Hunter

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
General Chemical Analyses									
Alkalinity, Total (as CaCO3)	SM 2320 B	**240**	mg/L	5.0		09/02/20	09/02/20	2036008	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	09/04/20	09/04/20	2036125	
Bicarbonate (HCO3)	SM 2320 B	**280**	mg/L	5.0		09/02/20	09/02/20	2036008	
Carbonate (CO3)	SM 2320B	**5.8**	mg/L	5.0		09/02/20	09/02/20	2036008	
Chloride (Cl)	EPA 300.0	**84**	mg/L	1.0	0.075	08/30/20	08/30/20	2035126	
Specific Conductance (E.C.)	SM 2510B	**820**	umhos/cm	2.0	0.20	08/31/20	08/31/20	2036008	
Fluoride (F)	EPA 300.0	**0.29**	mg/L	0.10	0.026	08/30/20	08/30/20	2035126	
Hardness, Total (as CaCO3)	Calculated	**180**	mg/L	6.6		09/02/20	09/02/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		09/02/20	09/02/20	2036008	
Inorganic Nitrogen	Calculated	**4.7**	mg/L	1.3		09/04/20	09/04/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	**4.7**	mg/L	0.40	0.12	08/30/20	08/30/20	2035126	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	08/30/20	08/30/20	2035126	
pH (Lab)	SM 4500HB	**8.5**	pH Units			08/31/20	08/31/20	2036008	
Sulfate (SO4)	EPA 300.0	**33**	mg/L	0.50	0.14	08/30/20	08/30/20	2035126	
Total Filterable Residue/TDS	SM 2540C	**470**	mg/L	5.0	3.1	09/02/20	09/03/20	2036054	
Metals									
Calcium (Ca)	EPA 200.7	**49**	mg/L	1.0	0.080	09/02/20	09/02/20	2036061	
Magnesium (Mg)	EPA 200.7	**15**	mg/L	1.0	0.51	09/02/20	09/02/20	2036061	
Potassium (K)	EPA 200.7	**19**	mg/L	1.0	0.18	09/02/20	09/02/20	2036061	
Sodium (Na)	EPA 200.7	**100**	mg/L	1.0	0.21	09/02/20	09/02/20	2036061	

Stu Styles
Client Services Manager

Post Office Box 329 San Bernardino, CA 92402 (909) 825-7693 Fax (909) 825-7696 ELAP Number 1088

Beaumont, City of	Project: Maximum Benefit-Surface Water	Work Order: 20H2305
550 East 6th Street	Sub Project: Beaumont GMZ	Received: 08/30/20 09:50
Beaumont CA, 92223	Project Manager: Thaxton Van Belle	Reported: 09/10/20

STC - 01 **20H2305-03 (Water)** **Sample Date:** 08/29/20 12:00 **Sampler:** C. Hunter

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
General Chemical Analyses									
Alkalinity, Total (as CaCO3)	SM 2320 B	**260**	mg/L	5.0		09/02/20	09/02/20	2036008	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	09/04/20	09/04/20	2036125	
Bicarbonate (HCO3)	SM 2320 B	**300**	mg/L	5.0		09/02/20	09/02/20	2036008	
Carbonate (CO3)	SM 2320B	**8.2**	mg/L	5.0		09/02/20	09/02/20	2036008	
Chloride (Cl)	EPA 300.0	**81**	mg/L	1.0	0.075	08/30/20	08/30/20	2035126	
Specific Conductance (E.C.)	SM 2510B	**810**	umhos/cm	2.0	0.20	08/31/20	08/31/20	2036008	
Fluoride (F)	EPA 300.0	**0.34**	mg/L	0.10	0.026	08/30/20	08/30/20	2035126	
Hardness, Total (as CaCO3)	Calculated	**220**	mg/L	6.6		09/02/20	09/02/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		09/02/20	09/02/20	2036008	
Inorganic Nitrogen	Calculated	**2.5**	mg/L	1.3		09/04/20	09/04/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	**2.5**	mg/L	0.40	0.12	08/30/20	08/30/20	2035126	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	08/30/20	08/30/20	2035126	
pH (Lab)	SM 4500HB	**8.5**	pH Units			08/31/20	08/31/20	2036008	
Sulfate (SO4)	EPA 300.0	**32**	mg/L	0.50	0.14	08/30/20	08/30/20	2035126	
Total Filterable Residue/TDS	SM 2540C	**460**	mg/L	5.0	3.1	09/02/20	09/03/20	2036054	
Metals									
Calcium (Ca)	EPA 200.7	**59**	mg/L	1.0	0.080	09/02/20	09/02/20	2036061	
Magnesium (Mg)	EPA 200.7	**18**	mg/L	1.0	0.51	09/02/20	09/02/20	2036061	
Potassium (K)	EPA 200.7	**15**	mg/L	1.0	0.18	09/02/20	09/02/20	2036061	
Sodium (Na)	EPA 200.7	**95**	mg/L	1.0	0.21	09/02/20	09/02/20	2036061	

J Detected below the Reporting Limit; reported concentration is estimated; (J-Flag)

pH (Lab) was analyzed ASAP but received and analyzed past the 15 minute hold time.

ND Analyte NOT DETECTED at or above the MDL; Method Detection Limit

Stu Styles
Client Services Manager

Post Office Box 329 San Bernardino, CA 92402 (909) 825-7693 Fax (909) 825-7696 ELAP Number 1088

Clinical Lab of San Bernardino, Inc. Chain of Custody

WO 20H2305

21881 Barton Road Grand Terrace CA 92313 909 825-7693 / 516-A N 8th St. Lompoc CA 93436 805 737-7300

Client	City of Beaumont
Address:	550 E. 6th St.
	Beaumont, CA. 92223
Client Contact:	
Phone No.:	FAX No.:
System No.:	
Project:	Max Benefits - Beaumont GMZ
Sampled By:	C. Hunter
Comments:	

Email results to: Ajakher@ci.beaumont.ca.us, ckhunter@dudek.com, sstuart@dudek.com

Destination Laboratory

[X] Clinical Grand Terrace / ELAP 1088
[ ] Clinical Lompoc / ELAP 1678
[ ] Other:

Date	Time	Sample Identification	Container ID	Matrix	Sample Type	No. of Preserved Cont. Unpreserved	Na2S2O3	NH4Cl	C6H8O6	HNO3	HCl	NaOH	Na2SO3	ZnC4H6O4	ChlorAC	Total Containers	Total Dissolved Solids (SM 2540C)	Nitrate-N (EPA 300.0)	Nitrite-N (EPA 300.0)	Ammonia-N (EPA 350.1)	Alkalinity (inc. HCO3, CO3, and OH	Ca, Mg, K, Na (EPA 200.7)	Sulfate (EPA 300.0)	Specific Conductance (SM 2510B)	pH (SM 4500H+B)	Chloride (EPA 300.0)	Fluoride (EPA 300.0)	Comments	Turn Around Time (TAT)
8/29/20	13:00	CC-01	1	SW		X										2	X	X	X	X	X	X	X	X	X	X	X		10
	12:30	CC-03	3	SW		X										2	X	X	X	X	X	X	X	X	X	X	X		10
	12:00	STC-01	STC	SW		X										2	X	X	X	X	X	X	X	X	X	X	X		10

Matrix: DW - Drinking Water GW - Ground Water SW - Surface Water W - Water WW - Wastewater SWR - Stormwater Runoff S - Sludge O - Other

Use for Bacteria Samples / Sample Type: 1-Routine 2-Repeat 3-Replacement 4-Special D-Distribution W-Well

TAT: (10) Ten Day (5) Five Day Rush (2) Two Day Rush

Relinquished By (Sign)	Print Name / Company	Date / Time	Received By (Sign)	Print Name / Company
	C. Hunter / Dudek	8/29/20 13:30		Chris Martinez
	Chris Martinez	8/30/20 9:50		Cam D. / CLSD

(Lab Use Only) Lompoc Lab Receipt Temp.: _____ °C

Shipped Via: [ ] Fed Ex [ ] Golden State Overnight [ ] UPS [ ] OnTrac [ ] USPS [ ] Other _____

Condition: [X] On Wet Ice [ ] On Blu Ice [X] Intact [ ] Custody Seals Samples / COC Checked By: _____ Work Order Logged By: _____

Receipt Comments: Clinical Lab Receipt Temp.: 5.0 °C

Beaumont, City of	Project: Maximum Benefit-Surface Water	Work Order: 20I1125
550 East 6th Street	Sub Project: Beaumont GMZ	Received: 09/13/20 09:30
Beaumont CA, 92223	Project Manager: Thaxton Van Belle	Reported: 09/23/20

CC - 01 **20I1125-01 (Water)** **Sample Date:** 09/12/20 13:00 **Sampler:** C. Hunter

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
General Chemical Analyses									
Alkalinity, Total (as CaCO3)	SM 2320 B	**250**	mg/L	5.0		09/18/20	09/18/20	2037111	
Ammonia as N (NH3-N)	EPA 350.1	**2.4**	mg/L	0.50	0.15	09/16/20	09/18/20	2038075	
Bicarbonate (HCO3)	SM 2320 B	**310**	mg/L	5.0		09/18/20	09/18/20	2037111	
Carbonate (CO3)	SM 2320B	ND	mg/L	5.0		09/18/20	09/18/20	2037111	
Chloride (Cl)	EPA 300.0	**94**	mg/L	1.0	0.075	09/13/20	09/13/20	2037108	
Specific Conductance (E.C.)	SM 2510B	**870**	umhos/cm	2.0	0.20	09/14/20	09/14/20	2037111	
Fluoride (F)	EPA 300.0	**0.27**	mg/L	0.10	0.026	09/13/20	09/13/20	2037108	
Hardness, Total (as CaCO3)	Calculated	**190**	mg/L	6.6		09/16/20	09/16/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		09/18/20	09/18/20	2037111	
Inorganic Nitrogen	Calculated	**7.3**	mg/L	1.3		09/16/20	09/18/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	**4.9**	mg/L	0.40	0.12	09/13/20	09/13/20	2037108	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	09/13/20	09/13/20	2037108	
pH (Lab)	SM 4500HB	**8.1**	pH Units			09/14/20	09/14/20	2037111	
Sulfate (SO4)	EPA 300.0	**30**	mg/L	0.50	0.14	09/13/20	09/13/20	2037108	
Total Filterable Residue/TDS	SM 2540C	**480**	mg/L	5.0	3.1	09/15/20	09/17/20	2038028	
Metals									
Calcium (Ca)	EPA 200.7	**49**	mg/L	1.0	0.080	09/16/20	09/16/20	2038073	
Magnesium (Mg)	EPA 200.7	**16**	mg/L	1.0	0.51	09/16/20	09/16/20	2038073	
Potassium (K)	EPA 200.7	**18**	mg/L	1.0	0.18	09/16/20	09/16/20	2038073	
Sodium (Na)	EPA 200.7	**100**	mg/L	5.0	1.1	09/16/20	09/16/20	2038073	

Stu Styles
Client Services Manager

Post Office Box 329 San Bernardino, CA 92402 (909) 825-7693 Fax (909) 825-7696 ELAP Number 1088

Beaumont, City of	Project: Maximum Benefit-Surface Water	Work Order: 20I1125
550 East 6th Street	Sub Project: Beaumont GMZ	Received: 09/13/20 09:30
Beaumont CA, 92223	Project Manager: Thaxton Van Belle	Reported: 09/23/20

CC - 03 **20I1125-02 (Water)** **Sample Date:** 09/12/20 12:15 **Sampler:** C. Hunter

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
General Chemical Analyses									
Alkalinity, Total (as CaCO3)	SM 2320 B	**260**	mg/L	5.0		09/18/20	09/18/20	2037111	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	09/16/20	09/18/20	2038075	
Bicarbonate (HCO3)	SM 2320 B	**300**	mg/L	5.0		09/18/20	09/18/20	2037111	
Carbonate (CO3)	SM 2320B	**7.7**	mg/L	5.0		09/18/20	09/18/20	2037111	
Chloride (Cl)	EPA 300.0	**94**	mg/L	1.0	0.075	09/13/20	09/13/20	2037108	
Specific Conductance (E.C.)	SM 2510B	**850**	umhos/cm	2.0	0.20	09/14/20	09/14/20	2037111	
Fluoride (F)	EPA 300.0	**0.28**	mg/L	0.10	0.026	09/13/20	09/13/20	2037108	
Hardness, Total (as CaCO3)	Calculated	**190**	mg/L	6.6		09/16/20	09/16/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		09/18/20	09/18/20	2037111	
Inorganic Nitrogen	Calculated	**1.6**	mg/L	1.3		09/16/20	09/18/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	**1.6**	mg/L	0.40	0.12	09/13/20	09/13/20	2037108	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	09/13/20	09/13/20	2037108	
pH (Lab)	SM 4500HB	**8.4**	pH Units			09/14/20	09/14/20	2037111	
Sulfate (SO4)	EPA 300.0	**30**	mg/L	0.50	0.14	09/13/20	09/13/20	2037108	
Total Filterable Residue/TDS	SM 2540C	**470**	mg/L	5.0	3.1	09/15/20	09/17/20	2038028	
Metals									
Calcium (Ca)	EPA 200.7	**49**	mg/L	1.0	0.080	09/16/20	09/16/20	2038073	
Magnesium (Mg)	EPA 200.7	**16**	mg/L	1.0	0.51	09/16/20	09/16/20	2038073	
Potassium (K)	EPA 200.7	**19**	mg/L	1.0	0.18	09/16/20	09/16/20	2038073	
Sodium (Na)	EPA 200.7	**100**	mg/L	5.0	1.1	09/16/20	09/16/20	2038073	

Stu Styles
Client Services Manager

Post Office Box 329 San Bernardino, CA 92402 (909) 825-7693 Fax (909) 825-7696 ELAP Number 1088

Beaumont, City of	Project: Maximum Benefit-Surface Water	Work Order: 20I1125
550 East 6th Street	Sub Project: Beaumont GMZ	Received: 09/13/20 09:30
Beaumont CA, 92223	Project Manager: Thaxton Van Belle	Reported: 09/23/20

STC - 01 **20I1125-03 (Water)** **Sample Date:** 09/12/20 11:30 **Sampler:** C. Hunter

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
General Chemical Analyses									
Alkalinity, Total (as CaCO3)	SM 2320 B	**270**	mg/L	5.0		09/18/20	09/18/20	2037111	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	09/16/20	09/18/20	2038075	
Bicarbonate (HCO3)	SM 2320 B	**310**	mg/L	5.0		09/18/20	09/18/20	2037111	
Carbonate (CO3)	SM 2320B	**7.2**	mg/L	5.0		09/18/20	09/18/20	2037111	
Chloride (Cl)	EPA 300.0	**90**	mg/L	1.0	0.075	09/13/20	09/13/20	2037108	
Specific Conductance (E.C.)	SM 2510B	**840**	umhos/cm	2.0	0.20	09/14/20	09/14/20	2037111	
Fluoride (F)	EPA 300.0	**0.45**	mg/L	0.10	0.026	09/13/20	09/13/20	2037108	
Hardness, Total (as CaCO3)	Calculated	**220**	mg/L	6.6		09/16/20	09/16/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		09/18/20	09/18/20	2037111	
Inorganic Nitrogen	Calculated	**1.5**	mg/L	1.3		09/16/20	09/18/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	**1.5**	mg/L	0.40	0.12	09/13/20	09/13/20	2037108	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	09/13/20	09/13/20	2037108	
pH (Lab)	SM 4500HB	**8.4**	pH Units			09/14/20	09/14/20	2037111	
Sulfate (SO4)	EPA 300.0	**31**	mg/L	0.50	0.14	09/13/20	09/13/20	2037108	
Total Filterable Residue/TDS	SM 2540C	**470**	mg/L	5.0	3.1	09/15/20	09/17/20	2038028	
Metals									
Calcium (Ca)	EPA 200.7	**59**	mg/L	1.0	0.080	09/16/20	09/16/20	2038073	
Magnesium (Mg)	EPA 200.7	**18**	mg/L	1.0	0.51	09/16/20	09/16/20	2038073	
Potassium (K)	EPA 200.7	**13**	mg/L	1.0	0.18	09/16/20	09/16/20	2038073	
Sodium (Na)	EPA 200.7	**98**	mg/L	1.0	0.21	09/16/20	09/16/20	2038073	

J Detected below the Reporting Limit; reported concentration is estimated; (J-Flag)

pH (Lab) was analyzed ASAP but received and analyzed past the 15 minute hold time.

ND Analyte NOT DETECTED at or above the MDL; Method Detection Limit

Stu Styles
Client Services Manager

Post Office Box 329 San Bernardino, CA 92402 (909) 825-7693 Fax (909) 825-7696 ELAP Number 1088

Clinical Lab of San Bernardino, Inc. Chain of Custody

0/0/6
WO 20I1125

21881 Barton Road Grand Terrace CA 92313 909 825-7693 / 516-A N 8th St. Lompoc CA 93436 805 737-7300

Client	City of Beaumont
Address:	550 E. 6th St.
	Beaumont, CA. 92223
Client Contact:	
Phone No.:	FAX No.:
System No.:	
Project:	Max Benefits - Beaumont GMZ
Sampled By:	
Comments:	
Email results to:	Ajakher@ci.beaumont.ca.us, ckhunter@dudek.com, sstuart@dudek.com

Destination Laboratory

[X] Clinical Grand Terrace / ELAP 1088
[ ] Clinical Lompoc / ELAP 1678
[ ] Other:

Date	Time	Sample Identification	Container ID	Matrix	Sample Type	No. of Preserved Cont.									Total Containers	Analysis Requested											Comments	Turn Around Time (TAT)
						Unpreserved	Na2S2O3	NH4Cl	C6H8O6	HNO3	HCl	NaOH	Na2SO3	ZnC4H6O4	ChlorAC		Total Dissolved Solids (SM 2540C)	Nitrate-N (EPA 300.0)	Nitrite-N (EPA 300.0)	Ammonia-N (EPA 350.1)	Alkalinity (inc. HCO3, CO3, and OH	Ca, Mg, K, Na (EPA 200.7)	Sulfate (EPA 300.0)	Specific Conductance (SM 2510B)	pH (SM 4500H+B)	Chloride (EPA 300.0)	Fluoride (EPA 300.0)		
9/12/2	13:00	CC-01		SW		X										X	X	X	X	X	X	X	X	X	X	X		10
	12:15	CC-03		SW		X										X	X	X	X	X	X	X	X	X	X	X		10
	11:30	STC-01		SW		X										X	X	X	X	X	X	X	X	X	X	X		10

Matrix: DW - Drinking Water GW - Ground Water SW - Surface Water W - Water WW - Wastewater SWR - Stormwater Runoff S - Sludge O - Other

Use for Bacteria Samples / Sample Type: 1-Routine 2-Repeat 3-Replacement 4-Special D-Distribution W-Well

TAT: (10) Ten Day (5) Five Day Rush (2) Two Day Rush

Relinquished By (Sign)	Print Name / Company	Date / Time	Received By (Sign)	Print Name / Company
Chris Martinez	Chris Martinez	9-13 2e 9.3	C.D~	Chris Martinez Colin D. / CUSB

(Lab Use Only) Lompoc Lab Receipt Temp.: ___ °C

Shipped Via: [ ] Fed Ex [ ] Golden State Overnight [ ] UPS [ ] OnTrac [ ] USPS [ ] Other _____

Condition: [ ] On Wet Ice [ ] On Blu Ice [ ] Intact [ ] Custody Seals Samples / COC Checked By: _____ Work Order Logged By: _____

Receipt Comments: Clinical Lab Receipt Temp.: 6 °C

Beaumont, City of	Project: Maximum Benefit-Surface Water	Work Order: 20I2051
550 East 6th Street	Sub Project: Beaumont GMZ	Received: 09/23/20 14:32
Beaumont CA, 92223	Project Manager: Thaxton Van Belle	Reported: 10/05/20

CC - 01 **20I2051-01 (Water)** **Sample Date:** 09/22/20 17:30 **Sampler:** C. Hunter

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
General Chemical Analyses									
Alkalinity, Total (as CaCO3)	SM 2320 B	**230**	mg/L	5.0		09/30/20	09/30/20	2039057	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	09/29/20	10/01/20	2040053	
Bicarbonate (HCO3)	SM 2320 B	**280**	mg/L	5.0		09/30/20	09/30/20	2039057	
Carbonate (CO3)	SM 2320B	ND	mg/L	5.0		09/30/20	09/30/20	2039057	
Chloride (Cl)	EPA 300.0	**97**	mg/L	1.0	0.075	09/23/20	09/23/20	2039063	
Specific Conductance (E.C.)	SM 2510B	**800**	umhos/cm	2.0	0.20	09/24/20	09/24/20	2039057	
Fluoride (F)	EPA 300.0	**0.36**	mg/L	0.10	0.026	09/23/20	09/23/20	2039063	
Hardness, Total (as CaCO3)	Calculated	**180**	mg/L	6.6		09/28/20	09/28/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		09/30/20	09/30/20	2039057	
Inorganic Nitrogen	Calculated	**3.2**	mg/L	1.3		09/29/20	10/01/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	**3.2**	mg/L	0.40	0.12	09/23/20	09/23/20	2039063	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	09/23/20	09/23/20	2039063	
pH (Lab)	SM 4500HB	**8.1**	pH Units			09/24/20	09/24/20	2039057	
Sulfate (SO4)	EPA 300.0	**35**	mg/L	0.50	0.14	09/23/20	09/23/20	2039063	
Total Filterable Residue/TDS	SM 2540C	**480**	mg/L	5.0	3.1	09/25/20	09/28/20	2039100	
Metals									
Calcium (Ca)	EPA 200.7	**47**	mg/L	1.0	0.080	09/28/20	09/28/20	2040011	
Magnesium (Mg)	EPA 200.7	**16**	mg/L	1.0	0.51	09/28/20	09/28/20	2040011	
Potassium (K)	EPA 200.7	**17**	mg/L	1.0	0.18	09/28/20	09/28/20	2040011	
Sodium (Na)	EPA 200.7	**97**	mg/L	1.0	0.21	09/28/20	09/28/20	2040011	

Stu Styles
Client Services Manager

Post Office Box 329 San Bernardino, CA 92402 (909) 825-7693 Fax (909) 825-7696 ELAP Number 1088

Beaumont, City of	Project: Maximum Benefit-Surface Water	Work Order: 20I2051
550 East 6th Street	Sub Project: Beaumont GMZ	Received: 09/23/20 14:32
Beaumont CA, 92223	Project Manager: Thaxton Van Belle	Reported: 10/05/20

CC - 03 **20I2051-02 (Water)** **Sample Date:** 09/22/20 16:45 **Sampler:** C. Hunter

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
General Chemical Analyses									
Alkalinity, Total (as CaCO3)	SM 2320 B	**220**	mg/L	5.0		09/30/20	09/30/20	2039057	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	09/29/20	10/01/20	2040053	
Bicarbonate (HCO3)	SM 2320 B	**270**	mg/L	5.0		09/30/20	09/30/20	2039057	
Carbonate (CO3)	SM 2320B	ND	mg/L	5.0		09/30/20	09/30/20	2039057	
Chloride (Cl)	EPA 300.0	**100**	mg/L	1.0	0.075	09/23/20	09/23/20	2039063	
Specific Conductance (E.C.)	SM 2510B	**820**	umhos/cm	2.0	0.20	09/24/20	09/24/20	2039057	
Fluoride (F)	EPA 300.0	**0.36**	mg/L	0.10	0.026	09/23/20	09/23/20	2039063	
Hardness, Total (as CaCO3)	Calculated	**200**	mg/L	6.6		09/28/20	09/28/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		09/30/20	09/30/20	2039057	
Inorganic Nitrogen	Calculated	**6.2**	mg/L	1.3		09/29/20	10/01/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	**6.2**	mg/L	0.40	0.12	09/23/20	09/23/20	2039063	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	09/23/20	09/23/20	2039063	
pH (Lab)	SM 4500HB	**8.3**	pH Units			09/24/20	09/24/20	2039057	
Sulfate (SO4)	EPA 300.0	**37**	mg/L	0.50	0.14	09/23/20	09/23/20	2039063	
Total Filterable Residue/TDS	SM 2540C	**470**	mg/L	5.0	3.1	09/28/20	10/01/20	2040019	
Metals									
Calcium (Ca)	EPA 200.7	**52**	mg/L	1.0	0.080	09/28/20	09/28/20	2040011	
Magnesium (Mg)	EPA 200.7	**17**	mg/L	1.0	0.51	09/28/20	09/28/20	2040011	
Potassium (K)	EPA 200.7	**18**	mg/L	1.0	0.18	09/28/20	09/28/20	2040011	
Sodium (Na)	EPA 200.7	**100**	mg/L	5.0	1.1	09/28/20	09/28/20	2040011	

Stu Styles
Client Services Manager

Post Office Box 329 San Bernardino, CA 92402 (909) 825-7693 Fax (909) 825-7696 ELAP Number 1088

Beaumont, City of	Project: Maximum Benefit-Surface Water	Work Order: 20I2051
550 East 6th Street	Sub Project: Beaumont GMZ	Received: 09/23/20 14:32
Beaumont CA, 92223	Project Manager: Thaxton Van Belle	Reported: 10/05/20

STC - 01 **20I2051-03 (Water)** **Sample Date:** 09/22/20 16:00 **Sampler:** C. Hunter

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
General Chemical Analyses									
Alkalinity, Total (as CaCO3)	SM 2320 B	**250**	mg/L	5.0		09/30/20	09/30/20	2039057	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	09/29/20	10/01/20	2040053	
Bicarbonate (HCO3)	SM 2320 B	**280**	mg/L	5.0		09/30/20	09/30/20	2039057	
Carbonate (CO3)	SM 2320B	**9.6**	mg/L	5.0		09/30/20	09/30/20	2039057	
Chloride (Cl)	EPA 300.0	**89**	mg/L	1.0	0.075	09/24/20	09/24/20	2039063	
Specific Conductance (E.C.)	SM 2510B	**790**	umhos/cm	2.0	0.20	09/24/20	09/24/20	2039057	
Fluoride (F)	EPA 300.0	**0.31**	mg/L	0.10	0.026	09/24/20	09/24/20	2039063	
Hardness, Total (as CaCO3)	Calculated	**230**	mg/L	6.6		09/28/20	09/28/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		09/30/20	09/30/20	2039057	
Inorganic Nitrogen	Calculated	**2.0**	mg/L	1.3		09/29/20	10/01/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	**2.0**	mg/L	0.40	0.12	09/24/20	09/24/20	2039063	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	09/24/20	09/24/20	2039063	
pH (Lab)	SM 4500HB	**8.4**	pH Units			09/24/20	09/24/20	2039057	
Sulfate (SO4)	EPA 300.0	**39**	mg/L	0.50	0.14	09/24/20	09/24/20	2039063	
Total Filterable Residue/TDS	SM 2540C	**460**	mg/L	5.0	3.1	09/28/20	10/01/20	2040019	
Metals									
Calcium (Ca)	EPA 200.7	**59**	mg/L	1.0	0.080	09/28/20	09/28/20	2040011	
Magnesium (Mg)	EPA 200.7	**19**	mg/L	1.0	0.51	09/28/20	09/28/20	2040011	
Potassium (K)	EPA 200.7	**16**	mg/L	1.0	0.18	09/28/20	09/28/20	2040011	
Sodium (Na)	EPA 200.7	**100**	mg/L	1.0	0.21	09/28/20	09/28/20	2040011	

J Detected below the Reporting Limit; reported concentration is estimated; (J-Flag)

pH (Lab) was analyzed ASAP but received and analyzed past the 15 minute hold time.

ND Analyte NOT DETECTED at or above the MDL; Method Detection Limit

Stu Styles
Client Services Manager

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Clinical Lab of San Bernardino, Inc. 0-0-4 Chain of Custody

WO 20I2051

21881 Barton Road Grand Terrace CA 92313 909 825-7693 / 516-A N 8th St. Lompoc CA 93436 805 737-7300

Client	City of Beaumont
Address:	550 E. 6th St.
	Beaumont, CA. 92223
Client Contact:	
Phone No.:	FAX No.:
System No.:	
Project:	Max Benefits - Beaumont GMZ
Sampled By:	C. Hunter
Comments:	

Email results to: Ajakher@ci.beaumont.ca.us, ckhunter@dudek.com, sstuart@dudek.com

Destination Laboratory

[X] Clinical Grand Terrace / ELAP 1088
[ ] Clinical Lompoc / ELAP 1678
[ ] Other:

Date	Time	Sample Identification	Container ID	Matrix	Sample Type	No. of Preserved Cont. Unpreserved	Na2S2O3	NH4Cl	C6H8O6	HNO3	HCl	NaOH	Na2SO3	ZnC4H6O4	ChlorAC	Total Containers	Total Dissolved Solids (SM 2540C)	Nitrate-N (EPA 300.0)	Nitrite-N (EPA 300.0)	Ammonia-N (EPA 350.1)	Alkalinity (inc. HCO3, CO3, and OH	Ca, Mg, K, Na (EPA 200.7)	Sulfate (EPA 300.0)	Specific Conductance (SM 2510B)	pH (SM 4500H+B)	Chloride (EPA 300.0)	Fluoride (EPA 300.0)	Comments	Turn Around Time (TAT)
9/22/20	17:30	CC-01	1	SW		X										2	X	X	X	X	X	X	X	X	X	X	X		10
1	16:45	CC-03	3	SW		X										2	X	X	X	X	X	X	X	X	X	X	X		10
	16:20	STC-01	STC	SW		X										2	X	X	X	X	X	X	X	X	X	X	X		10

Matrix: DW - Drinking Water GW - Ground Water SW - Surface Water W - Water WW - Wastewater SWR - Stormwater Runoff S - Sludge O - Other

Use for Bacteria Samples / Sample Type: 1-Routine 2-Repeat 3-Replacement 4-Special D-Distribution W-Well

TAT: (10) Ten Day (5) Five Day Rush (2) Two Day Rush

Relinquished By (Sign)	Print Name / Company	Date / Time	Received By (Sign)	Print Name / Company
	C Hunter / Dudek	9/23/20 14:00		
		9-23-20 14:32		JA CLSB

(Lab Use Only) Lompoc Lab Receipt Temp.: _____ °C

Shipped Via: [ ] Fed Ex [ ] Golden State Overnight [ ] UPS [ ] OnTrac [ ] USPS [ ] Other _____

Condition: [ ] On Wet Ice [ ] On Blu Ice [ ] Intact [ ] Custody Seals Samples / COC Checked By: _____ Work Order Logged By: _____

Receipt Comments: Clinical Lab Receipt Temp.: 0.9 °C

Beaumont, City of	Project: Maximum Benefit-Surface Water	Work Order: 20J0887
550 East 6th Street	Sub Project: Beaumont GMZ	Received: 10/12/20 09:05
Beaumont CA, 92223	Project Manager: Thaxton Van Belle	Reported: 10/22/20

CC - 01 **20J0887-01 (Water)** **Sample Date:** 10/10/20 18:00 **Sampler:** C. Hunter

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
General Chemical Analyses									
Alkalinity, Total (as CaCO3)	SM 2320 B	**230**	mg/L	5.0		10/14/20	10/14/20	2041148	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	10/19/20	10/19/20	2042079	
Bicarbonate (HCO3)	SM 2320 B	**280**	mg/L	5.0		10/14/20	10/14/20	2041148	
Carbonate (CO3)	SM 2320B	ND	mg/L	5.0		10/14/20	10/14/20	2041148	
Chloride (Cl)	EPA 300.0	**90**	mg/L	1.0	0.075	10/12/20	10/12/20	2042020	
Specific Conductance (E.C.)	SM 2510B	**820**	umhos/cm	2.0	0.20	10/12/20	10/12/20	2041148	
Fluoride (F)	EPA 300.0	**0.41**	mg/L	0.10	0.026	10/12/20	10/12/20	2042020	
Hardness, Total (as CaCO3)	Calculated	**200**	mg/L	6.6		10/20/20	10/20/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		10/14/20	10/14/20	2041148	
Inorganic Nitrogen	Calculated	**6.5**	mg/L	1.3		10/19/20	10/19/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	**6.5**	mg/L	0.40	0.12	10/12/20	10/12/20	2042020	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	10/12/20	10/12/20	2042020	
pH (Lab)	SM 4500HB	**8.1**	pH Units			10/12/20	10/12/20	2041148	
Sulfate (SO4)	EPA 300.0	**35**	mg/L	0.50	0.14	10/12/20	10/12/20	2042020	
Total Filterable Residue/TDS	SM 2540C	**460**	mg/L	5.0	3.1	10/12/20	10/15/20	2042025	
Metals									
Calcium (Ca)	EPA 200.7	**52**	mg/L	1.0	0.080	10/20/20	10/20/20	2043046	
Magnesium (Mg)	EPA 200.7	**17**	mg/L	1.0	0.51	10/20/20	10/20/20	2043046	
Potassium (K)	EPA 200.7	**20**	mg/L	1.0	0.18	10/20/20	10/20/20	2043046	
Sodium (Na)	EPA 200.7	**100**	mg/L	1.0	0.21	10/20/20	10/20/20	2043046	

Stu Styles
Client Services Manager

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Beaumont, City of	Project: Maximum Benefit-Surface Water	Work Order: 20J0887
550 East 6th Street	Sub Project: Beaumont GMZ	Received: 10/12/20 09:05
Beaumont CA, 92223	Project Manager: Thaxton Van Belle	Reported: 10/22/20

CC - 03 **20J0887-02 (Water)** **Sample Date:** 10/10/20 17:15 **Sampler:** C. Hunter

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
General Chemical Analyses									
Alkalinity, Total (as CaCO3)	SM 2320 B	**230**	mg/L	5.0		10/14/20	10/14/20	2041148	
Ammonia as N (NH3-N)	EPA 350.1	**0.41**	mg/L	0.50	0.15	10/19/20	10/19/20	2042079	J
Bicarbonate (HCO3)	SM 2320 B	**280**	mg/L	5.0		10/14/20	10/14/20	2041148	
Carbonate (CO3)	SM 2320B	ND	mg/L	5.0		10/14/20	10/14/20	2041148	
Chloride (Cl)	EPA 300.0	**95**	mg/L	1.0	0.075	10/12/20	10/12/20	2042020	
Specific Conductance (E.C.)	SM 2510B	**850**	umhos/cm	2.0	0.20	10/12/20	10/12/20	2041148	
Fluoride (F)	EPA 300.0	**0.41**	mg/L	0.10	0.026	10/12/20	10/12/20	2042020	
Hardness, Total (as CaCO3)	Calculated	**200**	mg/L	6.6		10/20/20	10/20/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		10/14/20	10/14/20	2041148	
Inorganic Nitrogen	Calculated	**7.6**	mg/L	1.3		10/19/20	10/19/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	**7.2**	mg/L	0.40	0.12	10/12/20	10/12/20	2042020	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	10/12/20	10/12/20	2042020	
pH (Lab)	SM 4500HB	**8.3**	pH Units			10/12/20	10/12/20	2041148	
Sulfate (SO4)	EPA 300.0	**36**	mg/L	0.50	0.14	10/12/20	10/12/20	2042020	
Total Filterable Residue/TDS	SM 2540C	**480**	mg/L	5.0	3.1	10/12/20	10/15/20	2042025	
Metals									
Calcium (Ca)	EPA 200.7	**52**	mg/L	1.0	0.080	10/20/20	10/20/20	2043046	
Magnesium (Mg)	EPA 200.7	**18**	mg/L	1.0	0.51	10/20/20	10/20/20	2043046	
Potassium (K)	EPA 200.7	**22**	mg/L	1.0	0.18	10/20/20	10/20/20	2043046	
Sodium (Na)	EPA 200.7	**100**	mg/L	1.0	0.21	10/20/20	10/20/20	2043046	

Stu Styles
Client Services Manager

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Beaumont, City of	Project: Maximum Benefit-Surface Water	Work Order: 20J0887
550 East 6th Street	Sub Project: Beaumont GMZ	Received: 10/12/20 09:05
Beaumont CA, 92223	Project Manager: Thaxton Van Belle	Reported: 10/22/20

STC - 01 **20J0887-03 (Water)** **Sample Date:** 10/10/20 16:30 **Sampler:** C. Hunter

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
General Chemical Analyses									
Alkalinity, Total (as CaCO3)	SM 2320 B	**260**	mg/L	5.0		10/14/20	10/14/20	2041148	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	10/19/20	10/19/20	2042079	
Bicarbonate (HCO3)	SM 2320 B	**310**	mg/L	5.0		10/14/20	10/14/20	2041148	
Carbonate (CO3)	SM 2320B	**6.7**	mg/L	5.0		10/14/20	10/14/20	2041148	
Chloride (Cl)	EPA 300.0	**81**	mg/L	1.0	0.075	10/12/20	10/12/20	2042020	
Specific Conductance (E.C.)	SM 2510B	**790**	umhos/cm	2.0	0.20	10/12/20	10/12/20	2041148	
Fluoride (F)	EPA 300.0	**0.44**	mg/L	0.10	0.026	10/12/20	10/12/20	2042020	
Hardness, Total (as CaCO3)	Calculated	**220**	mg/L	6.6		10/20/20	10/20/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		10/14/20	10/14/20	2041148	
Inorganic Nitrogen	Calculated	ND	mg/L	1.3		10/19/20	10/19/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	**0.67**	mg/L	0.40	0.12	10/12/20	10/12/20	2042020	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	10/12/20	10/12/20	2042020	
pH (Lab)	SM 4500HB	**8.4**	pH Units			10/12/20	10/12/20	2041148	
Sulfate (SO4)	EPA 300.0	**34**	mg/L	0.50	0.14	10/12/20	10/12/20	2042020	
Total Filterable Residue/TDS	SM 2540C	**460**	mg/L	5.0	3.1	10/12/20	10/15/20	2042025	
Metals									
Calcium (Ca)	EPA 200.7	**59**	mg/L	1.0	0.080	10/20/20	10/20/20	2043046	
Magnesium (Mg)	EPA 200.7	**18**	mg/L	1.0	0.51	10/20/20	10/20/20	2043046	
Potassium (K)	EPA 200.7	**16**	mg/L	1.0	0.18	10/20/20	10/20/20	2043046	
Sodium (Na)	EPA 200.7	**97**	mg/L	1.0	0.21	10/20/20	10/20/20	2043046	

J Detected below the Reporting Limit; reported concentration is estimated; (J-Flag)

pH (Lab) was analyzed ASAP but received and analyzed past the 15 minute hold time.

ND Analyte NOT DETECTED at or above the MDL; Method Detection Limit

Stu Styles
Client Services Manager

Post Office Box 329 San Bernardino, CA 92402 (909) 825-7693 Fax (909) 825-7696 ELAP Number 1088

0/0/6

WO 20J0887

Clinical Lab of San Bernardino, Inc. — Chain of Custody

21881 Barton Road Grand Terrace CA 92313 909 825-7693 / 516-A N 8th St. Lompoc CA 93436 805 737-7300

Client	City of Beaumont
Address:	550 E. 6th St.
	Beaumont, CA. 92223
Client Contact:	
Phone No.:	FAX No.:
System No.:	
Project:	Max Benefits - Beaumont GMZ
Sampled By:	C Hunter
Comments:	

Email results to: Ajakher@ci.beaumont.ca.us, ckhunter@dudek.com, sstuart@dudek.com

Destination Laboratory

[X] Clinical Grand Terrace / ELAP 1088
[ ] Clinical Lompoc / ELAP 1678
[ ] Other:

Date	Time	Sample Identification	Container ID	Matrix	Sample Type	Unpreserved	Na2S2O3	NH4Cl	C6H8O6	HNO3	HCl	NaOH	Na2SO3	ZnC4H6O4	ChlorAC	Total Containers	Total Dissolved Solids (SM 2540C)	Nitrate-N (EPA 300.0)	Nitrite-N (EPA 300.0)	Ammonia-N (EPA 350.1)	Alkalinity (inc. HCO3, CO3, and OH)	Ca, Mg, K, Na (EPA 200.7)	Sulfate (EPA 300.0)	Specific Conductance (SM 2510B)	pH (SM 4500H+B)	Chloride (EPA 300.0)	Fluoride (EPA 300.0)	Comments	Turn Around Time (TAT)
10/10/20	18:00	CC-01	1	SW		X										2	X	X	X	X	X	X	X	X	X	X	X		10
	17:15	CC-03	3	SW		X										2	X	X	X	X	X	X	X	X	X	X	X		10
	16:30	STC-01	STC	SW		X										2	X	X	X	X	X	X	X	X	X	X	X		10

Matrix: DW - Drinking Water GW - Ground Water SW - Surface Water W - Water WW - Wastewater SWR - Stormwater Runoff S - Sludge O - Other

Use for Bacteria Samples / Sample Type: 1-Routine 2-Repeat 3-Replacement 4-Special D-Distribution W-Well

TAT: (10) Ten Day (5) Five Day Rush (2) Two Day Rush

Relinquished By (Sign)	Print Name / Company	Date / Time	Received By (Sign)	Print Name / Company
[signature]	C Hunter / Dudek	10/10/20 19:00		
		10/12/2020/820	[signature]	Sh Styles / CLSB
[signature]	Sh Styles / CLSB	10/12/2020/905	[signature]	[illegible] CLSB

(Lab Use Only) Lompoc Lab Receipt Temp.: ______ °C

Shipped Via: [ ] Fed Ex [ ] Golden State Overnight [ ] UPS [ ] OnTrac [ ] USPS [ ] Other ________

Condition: [X] On Wet Ice [ ] On Blu Ice [X] Intact [ ] Custody Seals Samples / COC Checked By: ______ Work Order Logged By: ______

Receipt Comments: Clinical Lab Receipt Temp.: 2.3 °C

Beaumont, City of	Project: Maximum Benefit-Surface Water	Work Order: 20K0276
550 East 6th Street	Sub Project: Beaumont GMZ	Received: 11/04/20 09:05
Beaumont CA, 92223	Project Manager: Thaxton Van Belle	Reported: 11/16/20

CC - 01 **20K0276-01 (Water)** **Sample Date:** 11/03/20 13:30 **Sampler:** C. Hunter

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
General Chemical Analyses									
Alkalinity, Total (as CaCO3)	SM 2320 B	**140**	mg/L	5.0		11/10/20	11/10/20	2045079	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	11/12/20	11/12/20	2046088	
Bicarbonate (HCO3)	SM 2320 B	**170**	mg/L	5.0		11/10/20	11/10/20	2045079	
Carbonate (CO3)	SM 2320B	ND	mg/L	5.0		11/10/20	11/10/20	2045079	
Chloride (Cl)	EPA 300.0	**55**	mg/L	1.0	0.075	11/04/20	11/04/20	2045090	
Specific Conductance (E.C.)	SM 2510B	**510**	umhos/cm	2.0	0.20	11/04/20	11/04/20	2045079	
Fluoride (F)	EPA 300.0	**0.26**	mg/L	0.10	0.026	11/04/20	11/04/20	2045090	
Hardness, Total (as CaCO3)	Calculated	**110**	mg/L	6.6		11/12/20	11/12/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		11/10/20	11/10/20	2045079	
Inorganic Nitrogen	Calculated	**3.6**	mg/L	1.3		11/12/20	11/12/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	**3.6**	mg/L	0.40	0.12	11/04/20	11/04/20	2045090	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	11/04/20	11/04/20	2045090	
pH (Lab)	SM 4500HB	**8.0**	pH Units			11/04/20	11/04/20	2045079	
Sulfate (SO4)	EPA 300.0	**19**	mg/L	0.50	0.14	11/04/20	11/04/20	2045090	
Total Filterable Residue/TDS	SM 2540C	**280**	mg/L	5.0	3.1	11/05/20	11/09/20	2045122	
Metals									
Calcium (Ca)	EPA 200.7	**28**	mg/L	1.0	0.080	11/12/20	11/12/20	2046120	
Magnesium (Mg)	EPA 200.7	**9.7**	mg/L	1.0	0.51	11/12/20	11/12/20	2046120	
Potassium (K)	EPA 200.7	**11**	mg/L	1.0	0.18	11/12/20	11/12/20	2046120	
Sodium (Na)	EPA 200.7	**64**	mg/L	1.0	0.21	11/12/20	11/12/20	2046120	

Stu Styles
Client Services Manager

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Beaumont, City of	Project: Maximum Benefit-Surface Water	Work Order: 20K0276
550 East 6th Street	Sub Project: Beaumont GMZ	Received: 11/04/20 09:05
Beaumont CA, 92223	Project Manager: Thaxton Van Belle	Reported: 11/16/20

CC - 03 **20K0276-02 (Water)** **Sample Date:** 11/03/20 12:45 **Sampler:** C. Hunter

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
General Chemical Analyses									
Alkalinity, Total (as CaCO3)	SM 2320 B	**180**	mg/L	5.0		11/10/20	11/10/20	2045079	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	11/12/20	11/12/20	2046088	
Bicarbonate (HCO3)	SM 2320 B	**220**	mg/L	5.0		11/10/20	11/10/20	2045079	
Carbonate (CO3)	SM 2320B	ND	mg/L	5.0		11/10/20	11/10/20	2045079	
Chloride (Cl)	EPA 300.0	**67**	mg/L	1.0	0.075	11/04/20	11/04/20	2045090	
Specific Conductance (E.C.)	SM 2510B	**610**	umhos/cm	2.0	0.20	11/04/20	11/04/20	2045079	
Fluoride (F)	EPA 300.0	**0.31**	mg/L	0.10	0.026	11/04/20	11/04/20	2045090	
Hardness, Total (as CaCO3)	Calculated	**140**	mg/L	6.6		11/12/20	11/12/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		11/10/20	11/10/20	2045079	
Inorganic Nitrogen	Calculated	**2.6**	mg/L	1.3		11/12/20	11/12/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	**2.6**	mg/L	0.40	0.12	11/04/20	11/04/20	2045090	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	11/04/20	11/04/20	2045090	
pH (Lab)	SM 4500HB	**8.3**	pH Units			11/04/20	11/04/20	2045079	
Sulfate (SO4)	EPA 300.0	**24**	mg/L	0.50	0.14	11/04/20	11/04/20	2045090	
Total Filterable Residue/TDS	SM 2540C	**350**	mg/L	5.0	3.1	11/05/20	11/09/20	2045122	
Metals									
Calcium (Ca)	EPA 200.7	**37**	mg/L	1.0	0.080	11/12/20	11/12/20	2046120	
Magnesium (Mg)	EPA 200.7	**12**	mg/L	1.0	0.51	11/12/20	11/12/20	2046120	
Potassium (K)	EPA 200.7	**14**	mg/L	1.0	0.18	11/12/20	11/12/20	2046120	
Sodium (Na)	EPA 200.7	**77**	mg/L	1.0	0.21	11/12/20	11/12/20	2046120	

Stu Styles
Client Services Manager

Post Office Box 329 San Bernardino, CA 92402 (909) 825-7693 Fax (909) 825-7696 ELAP Number 1088

Beaumont, City of	Project: Maximum Benefit-Surface Water	Work Order: 20K0276
550 East 6th Street	Sub Project: Beaumont GMZ	Received: 11/04/20 09:05
Beaumont CA, 92223	Project Manager: Thaxton Van Belle	Reported: 11/16/20

STC - 01 **20K0276-03 (Water)** **Sample Date:** 11/03/20 12:00 **Sampler:** C. Hunter

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
General Chemical Analyses									
Alkalinity, Total (as CaCO3)	SM 2320 B	**260**	mg/L	5.0		11/10/20	11/10/20	2045079	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	11/12/20	11/12/20	2046088	
Bicarbonate (HCO3)	SM 2320 B	**320**	mg/L	5.0		11/10/20	11/10/20	2045079	
Carbonate (CO3)	SM 2320B	ND	mg/L	5.0		11/10/20	11/10/20	2045079	
Chloride (Cl)	EPA 300.0	**86**	mg/L	1.0	0.075	11/04/20	11/04/20	2045090	
Specific Conductance (E.C.)	SM 2510B	**800**	umhos/cm	2.0	0.20	11/04/20	11/04/20	2045079	
Fluoride (F)	EPA 300.0	**0.47**	mg/L	0.10	0.026	11/04/20	11/04/20	2045090	
Hardness, Total (as CaCO3)	Calculated	**240**	mg/L	6.6		11/12/20	11/12/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		11/10/20	11/10/20	2045079	
Inorganic Nitrogen	Calculated	ND	mg/L	1.3		11/12/20	11/12/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	**0.97**	mg/L	0.40	0.12	11/04/20	11/04/20	2045090	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	11/04/20	11/04/20	2045090	
pH (Lab)	SM 4500HB	**8.3**	pH Units			11/04/20	11/04/20	2045079	
Sulfate (SO4)	EPA 300.0	**36**	mg/L	0.50	0.14	11/04/20	11/04/20	2045090	
Total Filterable Residue/TDS	SM 2540C	**450**	mg/L	5.0	3.1	11/05/20	11/09/20	2045122	
Metals									
Calcium (Ca)	EPA 200.7	**65**	mg/L	1.0	0.080	11/12/20	11/12/20	2046120	
Magnesium (Mg)	EPA 200.7	**19**	mg/L	1.0	0.51	11/12/20	11/12/20	2046120	
Potassium (K)	EPA 200.7	**12**	mg/L	1.0	0.18	11/12/20	11/12/20	2046120	
Sodium (Na)	EPA 200.7	**88**	mg/L	1.0	0.21	11/12/20	11/12/20	2046120	

J Detected below the Reporting Limit; reported concentration is estimated; (J-Flag)

pH (Lab) was analyzed ASAP but received and analyzed past the 15 minute hold time.

ND Analyte NOT DETECTED at or above the MDL; Method Detection Limit

Stu Styles
Client Services Manager

Post Office Box 329 San Bernardino, CA 92402 (909) 825-7693 Fax (909) 825-7696 ELAP Number 1088

0/1/6

WO 20K0276

Clinical Lab of San Bernardino, Inc. — Chain of Custody

21881 Barton Road Grand Terrace CA 92313 909 825-7693 / 516-A N 8th St. Lompoc CA 93436 805 737-7300

Client	City of Beaumont
Address:	550 E. 6th St.
	Beaumont, CA. 92223
Client Contact:	
Phone No.:	**FAX No.:**
System No.:	
Project:	Max Benefits - Beaumont GMZ
Sampled By:	C. Hunter
Comments:	

Email results to: **Ajakher@ci.beaumont.ca.us, ckhunter@dudek.com, sstuart@dudek.com**

Destination Laboratory

[X] *Clinical Grand Terrace / ELAP 1088*
[ ] *Clinical Lompoc / ELAP 1678*
[ ] *Other:*

Date	Time	Sample Identification	Container ID	Matrix	Sample Type	No. of Preserved Cont.										Total Containers	Analysis Requested											Comments	Turn Around Time (TAT)
						Unpreserved	Na2S2O3	NH4Cl	C6H8O6	HNO3	HCl	NaOH	Na2SO3	ZnC4H6O4	ChlorAC		Total Dissolved Solids (SM 2540C)	Nitrate-N (EPA 300.0)	Nitrite-N (EPA 300.0)	Ammonia-N (EPA 350.1)	Alkalinity (inc. HCO3, CO3, and OH	Ca, Mg, K, Na (EPA 200.7)	Sulfate (EPA 300.0)	Specific Conductance (SM 2510B)	pH (SM 4500H+B)	Chloride (EPA 300.0)	Fluoride (EPA 300.0)		
11/3/20	13:30	CC-01	1	SW		X										2	X	X	X	X	X	X	X	X	X	X	X		10
1	12:45	CC-03	3	SW		X										2	X	X	X	X	X	X	X	X	X	X	X		10
	12:00	STC-01	STC	SW		X										2	X	X	X	X	X	X	X	X	X	X	X		10

Matrix: DW - Drinking Water GW - Ground Water SW - Surface Water W - Water WW - Wastewater SWR - Stormwater Runoff S - Sludge O - Other _____

Use for Bacteria Samples / Sample Type: 1-Routine 2-Repeat 3-Replacement 4-Special D-Distribution W-Well

TAT: (10) Ten Day (5) Five Day Rush (2) Two Day Rush

Relinquished By (Sign)	Print Name / Company	Date / Time	Received By (Sign)	Print Name / Company
	C. Hunter / Dudek	11/3/20 14:00		
		11/4/2020 8:15		Stu Styles / CLSB
	Stu Styles / CLSB	11/4/2020 9:05		JA / CLSB

(Lab Use Only) *Lompoc Lab Receipt Temp.: _____ °C*

Shipped Via: [ ] Fed Ex [ ] Golden State Overnight [ ] UPS [ ] OnTrac [ ] USPS [ ] Other _____

Condition: [X] On Wet Ice [ ] On Blu Ice [X] Intact [ ] Custody Seals *Samples / COC Checked By:* _____ *Work Order Logged By:* _____

Receipt Comments: *Clinical Lab Receipt Temp.:* 1.6 °C

Beaumont, City of	Project: Maximum Benefit-Surface Water	Work Order: 20K1074
550 East 6th Street	Sub Project: Beaumont GMZ	Received: 11/11/20 15:26
Beaumont CA, 92223	Project Manager: Thaxton Van Belle	Reported: 11/23/20

CC - 01 **20K1074-05 (Water)** **Sample Date:** 11/10/20 15:45 **Sampler:** Not Listed

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
General Chemical Analyses									
Alkalinity, Total (as CaCO3)	SM 2320 B	**150**	mg/L	5.0		11/18/20	11/18/20	2046073	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	11/17/20	11/18/20	2047038	
Bicarbonate (HCO3)	SM 2320 B	**180**	mg/L	5.0		11/18/20	11/18/20	2046073	
Carbonate (CO3)	SM 2320B	ND	mg/L	5.0		11/18/20	11/18/20	2046073	
Chloride (Cl)	EPA 300.0	**56**	mg/L	1.0	0.075	11/11/20	11/11/20	2046074	
Specific Conductance (E.C.)	SM 2510B	**520**	umhos/cm	2.0	0.20	11/11/20	11/11/20	2046073	
Fluoride (F)	EPA 300.0	**0.18**	mg/L	0.10	0.026	11/11/20	11/11/20	2046074	
Hardness, Total (as CaCO3)	Calculated	**120**	mg/L	6.6		11/18/20	11/18/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		11/18/20	11/18/20	2046073	
Inorganic Nitrogen	Calculated	**1.9**	mg/L	1.3		11/17/20	11/18/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	**1.9**	mg/L	0.40	0.12	11/11/20	11/11/20	2046074	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	11/11/20	11/11/20	2046074	
pH (Lab)	SM 4500HB	**8.0**	pH Units			11/11/20	11/11/20	2046073	
Sulfate (SO4)	EPA 300.0	**21**	mg/L	0.50	0.14	11/11/20	11/11/20	2046074	
Total Filterable Residue/TDS	SM 2540C	**350**	mg/L	5.0	3.1	11/14/20	11/16/20	2046176	
Metals									
Calcium (Ca)	EPA 200.7	**32**	mg/L	1.0	0.080	11/18/20	11/18/20	2047063	
Magnesium (Mg)	EPA 200.7	**11**	mg/L	1.0	0.51	11/18/20	11/18/20	2047063	
Potassium (K)	EPA 200.7	**12**	mg/L	1.0	0.18	11/18/20	11/18/20	2047063	
Sodium (Na)	EPA 200.7	**64**	mg/L	1.0	0.21	11/18/20	11/18/20	2047063	

Stu Styles
Client Services Manager

Post Office Box 329 San Bernardino, CA 92402 (909) 825-7693 Fax (909) 825-7696 ELAP Number 1088

Beaumont, City of	Project: Maximum Benefit-Surface Water	Work Order: 20K1074
550 East 6th Street	Sub Project: Beaumont GMZ	Received: 11/11/20 15:26
Beaumont CA, 92223	Project Manager: Thaxton Van Belle	Reported: 11/23/20

CC - 03 **20K1074-06 (Water)** **Sample Date:** 11/10/20 14:45 **Sampler:** Not Listed

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
General Chemical Analyses									
Alkalinity, Total (as CaCO3)	SM 2320 B	**160**	mg/L	5.0		11/18/20	11/18/20	2046073	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	11/19/20	11/20/20	2047111	
Bicarbonate (HCO3)	SM 2320 B	**190**	mg/L	5.0		11/18/20	11/18/20	2046073	
Carbonate (CO3)	SM 2320B	ND	mg/L	5.0		11/18/20	11/18/20	2046073	
Chloride (Cl)	EPA 300.0	**60**	mg/L	1.0	0.075	11/11/20	11/11/20	2046074	
Specific Conductance (E.C.)	SM 2510B	**560**	umhos/cm	2.0	0.20	11/11/20	11/11/20	2046073	
Fluoride (F)	EPA 300.0	**0.20**	mg/L	0.10	0.026	11/11/20	11/11/20	2046074	
Hardness, Total (as CaCO3)	Calculated	**130**	mg/L	6.6		11/18/20	11/18/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		11/18/20	11/18/20	2046073	
Inorganic Nitrogen	Calculated	**3.1**	mg/L	1.3		11/19/20	11/20/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	**3.1**	mg/L	0.40	0.12	11/11/20	11/11/20	2046074	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	11/11/20	11/11/20	2046074	
pH (Lab)	SM 4500HB	**8.2**	pH Units			11/11/20	11/11/20	2046073	
Sulfate (SO4)	EPA 300.0	**22**	mg/L	0.50	0.14	11/11/20	11/11/20	2046074	
Total Filterable Residue/TDS	SM 2540C	**340**	mg/L	5.0	3.1	11/14/20	11/16/20	2046176	
Metals									
Calcium (Ca)	EPA 200.7	**34**	mg/L	1.0	0.080	11/18/20	11/18/20	2047063	
Magnesium (Mg)	EPA 200.7	**11**	mg/L	1.0	0.51	11/18/20	11/18/20	2047063	
Potassium (K)	EPA 200.7	**13**	mg/L	1.0	0.18	11/18/20	11/18/20	2047063	
Sodium (Na)	EPA 200.7	**66**	mg/L	1.0	0.21	11/18/20	11/18/20	2047063	

Stu Styles
Client Services Manager

Post Office Box 329 San Bernardino, CA 92402 (909) 825-7693 Fax (909) 825-7696 ELAP Number 1088

Beaumont, City of	Project: Maximum Benefit-Surface Water	Work Order: 20K1074
550 East 6th Street	Sub Project: Beaumont GMZ	Received: 11/11/20 15:26
Beaumont CA, 92223	Project Manager: Thaxton Van Belle	Reported: 11/23/20

STC - 01 **20K1074-07 (Water)** **Sample Date:** 11/10/20 12:30 **Sampler:** Not Listed

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
General Chemical Analyses									
Alkalinity, Total (as CaCO3)	SM 2320 B	**220**	mg/L	5.0		11/18/20	11/18/20	2046073	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	11/19/20	11/20/20	2047111	
Bicarbonate (HCO3)	SM 2320 B	**270**	mg/L	5.0		11/18/20	11/18/20	2046073	
Carbonate (CO3)	SM 2320B	ND	mg/L	5.0		11/18/20	11/18/20	2046073	
Chloride (Cl)	EPA 300.0	**68**	mg/L	1.0	0.075	11/12/20	11/12/20	2046074	
Specific Conductance (E.C.)	SM 2510B	**670**	umhos/cm	2.0	0.20	11/11/20	11/11/20	2046073	
Fluoride (F)	EPA 300.0	**0.39**	mg/L	0.10	0.026	11/12/20	11/12/20	2046074	
Hardness, Total (as CaCO3)	Calculated	**210**	mg/L	6.6		11/18/20	11/18/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		11/18/20	11/18/20	2046073	
Inorganic Nitrogen	Calculated	ND	mg/L	1.3		11/19/20	11/20/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	**0.86**	mg/L	0.40	0.12	11/12/20	11/12/20	2046074	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	11/12/20	11/12/20	2046074	
pH (Lab)	SM 4500HB	**8.2**	pH Units			11/11/20	11/11/20	2046073	
Sulfate (SO4)	EPA 300.0	**30**	mg/L	0.50	0.14	11/12/20	11/12/20	2046074	
Total Filterable Residue/TDS	SM 2540C	**450**	mg/L	5.0	3.1	11/14/20	11/16/20	2046176	
Metals									
Calcium (Ca)	EPA 200.7	**57**	mg/L	1.0	0.080	11/18/20	11/18/20	2047063	
Magnesium (Mg)	EPA 200.7	**18**	mg/L	1.0	0.51	11/18/20	11/18/20	2047063	
Potassium (K)	EPA 200.7	**9.4**	mg/L	1.0	0.18	11/18/20	11/18/20	2047063	
Sodium (Na)	EPA 200.7	**70**	mg/L	1.0	0.21	11/18/20	11/18/20	2047063	

J Detected below the Reporting Limit; reported concentration is estimated; (J-Flag)

pH (Lab) was analyzed ASAP but received and analyzed past the 15 minute hold time.

ND Analyte NOT DETECTED at or above the MDL; Method Detection Limit

Stu Styles
Client Services Manager

Post Office Box 329 San Bernardino, CA 92402 (909) 825-7693 Fax (909) 825-7696 ELAP Number 1088

0/0/14

Clinical Lab of San Bernardino, Inc. Chain of Custody

WO 20K1074

21881 Barton Road Grand Terrace CA 92313 909 825-7693 / 516-A N 8th St. Lompoc CA 93436 805 737-7300

Client	City of Beaumont
Address:	550 E. 6th St.
	Beaumont, CA 92223
Client Contact:	Thaxton VanBelle
Phone No.:	951-769-8520 FAX No.: 951-769-8526
System No.:	
Project:	Max Benefits - Beaumont GMZ
Sampled By:	
Comments:	

Email results to: TVanBelle@beaumontca.gov, ckhunter@dudek.com, sstuart@dudek.com

Destination Laboratory

[X] Clinical Grand Terrace / ELAP 1088
[ ] Clinical Lompoc / ELAP 1678
[ ] Other:

Date	Time	Sample Identification	Container ID	Matrix	Sample Type	No. of Preserved Cont. Unpreserved	Na2S2O3	NH4Cl	C6H8O6	HNO3	HCl	NaOH	Na2SO3	ZnC4H6O4	ChlorAC	Total Containers	Total Dissolved Solids (SM 2540C)	Nitrate-N (EPA 300.0)	Nitrite-N (EPA 300.0)	Ammonia-N (EPA 350.1)	Alkalinity (inc. HCO3, CO3, and OH	Ca, Mg, K, Na (EPA 200.7)	Sulfate (EPA 300.0)	Specific Conductance (SM 2510B)	pH (SM 4500H+B)	Chloride (EPA 300.0)	Fluoride (EPA 300.0)	Silica (EPA 200.7)	Comments	Turn Around Time (TAT)
11/10/20	11:30	Henry Schwankert	HS	GW		X										2	X	X	X	X	X	X	X	X	X	X	X	X		10
	13:00	SanTim-1	ST1	GW		X										2	X	X	X	X	X	X	X	X	X	X	X	X		10
	13:30	SanTim-2B/1	2B1	GW		X										2	X	X	X	X	X	X	X	X	X	X	X	X		10
	14:00	SanTim-2B/2	2B2	GW		X										2	X	X	X	X	X	X	X	X	X	X	X	X		10
	15:45	CC-01	1	GW		X										2	X	X	X	X	X	X	X	X	X	X	X	X	2 (4)	10
	14:45	CC-03	3	GW		X										2	X	X	X	X	X	X	X	X	X	X	X	X	3	10
	12:30	STC-01	STC	GW		X										2	X	X	X	X	X	X	X	X	X	X	X	X	3	10

Matrix: DW - Drinking Water GW - Ground Water SW - Surface Water W - Water WW - Wastewater SWR - Stormwater Runoff S - Sludge O - Other

Use for Bacteria Samples / Sample Type: 1-Routine 2-Repeat 3-Replacement 4-Special D-Distribution W-Well

TAT: (10) Ten Day (5) Five Day Rush (2) Two Day Rush

Relinquished By (Sign)	Print Name / Company	Date / Time	Received By (Sign)	Print Name / Company
C. Hunter	C. Hunter Dudek	11/10/20 16:15	M. Salazar	Mike/CLSB
M. Salazar	Mike/CLSB	1:39		
		11-11-20 15:26		Jeanette Hernandez/CLSB

(Lab Use Only) Lompoc Lab Receipt Temp.: _____°C

Shipped Via: [ ] Fed Ex [ ] Golden State Overnight [ ] UPS [ ] OnTrac [ ] USPS [ ] Other _____

Condition: [X] On Wet Ice [ ] On Blu Ice [X] Intact [ ] Custody Seals Samples / COC Checked By: _____ Work Order Logged By: _____

Receipt Comments: Clinical Lab Receipt Temp.: _____°C

5.1 °C

Beaumont, City of	Project: Maximum Benefit-Surface Water	Work Order: 20K2250
550 East 6th Street	Sub Project: Beaumont GMZ	Received: 11/26/20 09:15
Beaumont CA, 92223	Project Manager: Thaxton Van Belle	Reported: 12/10/20

CC - 01 **20K2250-01 (Water)** **Sample Date:** 11/25/20 16:00 **Sampler:** C. Hunter

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
General Chemical Analyses									
Alkalinity, Total (as CaCO3)	SM 2320 B	**120**	mg/L	5.0		12/03/20	12/03/20	2049021	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	11/30/20	12/01/20	2049028	
Bicarbonate (HCO3)	SM 2320 B	**150**	mg/L	5.0		12/03/20	12/03/20	2049021	
Carbonate (CO3)	SM 2320B	ND	mg/L	5.0		12/03/20	12/03/20	2049021	
Chloride (Cl)	EPA 300.0	**50**	mg/L	1.0	0.075	11/27/20	11/27/20	2048062	
Specific Conductance (E.C.)	SM 2510B	**470**	umhos/cm	2.0	0.20	11/30/20	11/30/20	2049021	
Fluoride (F)	EPA 300.0	**0.15**	mg/L	0.10	0.026	11/27/20	11/27/20	2048062	
Hardness, Total (as CaCO3)	Calculated	**98**	mg/L	6.6		12/03/20	12/03/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		12/03/20	12/03/20	2049021	
Inorganic Nitrogen	Calculated	**3.1**	mg/L	1.3		11/30/20	12/01/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	**3.1**	mg/L	0.40	0.12	11/27/20	11/27/20	2048062	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	11/27/20	11/27/20	2048062	
pH (Lab)	SM 4500HB	**7.9**	pH Units			11/30/20	11/30/20	2049021	
Sulfate (SO4)	EPA 300.0	**16**	mg/L	0.50	0.14	11/27/20	11/27/20	2048062	
Total Filterable Residue/TDS	SM 2540C	**260**	mg/L	5.0	3.1	12/01/20	12/02/20	2049036	
Metals									
Calcium (Ca)	EPA 200.7	**26**	mg/L	1.0	0.080	12/03/20	12/03/20	2049122	
Magnesium (Mg)	EPA 200.7	**7.9**	mg/L	1.0	0.51	12/03/20	12/03/20	2049122	
Potassium (K)	EPA 200.7	**11**	mg/L	1.0	0.18	12/03/20	12/03/20	2049122	
Sodium (Na)	EPA 200.7	**54**	mg/L	1.0	0.21	12/03/20	12/03/20	2049122	

Stu Styles
Client Services Manager

Post Office Box 329 San Bernardino, CA 92402 (909) 825-7693 Fax (909) 825-7696 ELAP Number 1088

Beaumont, City of	Project: Maximum Benefit-Surface Water	Work Order: 20K2250
550 East 6th Street	Sub Project: Beaumont GMZ	Received: 11/26/20 09:15
Beaumont CA, 92223	Project Manager: Thaxton Van Belle	Reported: 12/10/20

CC - 03 **20K2250-02 (Water)** **Sample Date:** 11/25/20 14:45 **Sampler:** C. Hunter

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
General Chemical Analyses									
Alkalinity, Total (as CaCO3)	SM 2320 B	**140**	mg/L	5.0		12/03/20	12/03/20	2049021	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	11/30/20	12/01/20	2049028	
Bicarbonate (HCO3)	SM 2320 B	**170**	mg/L	5.0		12/03/20	12/03/20	2049021	
Carbonate (CO3)	SM 2320B	ND	mg/L	5.0		12/03/20	12/03/20	2049021	
Chloride (Cl)	EPA 300.0	**58**	mg/L	1.0	0.075	11/27/20	11/27/20	2048062	
Specific Conductance (E.C.)	SM 2510B	**530**	umhos/cm	2.0	0.20	11/30/20	11/30/20	2049021	
Fluoride (F)	EPA 300.0	**0.17**	mg/L	0.10	0.026	11/27/20	11/27/20	2048062	
Hardness, Total (as CaCO3)	Calculated	**110**	mg/L	6.6		12/03/20	12/03/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		12/03/20	12/03/20	2049021	
Inorganic Nitrogen	Calculated	**4.0**	mg/L	1.3		11/30/20	12/01/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	**4.0**	mg/L	0.40	0.12	11/27/20	11/27/20	2048062	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	11/27/20	11/27/20	2048062	
pH (Lab)	SM 4500HB	**8.0**	pH Units			11/30/20	11/30/20	2049021	
Sulfate (SO4)	EPA 300.0	**18**	mg/L	0.50	0.14	11/27/20	11/27/20	2048062	
Total Filterable Residue/TDS	SM 2540C	**300**	mg/L	5.0	3.1	12/01/20	12/02/20	2049036	
Metals									
Calcium (Ca)	EPA 200.7	**28**	mg/L	1.0	0.080	12/03/20	12/03/20	2049122	
Magnesium (Mg)	EPA 200.7	**9.2**	mg/L	1.0	0.51	12/03/20	12/03/20	2049122	
Potassium (K)	EPA 200.7	**12**	mg/L	1.0	0.18	12/03/20	12/03/20	2049122	
Sodium (Na)	EPA 200.7	**57**	mg/L	1.0	0.21	12/03/20	12/03/20	2049122	

Stu Styles
Client Services Manager

Post Office Box 329 San Bernardino, CA 92402 (909) 825-7693 Fax (909) 825-7696 ELAP Number 1088

Beaumont, City of	Project: Maximum Benefit-Surface Water	Work Order: 20K2250
550 East 6th Street	Sub Project: Beaumont GMZ	Received: 11/26/20 09:15
Beaumont CA, 92223	Project Manager: Thaxton Van Belle	Reported: 12/10/20

STC - 01 **20K2250-03 (Water)** **Sample Date:** 11/25/20 15:00 **Sampler:** C. Hunter

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
General Chemical Analyses									
Alkalinity, Total (as CaCO3)	SM 2320 B	**210**	mg/L	5.0		12/03/20	12/03/20	2049021	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	11/30/20	12/01/20	2049028	
Bicarbonate (HCO3)	SM 2320 B	**260**	mg/L	5.0		12/03/20	12/03/20	2049021	
Carbonate (CO3)	SM 2320B	ND	mg/L	5.0		12/03/20	12/03/20	2049021	
Chloride (Cl)	EPA 300.0	**65**	mg/L	1.0	0.075	11/27/20	11/27/20	2048062	
Specific Conductance (E.C.)	SM 2510B	**670**	umhos/cm	2.0	0.20	11/30/20	11/30/20	2049021	
Fluoride (F)	EPA 300.0	**0.38**	mg/L	0.10	0.026	11/27/20	11/27/20	2048062	
Hardness, Total (as CaCO3)	Calculated	**190**	mg/L	6.6		12/03/20	12/03/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		12/03/20	12/03/20	2049021	
Inorganic Nitrogen	Calculated	ND	mg/L	1.3		11/30/20	12/01/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	**0.60**	mg/L	0.40	0.12	11/27/20	11/27/20	2048062	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	11/27/20	11/27/20	2048062	
pH (Lab)	SM 4500HB	**8.2**	pH Units			11/30/20	11/30/20	2049021	
Sulfate (SO4)	EPA 300.0	**27**	mg/L	0.50	0.14	11/27/20	11/27/20	2048062	
Total Filterable Residue/TDS	SM 2540C	**380**	mg/L	5.0	3.1	12/01/20	12/02/20	2049036	
Metals									
Calcium (Ca)	EPA 200.7	**52**	mg/L	1.0	0.080	12/03/20	12/03/20	2049122	
Magnesium (Mg)	EPA 200.7	**14**	mg/L	1.0	0.51	12/03/20	12/03/20	2049122	
Potassium (K)	EPA 200.7	**8.1**	mg/L	1.0	0.18	12/03/20	12/03/20	2049122	
Sodium (Na)	EPA 200.7	**68**	mg/L	1.0	0.21	12/03/20	12/03/20	2049122	

J Detected below the Reporting Limit; reported concentration is estimated; (J-Flag)

pH (Lab) was analyzed ASAP but received and analyzed past the 15 minute hold time.

ND Analyte NOT DETECTED at or above the MDL; Method Detection Limit

Stu Styles
Client Services Manager

Post Office Box 329 San Bernardino, CA 92402 (909) 825-7693 Fax (909) 825-7696 ELAP Number 1088

Clinical Lab of San Bernardino, Inc. Chain of Custody

WO 20K2250

21881 Barton Road Grand Terrace CA 92313 909 825-7693 / 516-A N 8th St. Lompoc CA 93436 805 737-7300

Client	City of Beaumont
Address:	550 E. 6th St.
	Beaumont, CA. 92223
Client Contact:	
Phone No.:	FAX No.:
System No.:	
Project:	Max Benefits - Beaumont GMZ
Sampled By:	C. Hunter
Comments:	

Email results to: Ajakher@ci.beaumont.ca.us, ckhunter@dudek.com, sstuart@dudek.com

Destination Laboratory

[X] Clinical Grand Terrace / ELAP 1088
[ ] Clinical Lompoc / ELAP 1678
[ ] Other:

Date	Time	Sample Identification	Container ID	Matrix	Sample Type	No. of Preserved Cont. Unpreserved	Na2S2O3	NH4Cl	C6H8O6	HNO3	HCl	NaOH	Na2SO3	ZnC4H6O4	ChlorAC	Total Containers	Total Dissolved Solids (SM 2540C)	Nitrate-N (EPA 300.0)	Nitrite-N (EPA 300.0)	Ammonia-N (EPA 350.1)	Alkalinity (inc. HCO3, CO3, and OH	Ca, Mg, K, Na (EPA 200.7)	Sulfate (EPA 300.0)	Specific Conductance (SM 2510B)	pH (SM 4500H+B)	Chloride (EPA 300.0)	Fluoride (EPA 300.0)	Comments	Turn Around Time (TAT)
11/25/20	16:00	CC-01	1	SW		X										2	X	X	X	X	X	X	X	X	X	X	X		10
	14:45	CC-03	3	SW		X										2	X	X	X	X	X	X	X	X	X	X	X		10
	15:00	STC-01	STC	SW		X										2	X	X	X	X	X	X	X	X	X	X	X		10

Matrix: DW - Drinking Water GW - Ground Water SW - Surface Water W - Water WW - Wastewater SWR - Stormwater Runoff S - Sludge O - Other _____

Use for Bacteria Samples / Sample Type: 1-Routine 2-Repeat 3-Replacement 4-Special D-Distribution W-Well

TAT: (10) Ten Day (5) Five Day Rush (2) Two Day Rush

Relinquished By (Sign)	Print Name / Company	Date / Time	Received By (Sign)	Print Name / Company
	C. Hunter / Dudek	11/25/20 16:15	18:30	J Lucas / CLS
	J Lucas / CLS	11.26.20 / 9:15		Colin D / CLSD

(Lab Use Only) Lompoc Lab Receipt Temp.: _____ °C

Shipped Via: [ ] Fed Ex [ ] Golden State Overnight [ ] UPS [ ] OnTrac [ ] USPS [ ] Other _____

Condition: [X] On Wet Ice [ ] On Blu Ice [ ] Intact [ ] Custody Seals Samples / COC Checked By: _____ Work Order Logged By: _____

Receipt Comments: Clinical Lab Receipt Temp.: 7.0 °C

Beaumont, City of	Project: Maximum Benefit-Surface Water	Work Order: 20L1129
550 East 6th Street	Sub Project: Beaumont GMZ	Received: 12/11/20 11:35
Beaumont CA, 92223	Project Manager: Thaxton Van Belle	Reported: 12/23/20

CC - 01 **20L1129-01 (Water)** **Sample Date:** 12/10/20 16:15 **Sampler:** C. Hunter

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
General Chemical Analyses									
Alkalinity, Total (as CaCO3)	SM 2320 B	**110**	mg/L	5.0		12/18/20	12/18/20	2050140	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	12/15/20	12/15/20	2051032	
Bicarbonate (HCO3)	SM 2320 B	**140**	mg/L	5.0		12/18/20	12/18/20	2050140	
Carbonate (CO3)	SM 2320B	ND	mg/L	5.0		12/18/20	12/18/20	2050140	
Chloride (Cl)	EPA 300.0	**52**	mg/L	1.0	0.075	12/11/20	12/11/20	2050143	
Specific Conductance (E.C.)	SM 2510B	**460**	umhos/cm	2.0	0.20	12/11/20	12/11/20	2050140	
Fluoride (F)	EPA 300.0	**0.15**	mg/L	0.10	0.026	12/11/20	12/11/20	2050143	
Hardness, Total (as CaCO3)	Calculated	**94**	mg/L	6.6		12/21/20	12/21/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		12/18/20	12/18/20	2050140	
Inorganic Nitrogen	Calculated	**5.3**	mg/L	1.3		12/15/20	12/15/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	**5.3**	mg/L	0.40	0.12	12/11/20	12/11/20	2050143	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	12/11/20	12/11/20	2050143	
pH (Lab)	SM 4500HB	**7.8**	pH Units			12/11/20	12/11/20	2050140	
Sulfate (SO4)	EPA 300.0	**17**	mg/L	0.50	0.14	12/11/20	12/11/20	2050143	
Total Filterable Residue/TDS	SM 2540C	**260**	mg/L	5.0	3.1	12/14/20	12/16/20	2051009	
Metals									
Calcium (Ca)	EPA 200.7	**25**	mg/L	1.0	0.080	12/21/20	12/21/20	2052021	
Magnesium (Mg)	EPA 200.7	**7.7**	mg/L	1.0	0.51	12/21/20	12/21/20	2052021	
Potassium (K)	EPA 200.7	**11**	mg/L	1.0	0.18	12/21/20	12/21/20	2052021	
Sodium (Na)	EPA 200.7	**53**	mg/L	1.0	0.21	12/21/20	12/21/20	2052021	

Stu Styles
Client Services Manager

Post Office Box 329 San Bernardino, CA 92402 (909) 825-7693 Fax (909) 825-7696 ELAP Number 1088

Beaumont, City of	Project: Maximum Benefit-Surface Water	Work Order: 20L1129
550 East 6th Street	Sub Project: Beaumont GMZ	Received: 12/11/20 11:35
Beaumont CA, 92223	Project Manager: Thaxton Van Belle	Reported: 12/23/20

CC - 03 **20L1129-02 (Water)** **Sample Date:** 12/10/20 15:45 **Sampler:** C. Hunter

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
General Chemical Analyses									
Alkalinity, Total (as CaCO3)	SM 2320 B	**140**	mg/L	5.0		12/18/20	12/18/20	2050140	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	12/15/20	12/15/20	2051032	
Bicarbonate (HCO3)	SM 2320 B	**170**	mg/L	5.0		12/18/20	12/18/20	2050140	
Carbonate (CO3)	SM 2320B	ND	mg/L	5.0		12/18/20	12/18/20	2050140	
Chloride (Cl)	EPA 300.0	**61**	mg/L	1.0	0.075	12/11/20	12/11/20	2050143	
Specific Conductance (E.C.)	SM 2510B	**530**	umhos/cm	2.0	0.20	12/11/20	12/11/20	2050140	
Fluoride (F)	EPA 300.0	**0.18**	mg/L	0.10	0.026	12/11/20	12/11/20	2050143	
Hardness, Total (as CaCO3)	Calculated	**110**	mg/L	6.6		12/21/20	12/21/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		12/18/20	12/18/20	2050140	
Inorganic Nitrogen	Calculated	**5.7**	mg/L	1.3		12/15/20	12/15/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	**5.7**	mg/L	0.40	0.12	12/11/20	12/11/20	2050143	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	12/11/20	12/11/20	2050143	
pH (Lab)	SM 4500HB	**8.0**	pH Units			12/11/20	12/11/20	2050140	
Sulfate (SO4)	EPA 300.0	**20**	mg/L	0.50	0.14	12/11/20	12/11/20	2050143	
Total Filterable Residue/TDS	SM 2540C	**300**	mg/L	5.0	3.1	12/14/20	12/16/20	2051009	
Metals									
Calcium (Ca)	EPA 200.7	**28**	mg/L	1.0	0.080	12/21/20	12/21/20	2052021	
Magnesium (Mg)	EPA 200.7	**8.6**	mg/L	1.0	0.51	12/21/20	12/21/20	2052021	
Potassium (K)	EPA 200.7	**12**	mg/L	1.0	0.18	12/21/20	12/21/20	2052021	
Sodium (Na)	EPA 200.7	**57**	mg/L	1.0	0.21	12/21/20	12/21/20	2052021	

Stu Styles
Client Services Manager

Post Office Box 329 San Bernardino, CA 92402 (909) 825-7693 Fax (909) 825-7696 ELAP Number 1088

Beaumont, City of	Project: Maximum Benefit-Surface Water	Work Order: 20L1129
550 East 6th Street	Sub Project: Beaumont GMZ	Received: 12/11/20 11:35
Beaumont CA, 92223	Project Manager: Thaxton Van Belle	Reported: 12/23/20

STC - 01 **20L1129-03 (Water)** **Sample Date:** 12/10/20 15:00 **Sampler:** C. Hunter

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
General Chemical Analyses									
Alkalinity, Total (as CaCO3)	SM 2320 B	**230**	mg/L	5.0		12/18/20	12/18/20	2050140	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	12/15/20	12/15/20	2051032	
Bicarbonate (HCO3)	SM 2320 B	**280**	mg/L	5.0		12/18/20	12/18/20	2050140	
Carbonate (CO3)	SM 2320B	ND	mg/L	5.0		12/18/20	12/18/20	2050140	
Chloride (Cl)	EPA 300.0	**69**	mg/L	1.0	0.075	12/11/20	12/11/20	2050143	
Specific Conductance (E.C.)	SM 2510B	**670**	umhos/cm	2.0	0.20	12/11/20	12/11/20	2050140	
Fluoride (F)	EPA 300.0	**0.41**	mg/L	0.10	0.026	12/11/20	12/11/20	2050143	
Hardness, Total (as CaCO3)	Calculated	**190**	mg/L	6.6		12/21/20	12/21/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		12/18/20	12/18/20	2050140	
Inorganic Nitrogen	Calculated	ND	mg/L	1.3		12/15/20	12/15/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	**0.67**	mg/L	0.40	0.12	12/11/20	12/11/20	2050143	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	12/11/20	12/11/20	2050143	
pH (Lab)	SM 4500HB	**8.1**	pH Units			12/11/20	12/11/20	2050140	
Sulfate (SO4)	EPA 300.0	**29**	mg/L	0.50	0.14	12/11/20	12/11/20	2050143	
Total Filterable Residue/TDS	SM 2540C	**370**	mg/L	5.0	3.1	12/14/20	12/16/20	2051009	
Metals									
Calcium (Ca)	EPA 200.7	**51**	mg/L	1.0	0.080	12/21/20	12/21/20	2052021	
Magnesium (Mg)	EPA 200.7	**15**	mg/L	1.0	0.51	12/21/20	12/21/20	2052021	
Potassium (K)	EPA 200.7	**7.6**	mg/L	1.0	0.18	12/21/20	12/21/20	2052021	
Sodium (Na)	EPA 200.7	**63**	mg/L	1.0	0.21	12/21/20	12/21/20	2052021	

J Detected below the Reporting Limit; reported concentration is estimated; (J-Flag)

pH (Lab) was analyzed ASAP but received and analyzed past the 15 minute hold time.

ND Analyte NOT DETECTED at or above the MDL; Method Detection Limit

Stu Styles
Client Services Manager

Post Office Box 329 San Bernardino, CA 92402 (909) 825-7693 Fax (909) 825-7696 ELAP Number 1088

0/0/6

Clinical Lab of San Bernardino, Inc. Chain of Custody

WO 20L129

21881 Barton Road Grand Terrace CA 92313 909 825-7693 / 516-A N 8th St. Lompoc CA 93436 805 737-7300

Client	City of Beaumont
Address:	550 E. 6th St. Beaumont, CA. 92223
Client Contact:	
Phone No.:	FAX No.:
System No.:	
Project:	Max Benefits - Beaumont GMZ
Sampled By:	C Hunter
Comments:	Email results to: Ajakher@ci.beaumont.ca.us, ckhunter@dudek.com, sstuart@dudek.com

Destination Laboratory

[X] Clinical Grand Terrace / ELAP 1088
[ ] Clinical Lompoc / ELAP 1678
[ ] Other:

Date	Time	Sample Identification	Container ID	Matrix	Sample Type	Unpreserved	Na2S2O3	NH4Cl	C6H8O6	HNO3	HCl	NaOH	Na2SO3	ZnC4H6O4	ChlorAC	Total Containers	Total Dissolved Solids (SM 2540C)	Nitrate-N (EPA 300.0)	Nitrite-N (EPA 300.0)	Ammonia-N (EPA 350.1)	Alkalinity (inc. HCO3, CO3, and OH)	Ca, Mg, K, Na (EPA 200.7)	Sulfate (EPA 300.0)	Specific Conductance (SM 2510B)	pH (SM 4500H+B)	Chloride (EPA 300.0)	Fluoride (EPA 300.0)	Comments	Turn Around Time (TAT)
12/10/20	16:15	CC-01	1	SW		X										2	X	X	X	X	X	X	X	X	X	X	X		10
|	15:45	CC-03	3	SW		X										2	X	X	X	X	X	X	X	X	X	X	X		10
|	15:00	STC-01	STC	SW		X										2	X	X	X	X	X	X	X	X	X	X	X		10

(Columns Unpreserved through ChlorAC are headed "No. of Preserved Cont."; columns Total Dissolved Solids through Fluoride are headed "Analysis Requested".)

Matrix: DW - Drinking Water GW - Ground Water SW - Surface Water W - Water WW - Wastewater SWR - Stormwater Runoff S - Sludge O - Other

Use for Bacteria Samples / Sample Type: 1-Routine 2-Repeat 3-Replacement 4-Special D-Distribution W-Well

TAT: (10) Ten Day (5) Five Day Rush (2) Two Day Rush

Relinquished By (Sign)	Print Name / Company	Date / Time	Received By (Sign)	Print Name / Company
[illegible signature]	C.Hunter / Dudek	12/10/20 16:30		
		12/11/2020 / 1020	[illegible signature]	StStyles / CLSB
[illegible signature]	StStyles / CLSB	12/11/2020 / 1135	[illegible signature]	[illegible] CLSB

(Lab Use Only) Lompoc Lab Receipt Temp.: ______ °C

Shipped Via: [ ] Fed Ex [ ] Golden State Overnight [ ] UPS [ ] OnTrac [ ] USPS [ ] Other

Condition: [X] On Wet Ice [ ] On Blu Ice [X] Intact [ ] Custody Seals Samples / COC Checked By: ______ Work Order Logged By: ______

Receipt Comments: Clinical Lab Receipt Temp.: 1.1 °C

Beaumont, City of	Project: Maximum Benefit-Surface Water	Work Order: 20L2137
550 East 6th Street	Sub Project: Beaumont GMZ	Received: 12/24/20 08:40
Beaumont CA, 92223	Project Manager: Thaxton Van Belle	Reported: 01/07/21

CC - 01 **20L2137-01 (Water)** **Sample Date:** 12/23/20 16:15 **Sampler:** C. Hunter

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
General Chemical Analyses									
Alkalinity, Total (as CaCO3)	SM 2320 B	**130**	mg/L	5.0		01/04/21	01/04/21	2053064	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	12/29/20	12/30/20	2053059	
Bicarbonate (HCO3)	SM 2320 B	**160**	mg/L	5.0		01/04/21	01/04/21	2053064	
Carbonate (CO3)	SM 2320B	ND	mg/L	5.0		01/04/21	01/04/21	2053064	
Chloride (Cl)	EPA 300.0	**60**	mg/L	1.0	0.075	12/24/20	12/24/20	2052096	
Specific Conductance (E.C.)	SM 2510B	**500**	umhos/cm	2.0	0.20	01/04/21	01/04/21	2053064	
Fluoride (F)	EPA 300.0	**0.16**	mg/L	0.10	0.026	12/24/20	12/24/20	2052096	
Hardness, Total (as CaCO3)	Calculated	**120**	mg/L	6.6		01/06/21	01/06/21	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		01/04/21	01/04/21	2053064	
Inorganic Nitrogen	Calculated	**4.5**	mg/L	1.3		12/29/20	12/30/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	**4.5**	mg/L	0.40	0.12	12/24/20	12/24/20	2052096	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	12/24/20	12/24/20	2052096	
pH (Lab)	SM 4500HB	**8.1**	pH Units			12/24/20	12/24/20	2052099	
Sulfate (SO4)	EPA 300.0	**19**	mg/L	0.50	0.14	12/24/20	12/24/20	2052096	
Total Filterable Residue/TDS	SM 2540C	**280**	mg/L	5.0	3.1	12/28/20	12/30/20	2053023	
Metals									
Calcium (Ca)	EPA 200.7	**31**	mg/L	1.0	0.080	01/06/21	01/06/21	2102078	
Magnesium (Mg)	EPA 200.7	**9.5**	mg/L	1.0	0.51	01/06/21	01/06/21	2102078	
Potassium (K)	EPA 200.7	**11**	mg/L	1.0	0.18	01/06/21	01/06/21	2102078	
Sodium (Na)	EPA 200.7	**63**	mg/L	1.0	0.21	01/06/21	01/06/21	2102078	

Stu Styles
Client Services Manager

Post Office Box 329 San Bernardino, CA 92402 (909) 825-7693 Fax (909) 825-7696 ELAP Number 1088

Beaumont, City of	Project: Maximum Benefit-Surface Water	Work Order: 20L2137
550 East 6th Street	Sub Project: Beaumont GMZ	Received: 12/24/20 08:40
Beaumont CA, 92223	Project Manager: Thaxton Van Belle	Reported: 01/07/21

CC - 03 **20L2137-02 (Water)** **Sample Date:** 12/23/20 15:45 **Sampler:** C. Hunter

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
General Chemical Analyses									
Alkalinity, Total (as CaCO3)	SM 2320 B	**200**	mg/L	5.0		01/04/21	01/04/21	2053064	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	12/29/20	12/30/20	2053059	
Bicarbonate (HCO3)	SM 2320 B	**240**	mg/L	5.0		01/04/21	01/04/21	2053064	
Carbonate (CO3)	SM 2320B	ND	mg/L	5.0		01/04/21	01/04/21	2053064	
Chloride (Cl)	EPA 300.0	**91**	mg/L	1.0	0.075	12/24/20	12/24/20	2052096	
Specific Conductance (E.C.)	SM 2510B	**730**	umhos/cm	2.0	0.20	01/04/21	01/04/21	2053064	
Fluoride (F)	EPA 300.0	**0.32**	mg/L	0.10	0.026	12/24/20	12/24/20	2052096	
Hardness, Total (as CaCO3)	Calculated	**180**	mg/L	6.6		01/06/21	01/06/21	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		01/04/21	01/04/21	2053064	
Inorganic Nitrogen	Calculated	**6.1**	mg/L	1.3		12/29/20	12/30/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	**6.1**	mg/L	0.40	0.12	12/24/20	12/24/20	2052096	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	12/24/20	12/24/20	2052096	
pH (Lab)	SM 4500HB	**8.0**	pH Units			12/24/20	12/24/20	2052099	
Sulfate (SO4)	EPA 300.0	**30**	mg/L	0.50	0.14	12/24/20	12/24/20	2052096	
Total Filterable Residue/TDS	SM 2540C	**410**	mg/L	5.0	3.1	12/28/20	12/30/20	2053023	
Metals									
Calcium (Ca)	EPA 200.7	**47**	mg/L	1.0	0.080	01/06/21	01/06/21	2102078	
Magnesium (Mg)	EPA 200.7	**15**	mg/L	1.0	0.51	01/06/21	01/06/21	2102078	
Potassium (K)	EPA 200.7	**16**	mg/L	1.0	0.18	01/06/21	01/06/21	2102078	
Sodium (Na)	EPA 200.7	**90**	mg/L	1.0	0.21	01/06/21	01/06/21	2102078	

Stu Styles
Client Services Manager

Post Office Box 329 San Bernardino, CA 92402 (909) 825-7693 Fax (909) 825-7696 ELAP Number 1088

Beaumont, City of	Project: Maximum Benefit-Surface Water	Work Order: 20L2137
550 East 6th Street	Sub Project: Beaumont GMZ	Received: 12/24/20 08:40
Beaumont CA, 92223	Project Manager: Thaxton Van Belle	Reported: 01/07/21

STC - 01 **20L2137-03 (Water)** **Sample Date:** 12/23/20 15:00 **Sampler:** C. Hunter

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
General Chemical Analyses									
Alkalinity, Total (as CaCO3)	SM 2320 B	**230**	mg/L	5.0		01/04/21	01/04/21	2053064	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	12/29/20	12/30/20	2053059	
Bicarbonate (HCO3)	SM 2320 B	**280**	mg/L	5.0		01/04/21	01/04/21	2053064	
Carbonate (CO3)	SM 2320B	**2.9**	mg/L	5.0		01/04/21	01/04/21	2053064	J
Chloride (Cl)	EPA 300.0	**69**	mg/L	1.0	0.075	12/24/20	12/24/20	2052096	
Specific Conductance (E.C.)	SM 2510B	**680**	umhos/cm	2.0	0.20	01/04/21	01/04/21	2053064	
Fluoride (F)	EPA 300.0	**0.41**	mg/L	0.10	0.026	12/24/20	12/24/20	2052096	
Hardness, Total (as CaCO3)	Calculated	**210**	mg/L	6.6		01/06/21	01/06/21	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		01/04/21	01/04/21	2053064	
Inorganic Nitrogen	Calculated	ND	mg/L	1.3		12/29/20	12/30/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	**0.58**	mg/L	0.40	0.12	12/24/20	12/24/20	2052096	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	12/24/20	12/24/20	2052096	
pH (Lab)	SM 4500HB	**8.1**	pH Units			12/24/20	12/24/20	2052099	
Sulfate (SO4)	EPA 300.0	**30**	mg/L	0.50	0.14	12/24/20	12/24/20	2052096	
Total Filterable Residue/TDS	SM 2540C	**390**	mg/L	5.0	3.1	12/28/20	12/30/20	2053023	
Metals									
Calcium (Ca)	EPA 200.7	**56**	mg/L	1.0	0.080	01/06/21	01/06/21	2102078	
Magnesium (Mg)	EPA 200.7	**17**	mg/L	1.0	0.51	01/06/21	01/06/21	2102078	
Potassium (K)	EPA 200.7	**8.4**	mg/L	1.0	0.18	01/06/21	01/06/21	2102078	
Sodium (Na)	EPA 200.7	**69**	mg/L	1.0	0.21	01/06/21	01/06/21	2102078	

J Detected below the Reporting Limit; reported concentration is estimated; (J-Flag)

pH (Lab) was analyzed ASAP but received and analyzed past the 15 minute hold time.

ND Analyte NOT DETECTED at or above the MDL; Method Detection Limit

Stu Styles
Client Services Manager

Post Office Box 329 San Bernardino, CA 92402 (909) 825-7693 Fax (909) 825-7696 ELAP Number 1088

2/0/6

WO 2012137

Clinical Lab of San Bernardino, Inc. Chain of Custody

21881 Barton Road Grand Terrace CA 92313 909 825-7693 / 516-A N 8th St. Lompoc CA 93436 805 737-7300

Client	City of Beaumont
Address:	550 E. 6th St.
	Beaumont, CA. 92223
Client Contact:	
Phone No.:	FAX No.:
System No.:	
Project:	Max Benefits - Beaumont GMZ
Sampled By:	C. Hunter
Comments:	

Email results to: **Ajakher@ci.beaumont.ca.us, ckhunter@dudek.com, sstuart@dudek.com**

Destination Laboratory

[X] Clinical Grand Terrace / ELAP 1088
[ ] Clinical Lompoc / ELAP 1678
[ ] Other:

Date	Time	Sample Identification	Container ID	Matrix	Sample Type	No. of Preserved Cont. Unpreserved	Na2S2O3	NH4Cl	C6H8O6	HNO3	HCl	NaOH	Na2SO3	ZnC4H6O4	ChlorAC	Total Containers	Total Dissolved Solids (SM 2540C)	Nitrate-N (EPA 300.0)	Nitrite-N (EPA 300.0)	Ammonia-N (EPA 350.1)	Alkalinity (inc. HCO3, CO3, and OH	Ca, Mg, K, Na (EPA 200.7)	Sulfate (EPA 300.0)	Specific Conductance (SM 2510B)	pH (SM 4500H+B)	Chloride (EPA 300.0)	Fluoride (EPA 300.0)	Comments	Turn Around Time (TAT)
12/23/20	16:15	CC-01	1	SW		X										2	X	X	X	X	X	X	X	X	X	X	X		10
	15:45	CC-03	3	SW		X										2	X	X	X	X	X	X	X	X	X	X	X		10
	15:00	STC-01	STC	SW		X										2	X	X	X	X	X	X	X	X	X	X	X		10

Matrix: DW - Drinking Water GW - Ground Water SW - Surface Water W - Water WW - Wastewater SWR - Stormwater Runoff S - Sludge O - Other _____

Use for Bacteria Samples / Sample Type: 1-Routine 2-Repeat 3-Replacement 4-Special D-Distribution W-Well

TAT: (10) Ten Day (5) Five Day Rush (2) Two Day Rush

Relinquished By (Sign)	Print Name / Company	Date / Time	Received By (Sign)	Print Name / Company
	C. Hunter / Dudek	12/23/20 16:30		
		12/24/2020 7:55		Sr Styles / CUSB
	Sr Styles / CUSB	12/24/2020 8:40		CUSB

(Lab Use Only) Lompoc Lab Receipt Temp.: _____ °C

Shipped Via: [ ] Fed Ex [ ] Golden State Overnight [ ] UPS [ ] OnTrac [ ] USPS [ ] Other _____

Condition: [ ] On Wet Ice [ ] On Blu Ice [X] Intact [ ] Custody Seals Samples / COC Checked By: _____ Work Order Logged By: _____

Receipt Comments: Clinical Lab Receipt Temp.: 1.3A °C

APPENDIX M

Hydrographs of Groundwater Elevations at Wells in the Beaumont Groundwater Management Zone

APPENDIX M

Groundwater Elevation Hydrographs for Beaumont Groundwater Management Zone

Table at Contents

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Figure

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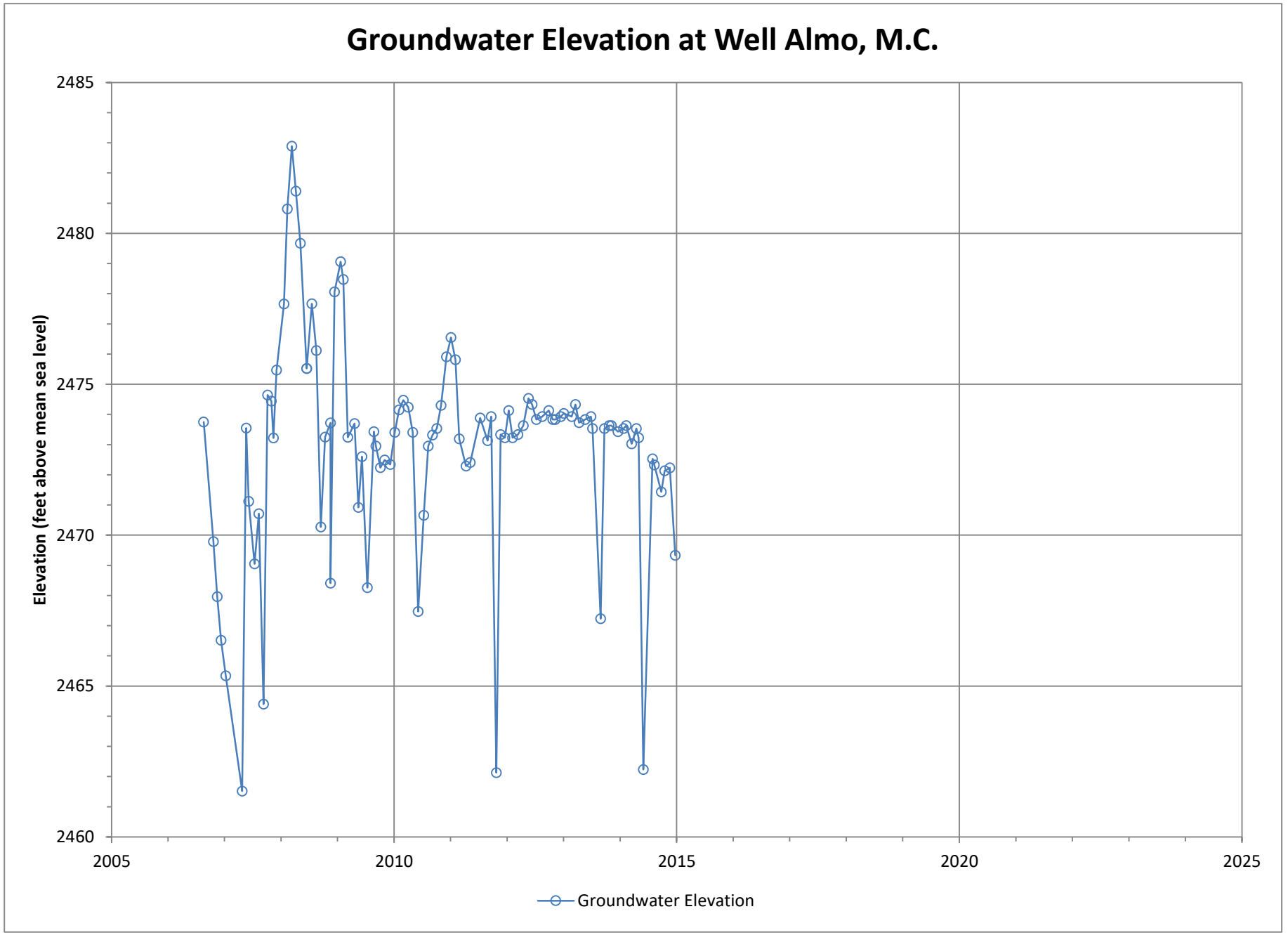
Groundwater Elevation at Well Almo, M.C.
Elevation (feet above mean sea level)
2485
2480
2475
2470
2465
2460
2005
2010
2015
2020
2025
Groundwater Elevation

Figure M-1

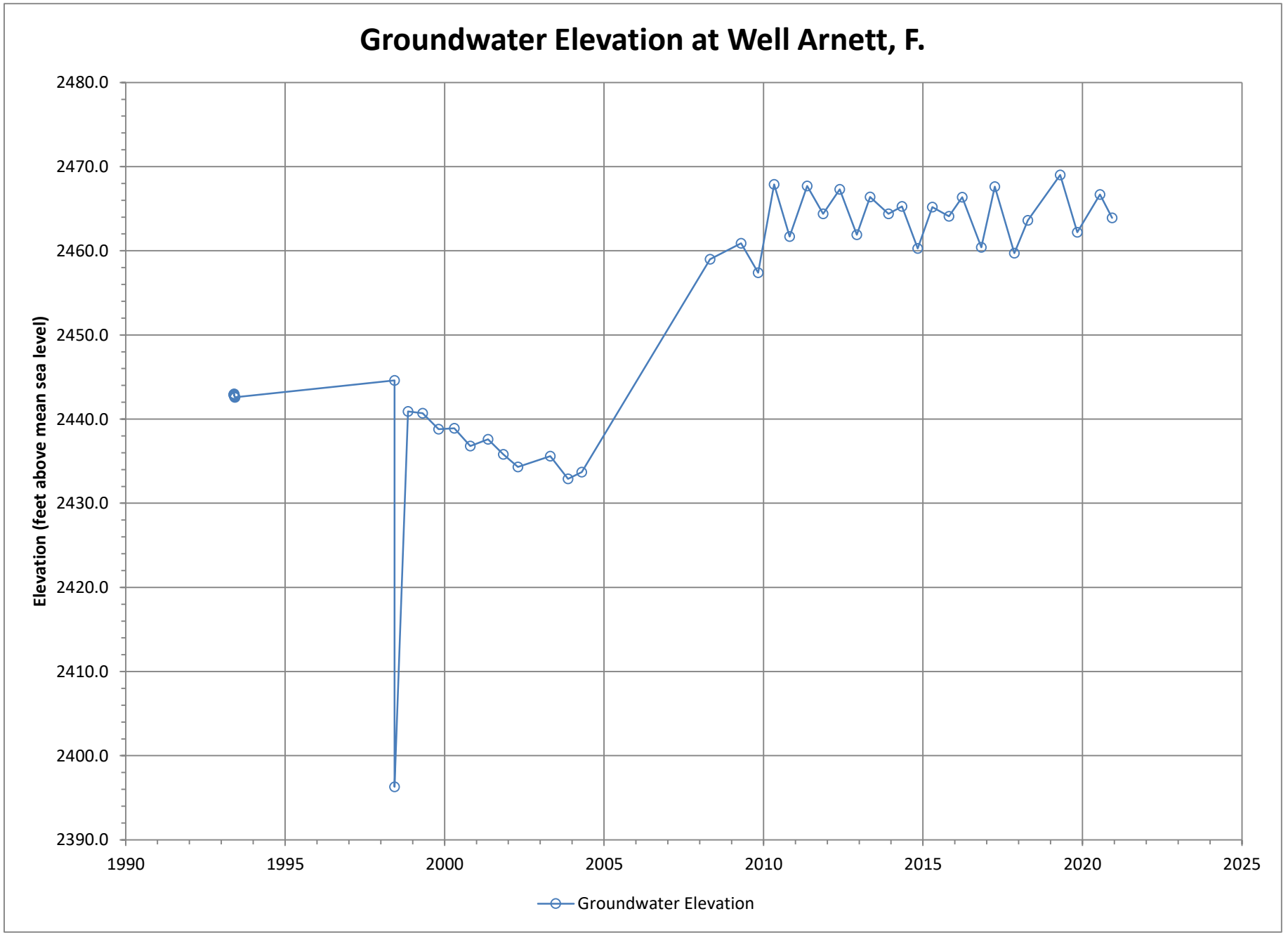
Groundwater Elevation at Well Arnett, F.
Elevation (feet above mean sea level)
2480.0
2470.0
2460.0
2450.0
2440.0
2430.0
2420.0
2410.0
2400.0
2390.0
1990
1995
2000
2005
2010
2015
2020
2025
Groundwater Elevation

Figure M-2

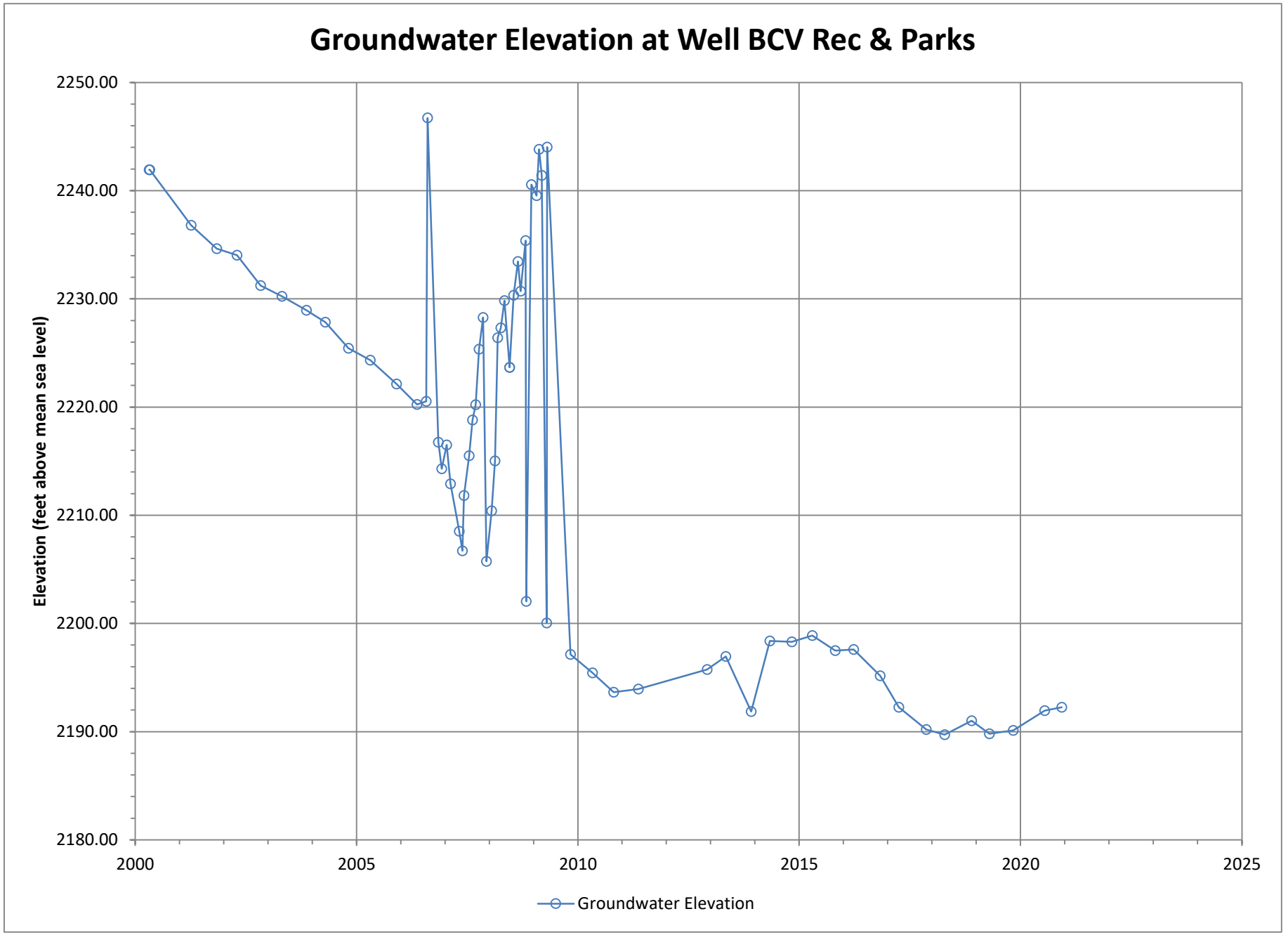
Groundwater Elevation at Well BCV Rec & Parks
Elevation (feet above mean sea level)
2250.00
2240.00
2230.00
2220.00
2210.00
2200.00
2190.00
2180.00
2000
2005
2010
2015
2020
2025
Groundwater Elevation

Figure M-3

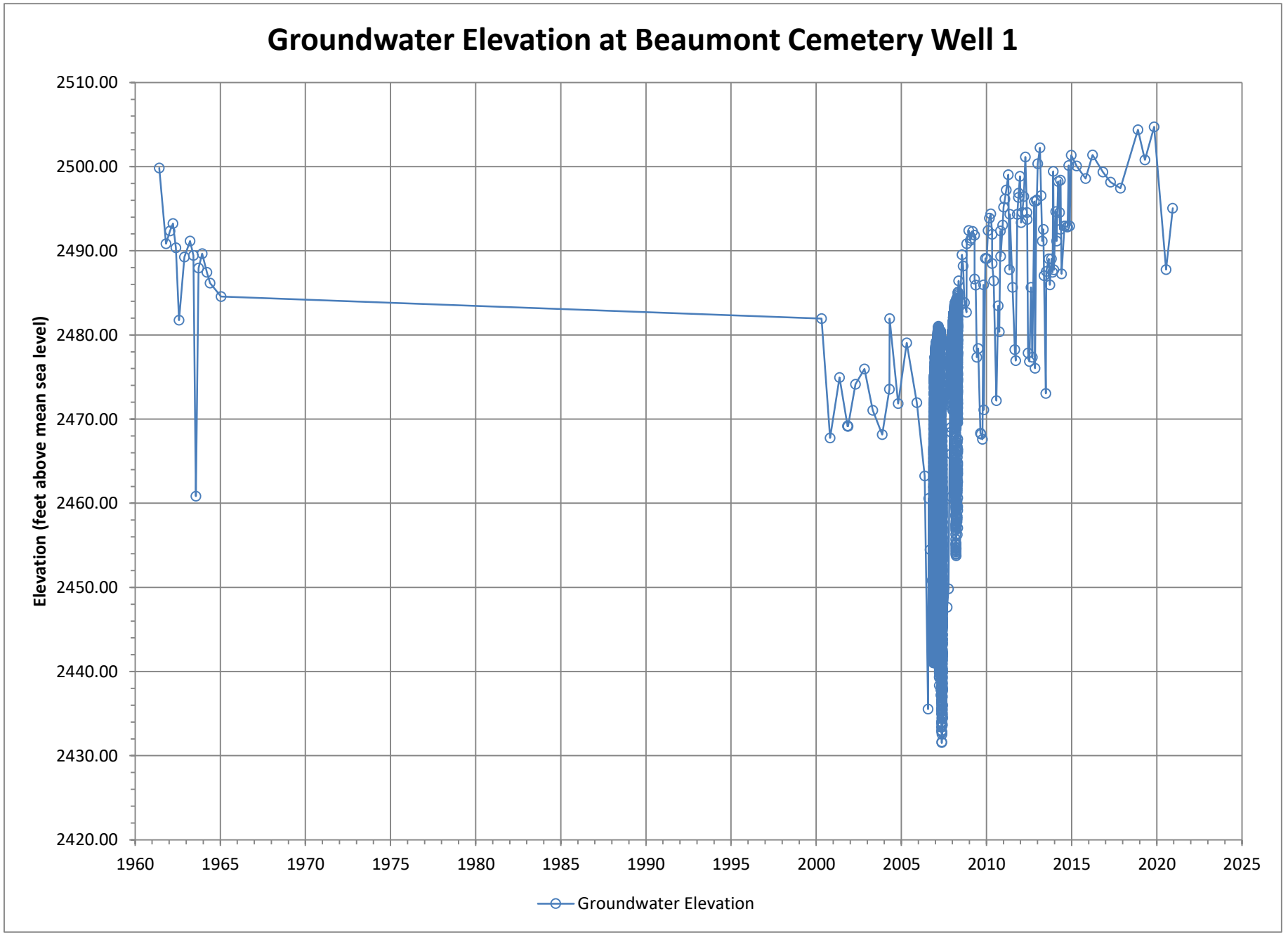
Groundwater Elevation at Beaumont Cemetery Well 1
Elevation (feet above mean sea level)
2510.00
2500.00
2490.00
2480.00
2470.00
2460.00
2450.00
2440.00
2430.00
2420.00
1960
1965
1970
1975
1980
1985
1990
1995
2000
2005
2010
2015
2020
2025
Groundwater Elevation

Figure M-4

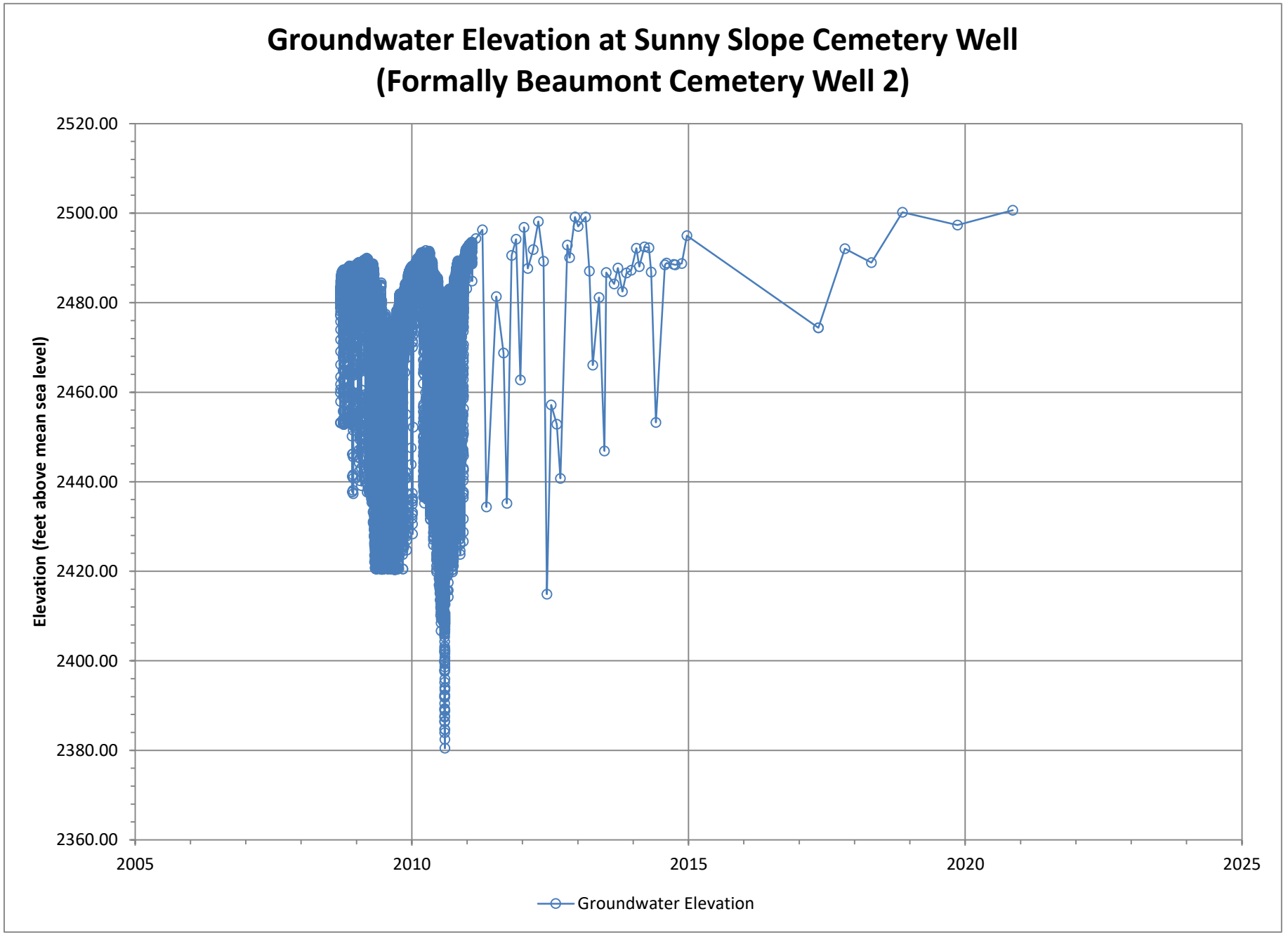
Groundwater Elevation at Sunny Slope Cemetery Well
(Formally Beaumont Cemetery Well 2)
Elevation (feet above mean sea level)
2520.00
2500.00
2480.00
2460.00
2440.00
2420.00
2400.00
2380.00
2360.00
2005
2010
2015
2020
2025
Groundwater Elevation

Figure M-5

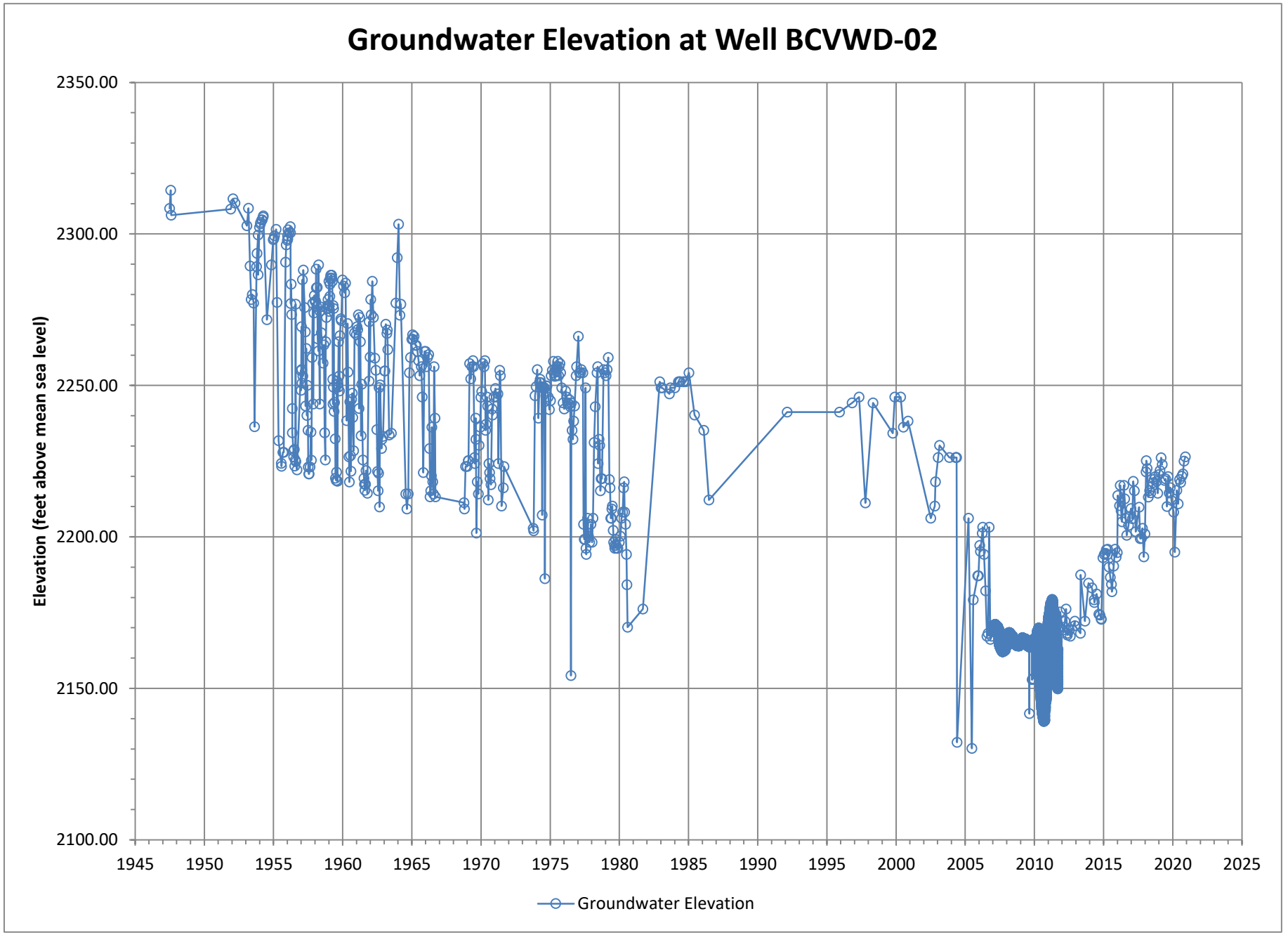
Groundwater Elevation at Well BCVWD-02
Elevation (feet above mean sea level)
2350.00
2300.00
2250.00
2200.00
2150.00
2100.00
1945
1950
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
2005
2010
2015
2020
2025
Groundwater Elevation

Figure M-6

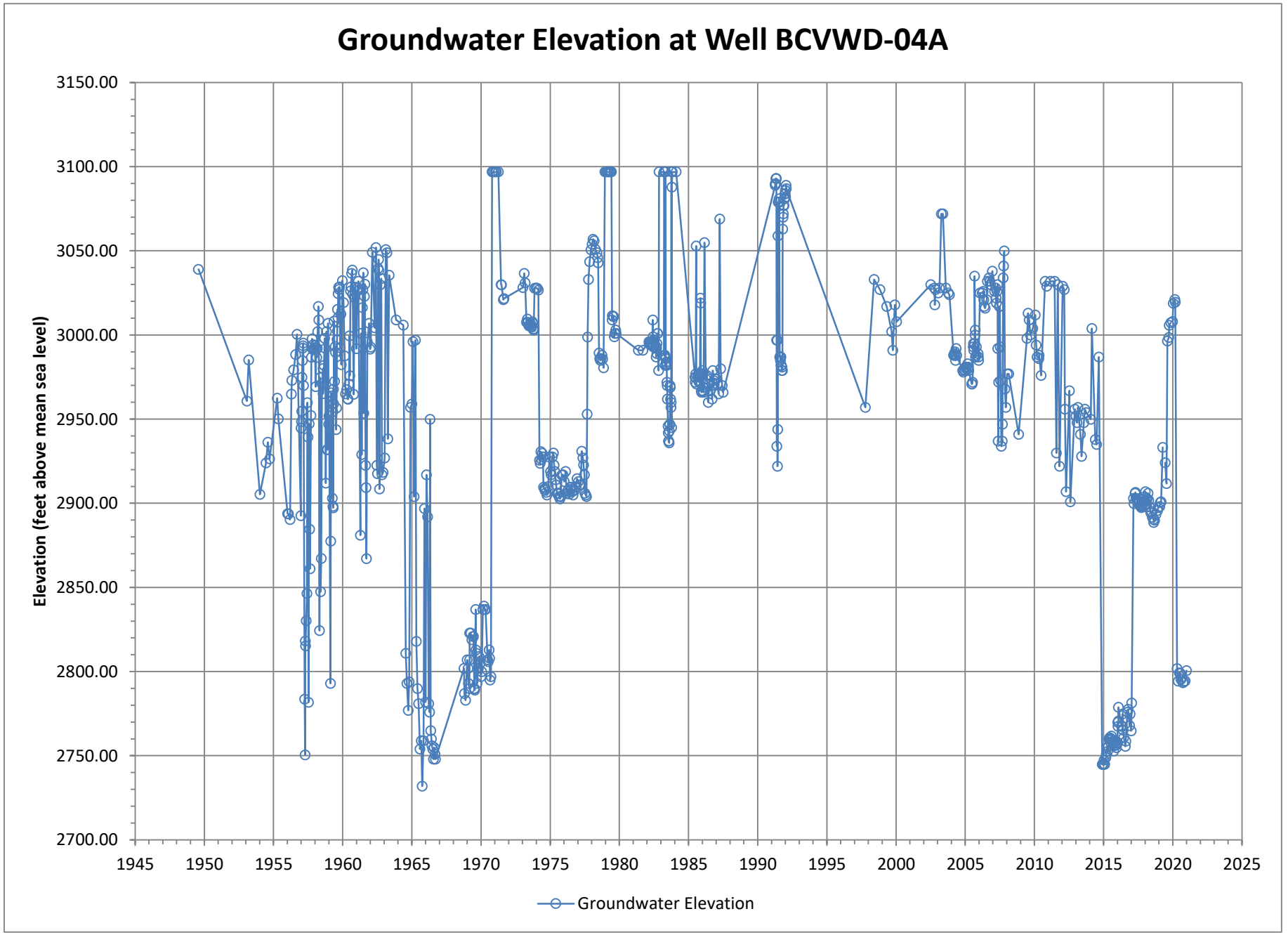
Groundwater Elevation at Well BCVWD-04A
Elevation (feet above mean sea level)
3150.00
3100.00
3050.00
3000.00
2950.00
2900.00
2850.00
2800.00
2750.00
2700.00
1945
1950
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
2005
2010
2015
2020
2025
Groundwater Elevation

Figure M-7

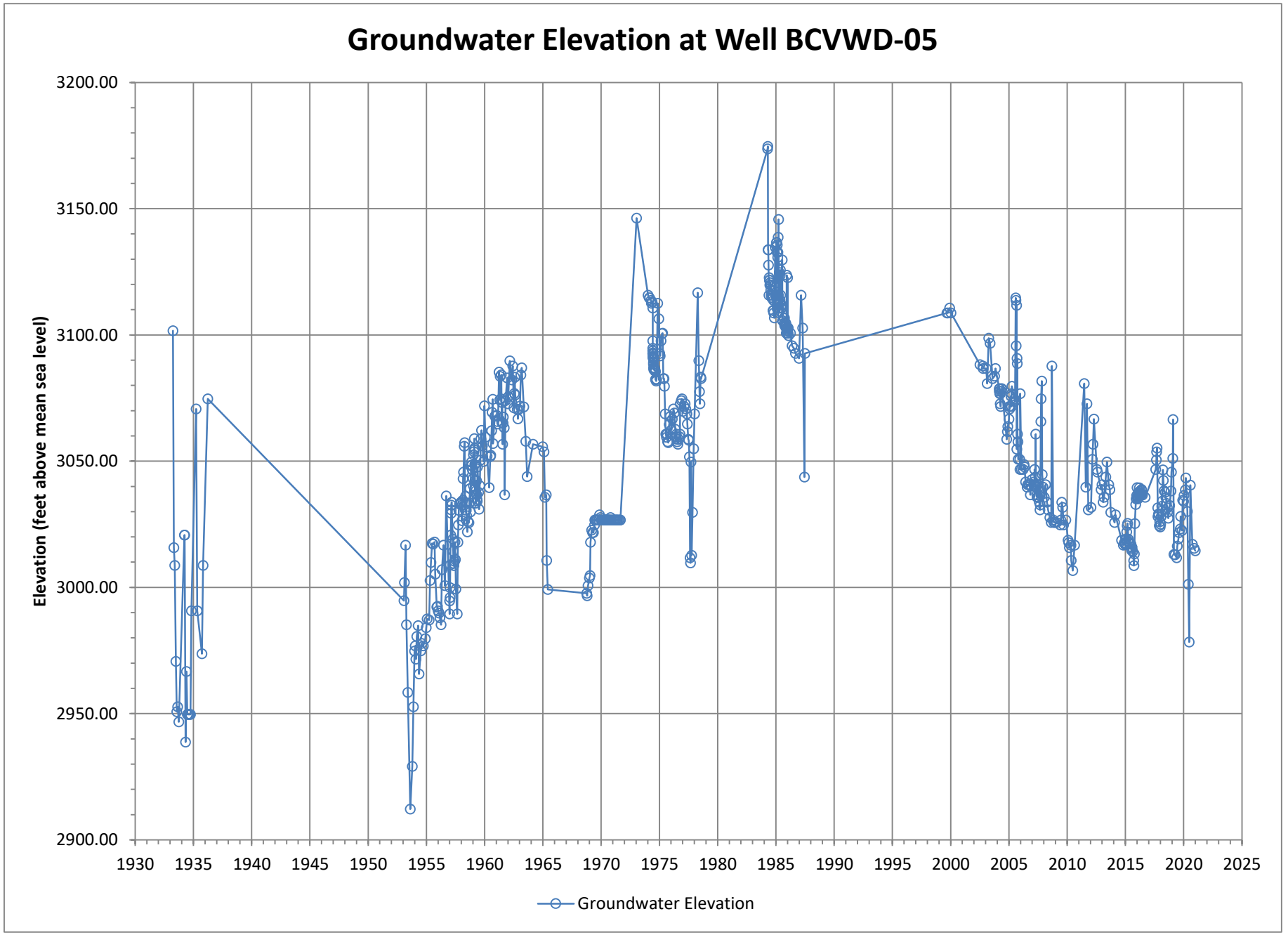
Groundwater Elevation at Well BCVWD-05
Elevation (feet above mean sea level)
3200.00
3150.00
3100.00
3050.00
3000.00
2950.00
2900.00
1930
1935
1940
1945
1950
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
2005
2010
2015
2020
2025
Groundwater Elevation

Figure M-8

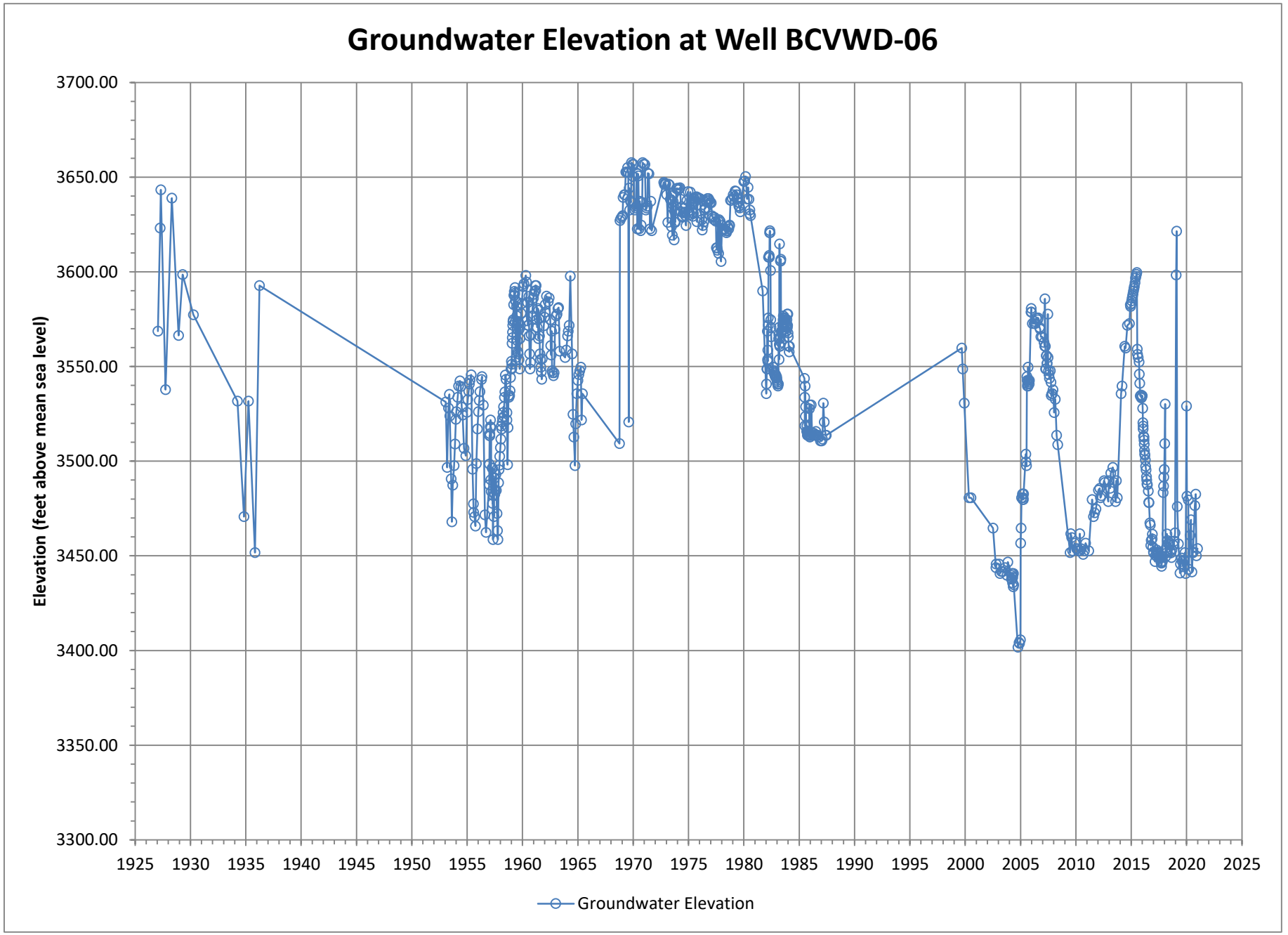
Groundwater Elevation at Well BCVWD-06
Elevation (feet above mean sea level)
3700.00
3650.00
3600.00
3550.00
3500.00
3450.00
3400.00
3350.00
3300.00
1925
1930
1935
1940
1945
1950
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
2005
2010
2015
2020
2025
Groundwater Elevation

Figure M-9

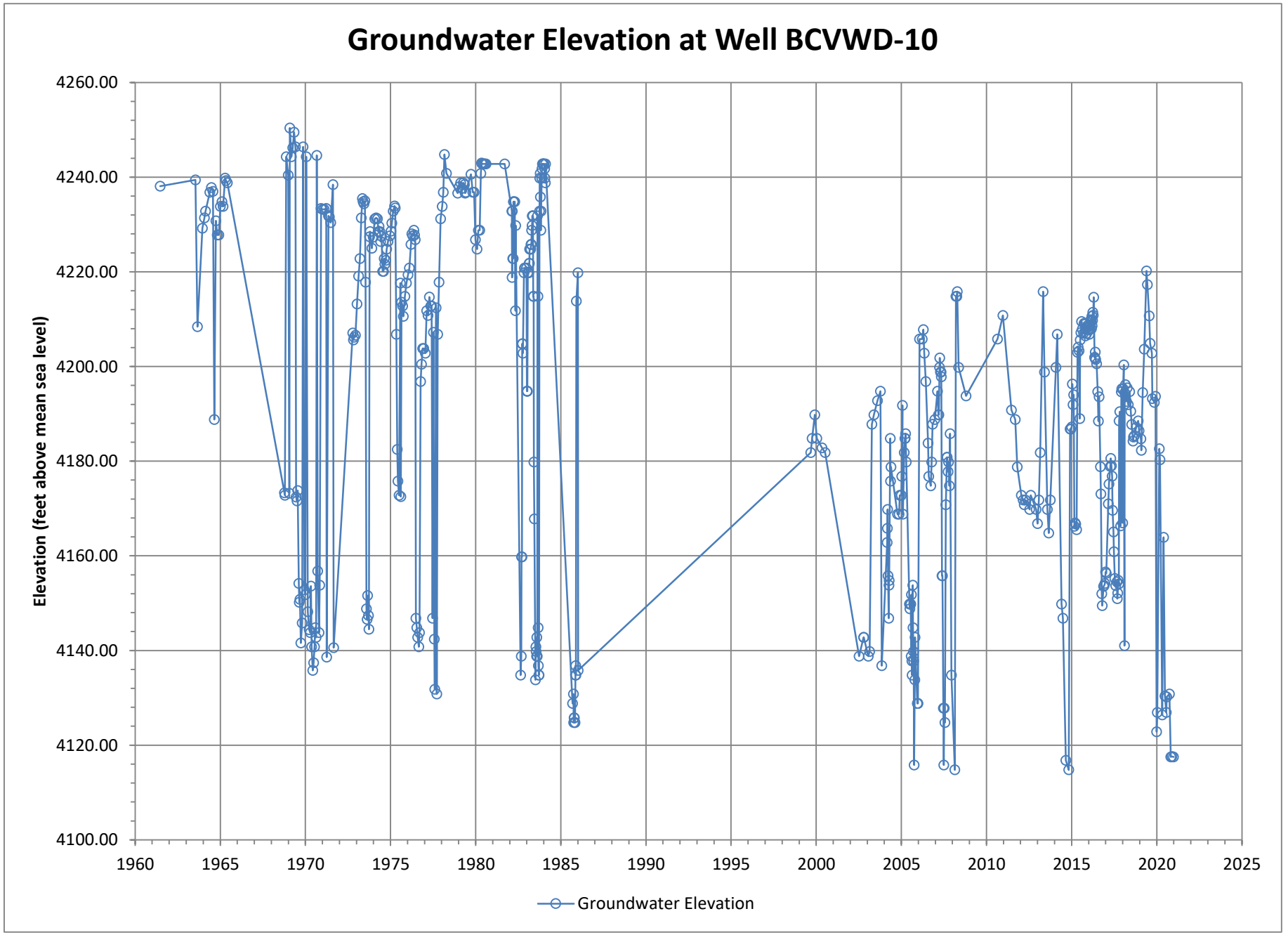
Groundwater Elevation at Well BCVWD-10
Elevation (feet above mean sea level)
4260.00
4240.00
4220.00
4200.00
4180.00
4160.00
4140.00
4120.00
4100.00
1960
1965
1970
1975
1980
1985
1990
1995
2000
2005
2010
2015
2020
2025
Groundwater Elevation

Figure M-10

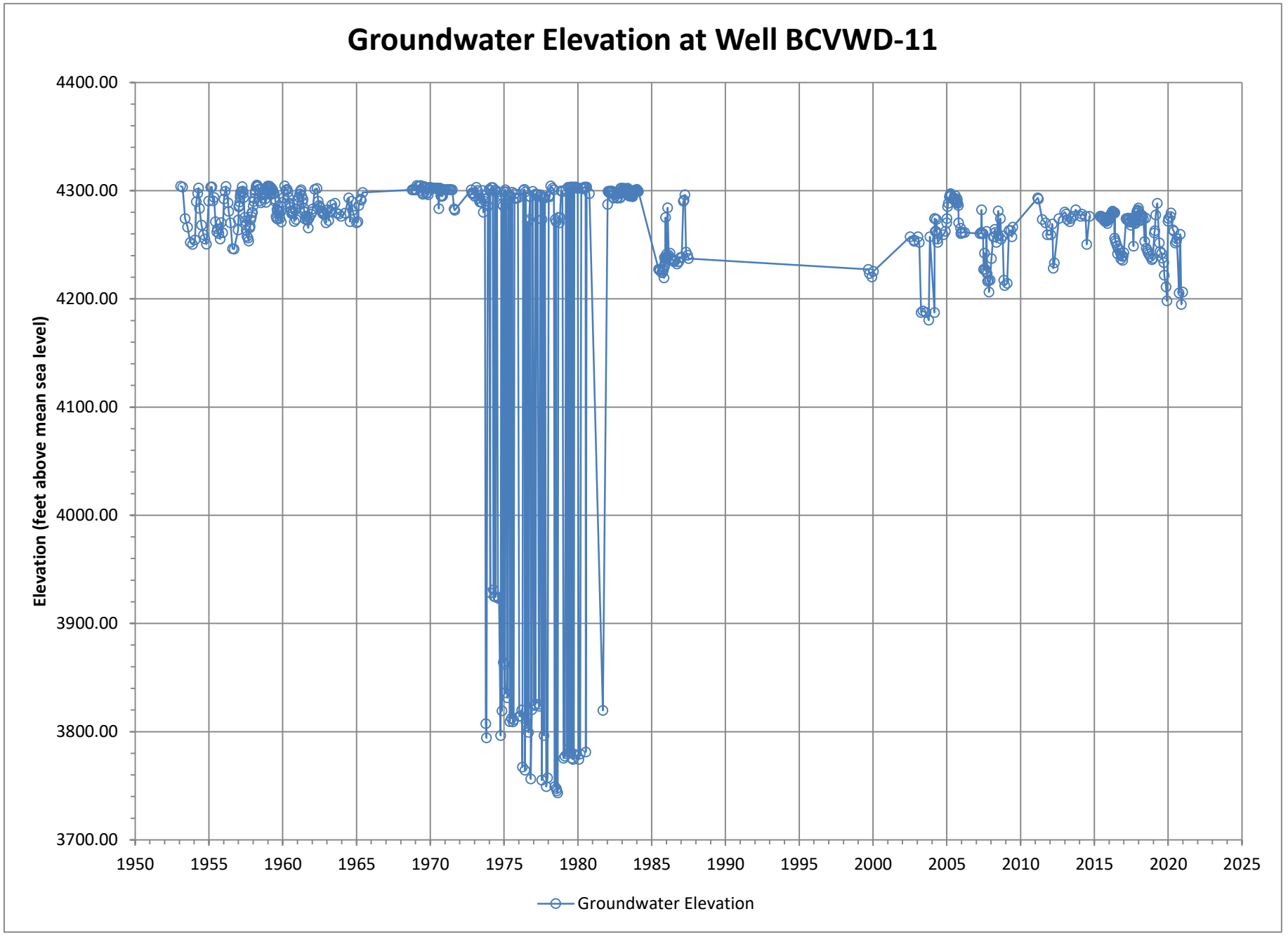
Groundwater Elevation at Well BCVWD-11
Elevation (feet above mean sea level)
4400.00
4300.00
4200.00
4100.00
4000.00
3900.00
3800.00
3700.00
1950
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
2005
2010
2015
2020
2025
Groundwater Elevation

Figure M-11

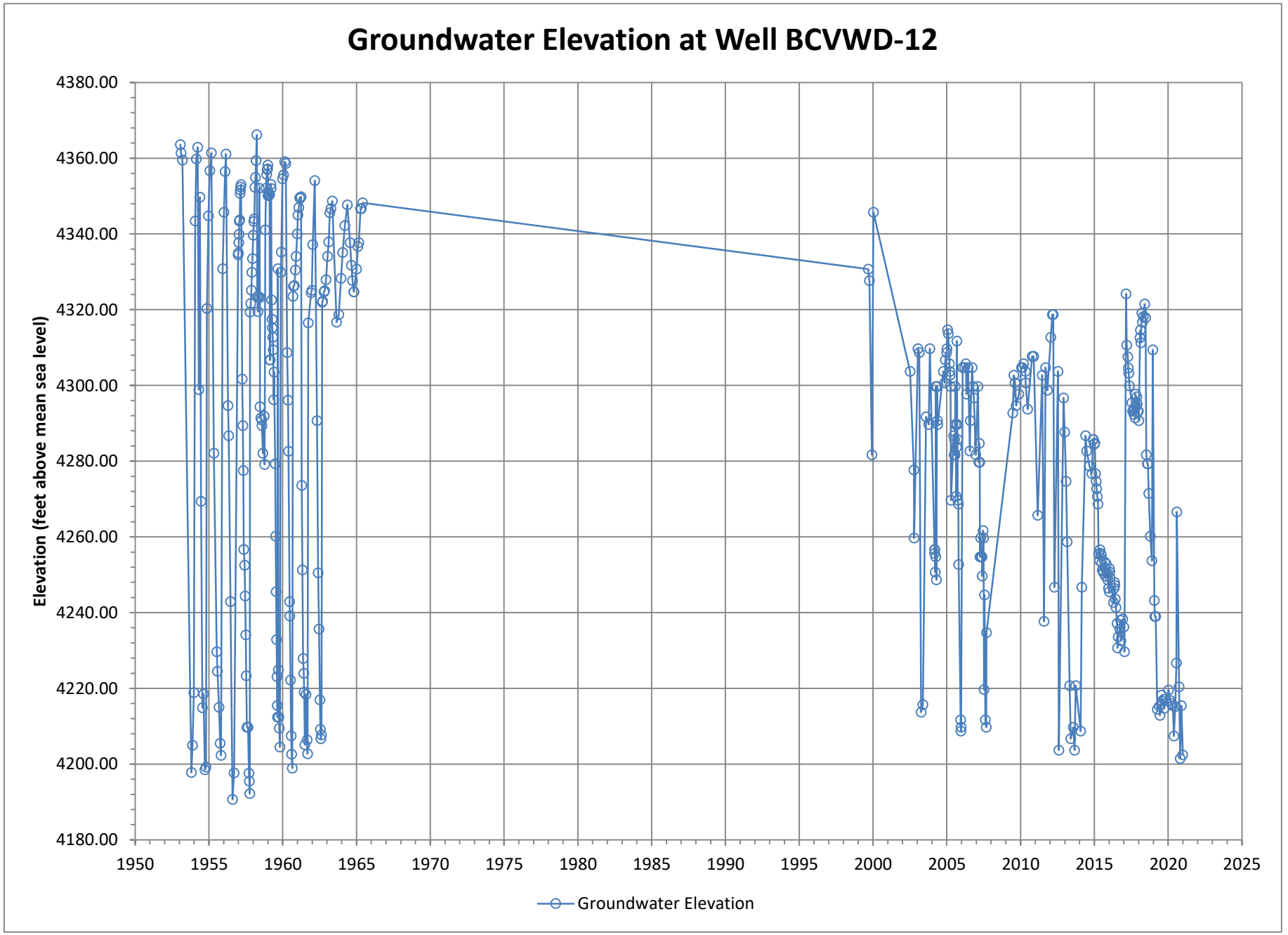
Groundwater Elevation at Well BCVWD-12
Elevation (feet above mean sea level)
4380.00
4360.00
4340.00
4320.00
4300.00
4280.00
4260.00
4240.00
4220.00
4200.00
4180.00
1950
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
2005
2010
2015
2020
2025
Groundwater Elevation

Figure M-12

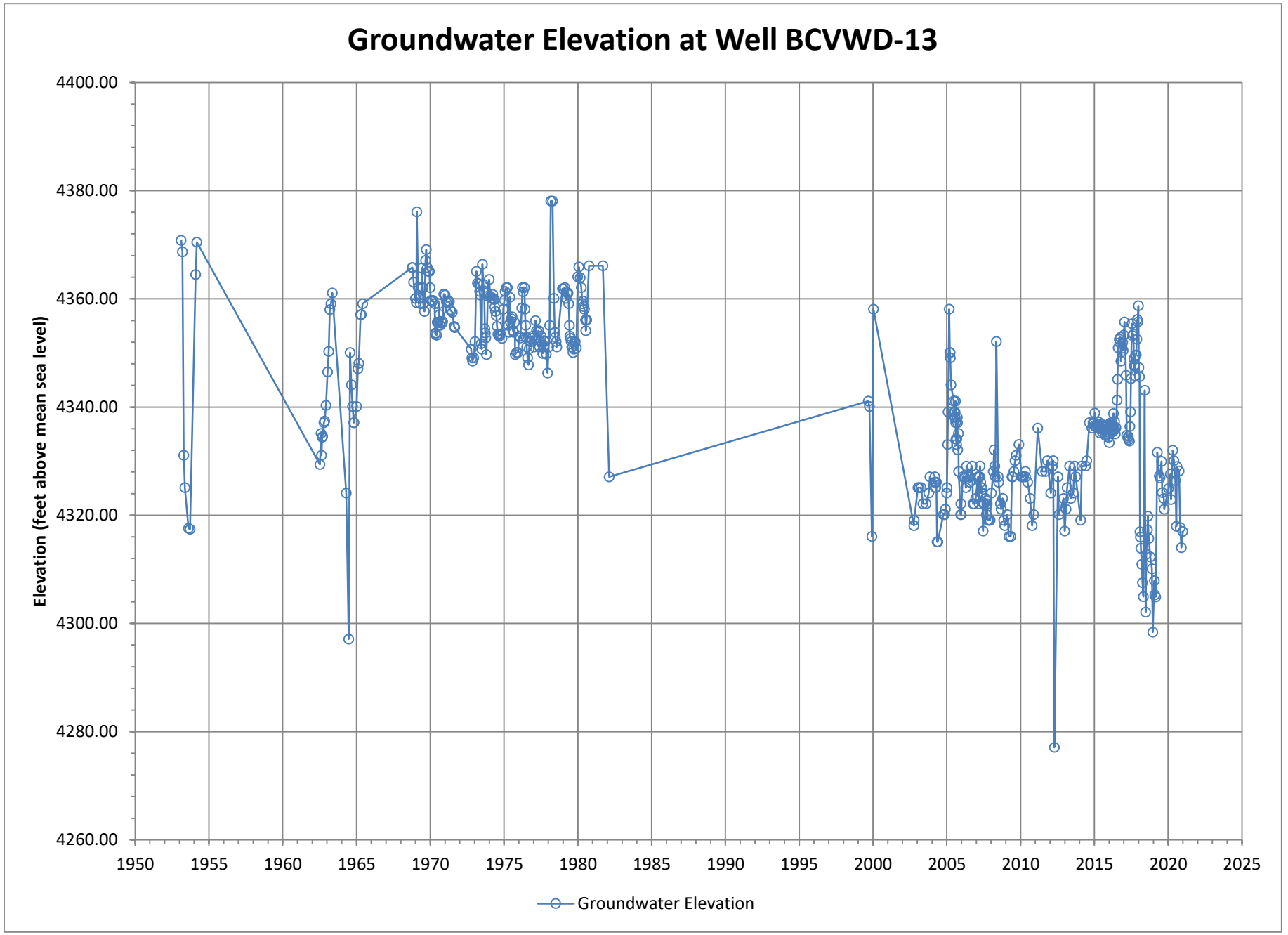
Groundwater Elevation at Well BCVWD-13
Elevation (feet above mean sea level)
4400.00
4380.00
4360.00
4340.00
4320.00
4300.00
4280.00
4260.00
1950
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
2005
2010
2015
2020
2025
Groundwater Elevation

Figure M-13

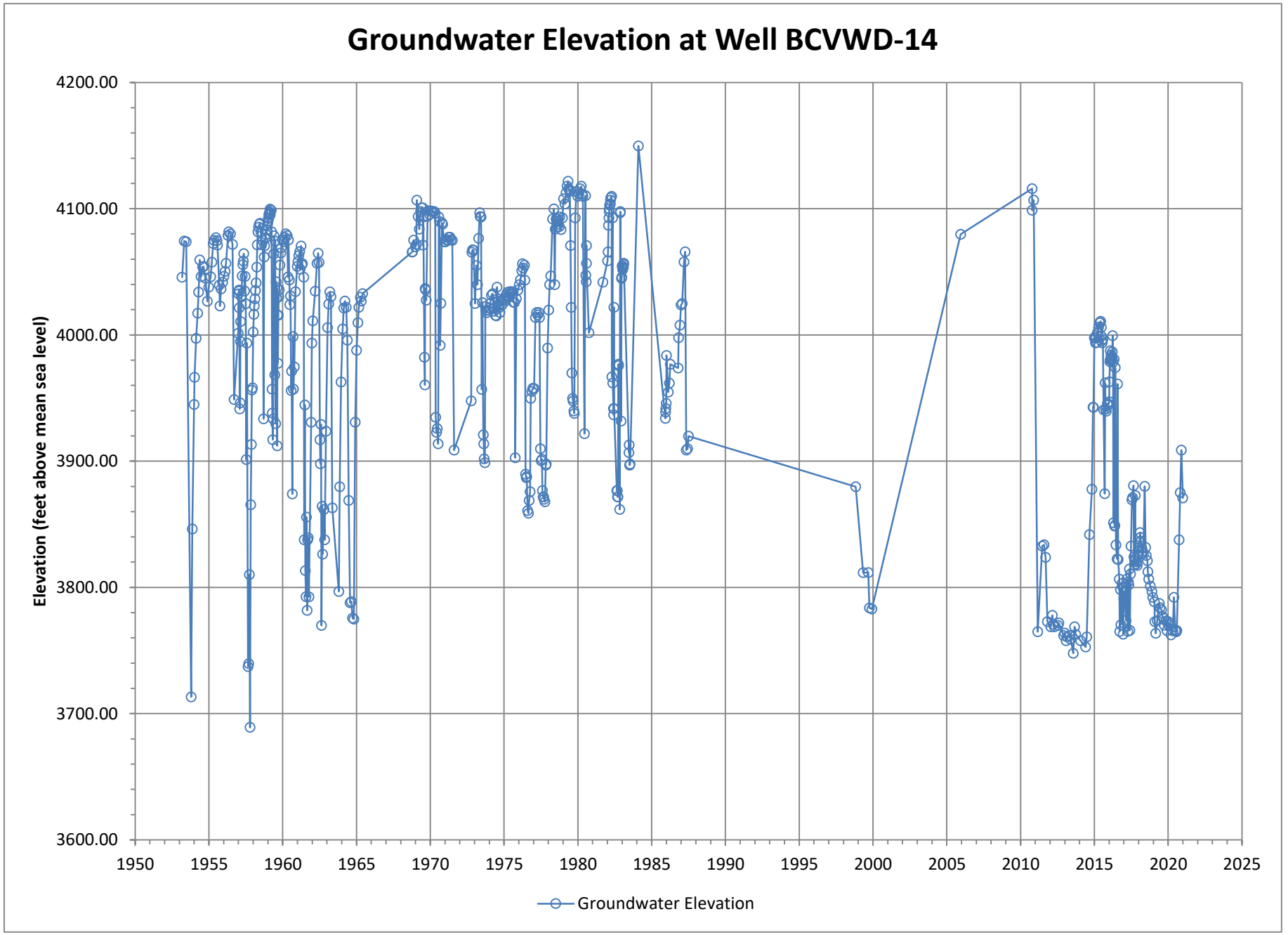
Groundwater Elevation at Well BCVWD-14
Elevation (feet above mean sea level)
4200.00
4100.00
4000.00
3900.00
3800.00
3700.00
3600.00
1950
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
2005
2010
2015
2020
2025
Groundwater Elevation

Figure M-14

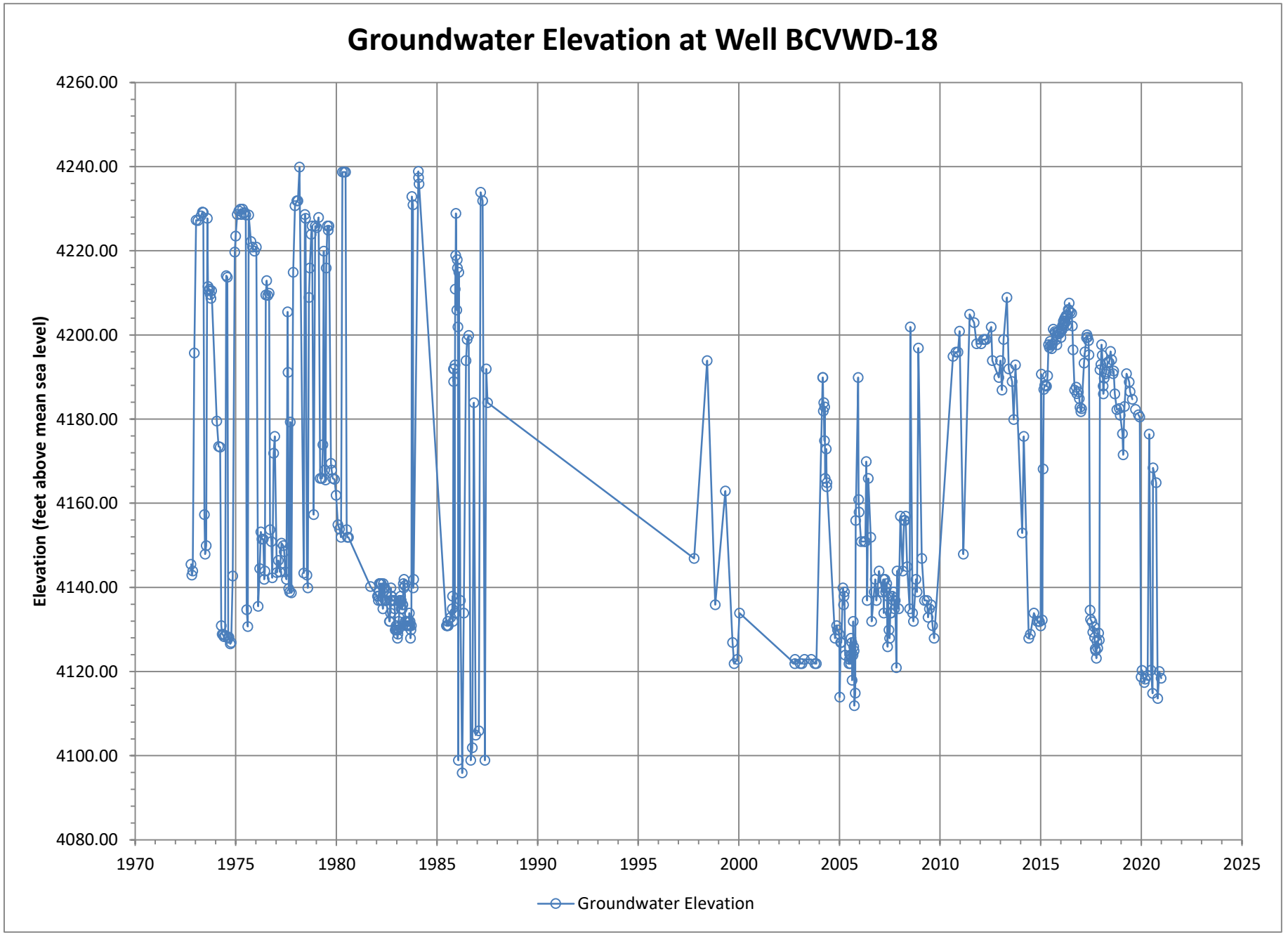
Groundwater Elevation at Well BCVWD-18
Elevation (feet above mean sea level)
4260.00
4240.00
4220.00
4200.00
4180.00
4160.00
4140.00
4120.00
4100.00
4080.00
1970
1975
1980
1985
1990
1995
2000
2005
2010
2015
2020
2025
Groundwater Elevation

Figure M-15

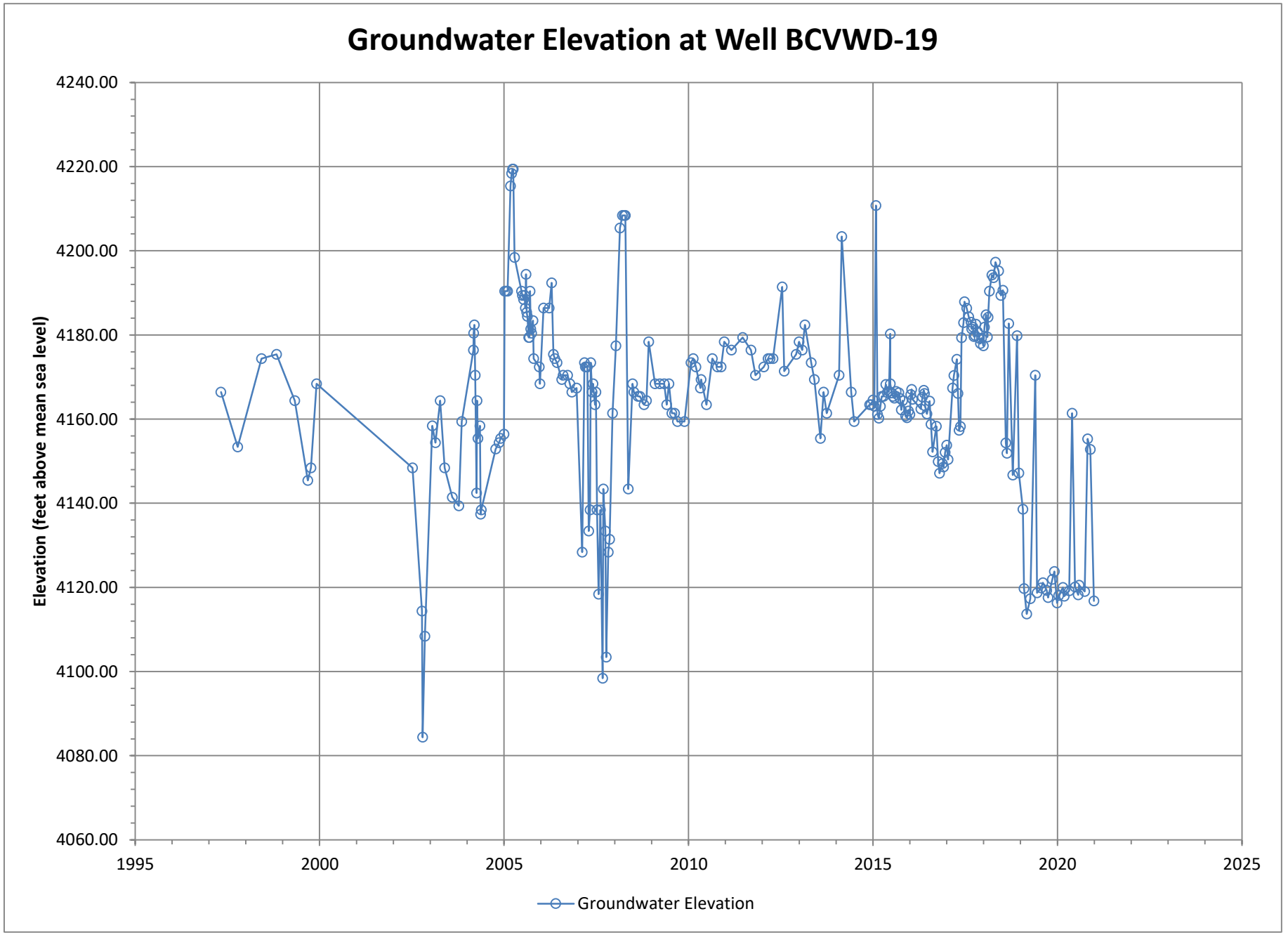
Groundwater Elevation at Well BCVWD-19
Elevation (feet above mean sea level)
4240.00
4220.00
4200.00
4180.00
4160.00
4140.00
4120.00
4100.00
4080.00
4060.00
1995
2000
2005
2010
2015
2020
2025
Groundwater Elevation

Figure M-16

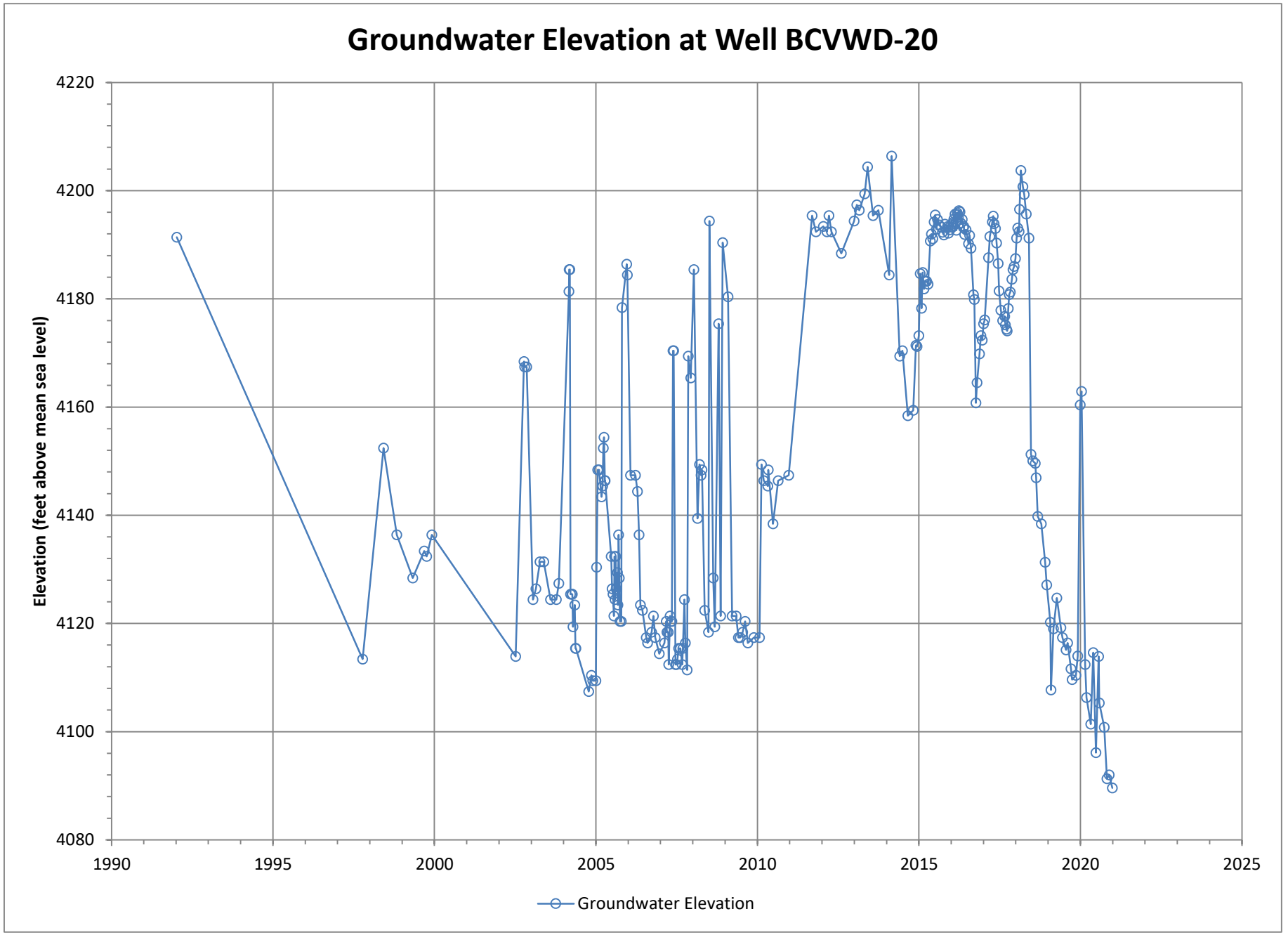
Groundwater Elevation at Well BCVWD-20
Elevation (feet above mean sea level)
4220
4200
4180
4160
4140
4120
4100
4080
1990
1995
2000
2005
2010
2015
2020
2025
Groundwater Elevation

Figure M-17

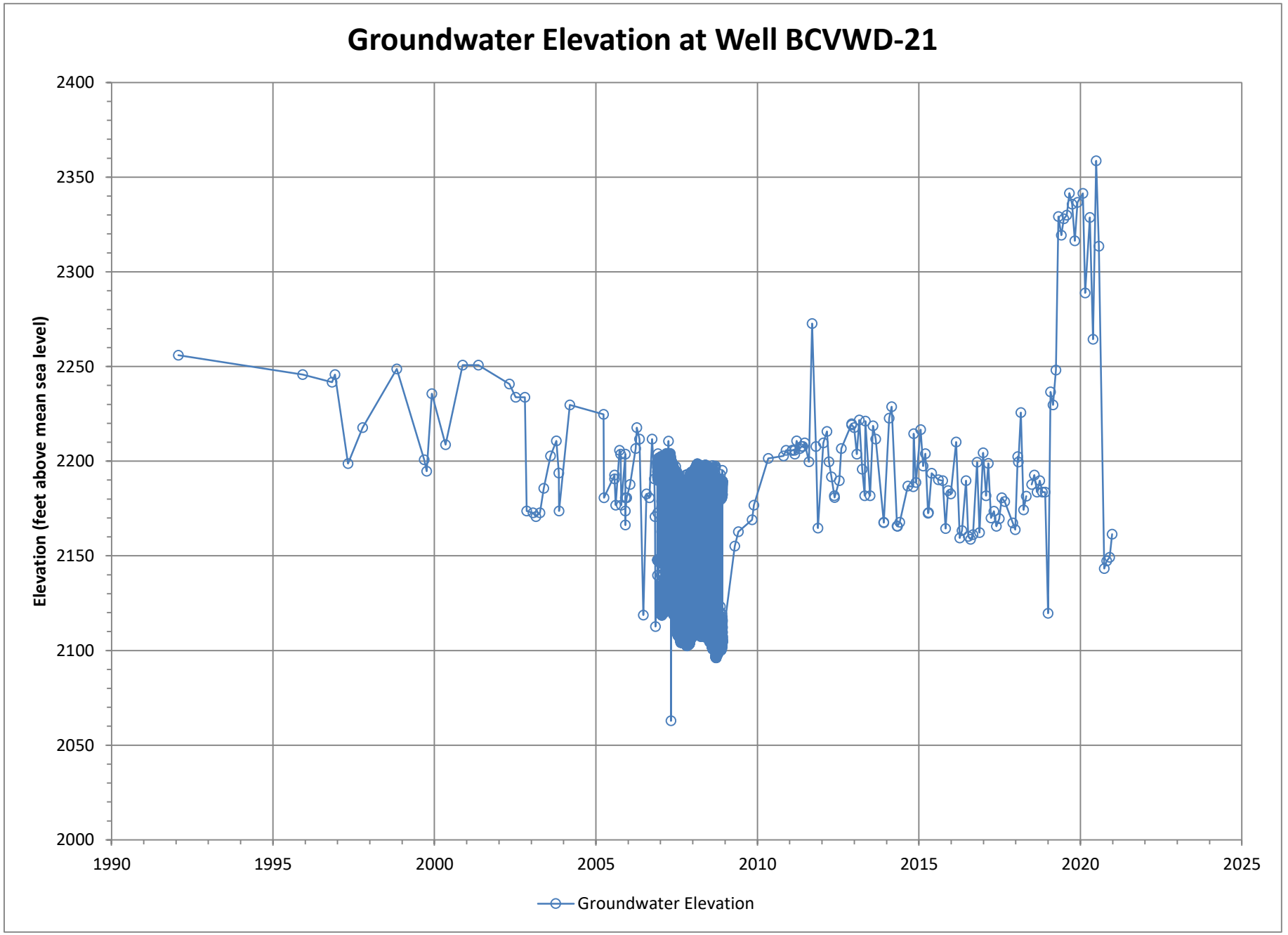
Groundwater Elevation at Well BCVWD-21
Elevation (feet above mean sea level)
2400
2350
2300
2250
2200
2150
2100
2050
2000
1990
1995
2000
2005
2010
2015
2020
2025
Groundwater Elevation

Figure M-18

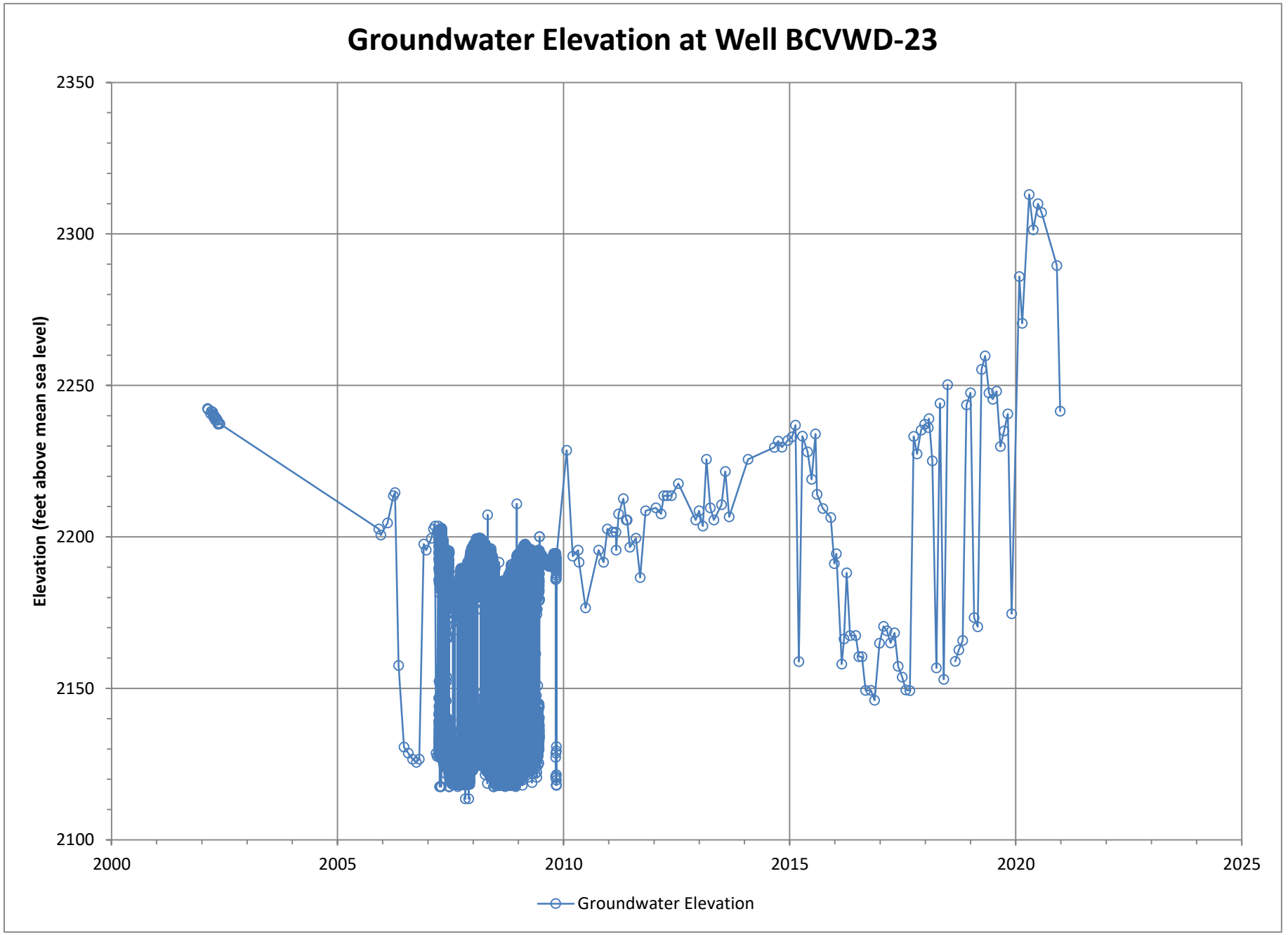
Groundwater Elevation at Well BCVWD-23
Elevation (feet above mean sea level)
2350
2300
2250
2200
2150
2100
2000
2005
2010
2015
2020
2025
Groundwater Elevation

Figure M-19

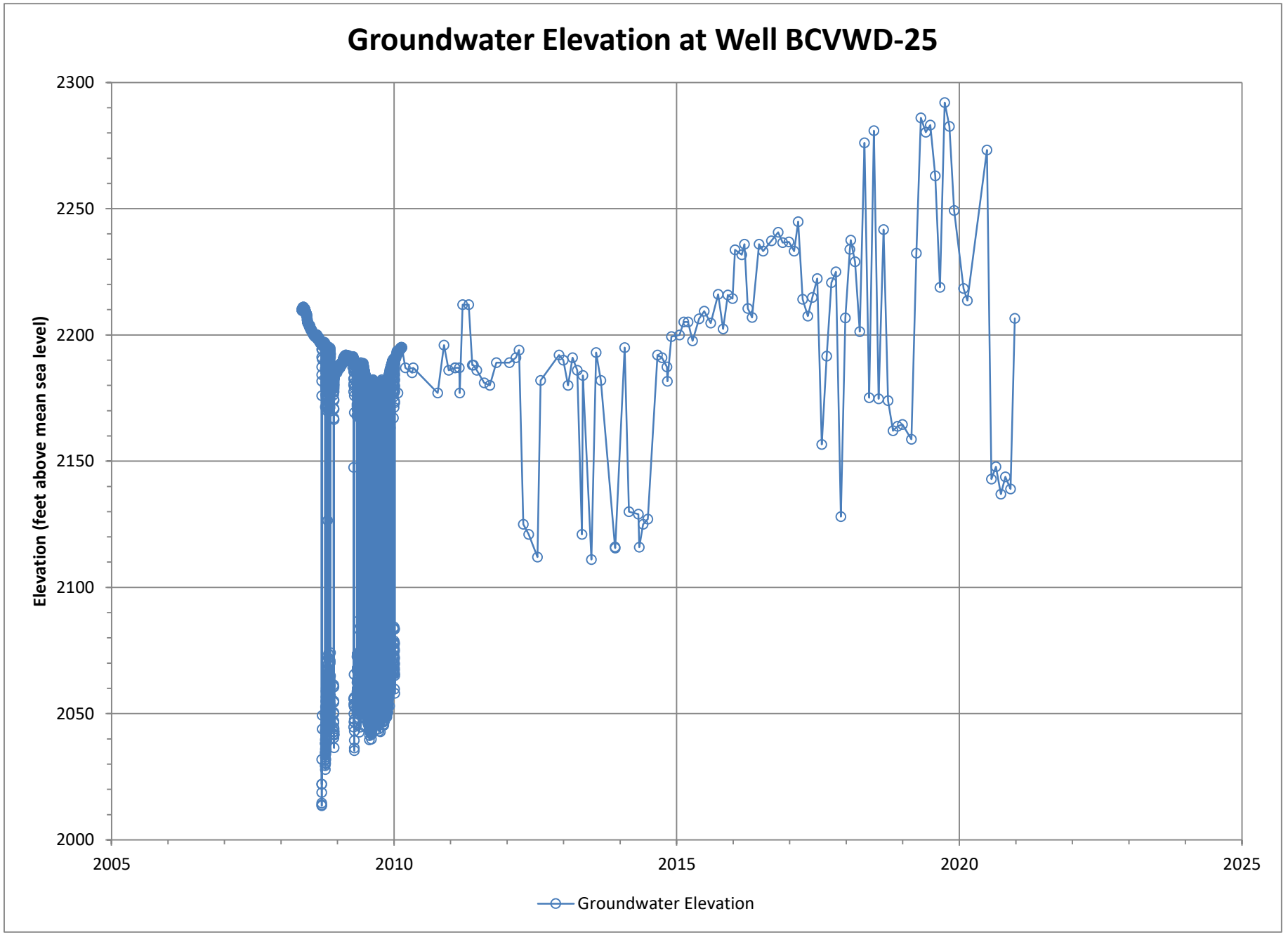
Groundwater Elevation at Well BCVWD-25
Elevation (feet above mean sea level)
2300
2250
2200
2150
2100
2050
2000
2005
2010
2015
2020
2025
Groundwater Elevation

Figure M-20

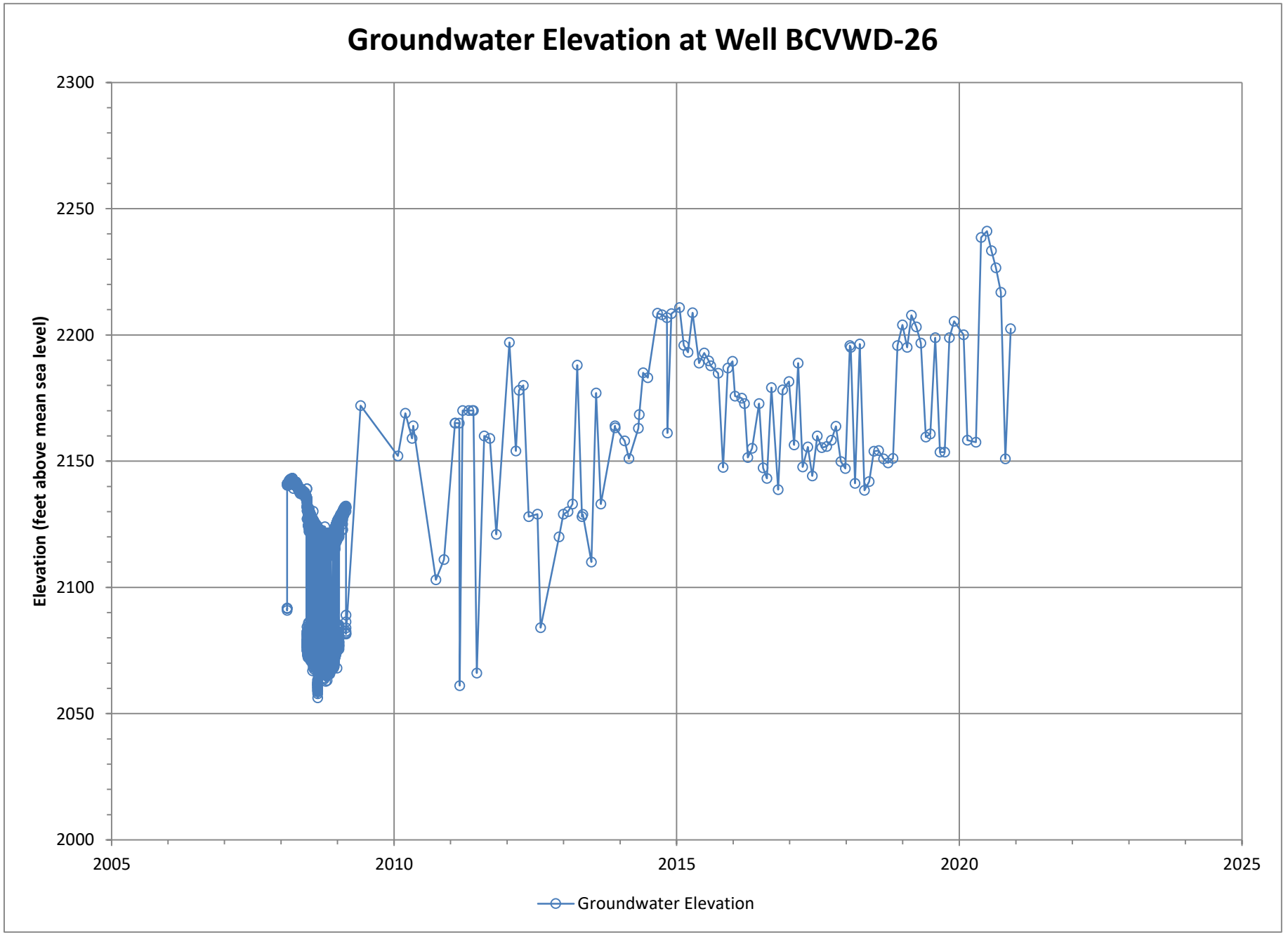
Groundwater Elevation at Well BCVWD-26
Elevation (feet above mean sea level)
2300
2250
2200
2150
2100
2050
2000
2005
2010
2015
2020
2025
Groundwater Elevation

Figure M-21

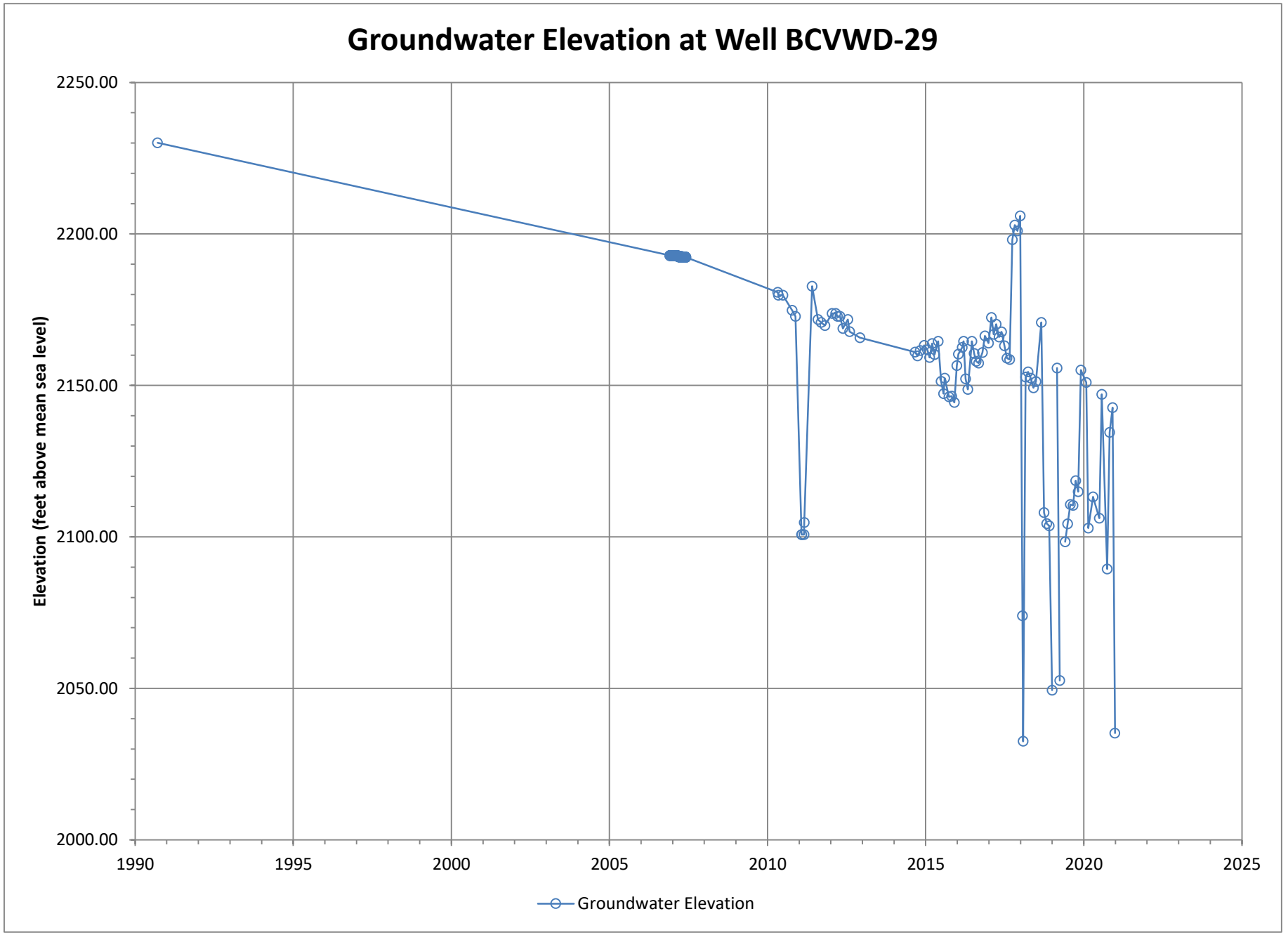
Groundwater Elevation at Well BCVWD-29
Elevation (feet above mean sea level)
2250.00
2200.00
2150.00
2100.00
2050.00
2000.00
1990
1995
2000
2005
2010
2015
2020
2025
Groundwater Elevation

Figure M-22

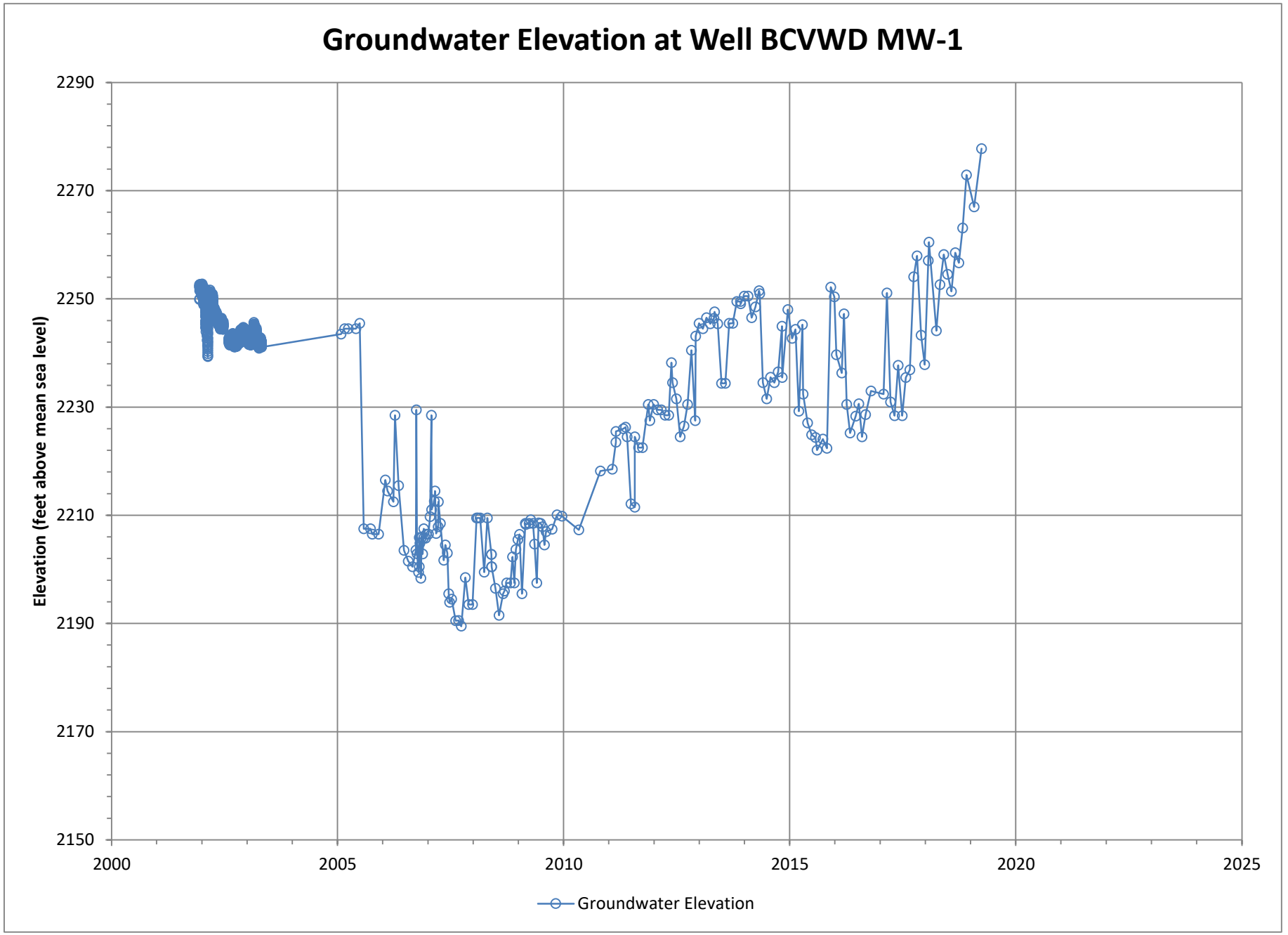
Groundwater Elevation at Well BCVWD MW-1
Elevation (feet above mean sea level)
2290
2270
2250
2230
2210
2190
2170
2150
2000
2005
2010
2015
2020
2025
Groundwater Elevation

Figure M-23

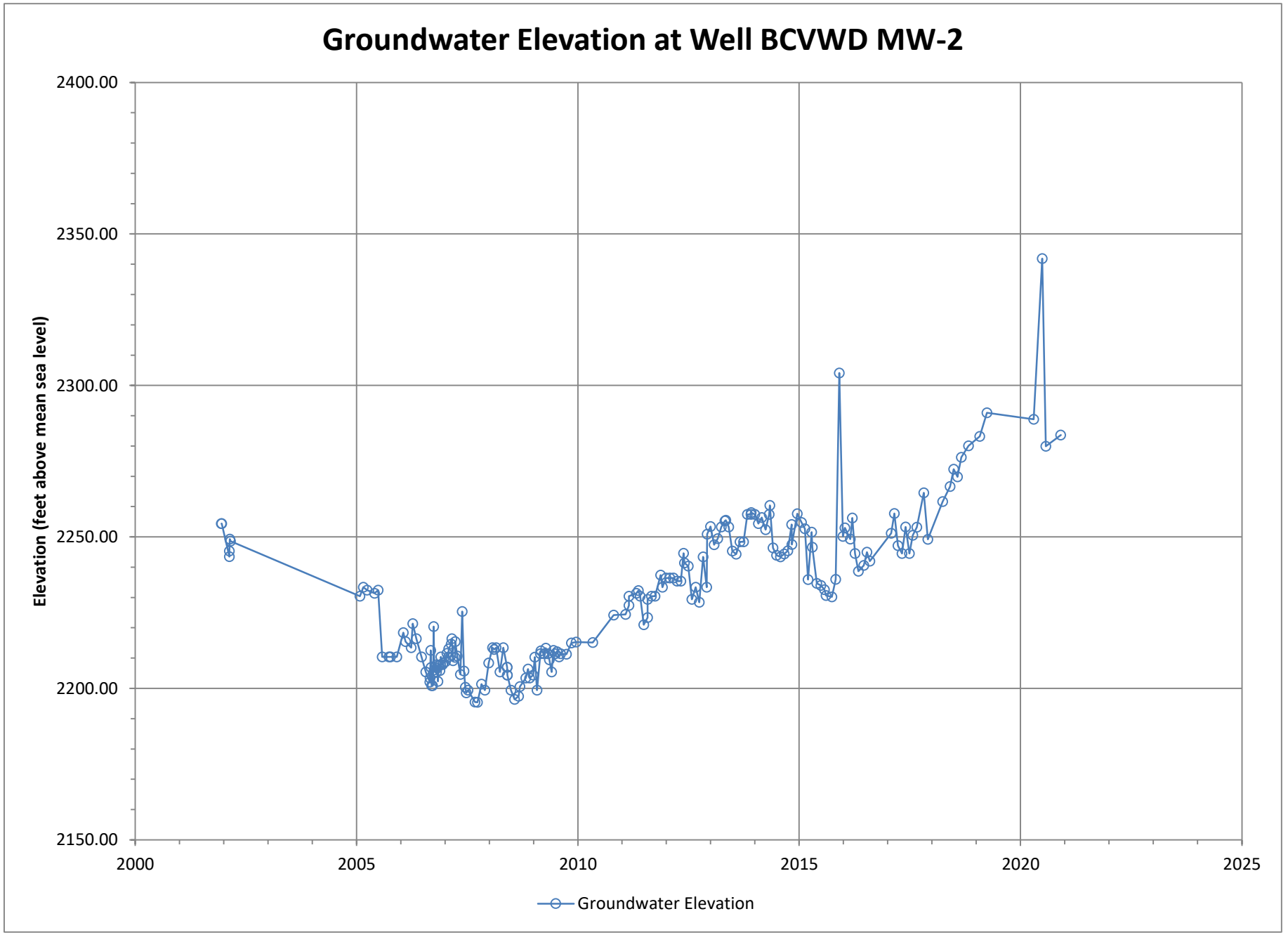
Groundwater Elevation at Well BCVWD MW-2
Elevation (feet above mean sea level)
2400.00
2350.00
2300.00
2250.00
2200.00
2150.00
2000
2005
2010
2015
2020
2025
Groundwater Elevation

Figure M-24

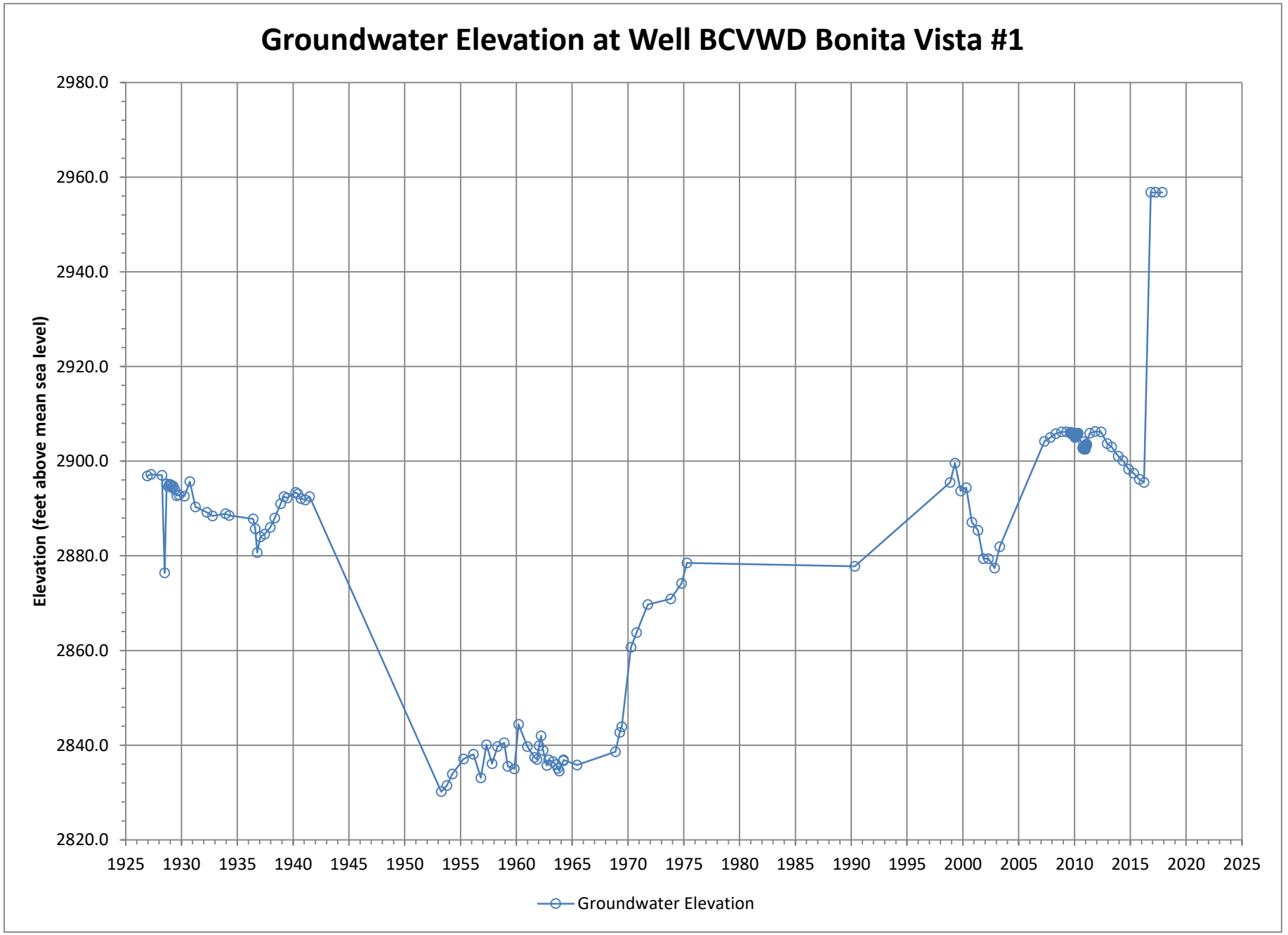
Groundwater Elevation at Well BCVWD Bonita Vista #1
Elevation (feet above mean sea level)
2980.0
2960.0
2940.0
2920.0
2900.0
2880.0
2860.0
2840.0
2820.0
1925
1930
1935
1940
1945
1950
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
2005
2010
2015
2020
2025
Groundwater Elevation

Figure M-25

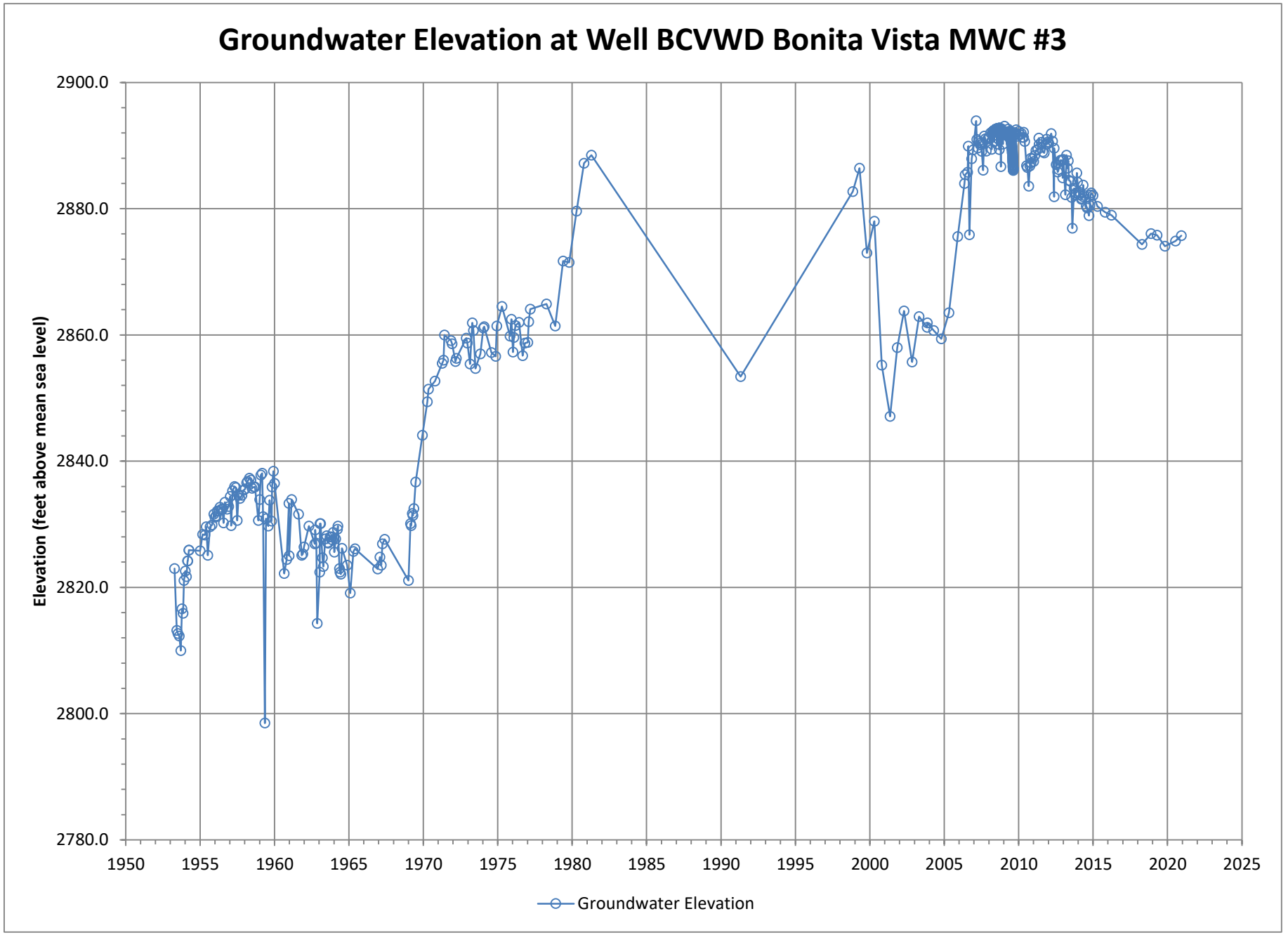
Groundwater Elevation at Well BCVWD Bonita Vista MWC #3
Elevation (feet above mean sea level)
2900.0
2880.0
2860.0
2840.0
2820.0
2800.0
2780.0
1950
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
2005
2010
2015
2020
2025
Groundwater Elevation

Figure M-26

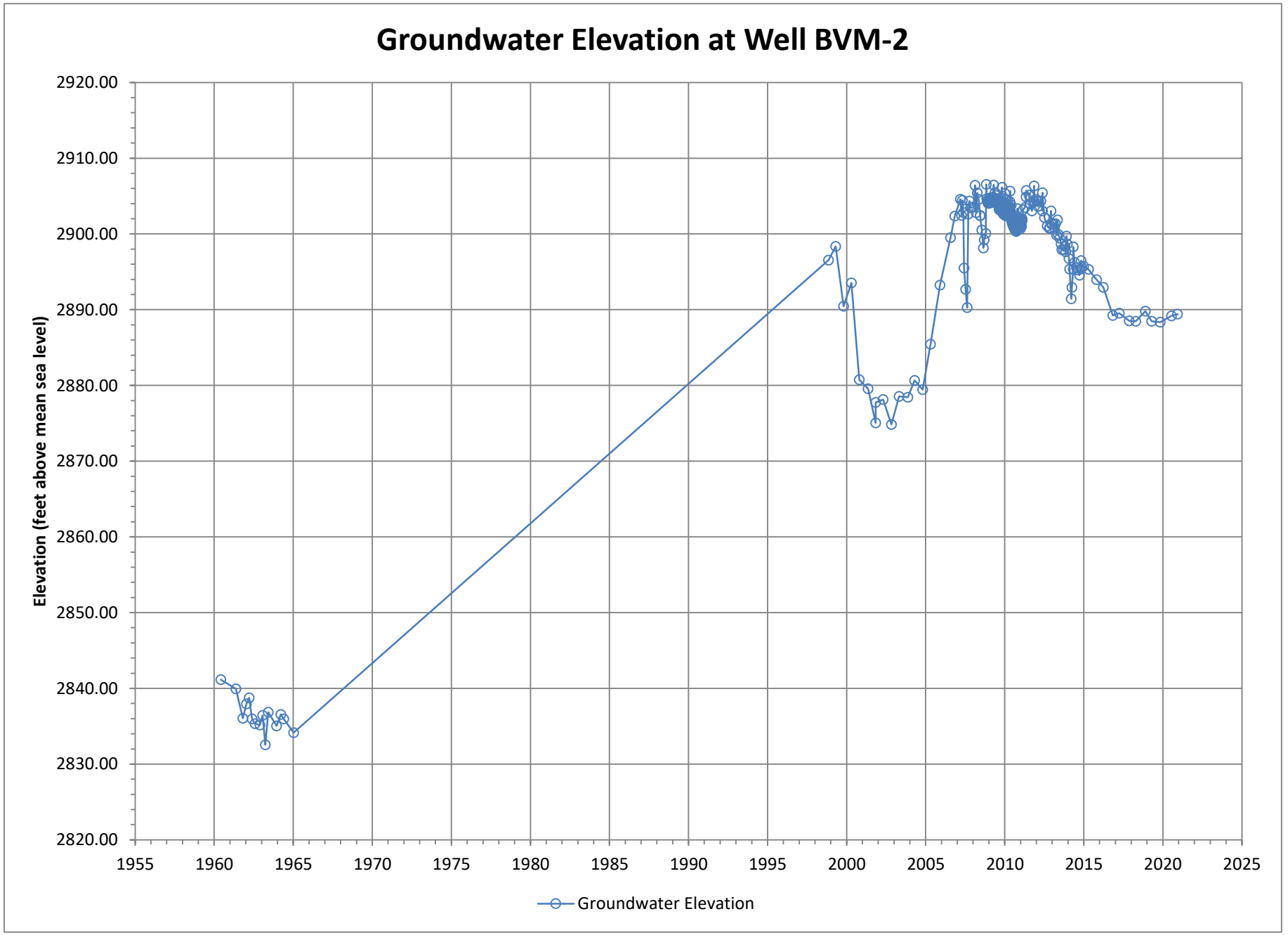
Groundwater Elevation at Well BVM-2
Elevation (feet above mean sea level)
2920.00
2910.00
2900.00
2890.00
2880.00
2870.00
2860.00
2850.00
2840.00
2830.00
2820.00
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
2005
2010
2015
2020
2025
Groundwater Elevation

Figure M-27

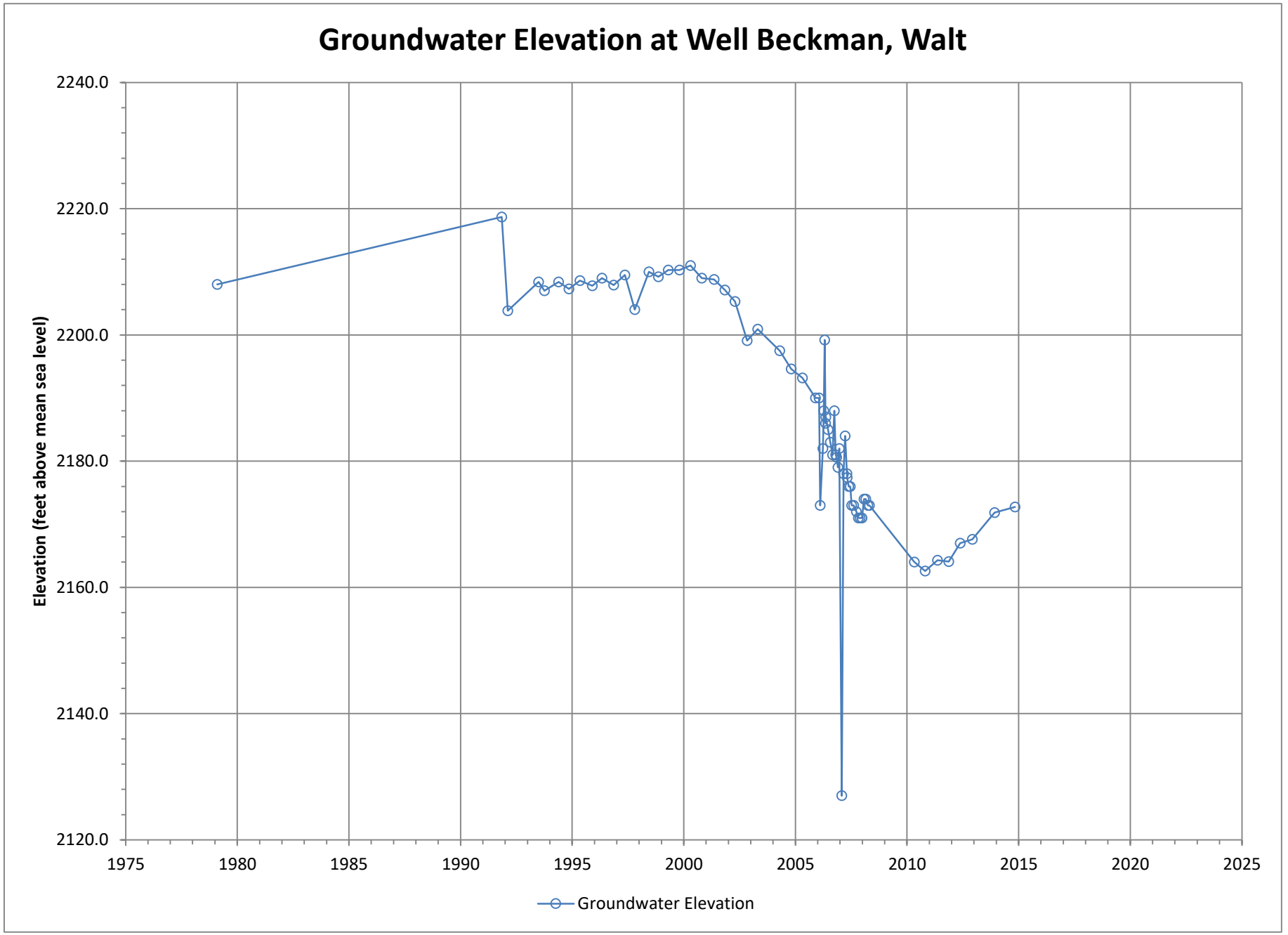
Groundwater Elevation at Well Beckman, Walt
Elevation (feet above mean sea level)
2240.0
2220.0
2200.0
2180.0
2160.0
2140.0
2120.0
1975
1980
1985
1990
1995
2000
2005
2010
2015
2020
2025
Groundwater Elevation

Figure M-28

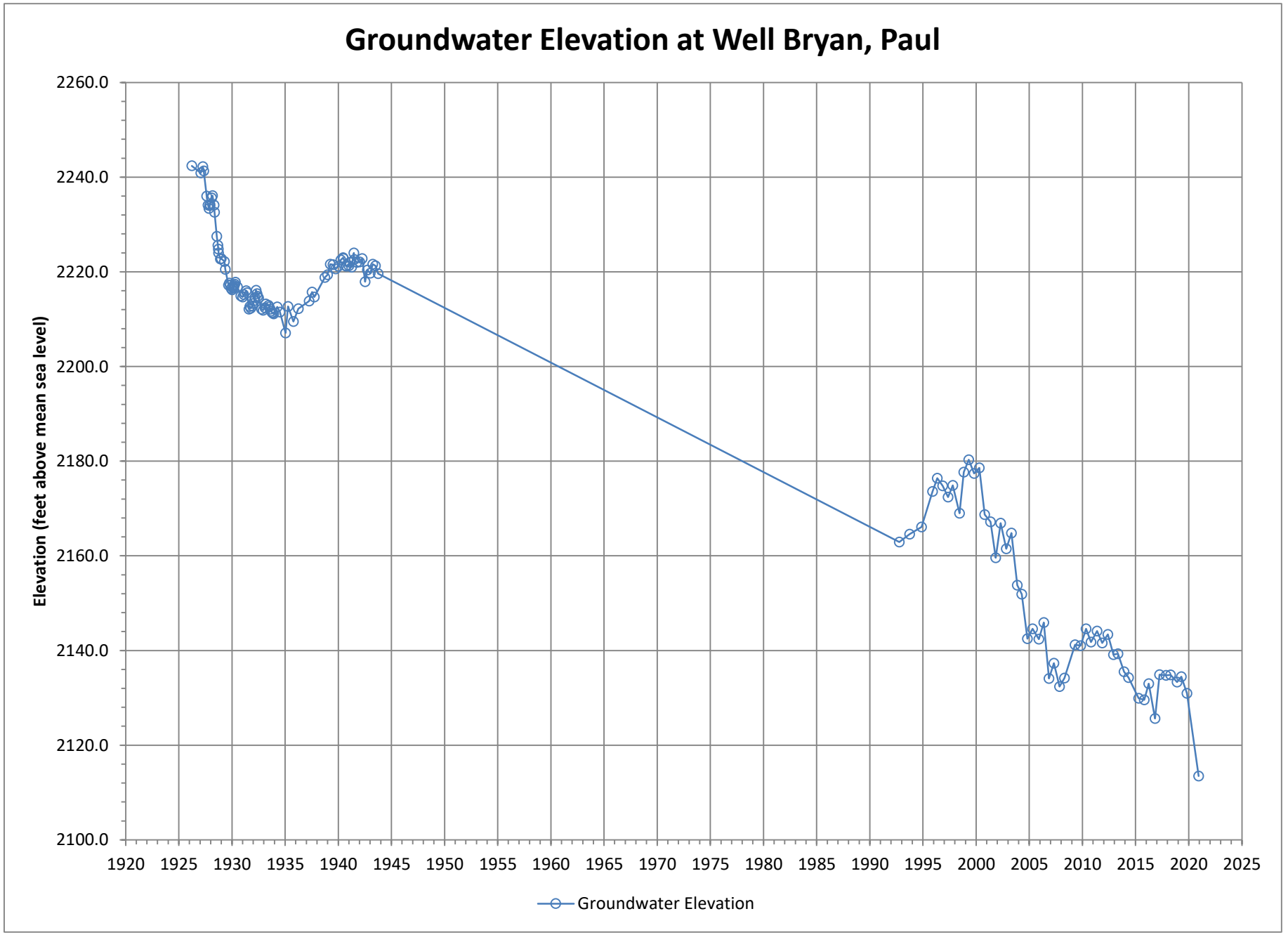
Groundwater Elevation at Well Bryan, Paul
Elevation (feet above mean sea level)
2260.0
2240.0
2220.0
2200.0
2180.0
2160.0
2140.0
2120.0
2100.0
1920
1925
1930
1935
1940
1945
1950
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
2005
2010
2015
2020
2025
Groundwater Elevation

Figure M-29

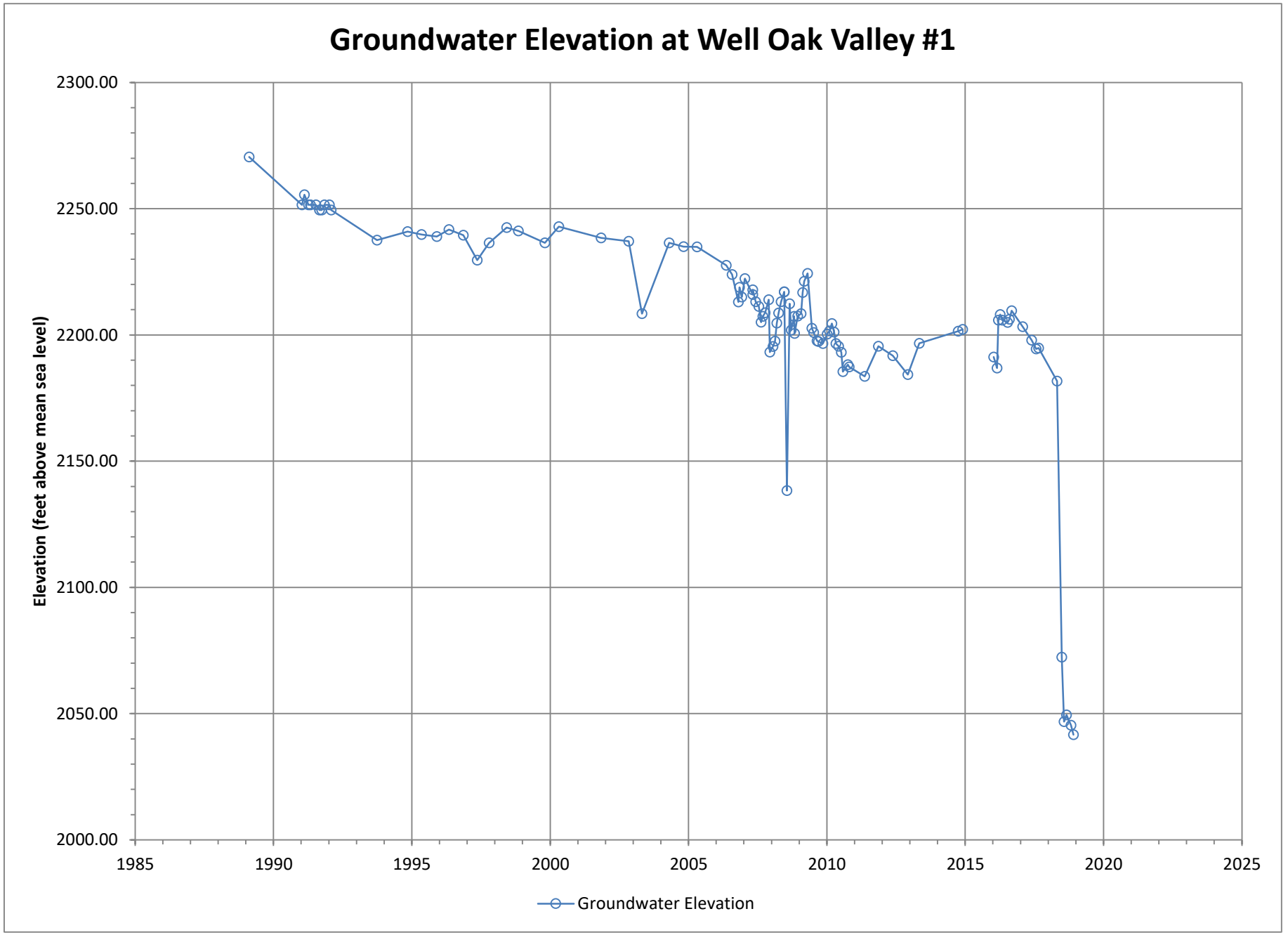
Groundwater Elevation at Well Oak Valley #1
Elevation (feet above mean sea level)
2300.00
2250.00
2200.00
2150.00
2100.00
2050.00
2000.00
1985
1990
1995
2000
2005
2010
2015
2020
2025
Groundwater Elevation

Figure M-30

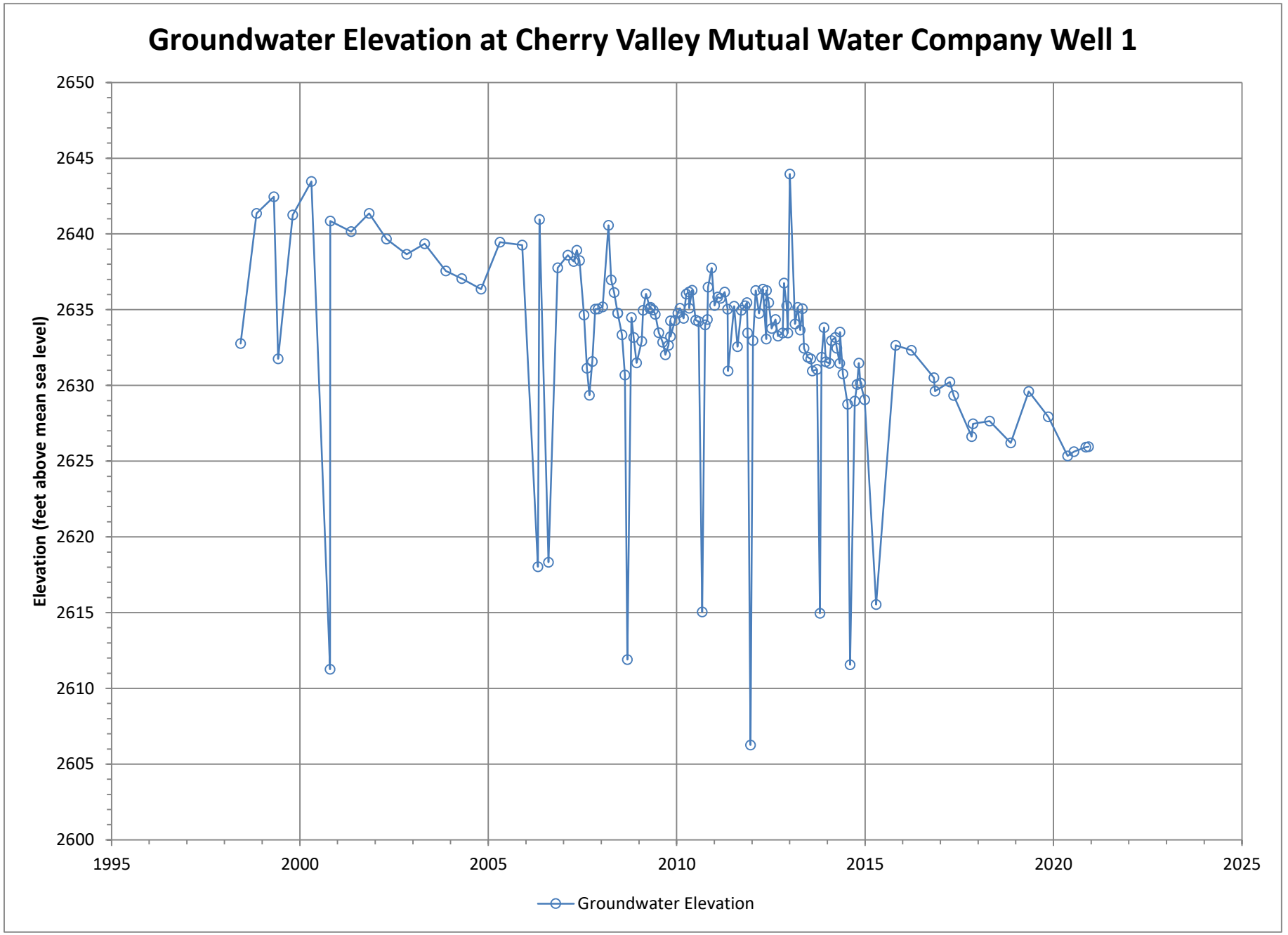
Groundwater Elevation at Cherry Valley Mutual Water Company Well 1
Elevation (feet above mean sea level)
2650
2645
2640
2635
2630
2625
2620
2615
2610
2605
2600
1995
2000
2005
2010
2015
2020
2025
Groundwater Elevation

Figure M-31

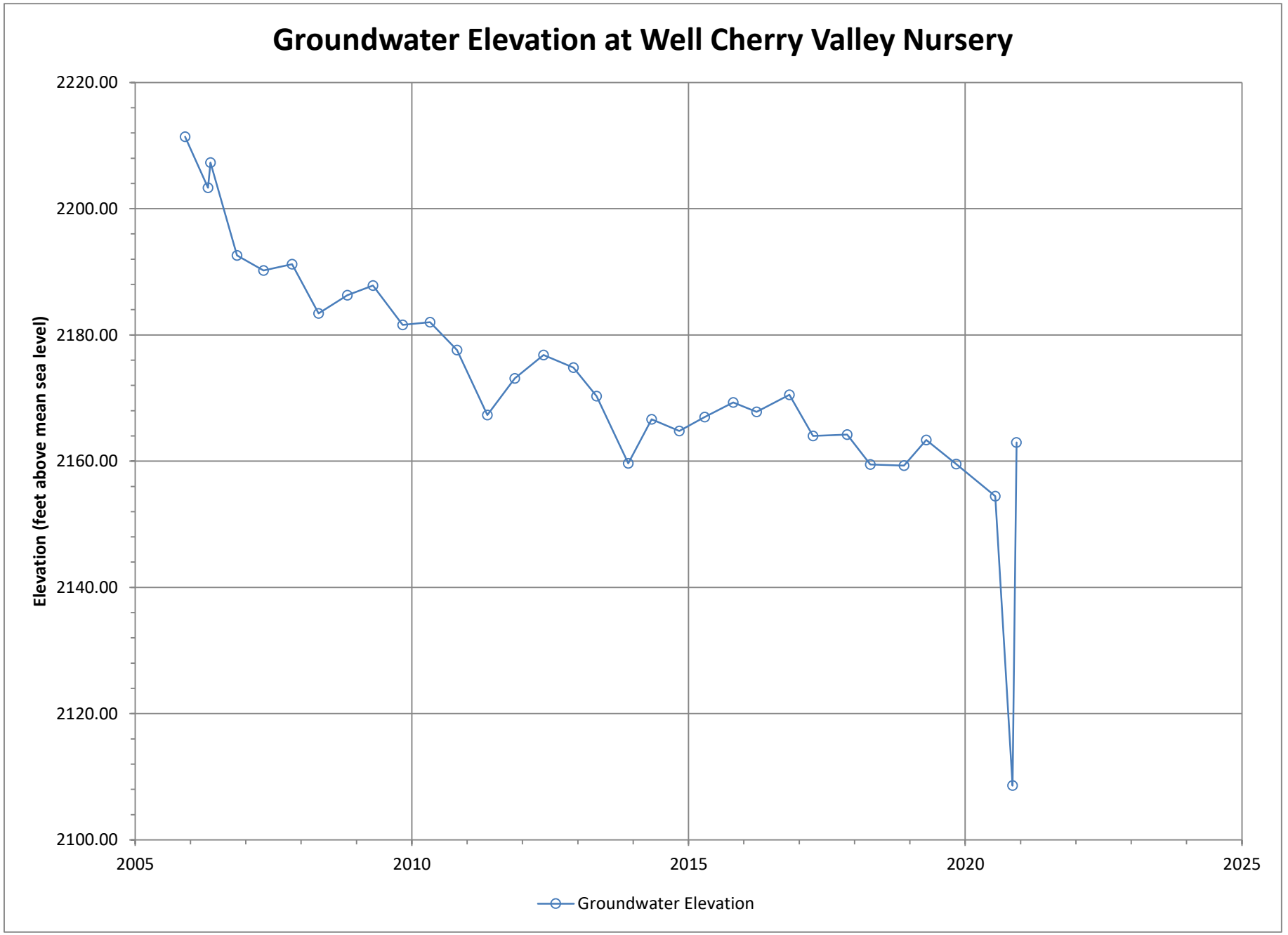
Groundwater Elevation at Well Cherry Valley Nursery
Elevation (feet above mean sea level)
2220.00
2200.00
2180.00
2160.00
2140.00
2120.00
2100.00
2005
2010
2015
2020
2025
Groundwater Elevation

Figure M-32

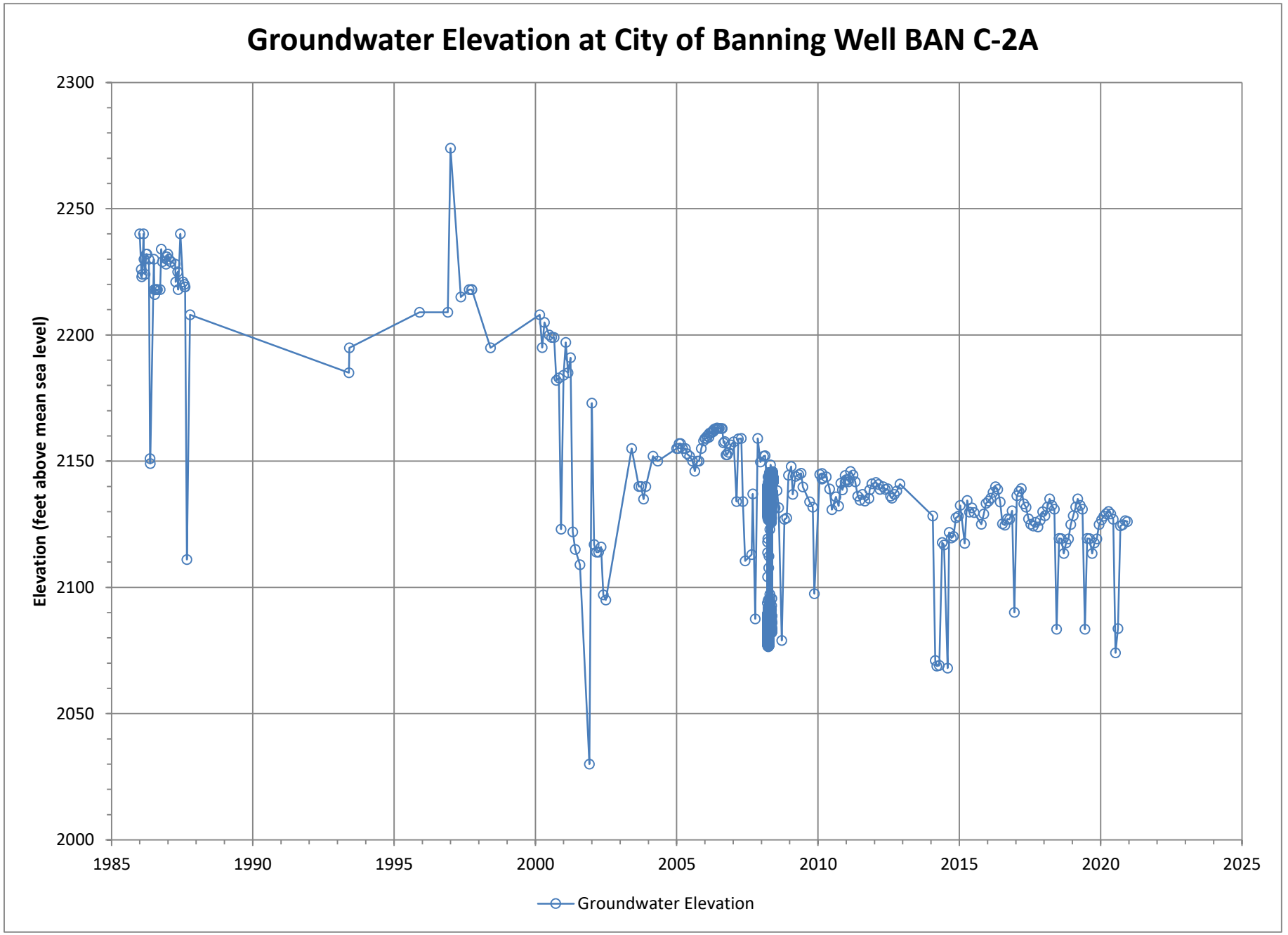
Groundwater Elevation at City of Banning Well BAN C-2A
Elevation (feet above mean sea level)
2300
2250
2200
2150
2100
2050
2000
1985
1990
1995
2000
2005
2010
2015
2020
2025
Groundwater Elevation

Figure M-33

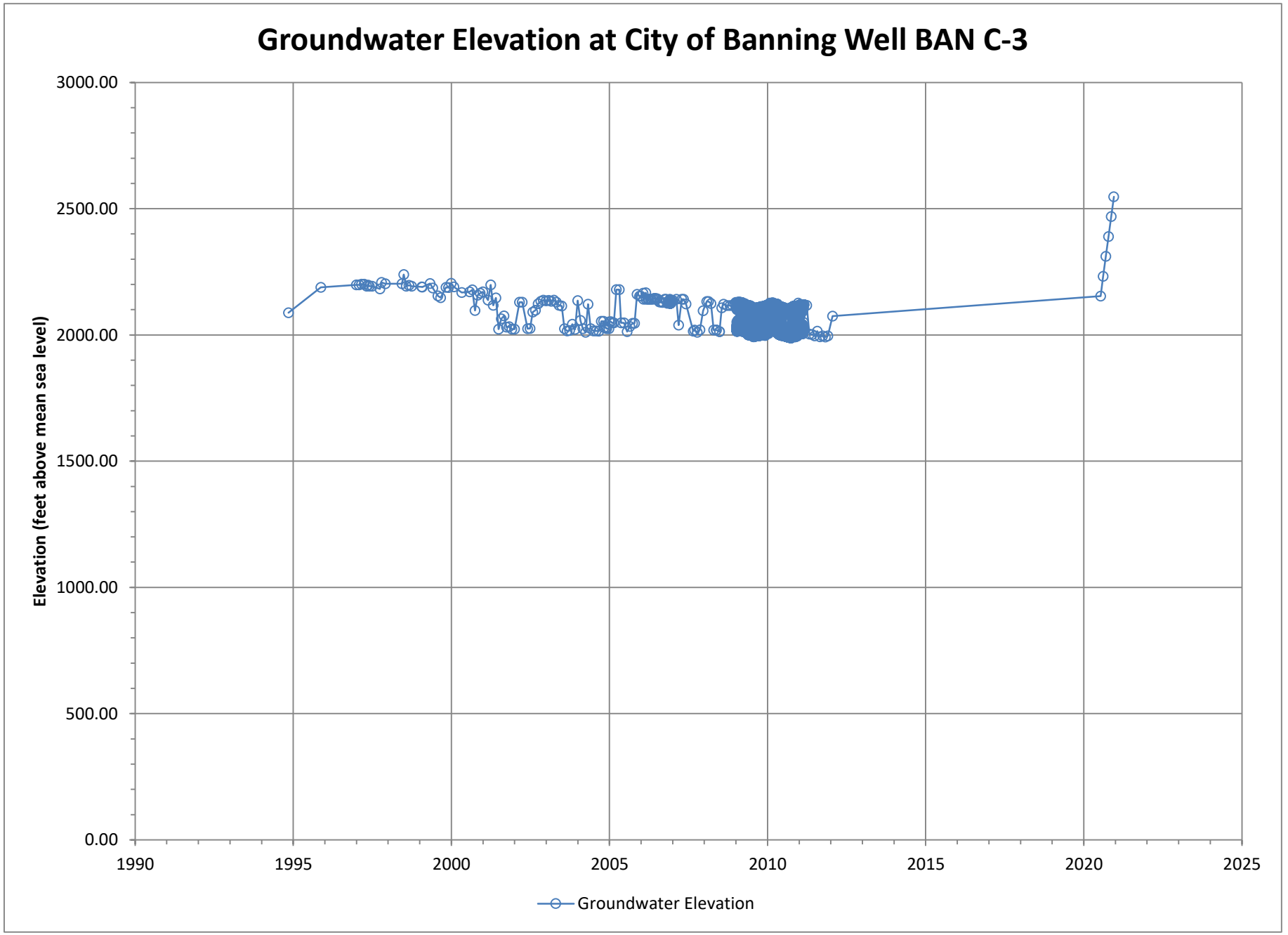
Groundwater Elevation at City of Banning Well BAN C-3
Elevation (feet above mean sea level)
3000.00
2500.00
2000.00
1500.00
1000.00
500.00
0.00
1990
1995
2000
2005
2010
2015
2020
2025
Groundwater Elevation

Figure M-34

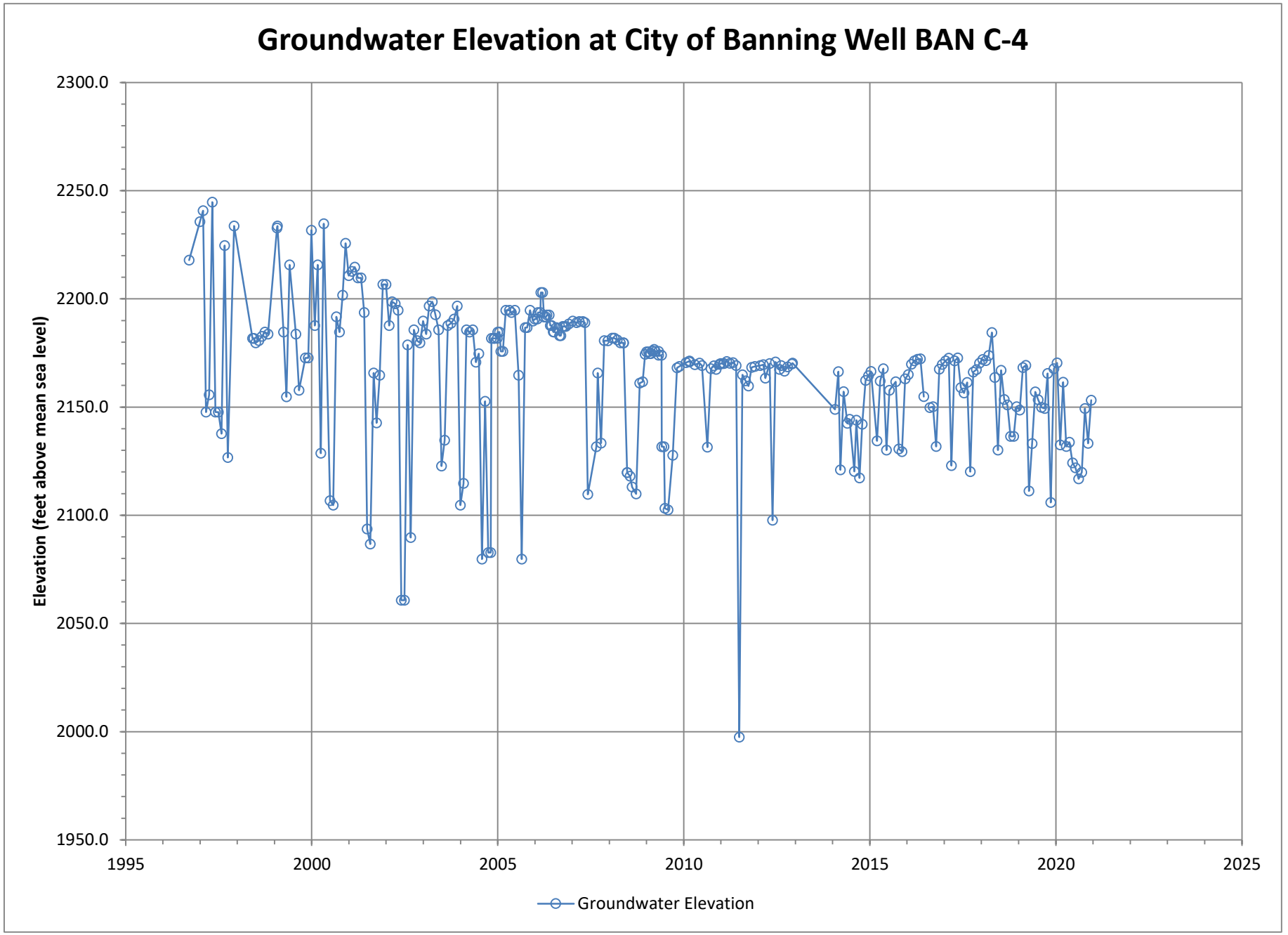
Groundwater Elevation at City of Banning Well BAN C-4
Elevation (feet above mean sea level)
2300.0
2250.0
2200.0
2150.0
2100.0
2050.0
2000.0
1950.0
1995
2000
2005
2010
2015
2020
2025
Groundwater Elevation

Figure M-35

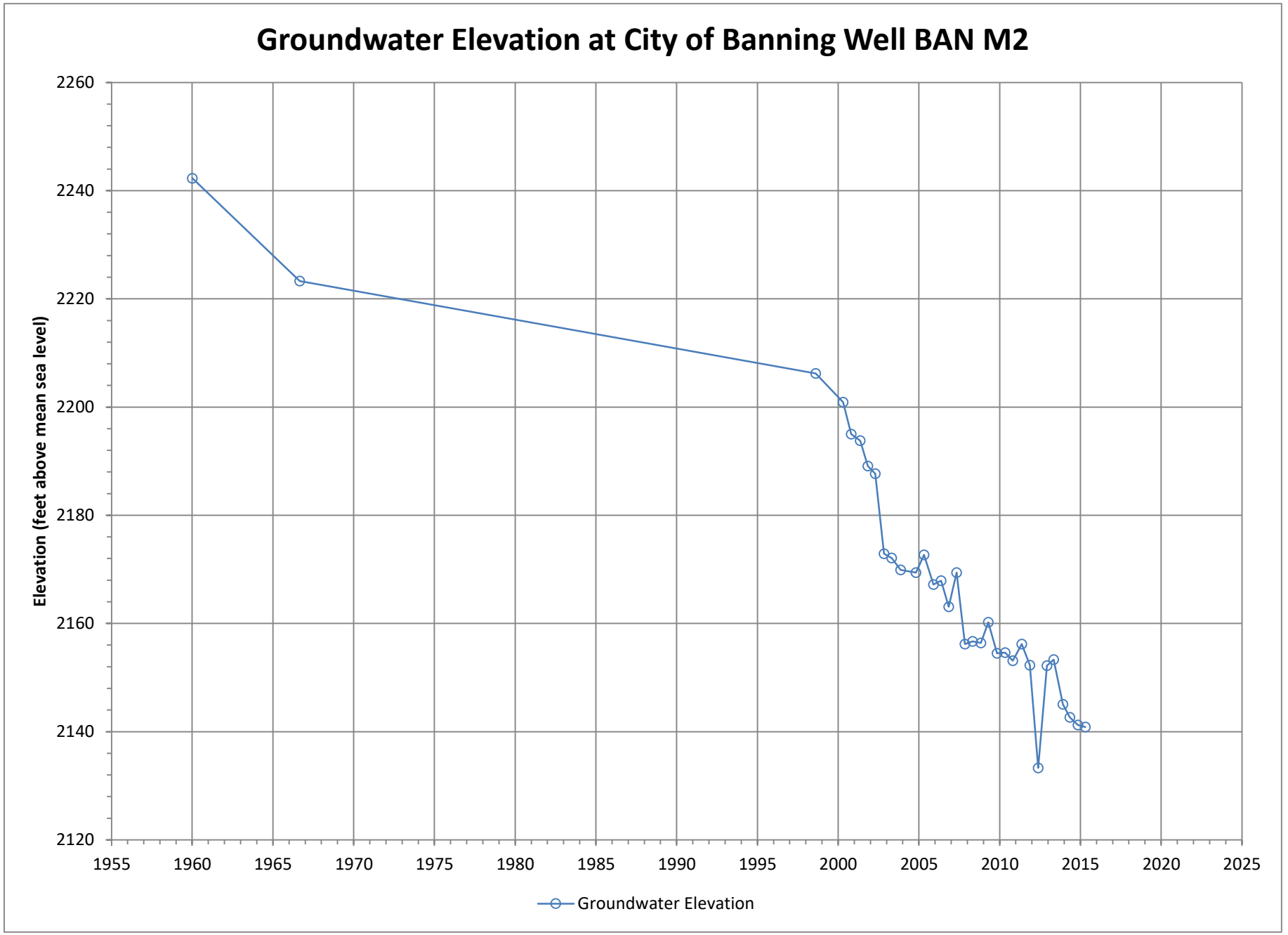
Groundwater Elevation at City of Banning Well BAN M2
Elevation (feet above mean sea level)
2260
2240
2220
2200
2180
2160
2140
2120
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
2005
2010
2015
2020
2025
Groundwater Elevation

Figure M-36

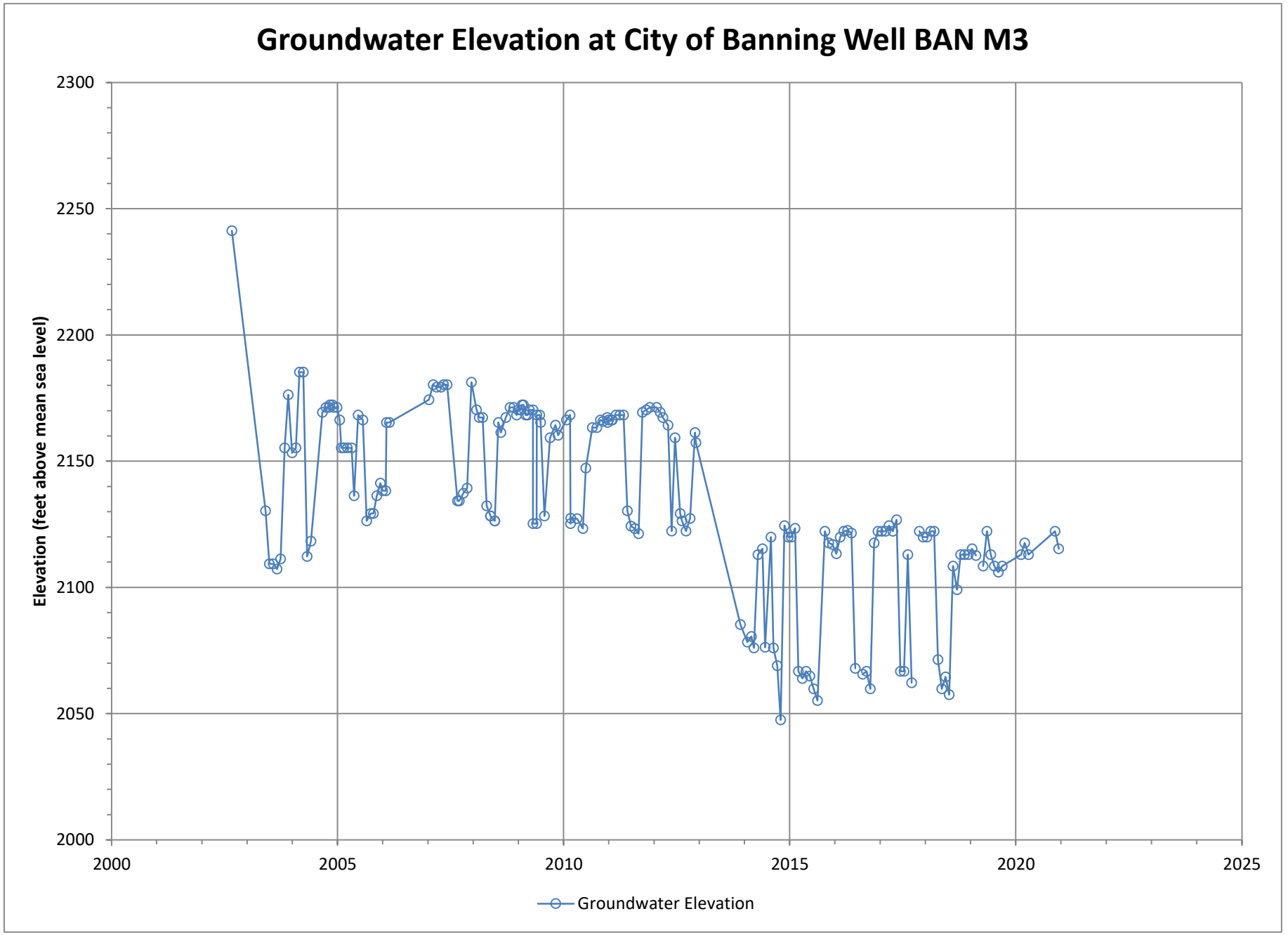
Groundwater Elevation at City of Banning Well BAN M3
Elevation (feet above mean sea level)
2300
2250
2200
2150
2100
2050
2000
2000
2005
2010
2015
2020
2025
Groundwater Elevation

Figure M-37

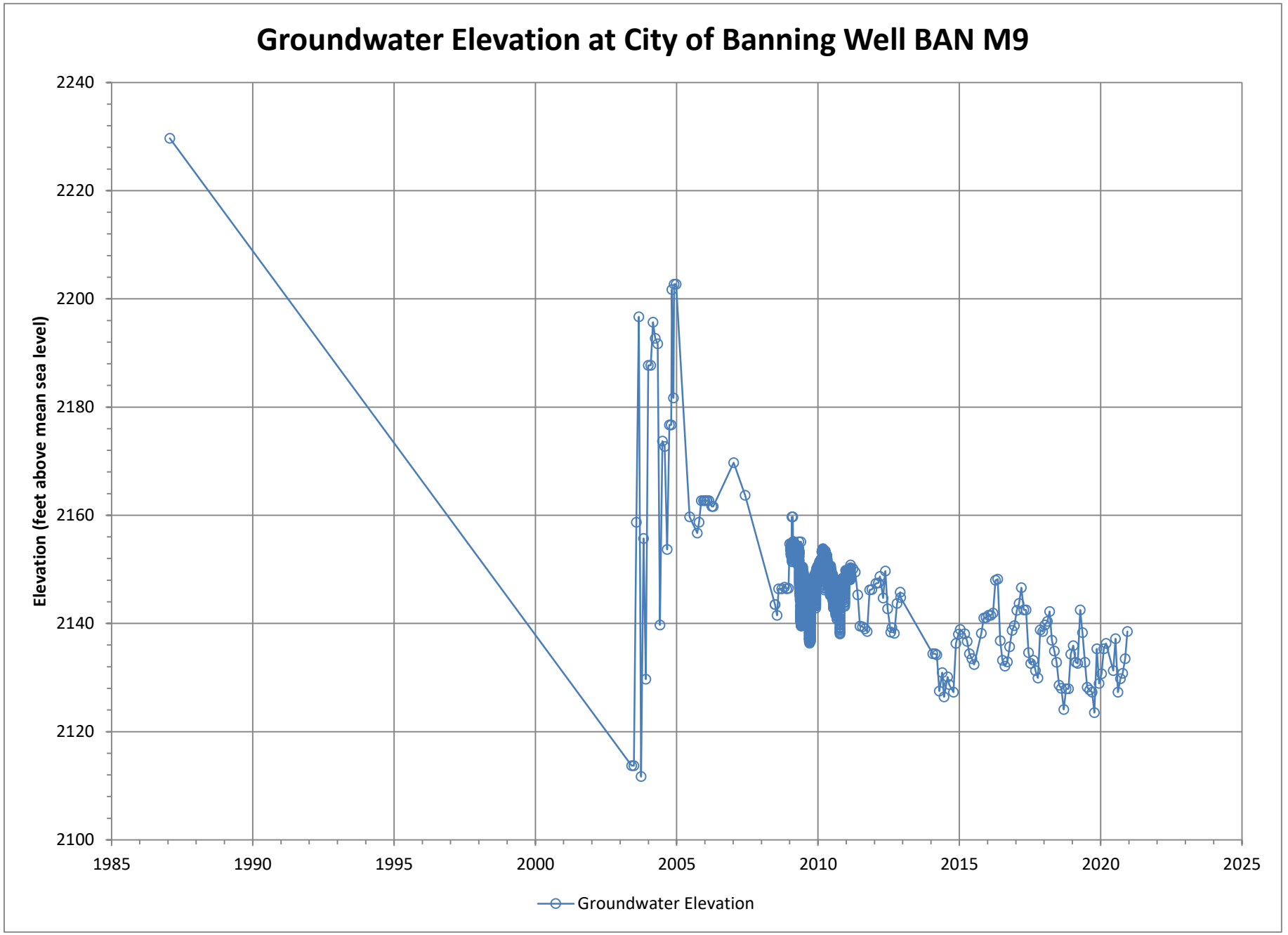
Groundwater Elevation at City of Banning Well BAN M9
Elevation (feet above mean sea level)
2240
2220
2200
2180
2160
2140
2120
2100
1985
1990
1995
2000
2005
2010
2015
2020
2025
Groundwater Elevation

Figure M-38

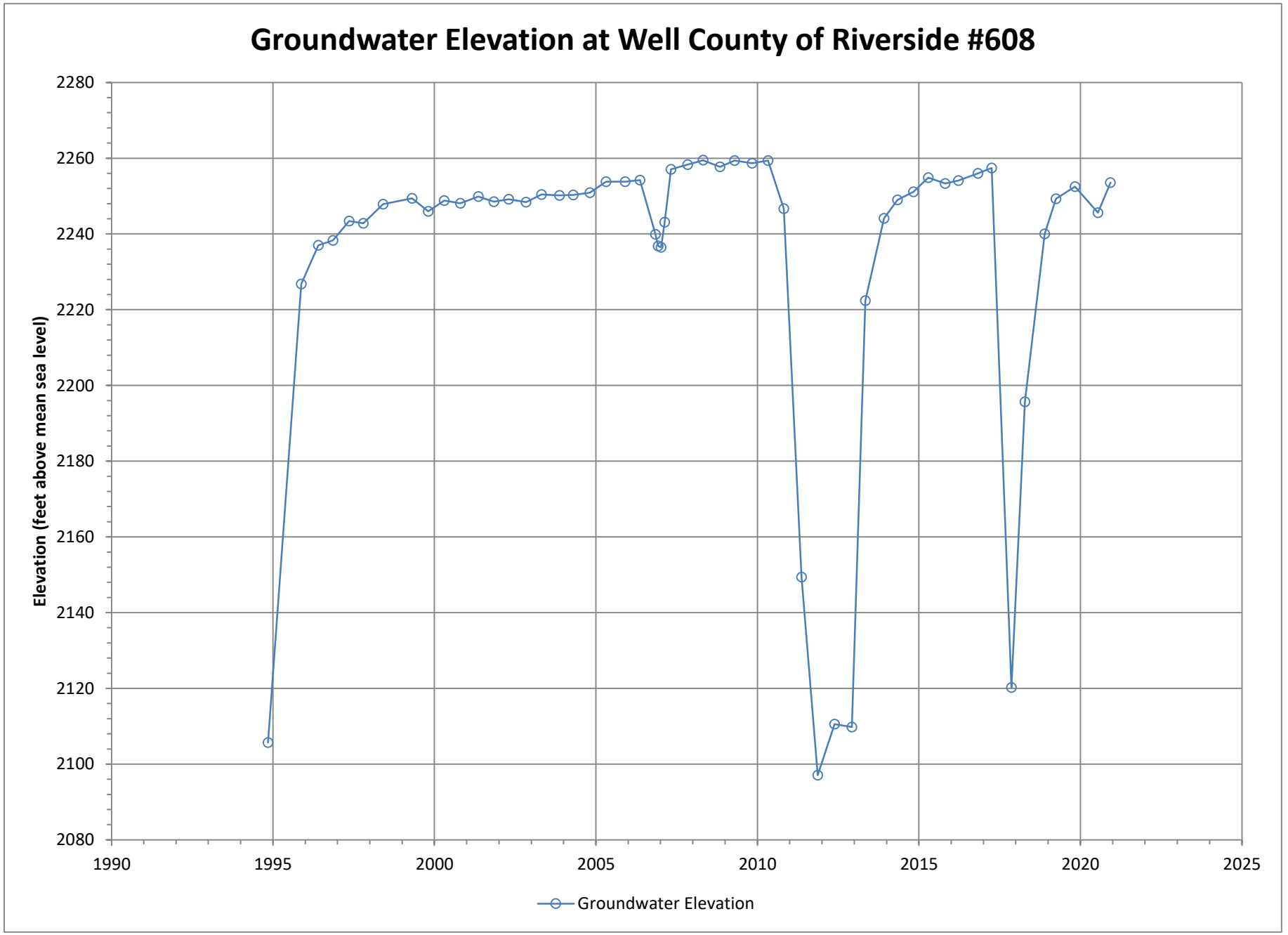
Groundwater Elevation at Well County of Riverside #608
Elevation (feet above mean sea level)
2280
2260
2240
2220
2200
2180
2160
2140
2120
2100
2080
1990
1995
2000
2005
2010
2015
2020
2025
Groundwater Elevation

Figure M-39

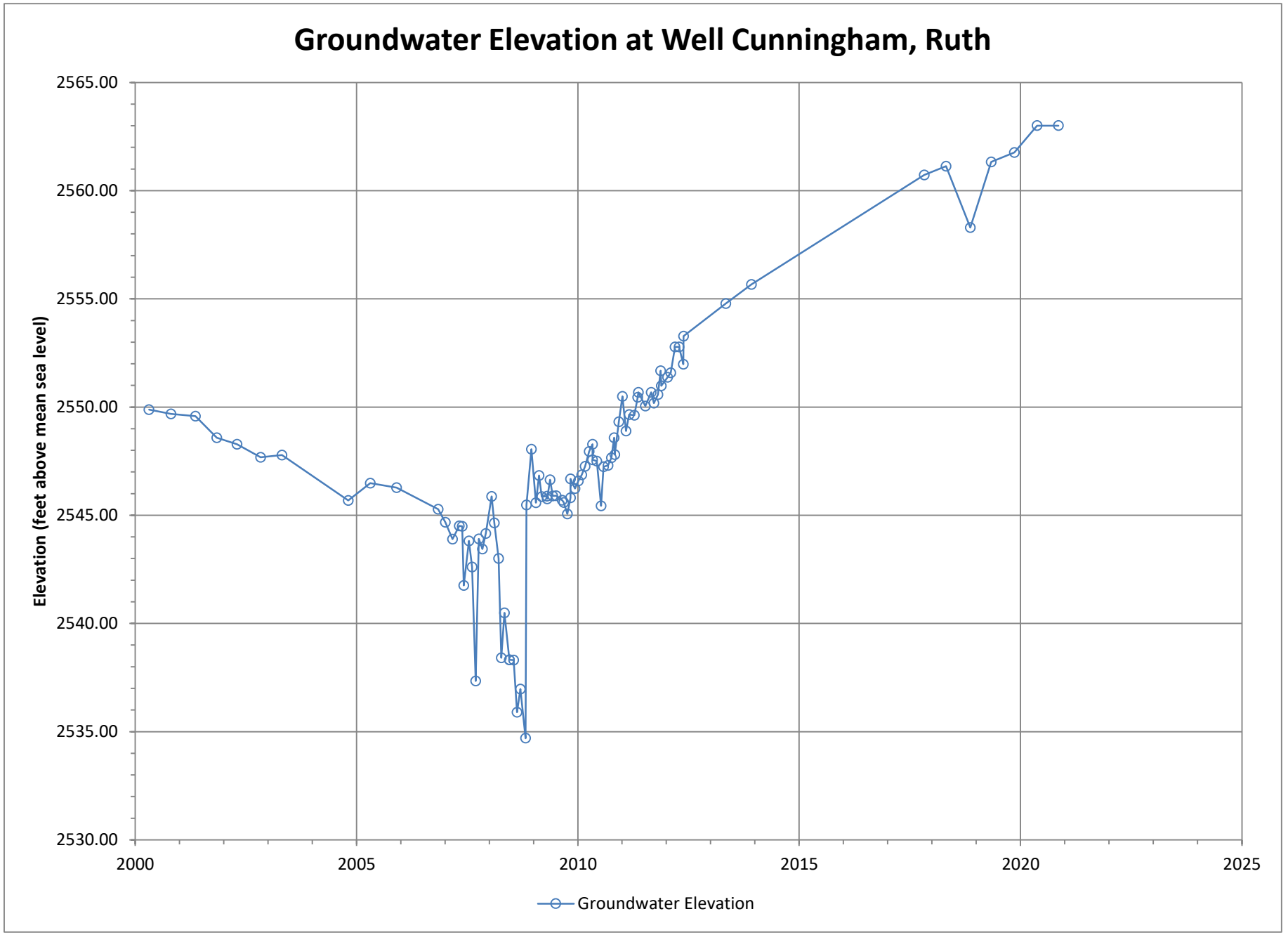
Groundwater Elevation at Well Cunningham, Ruth
Elevation (feet above mean sea level)
2565.00
2560.00
2555.00
2550.00
2545.00
2540.00
2535.00
2530.00
2000
2005
2010
2015
2020
2025
Groundwater Elevation

Figure M-40

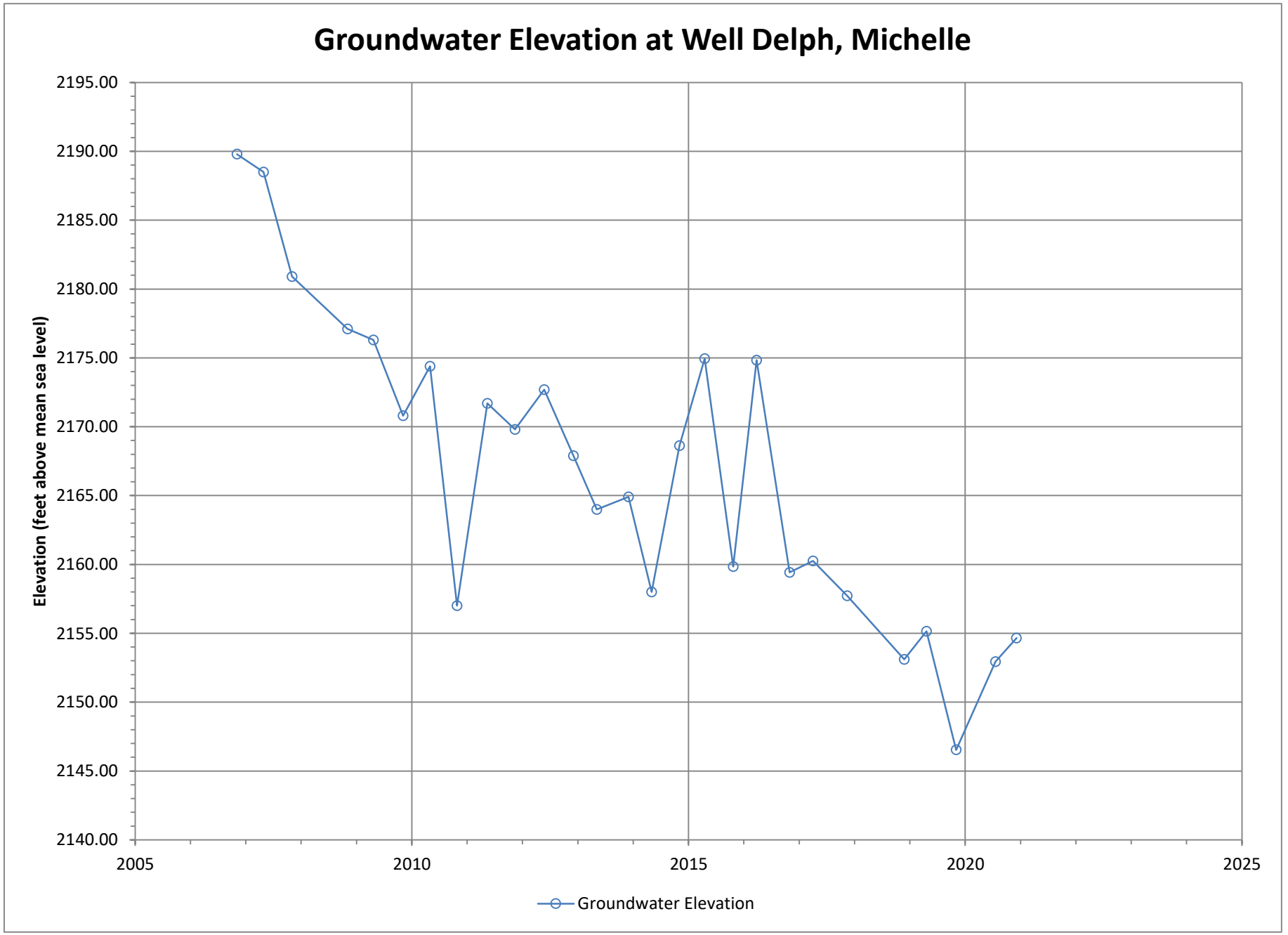
Groundwater Elevation at Well Delph, Michelle
Elevation (feet above mean sea level)
2195.00
2190.00
2185.00
2180.00
2175.00
2170.00
2165.00
2160.00
2155.00
2150.00
2145.00
2140.00
2005
2010
2015
2020
2025
Groundwater Elevation

Figure M-41

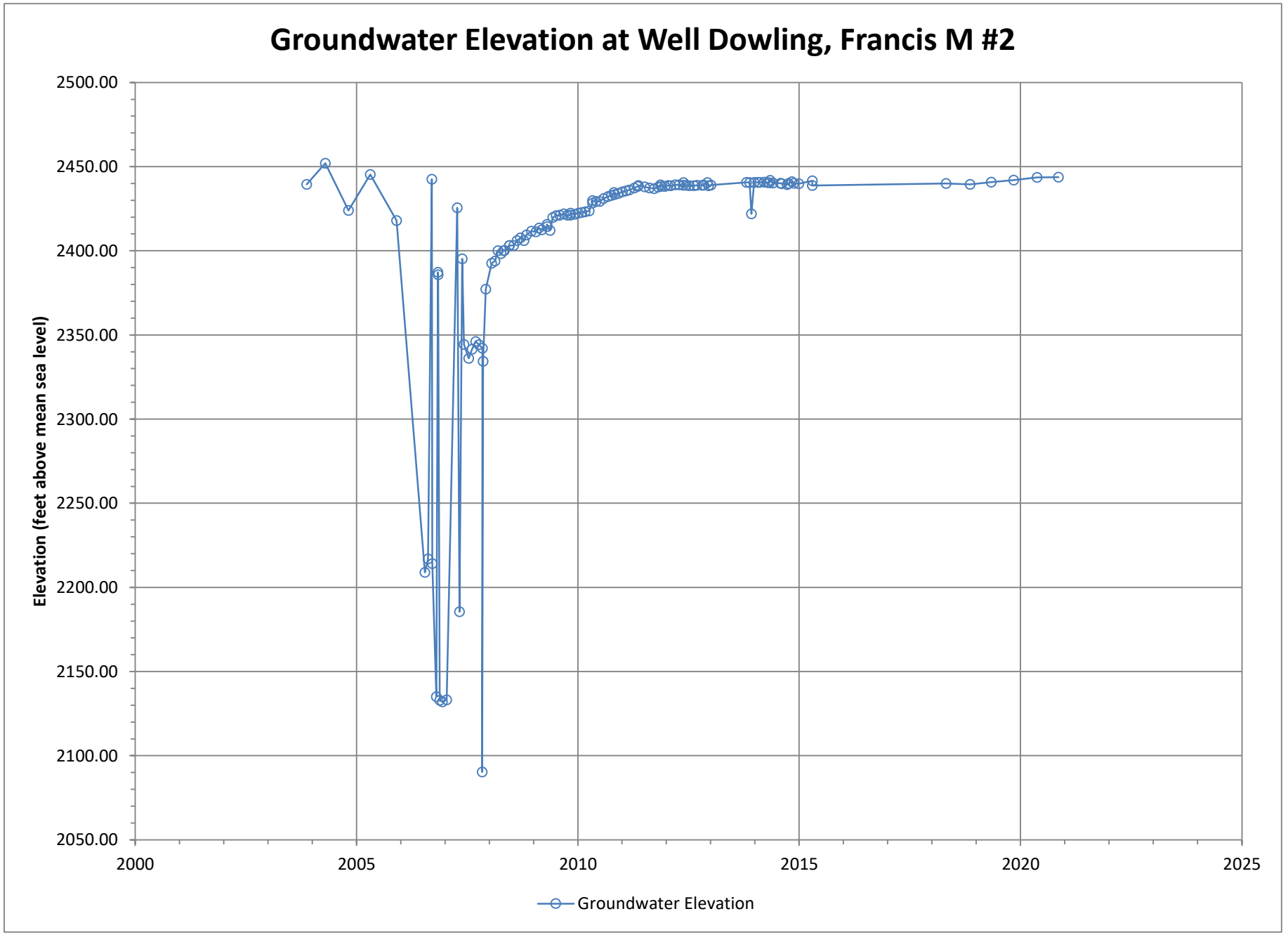
Groundwater Elevation at Well Dowling, Francis M #2
Elevation (feet above mean sea level)
2500.00
2450.00
2400.00
2350.00
2300.00
2250.00
2200.00
2150.00
2100.00
2050.00
2000
2005
2010
2015
2020
2025
Groundwater Elevation

Figure M-42

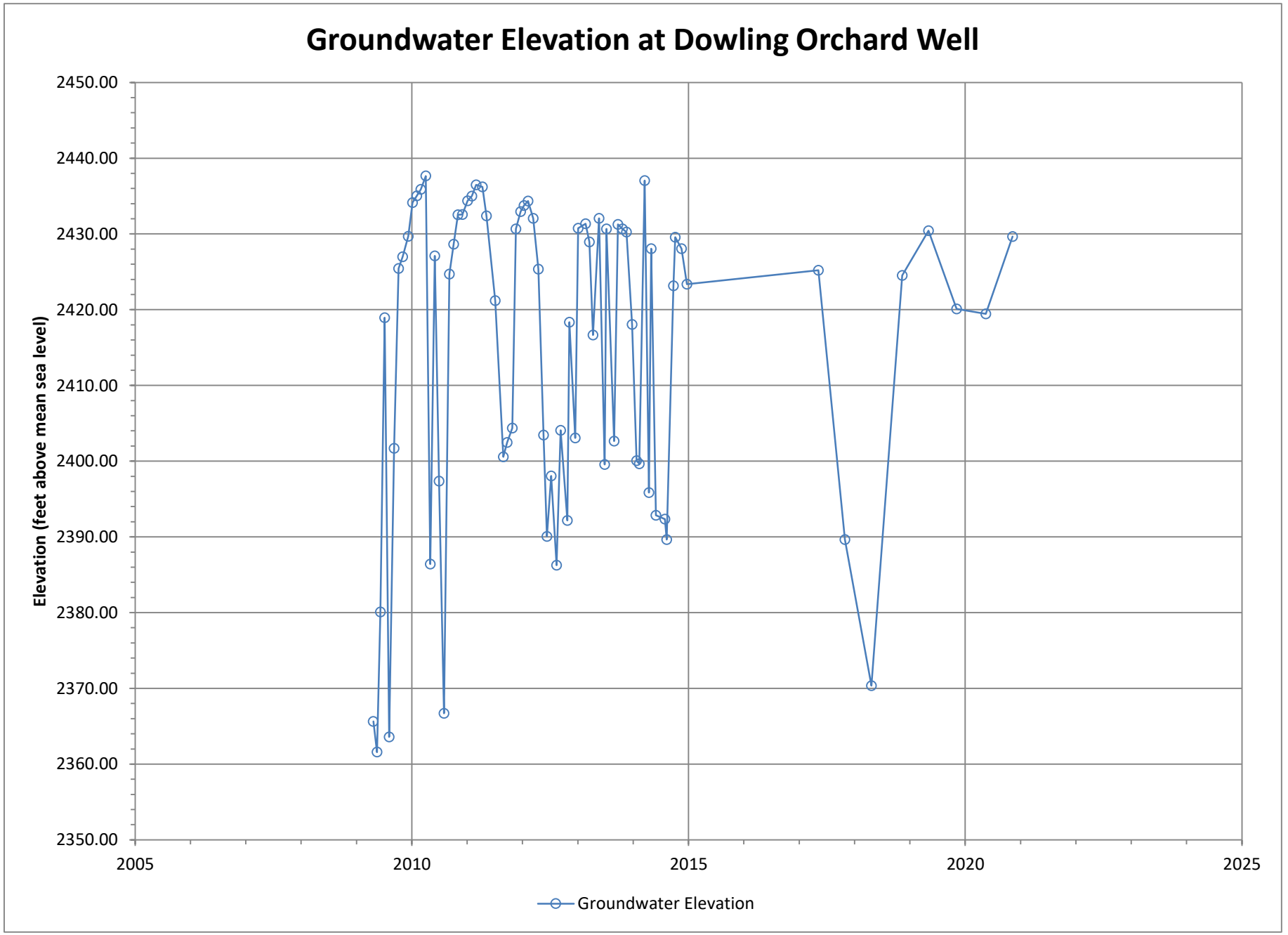
Groundwater Elevation at Dowling Orchard Well
Elevation (feet above mean sea level)
2450.00
2440.00
2430.00
2420.00
2410.00
2400.00
2390.00
2380.00
2370.00
2360.00
2350.00
2005
2010
2015
2020
2025
Groundwater Elevation

Figure M-43

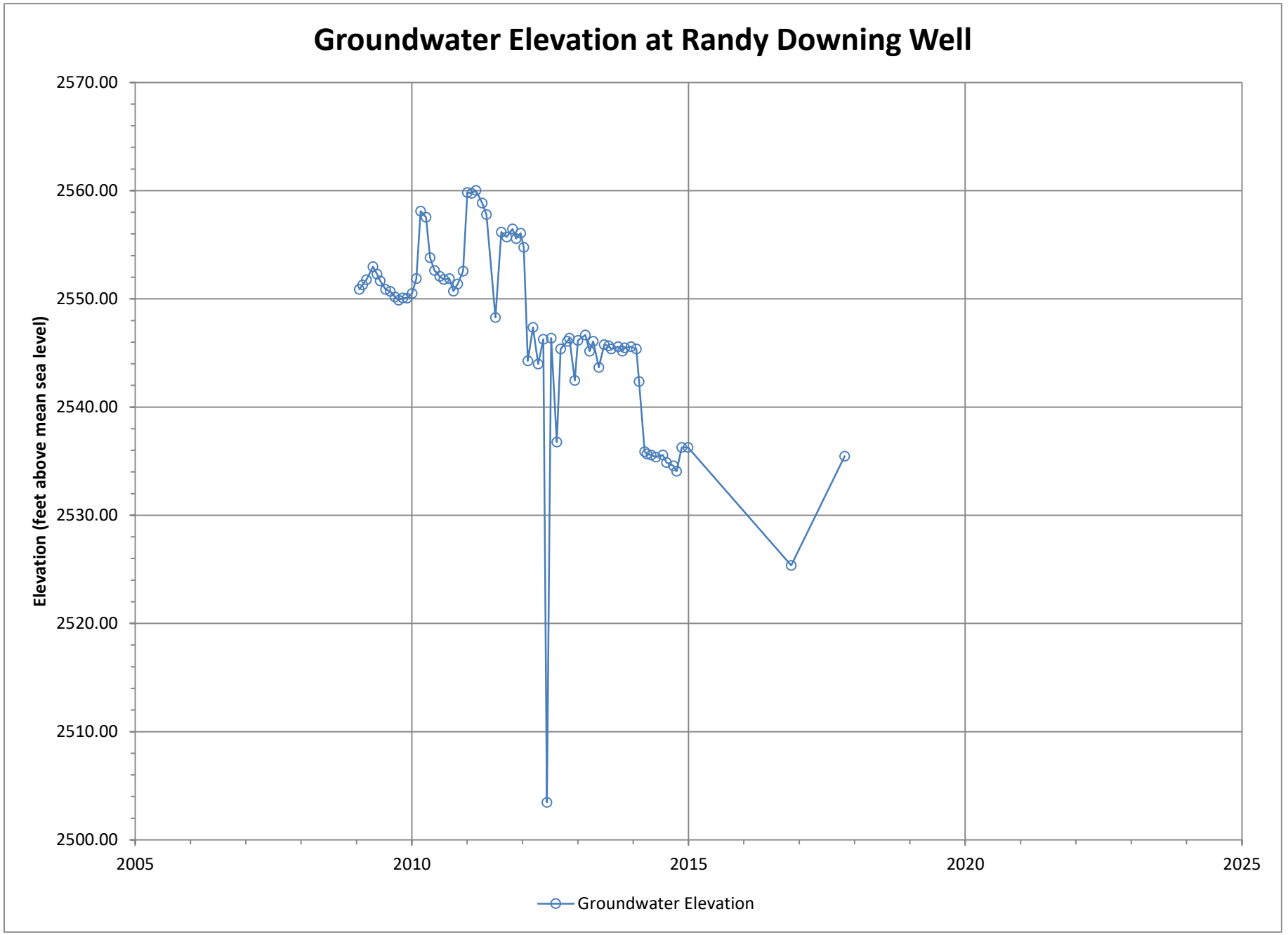
Groundwater Elevation at Randy Downing Well
Elevation (feet above mean sea level)
2570.00
2560.00
2550.00
2540.00
2530.00
2520.00
2510.00
2500.00
2005
2010
2015
2020
2025
Groundwater Elevation

Figure M-44

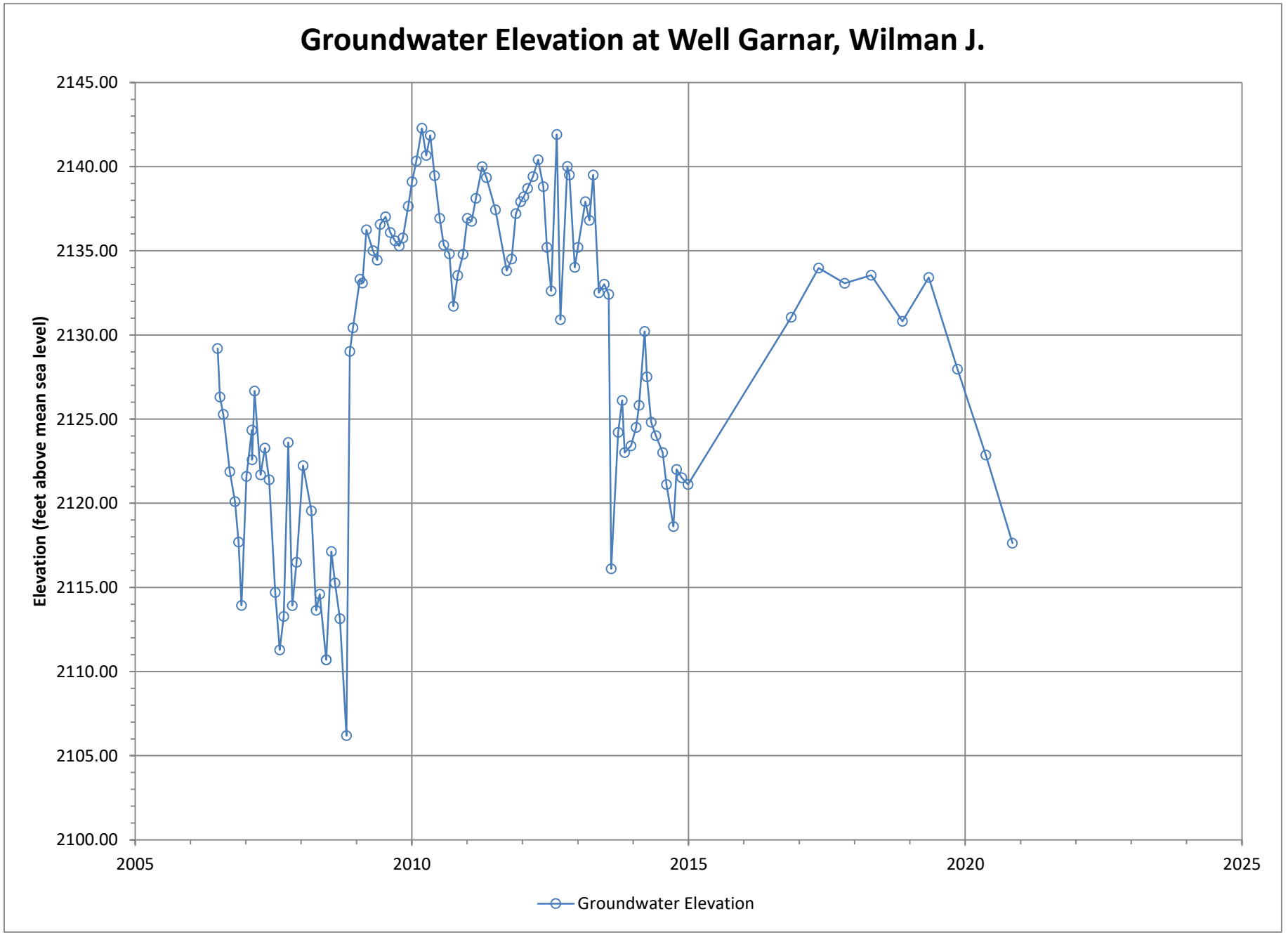
Groundwater Elevation at Well Garnar, Wilman J.
Elevation (feet above mean sea level)
2145.00
2140.00
2135.00
2130.00
2125.00
2120.00
2115.00
2110.00
2105.00
2100.00
2005
2010
2015
2020
2025
Groundwater Elevation

Figure M-45

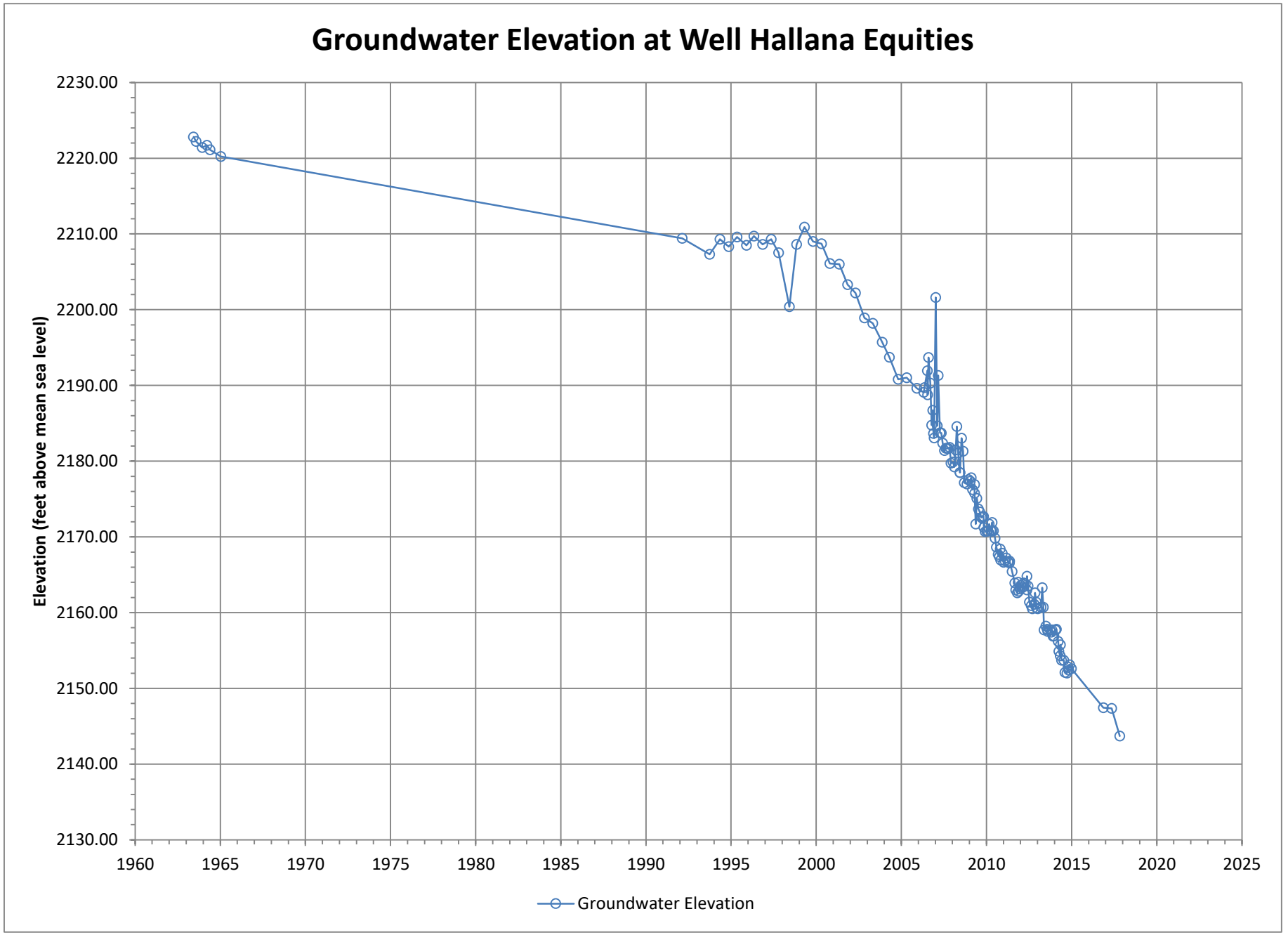
Groundwater Elevation at Well Hallana Equities
Elevation (feet above mean sea level)
2230.00
2220.00
2210.00
2200.00
2190.00
2180.00
2170.00
2160.00
2150.00
2140.00
2130.00
1960
1965
1970
1975
1980
1985
1990
1995
2000
2005
2010
2015
2020
2025
Groundwater Elevation

Figure M-46

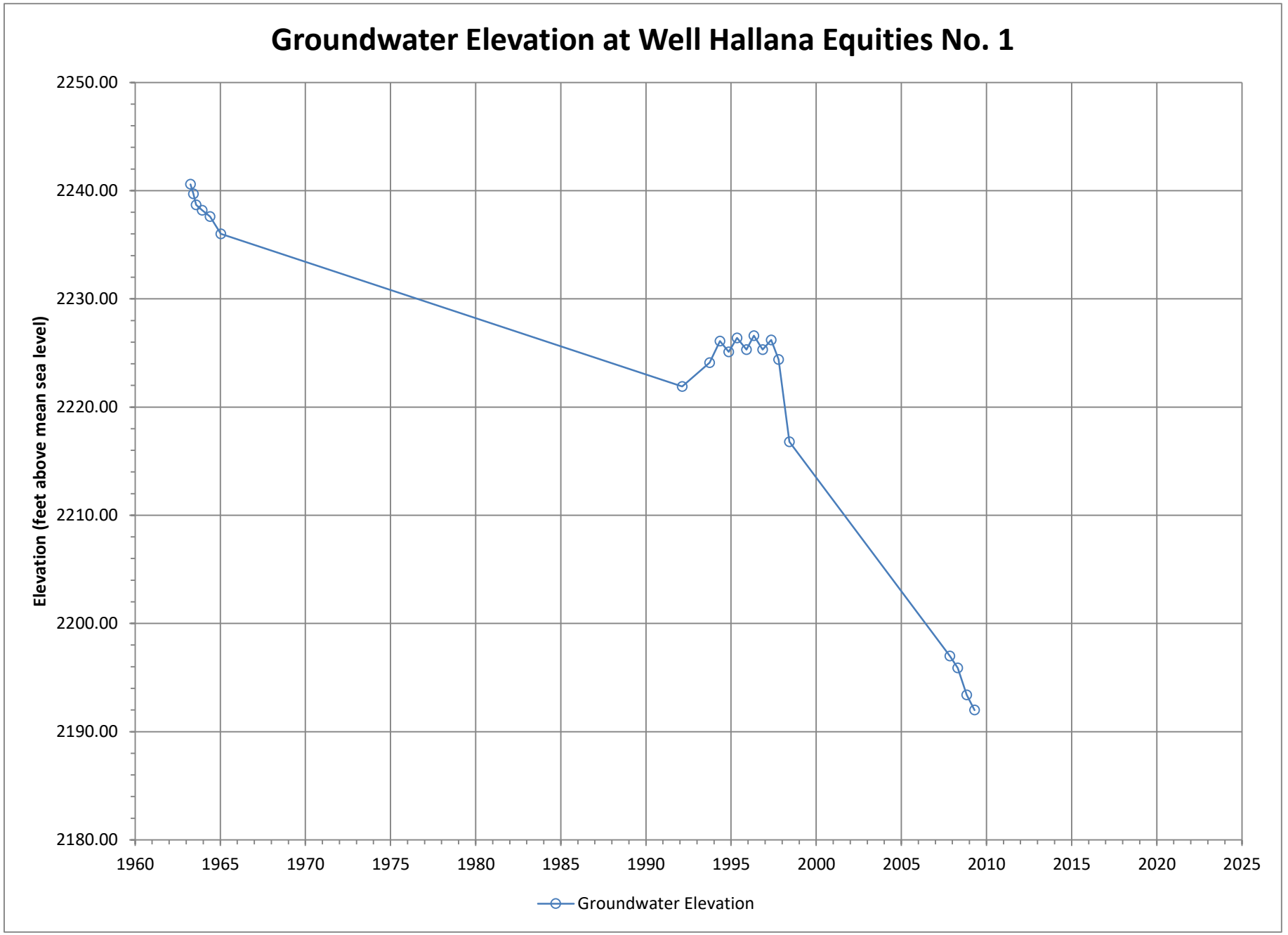
Groundwater Elevation at Well Hallana Equities No. 1
Elevation (feet above mean sea level)
2250.00
2240.00
2230.00
2220.00
2210.00
2200.00
2190.00
2180.00
1960
1965
1970
1975
1980
1985
1990
1995
2000
2005
2010
2015
2020
2025
Groundwater Elevation

Figure M-47

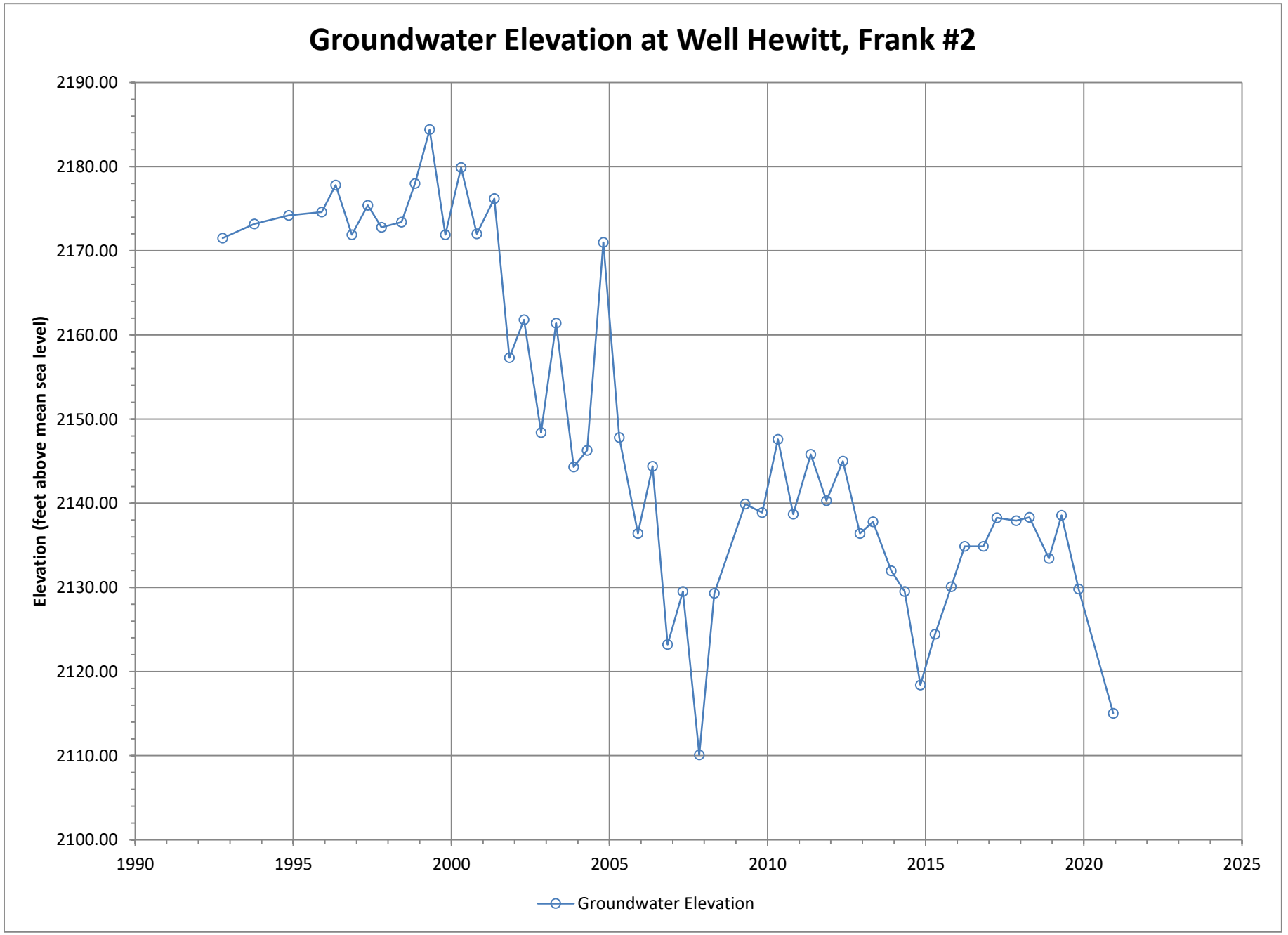
Groundwater Elevation at Well Hewitt, Frank #2
Elevation (feet above mean sea level)
2190.00
2180.00
2170.00
2160.00
2150.00
2140.00
2130.00
2120.00
2110.00
2100.00
1990
1995
2000
2005
2010
2015
2020
2025
Groundwater Elevation

Figure M-48

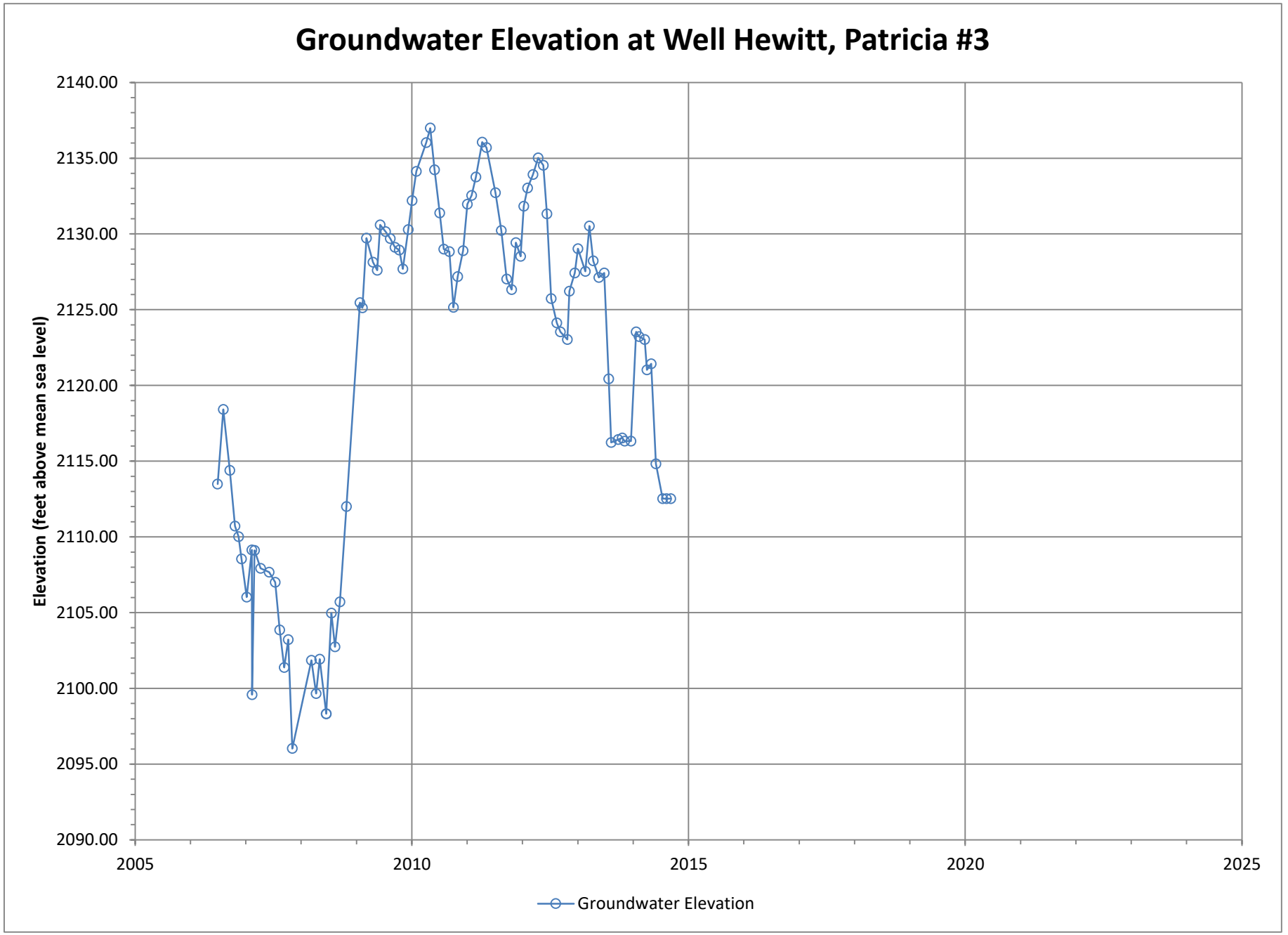
Groundwater Elevation at Well Hewitt, Patricia #3
Elevation (feet above mean sea level)
2140.00
2135.00
2130.00
2125.00
2120.00
2115.00
2110.00
2105.00
2100.00
2095.00
2090.00
2005
2010
2015
2020
2025
Groundwater Elevation

Figure M-49

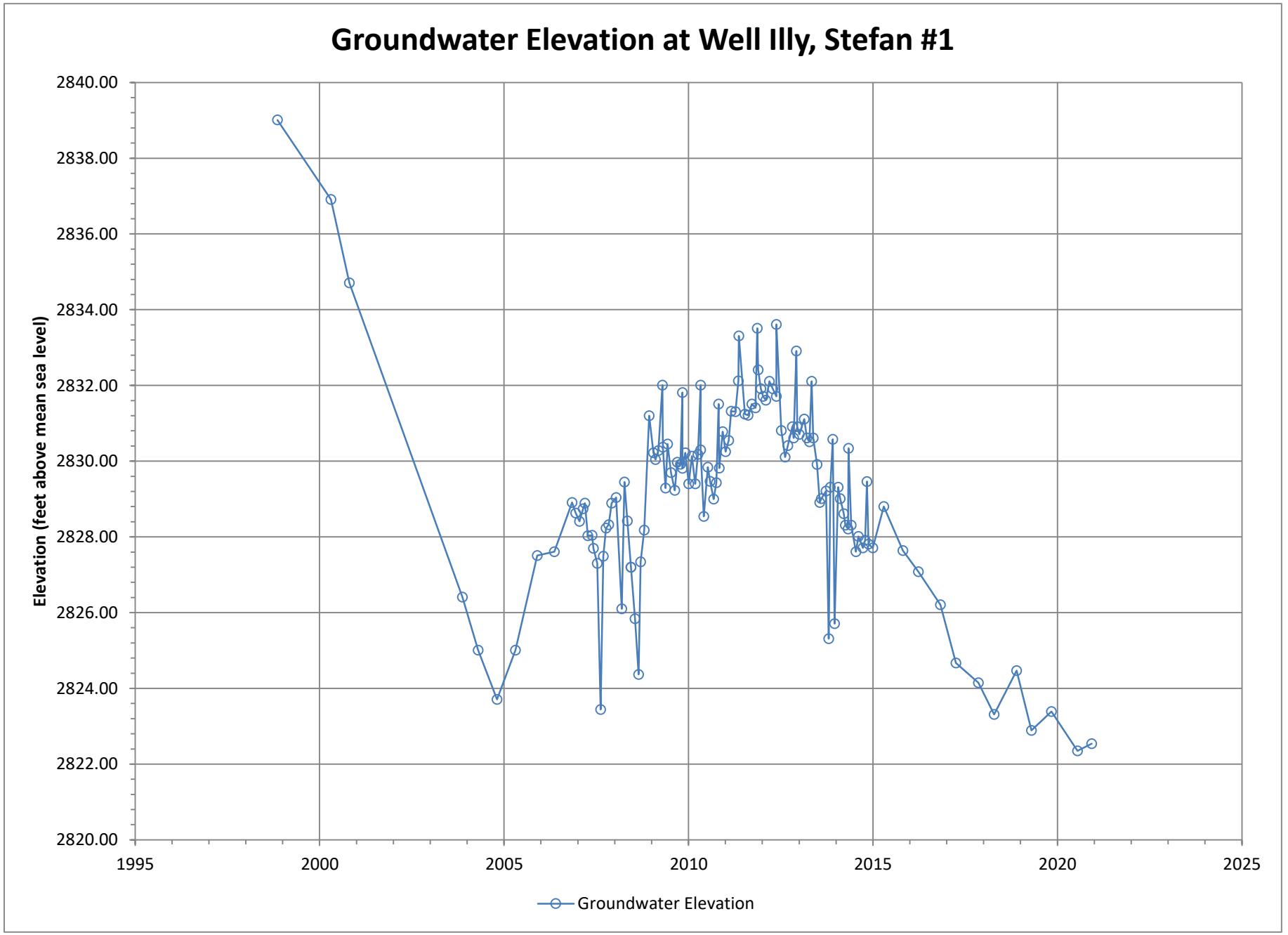
Groundwater Elevation at Well Illy, Stefan #1
Elevation (feet above mean sea level)
2840.00
2838.00
2836.00
2834.00
2832.00
2830.00
2828.00
2826.00
2824.00
2822.00
2820.00
1995
2000
2005
2010
2015
2020
2025
Groundwater Elevation

Figure M-50

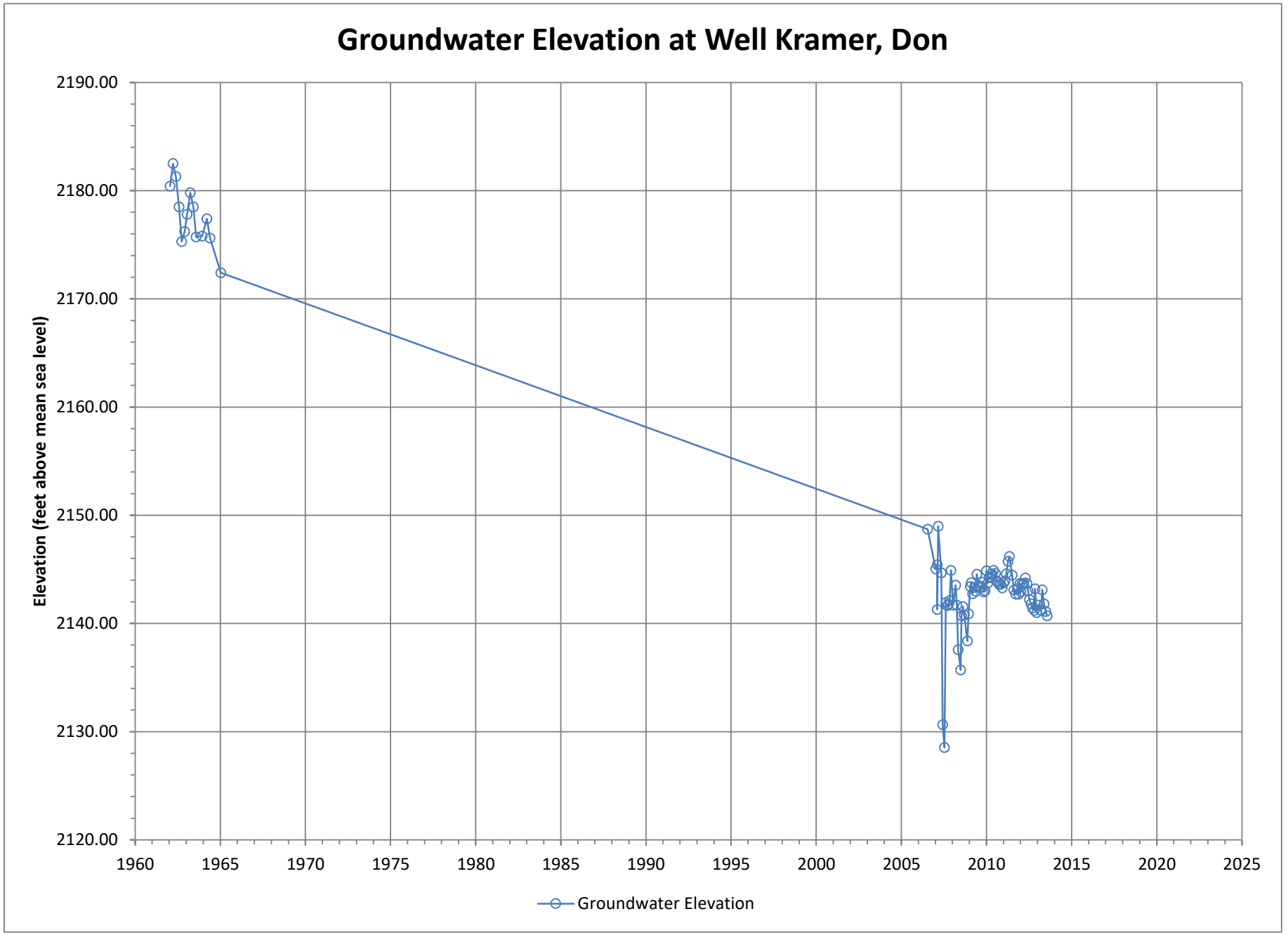
Groundwater Elevation at Well Kramer, Don
Elevation (feet above mean sea level)
2190.00
2180.00
2170.00
2160.00
2150.00
2140.00
2130.00
2120.00
1960
1965
1970
1975
1980
1985
1990
1995
2000
2005
2010
2015
2020
2025
Groundwater Elevation

Figure M-51

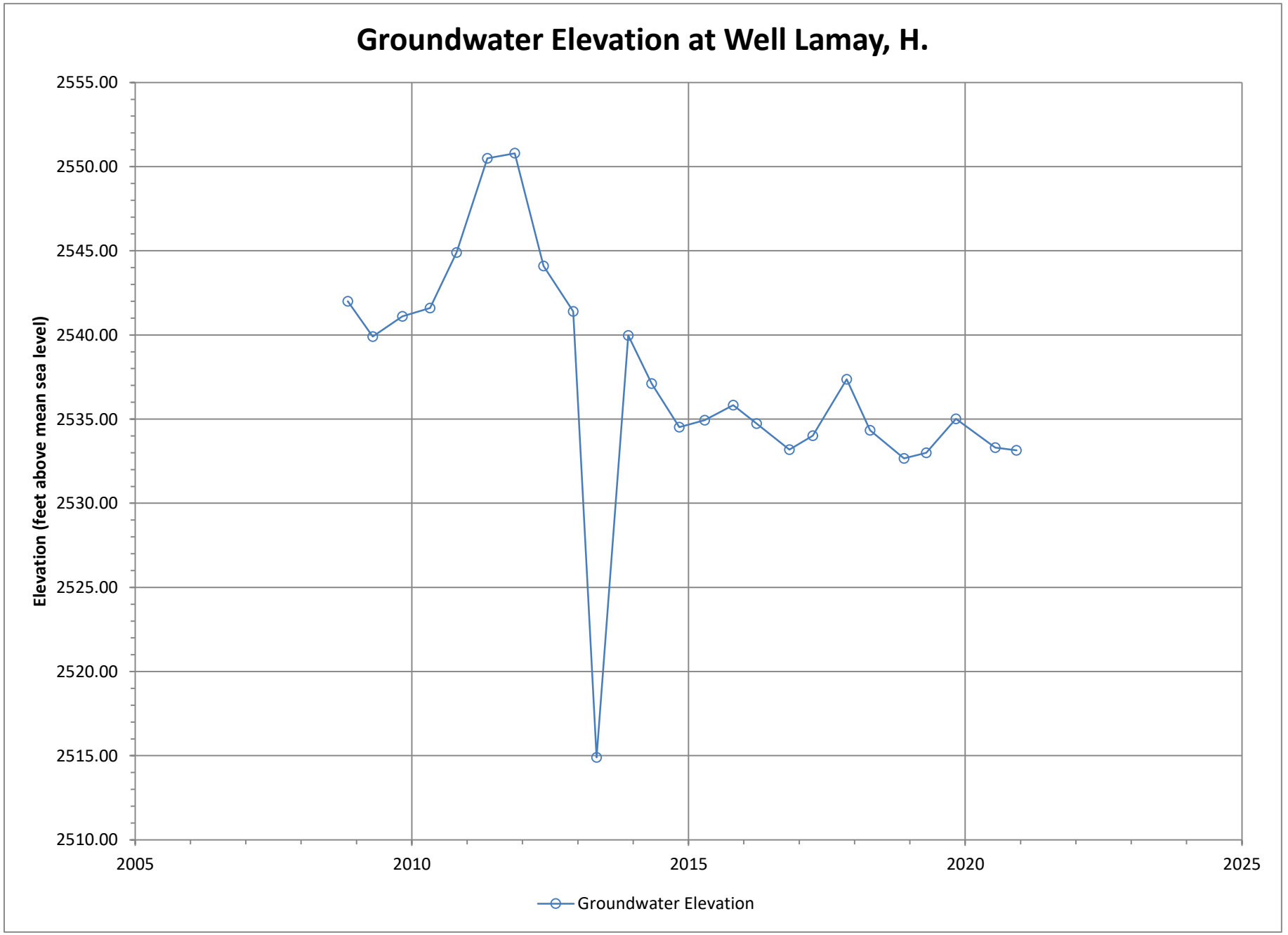
Groundwater Elevation at Well Lamay, H.
Elevation (feet above mean sea level)
2555.00
2550.00
2545.00
2540.00
2535.00
2530.00
2525.00
2520.00
2515.00
2510.00
2005
2010
2015
2020
2025
Groundwater Elevation

Figure M-52

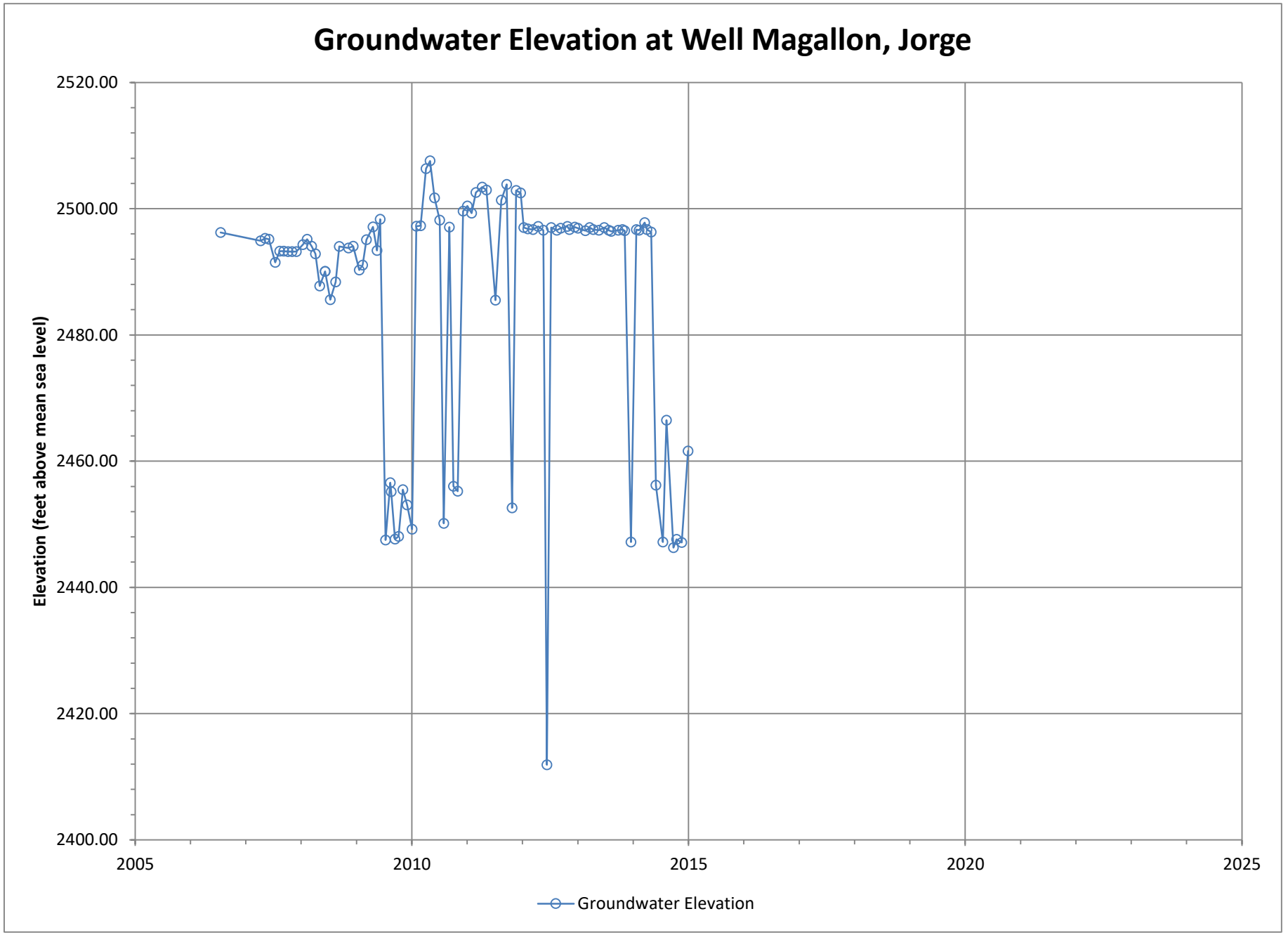
Groundwater Elevation at Well Magallon, Jorge
Elevation (feet above mean sea level)
2520.00
2500.00
2480.00
2460.00
2440.00
2420.00
2400.00
2005
2010
2015
2020
2025
Groundwater Elevation

Figure M-53

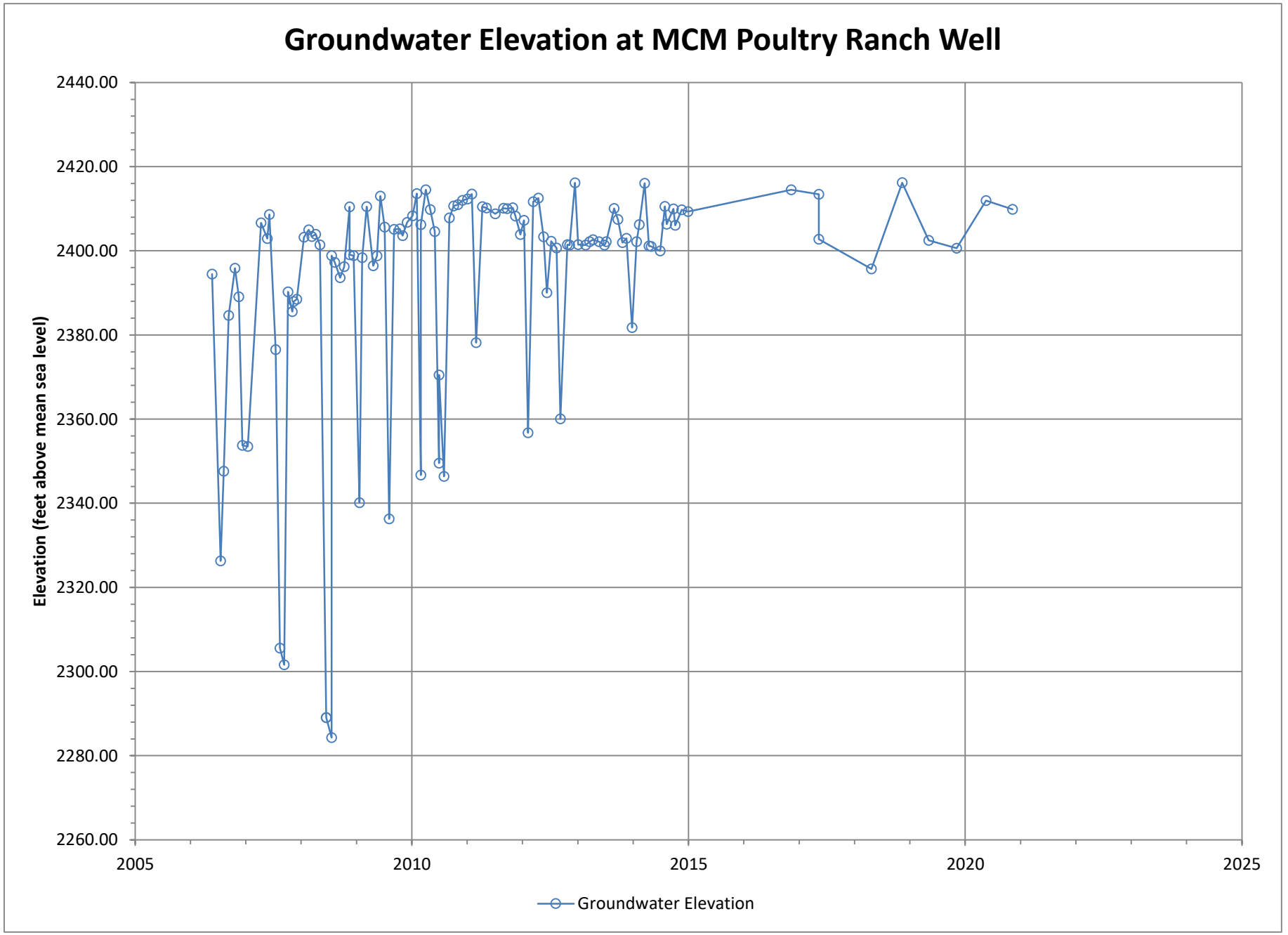
Groundwater Elevation at MCM Poultry Ranch Well
Elevation (feet above mean sea level)
2440.00
2420.00
2400.00
2380.00
2360.00
2340.00
2320.00
2300.00
2280.00
2260.00
2005
2010
2015
2020
2025
Groundwater Elevation

Figure M-54

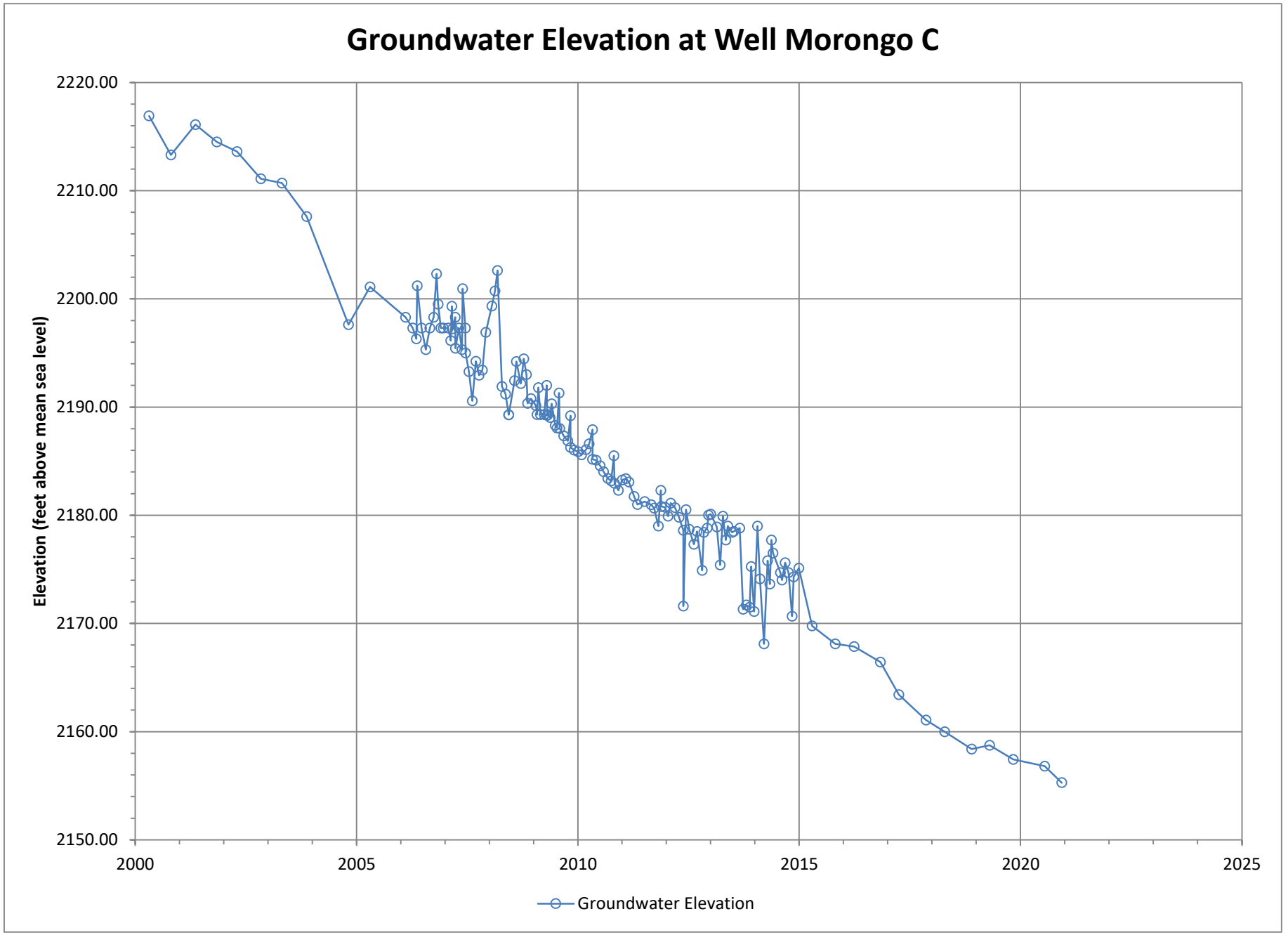
Groundwater Elevation at Well Morongo C
Elevation (feet above mean sea level)
2220.00
2210.00
2200.00
2190.00
2180.00
2170.00
2160.00
2150.00
2000
2005
2010
2015
2020
2025
Groundwater Elevation

Figure M-55

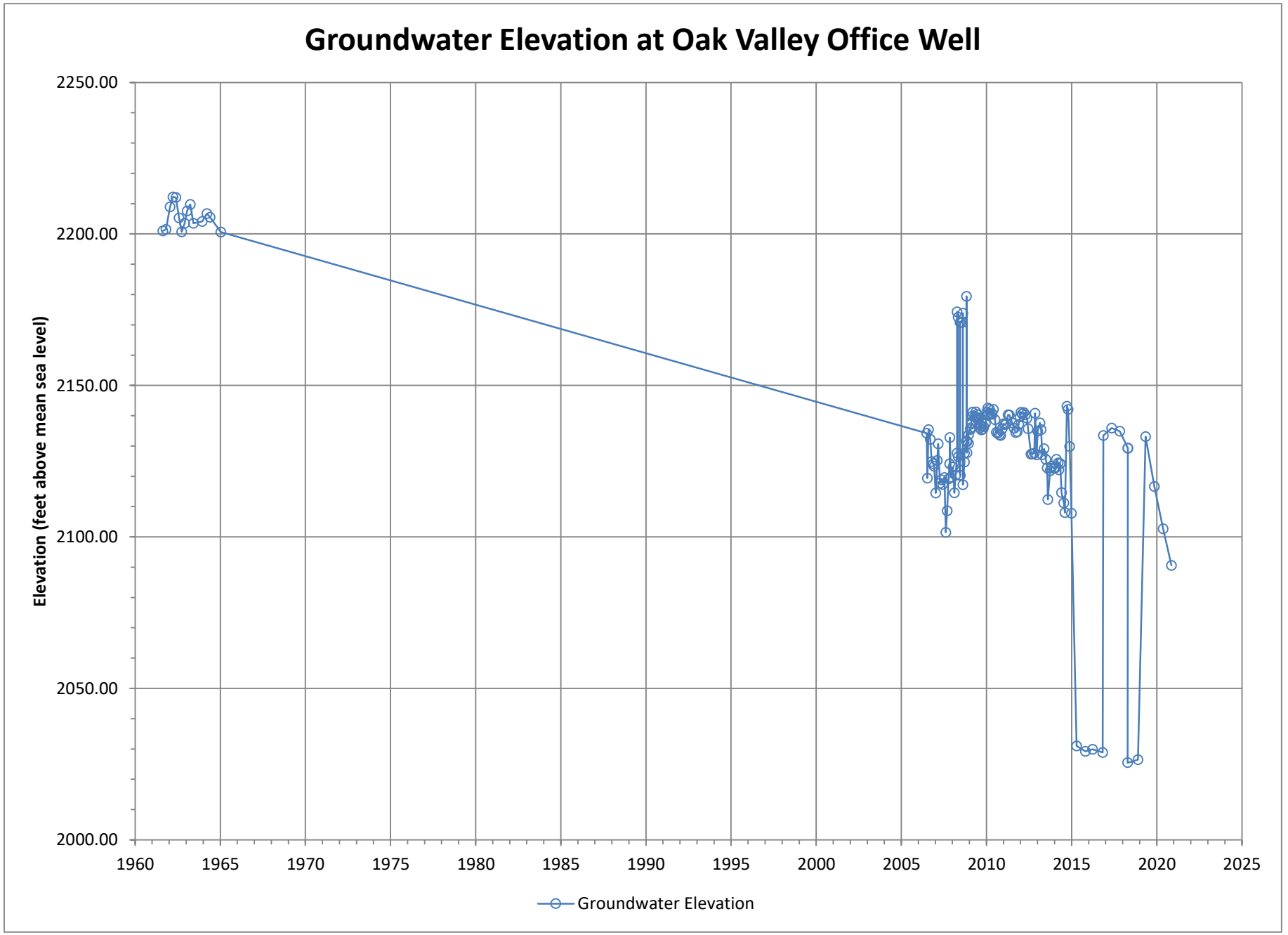
Groundwater Elevation at Oak Valley Office Well
Elevation (feet above mean sea level)
2250.00
2200.00
2150.00
2100.00
2050.00
2000.00
1960
1965
1970
1975
1980
1985
1990
1995
2000
2005
2010
2015
2020
2025
Groundwater Elevation

Figure M-56

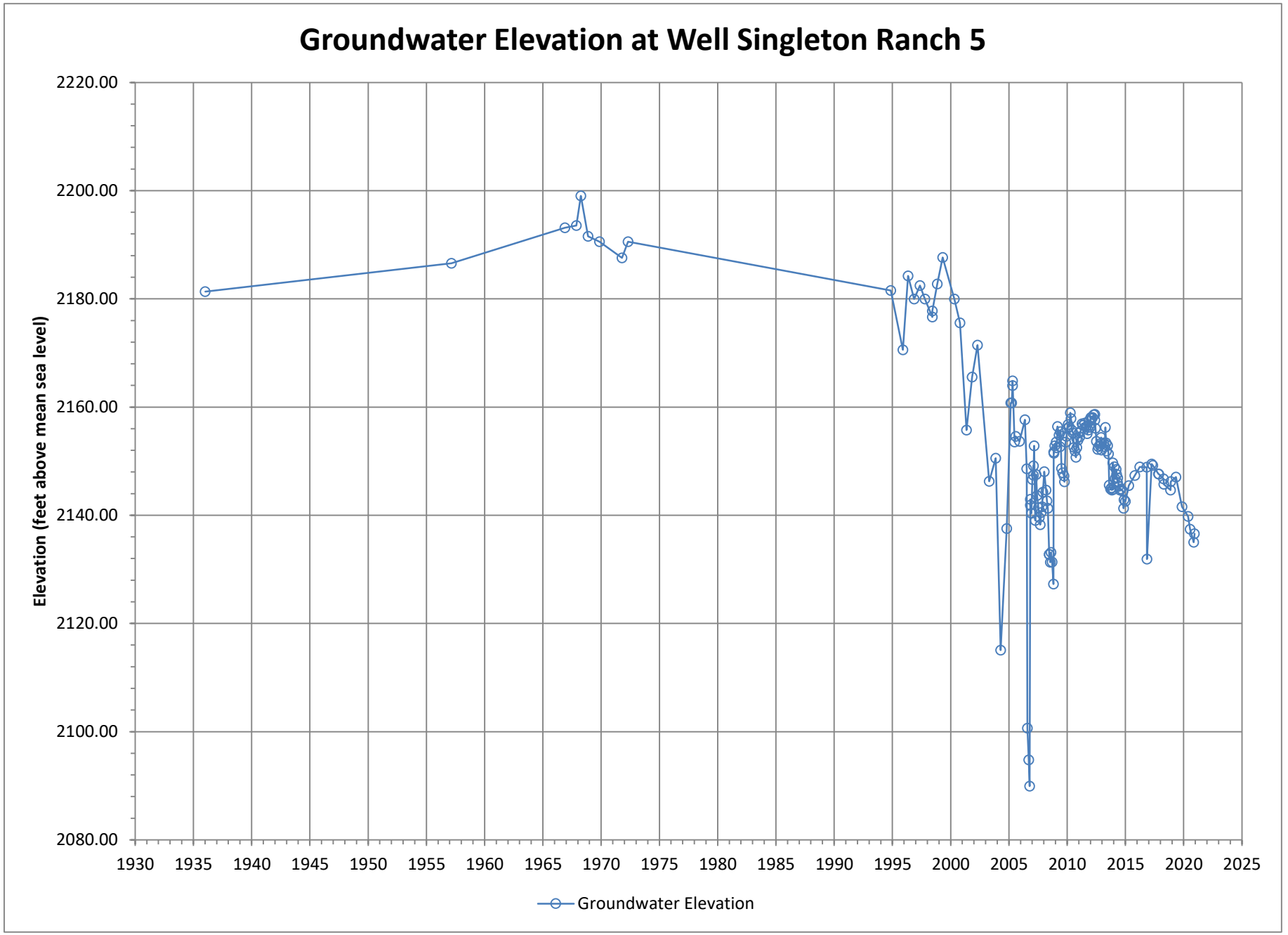
Groundwater Elevation at Well Singleton Ranch 5
Elevation (feet above mean sea level)
2220.00
2200.00
2180.00
2160.00
2140.00
2120.00
2100.00
2080.00
1930
1935
1940
1945
1950
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
2005
2010
2015
2020
2025
Groundwater Elevation

Figure M-57

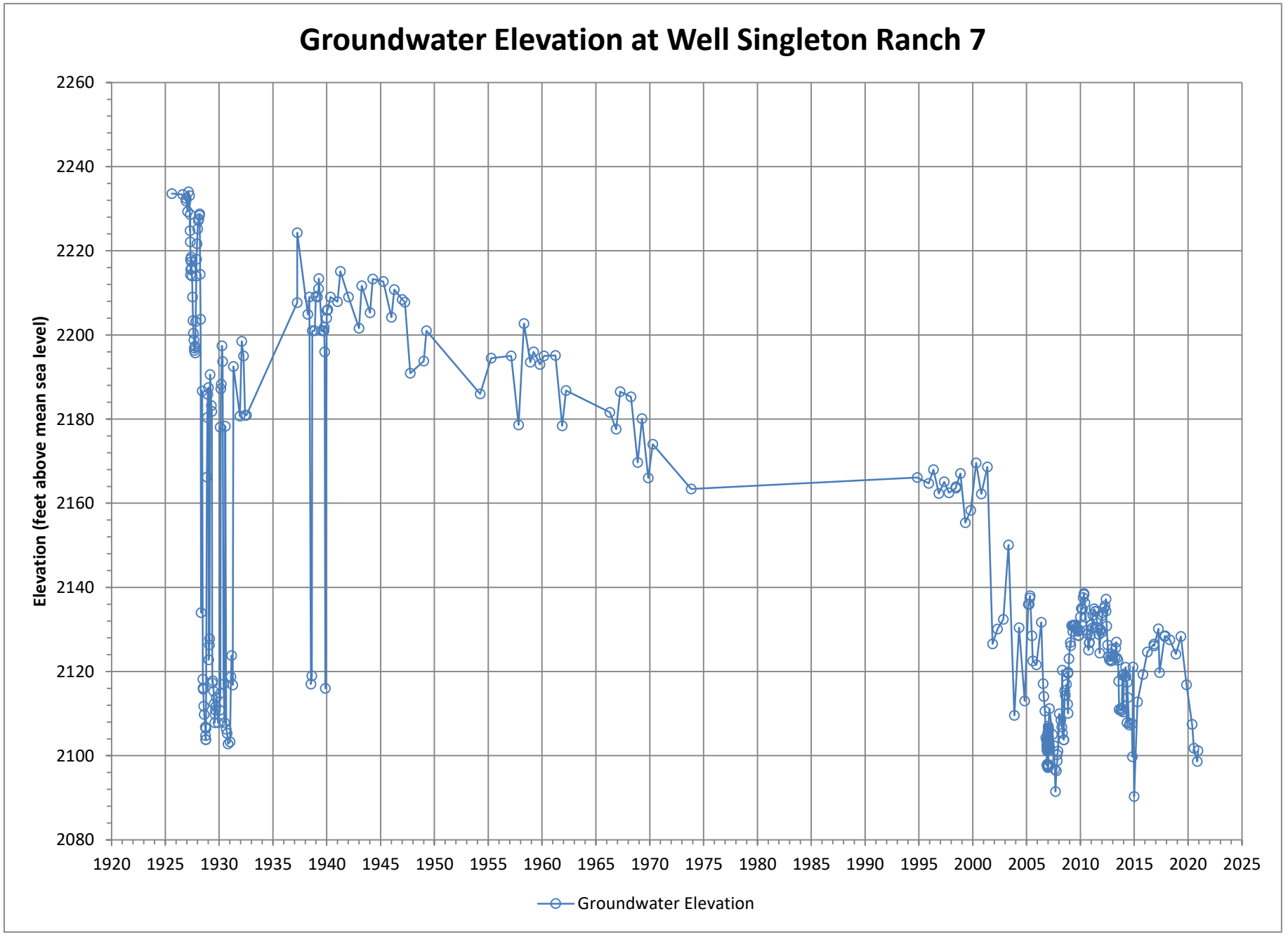
Groundwater Elevation at Well Singleton Ranch 7
Elevation (feet above mean sea level)
2260
2240
2220
2200
2180
2160
2140
2120
2100
2080
1920
1925
1930
1935
1940
1945
1950
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
2005
2010
2015
2020
2025
Groundwater Elevation

Figure M-58

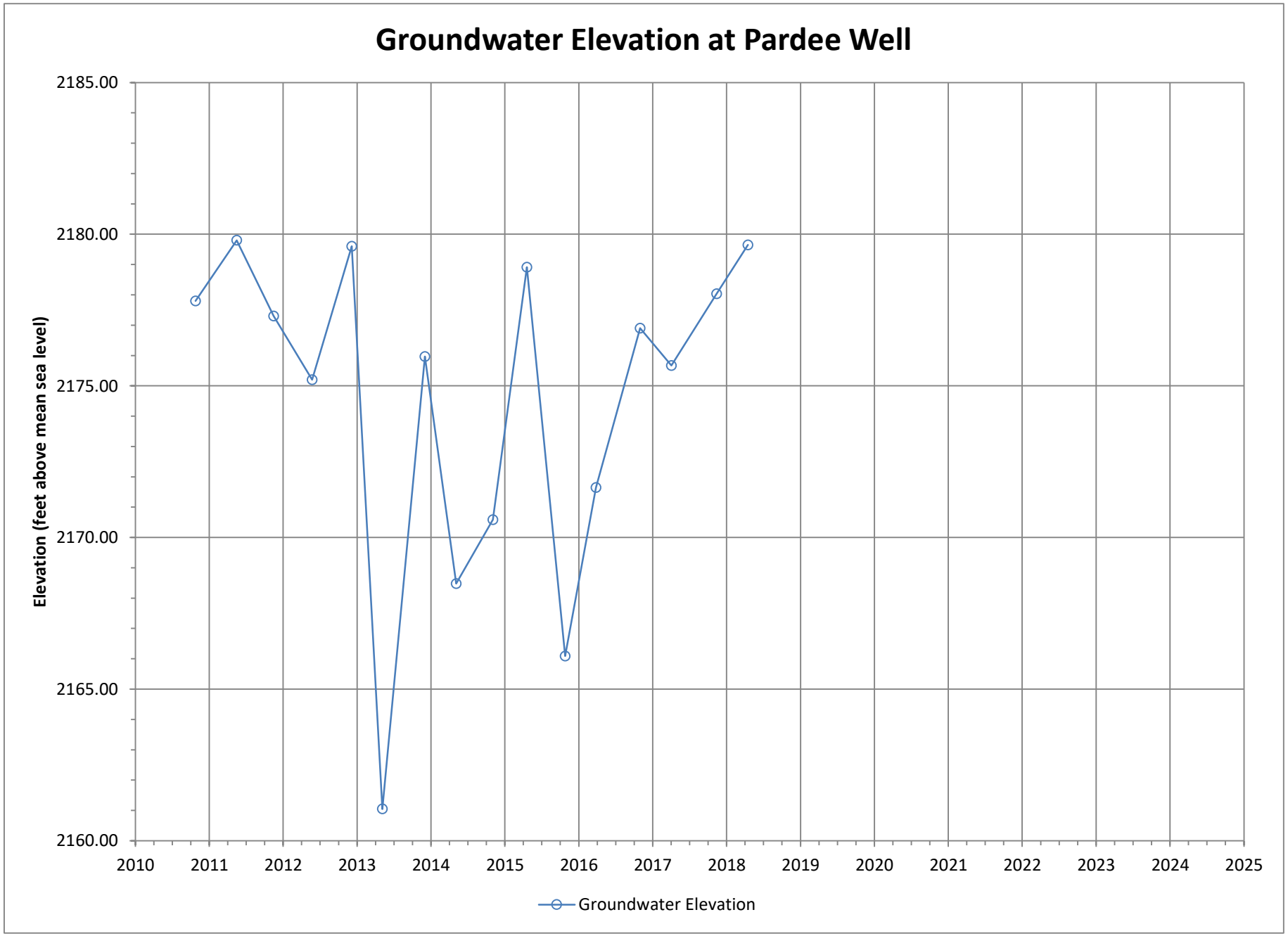
Groundwater Elevation at Pardee Well
Elevation (feet above mean sea level)
2185.00
2180.00
2175.00
2170.00
2165.00
2160.00
2010
2011
2012
2013
2014
2015
2016
2017
2018
2019
2020
2021
2022
2023
2024
2025
Groundwater Elevation

Figure M-59

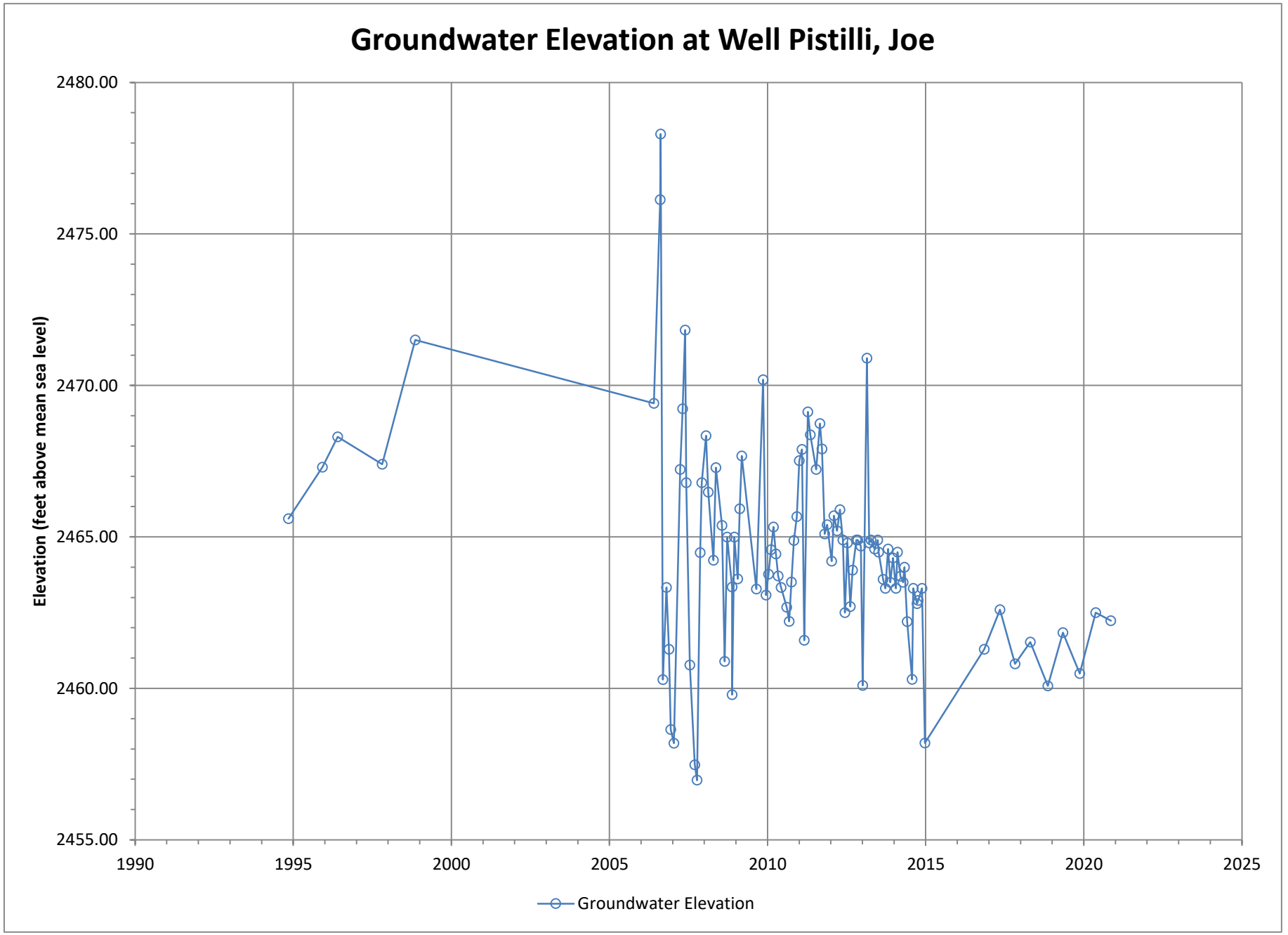
Groundwater Elevation at Well Pistilli, Joe
Elevation (feet above mean sea level)
2480.00
2475.00
2470.00
2465.00
2460.00
2455.00
1990
1995
2000
2005
2010
2015
2020
2025
Groundwater Elevation

Figure M-60

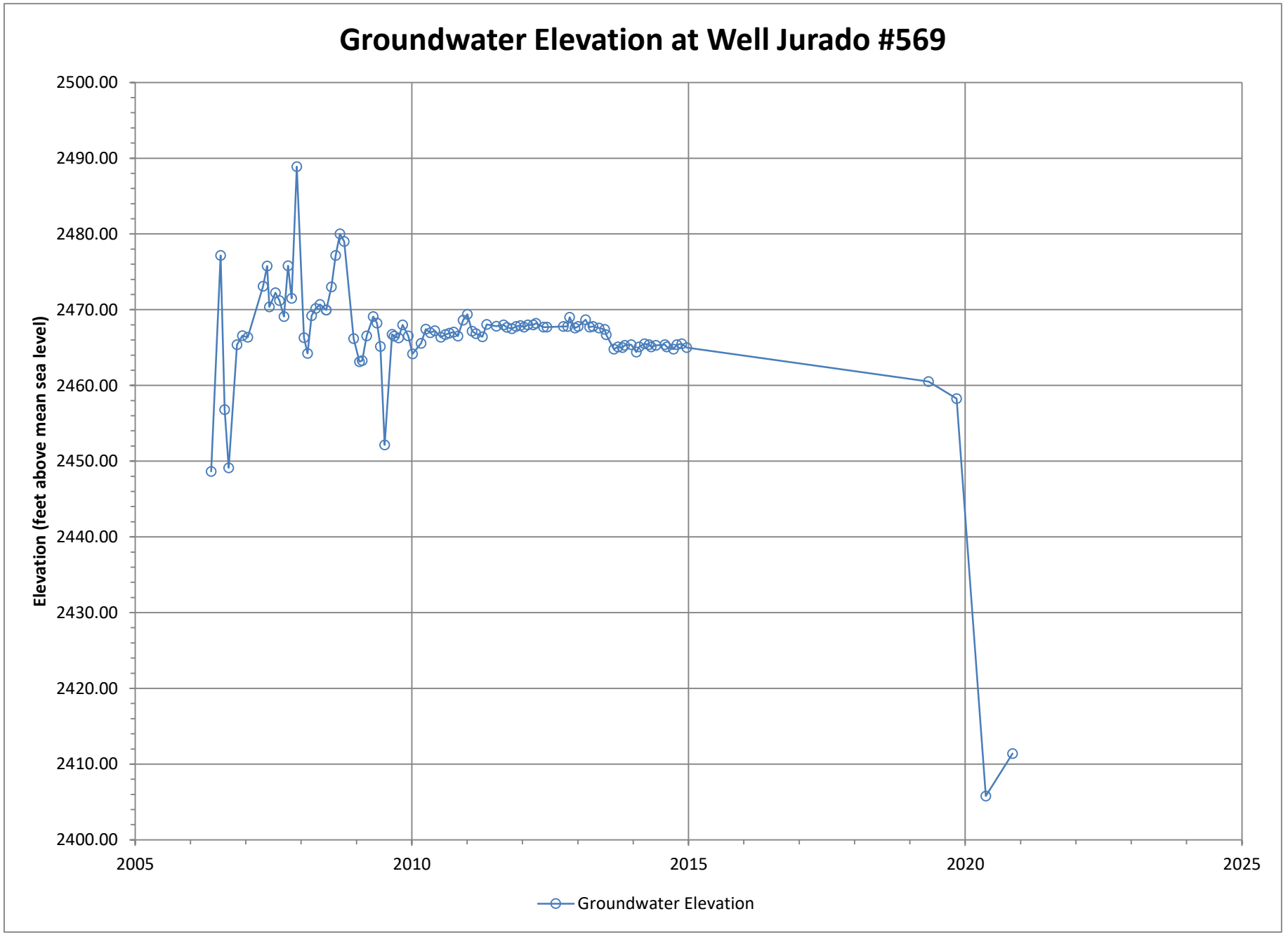
Groundwater Elevation at Well Jurado #569
Elevation (feet above mean sea level)
2500.00
2490.00
2480.00
2470.00
2460.00
2450.00
2440.00
2430.00
2420.00
2410.00
2400.00
2005
2010
2015
2020
2025
Groundwater Elevation

Figure M-61

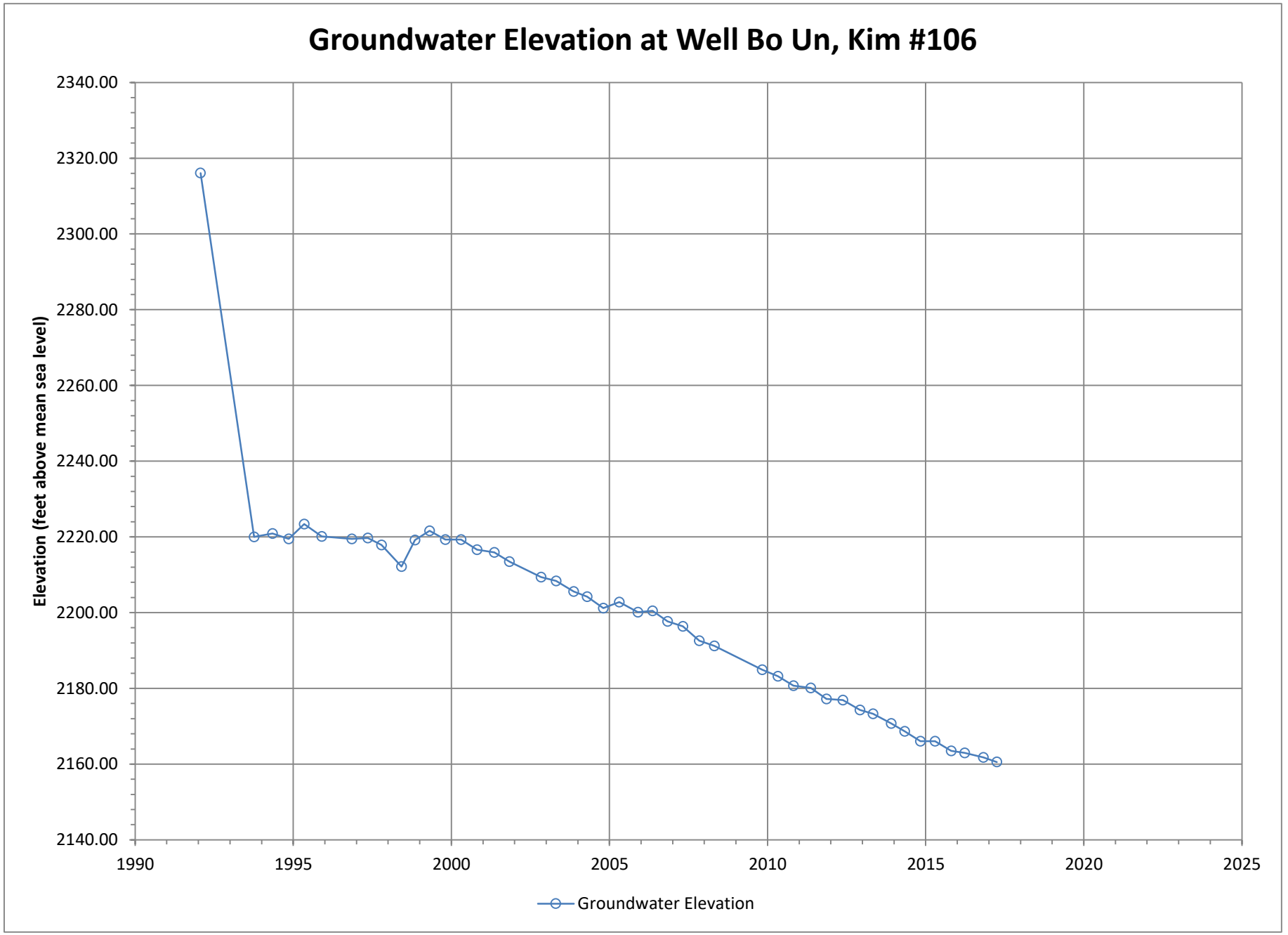
Groundwater Elevation at Well Bo Un, Kim #106
Elevation (feet above mean sea level)
2340.00
2320.00
2300.00
2280.00
2260.00
2240.00
2220.00
2200.00
2180.00
2160.00
2140.00
1990
1995
2000
2005
2010
2015
2020
2025
Groundwater Elevation

Figure M-62

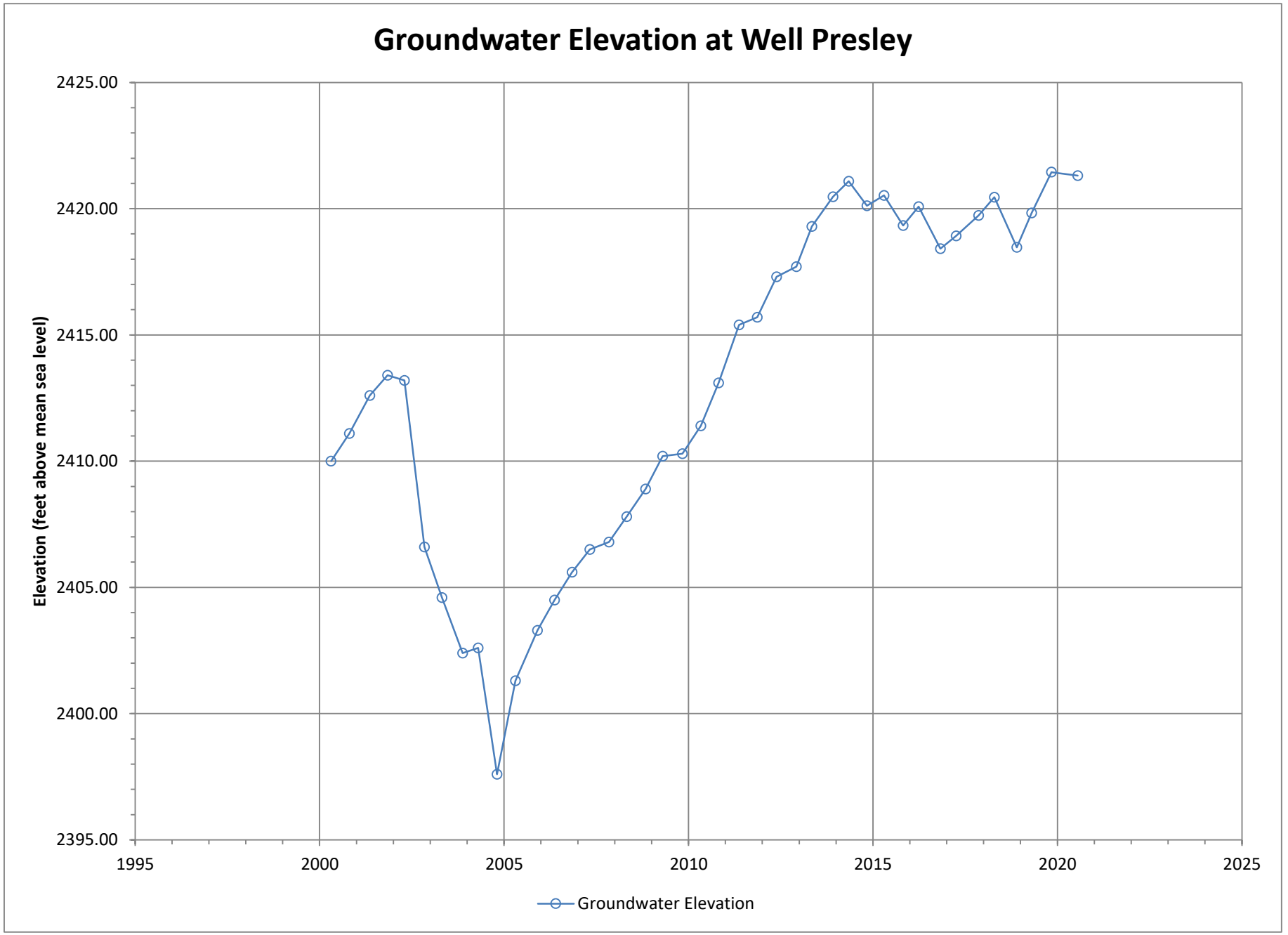
Groundwater Elevation at Well Presley
Elevation (feet above mean sea level)
2425.00
2420.00
2415.00
2410.00
2405.00
2400.00
2395.00
1995
2000
2005
2010
2015
2020
2025
Groundwater Elevation

Figure M-63

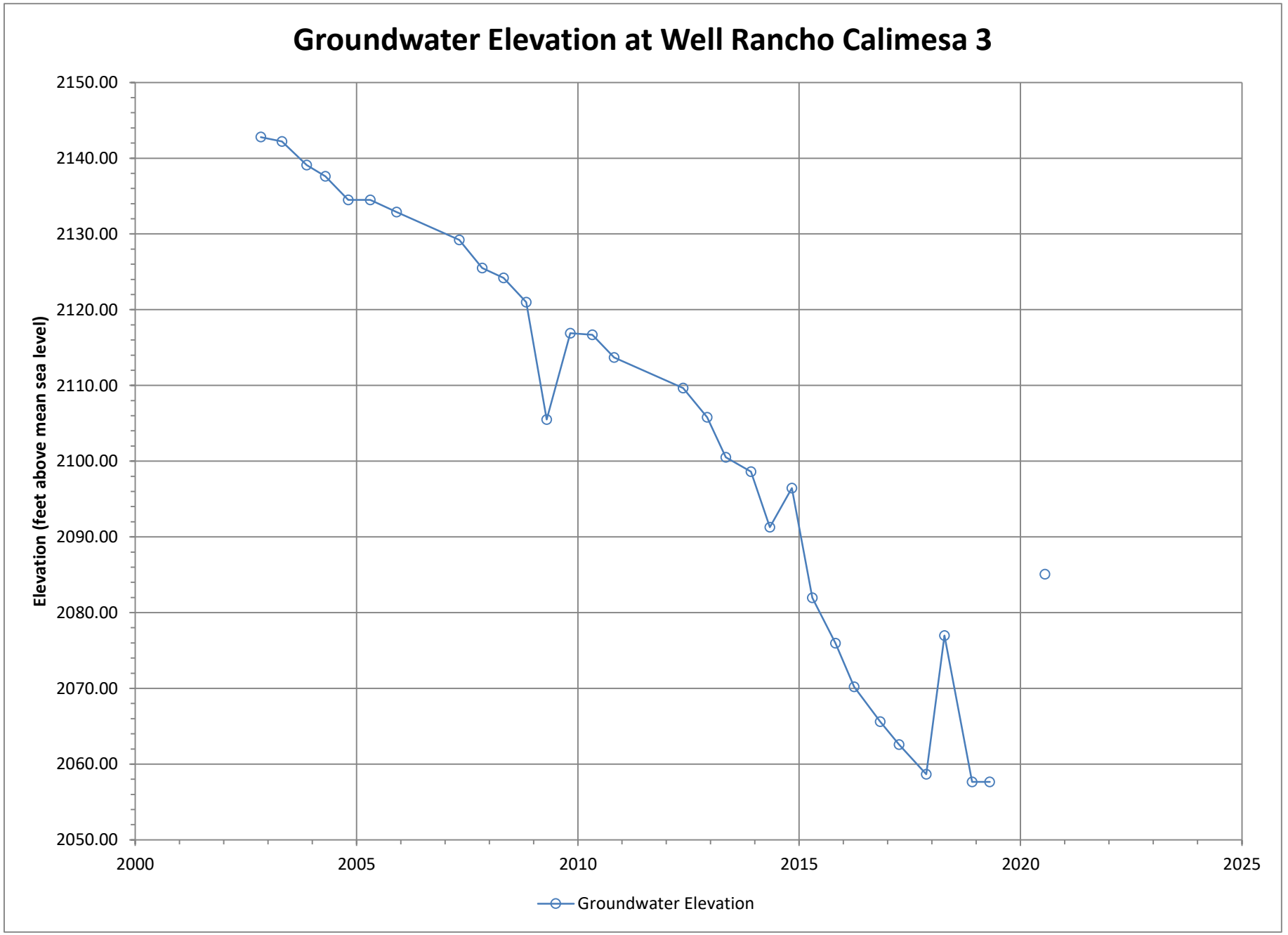
Groundwater Elevation at Well Rancho Calimesa 3
Elevation (feet above mean sea level)
2150.00
2140.00
2130.00
2120.00
2110.00
2100.00
2090.00
2080.00
2070.00
2060.00
2050.00
2000
2005
2010
2015
2020
2025
Groundwater Elevation

Figure M-64

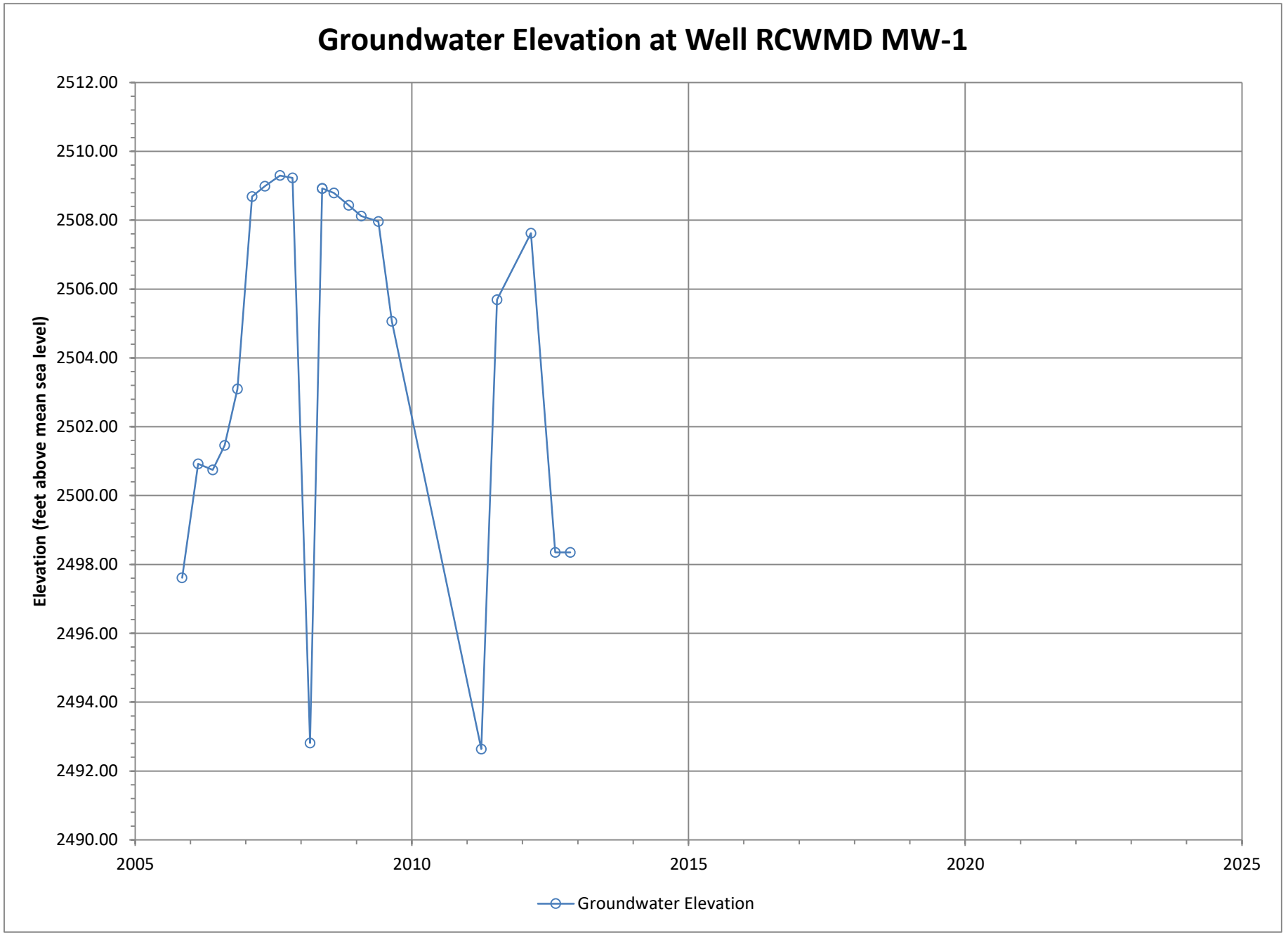
Groundwater Elevation at Well RCWMD MW-1
Elevation (feet above mean sea level)
2512.00
2510.00
2508.00
2506.00
2504.00
2502.00
2500.00
2498.00
2496.00
2494.00
2492.00
2490.00
2005
2010
2015
2020
2025
Groundwater Elevation

Figure M-65

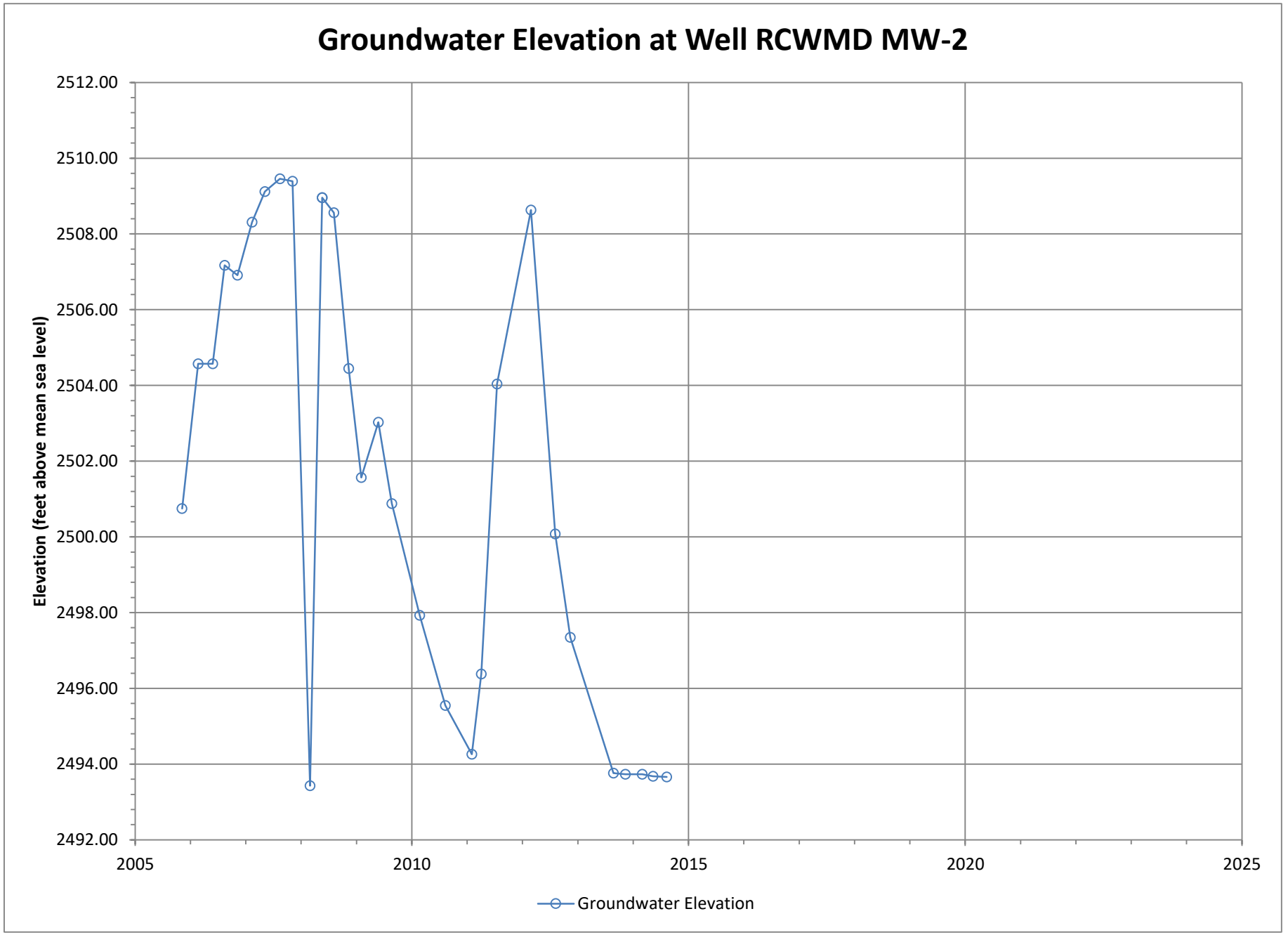
Groundwater Elevation at Well RCWMD MW-2
Elevation (feet above mean sea level)
2512.00
2510.00
2508.00
2506.00
2504.00
2502.00
2500.00
2498.00
2496.00
2494.00
2492.00
2005
2010
2015
2020
2025
Groundwater Elevation

Figure M-66

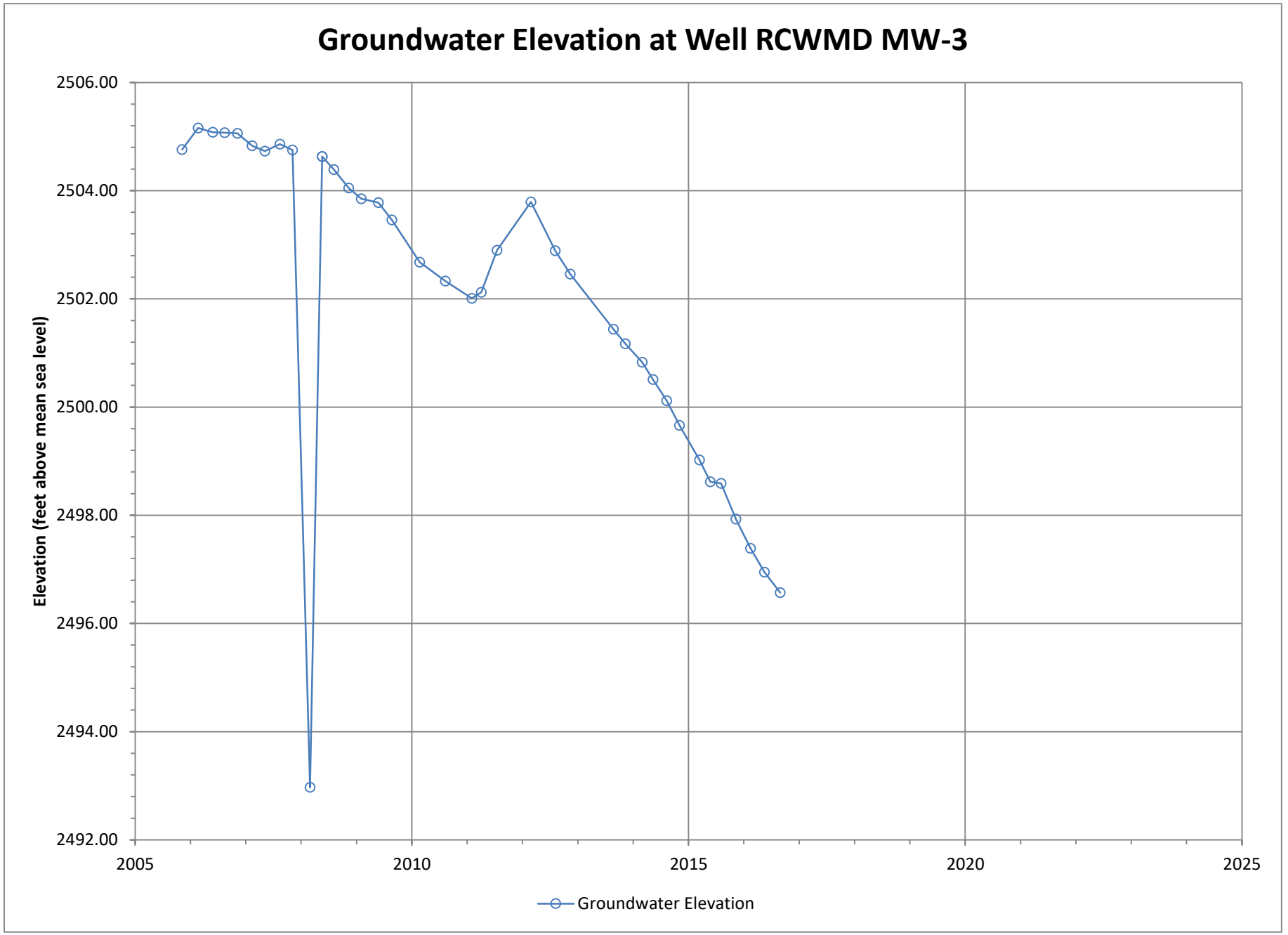
Groundwater Elevation at Well RCWMD MW-3
Elevation (feet above mean sea level)
2506.00
2504.00
2502.00
2500.00
2498.00
2496.00
2494.00
2492.00
2005
2010
2015
2020
2025
Groundwater Elevation

Figure M-67

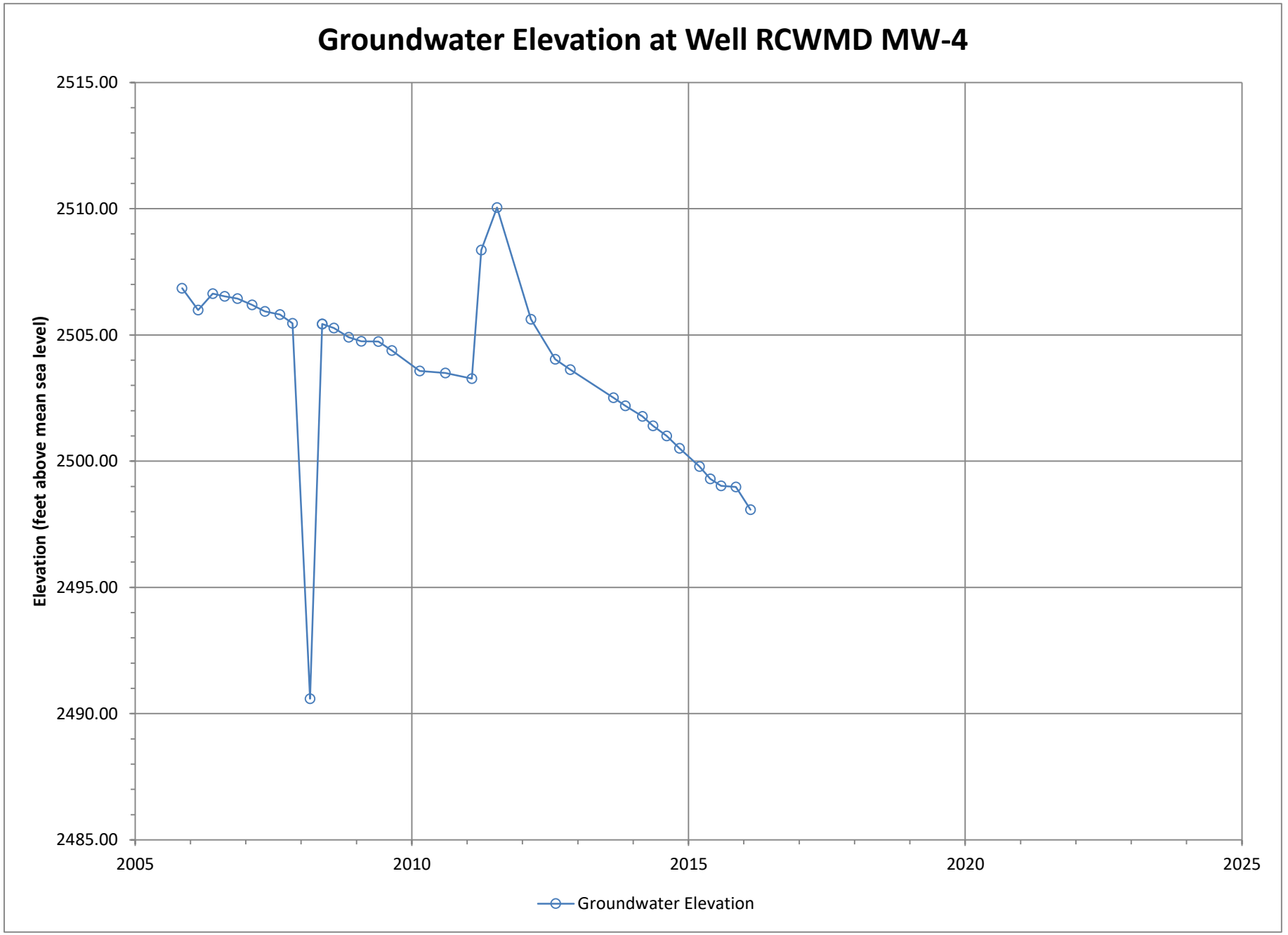
Groundwater Elevation at Well RCWMD MW-4
Elevation (feet above mean sea level)
2515.00
2510.00
2505.00
2500.00
2495.00
2490.00
2485.00
2005
2010
2015
2020
2025
Groundwater Elevation

Figure M-68

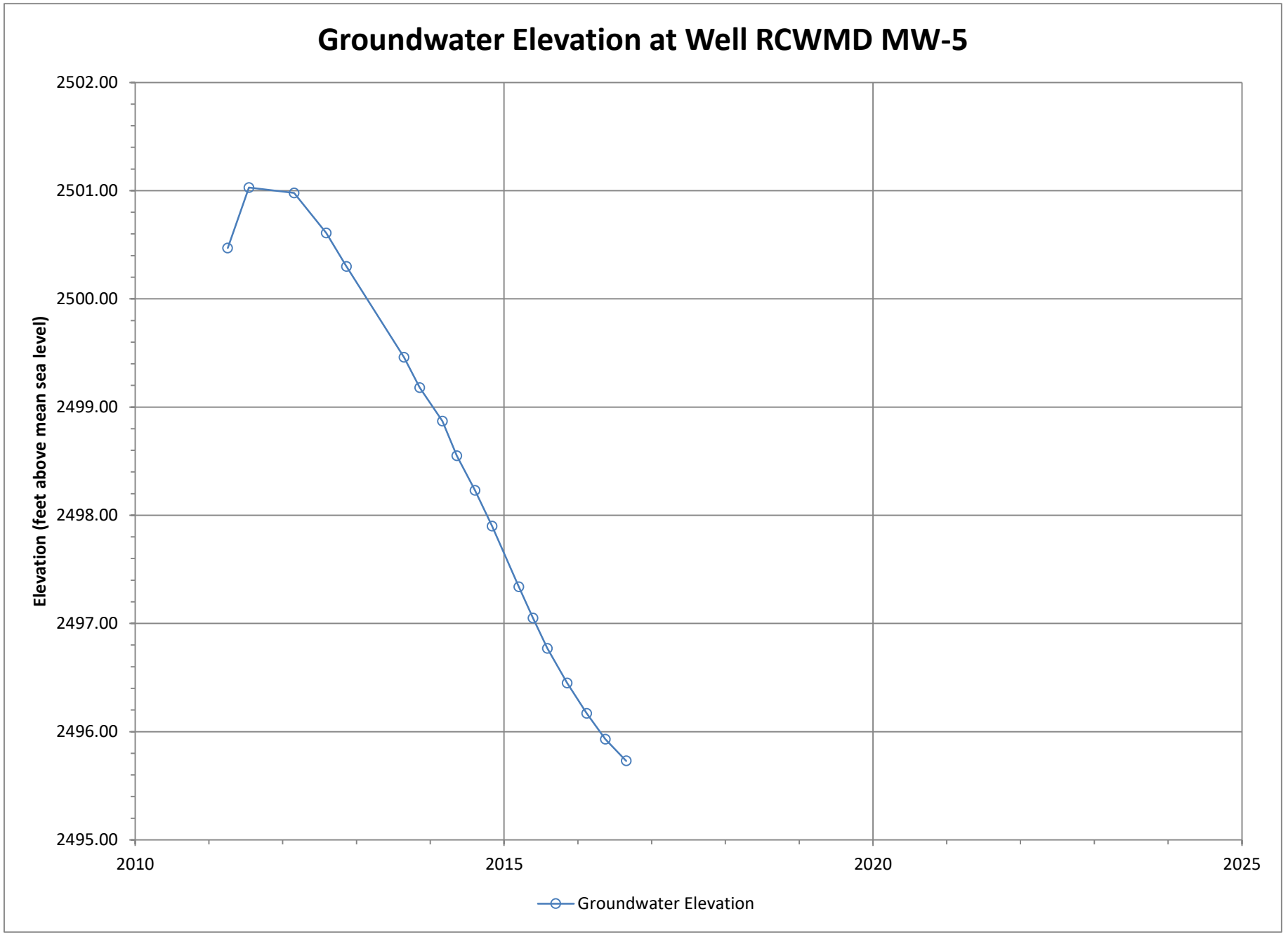
Groundwater Elevation at Well RCWMD MW-5
Elevation (feet above mean sea level)
2502.00
2501.00
2500.00
2499.00
2498.00
2497.00
2496.00
2495.00
2010
2015
2020
2025
Groundwater Elevation

Figure M-69

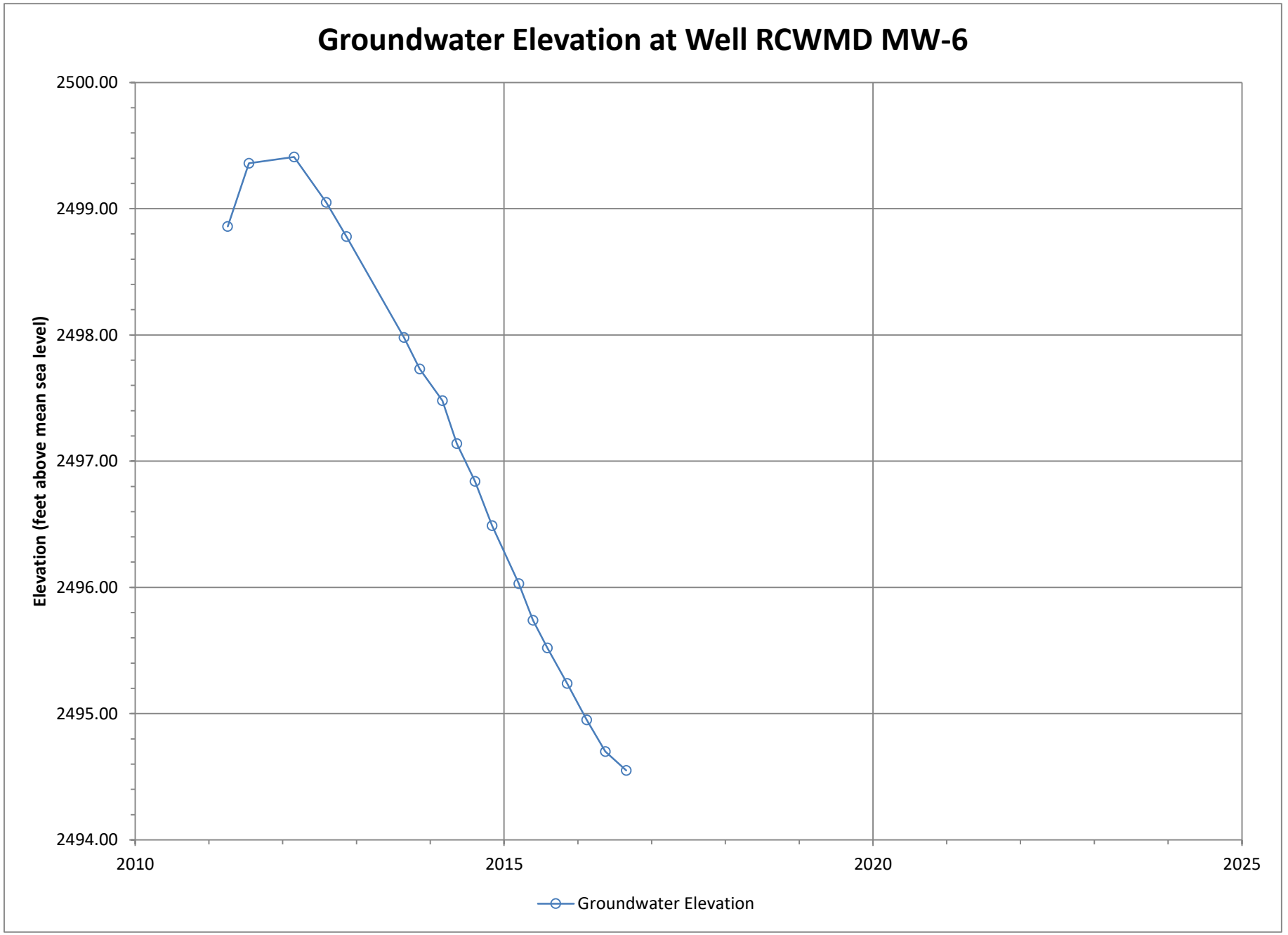
Groundwater Elevation at Well RCWMD MW-6
Elevation (feet above mean sea level)
2500.00
2499.00
2498.00
2497.00
2496.00
2495.00
2494.00
2010
2015
2020
2025
Groundwater Elevation

Figure M-70

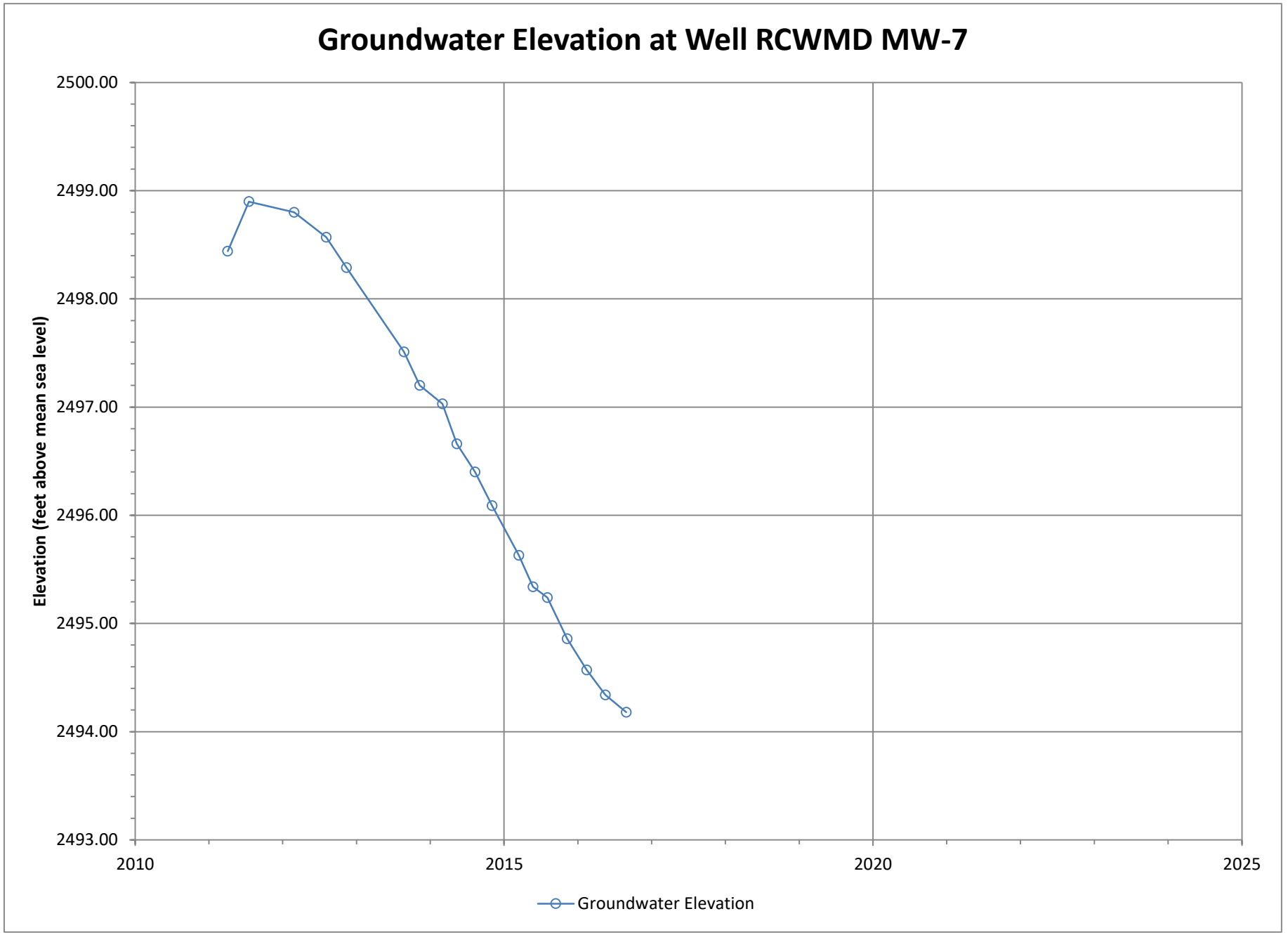
Groundwater Elevation at Well RCWMD MW-7
Elevation (feet above mean sea level)
2500.00
2499.00
2498.00
2497.00
2496.00
2495.00
2494.00
2493.00
2010
2015
2020
2025
Groundwater Elevation

Figure M-71

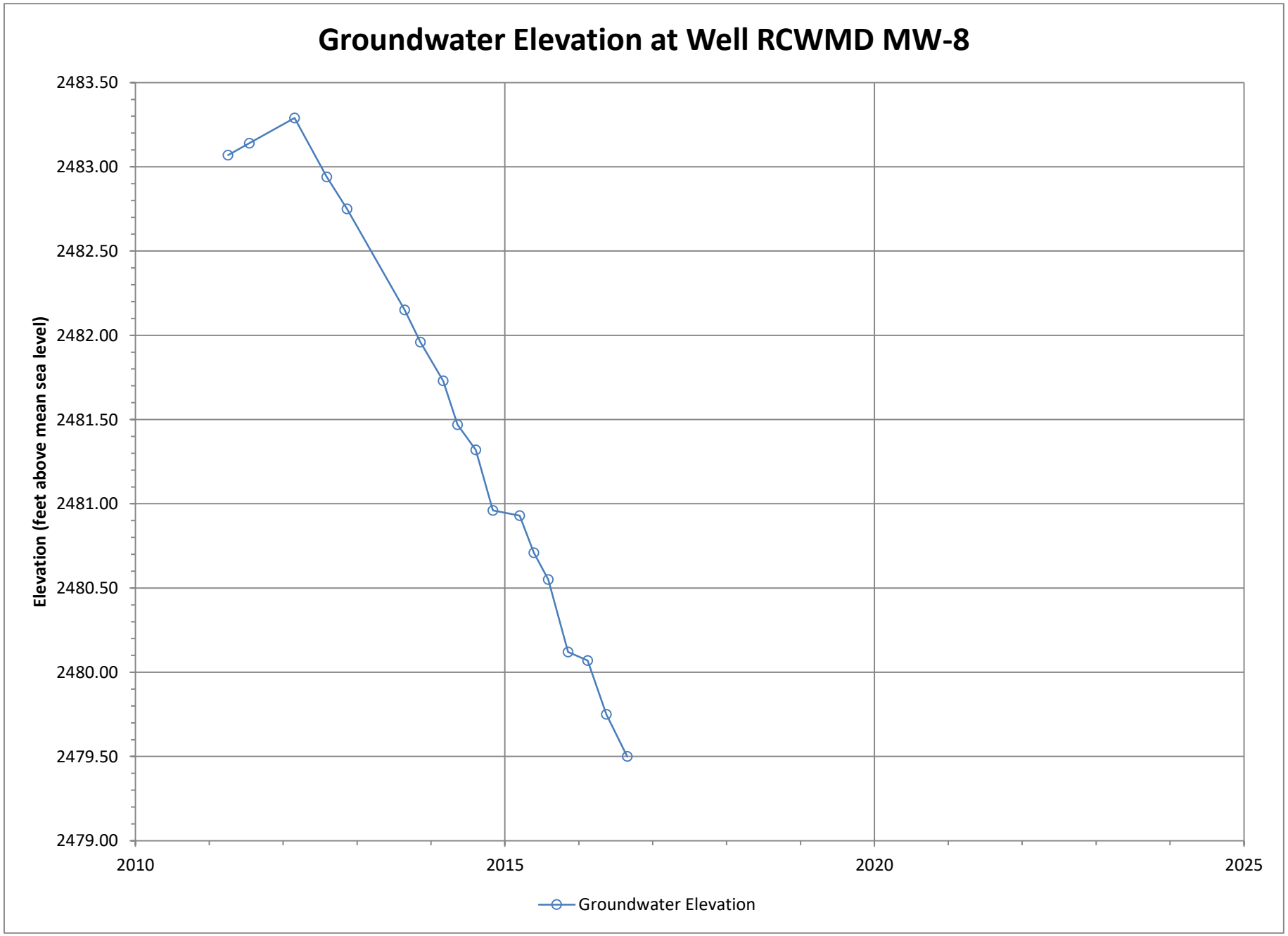
Groundwater Elevation at Well RCWMD MW-8
Elevation (feet above mean sea level)
2483.50
2483.00
2482.50
2482.00
2481.50
2481.00
2480.50
2480.00
2479.50
2479.00
2010
2015
2020
2025
Groundwater Elevation

Figure M-72

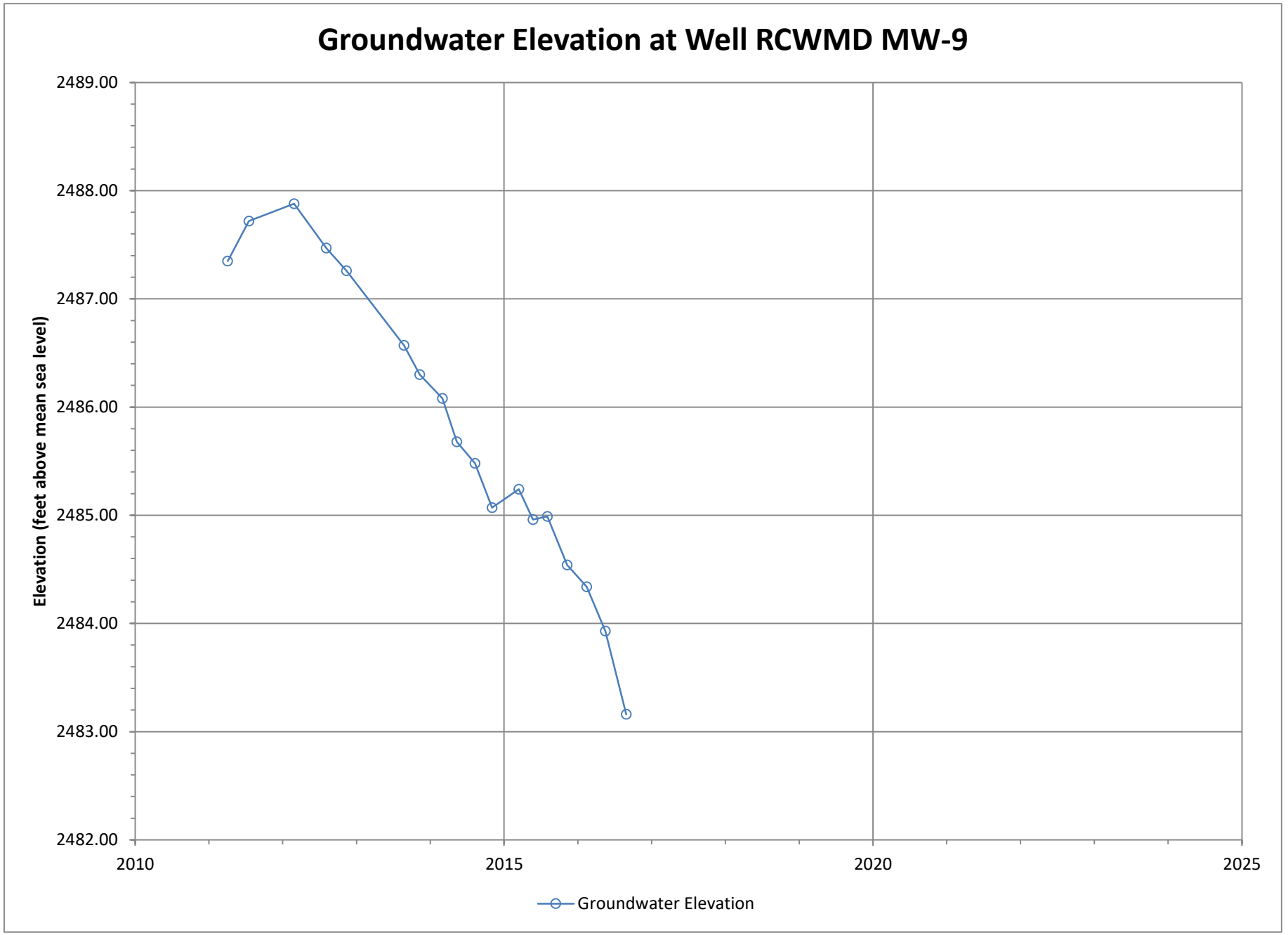
Groundwater Elevation at Well RCWMD MW-9
Elevation (feet above mean sea level)
2489.00
2488.00
2487.00
2486.00
2485.00
2484.00
2483.00
2482.00
2010
2015
2020
2025
Groundwater Elevation

Figure M-73

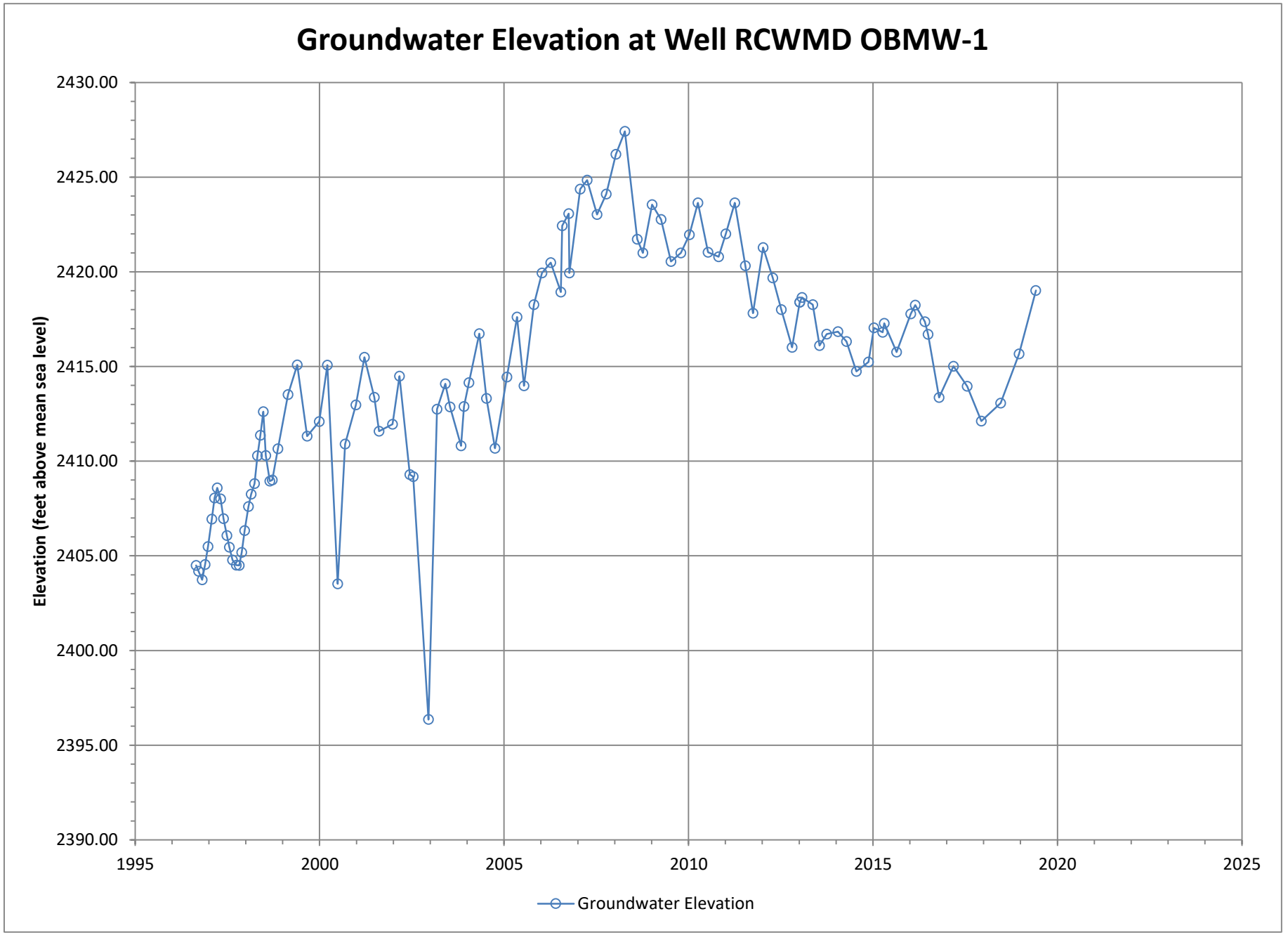
Groundwater Elevation at Well RCWMD OBMW-1
Elevation (feet above mean sea level)
2430.00
2425.00
2420.00
2415.00
2410.00
2405.00
2400.00
2395.00
2390.00
1995
2000
2005
2010
2015
2020
2025
Groundwater Elevation

Figure M-74

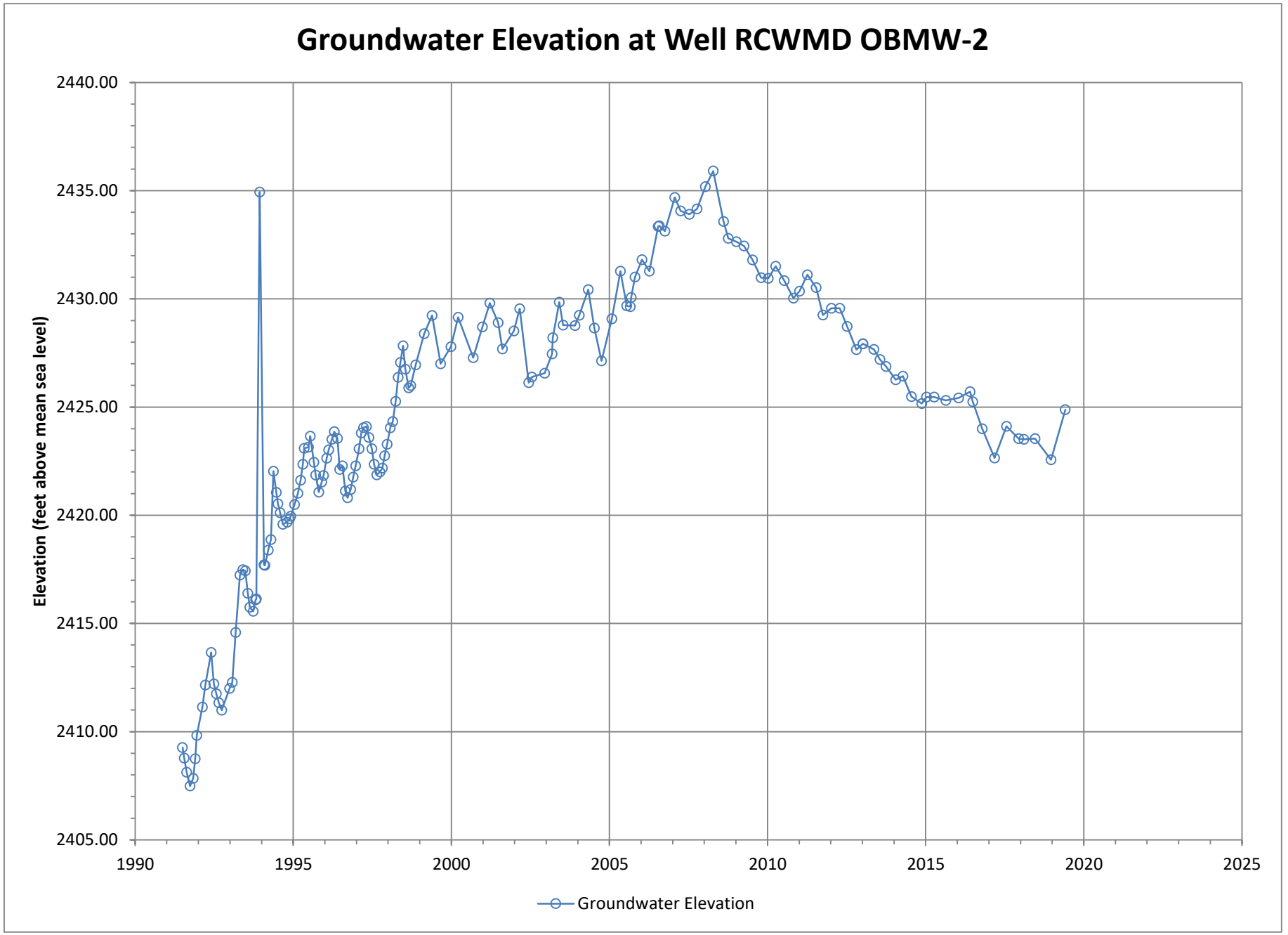
Groundwater Elevation at Well RCWMD OBMW-2
Elevation (feet above mean sea level)
2440.00
2435.00
2430.00
2425.00
2420.00
2415.00
2410.00
2405.00
1990
1995
2000
2005
2010
2015
2020
2025
Groundwater Elevation

Figure M-75

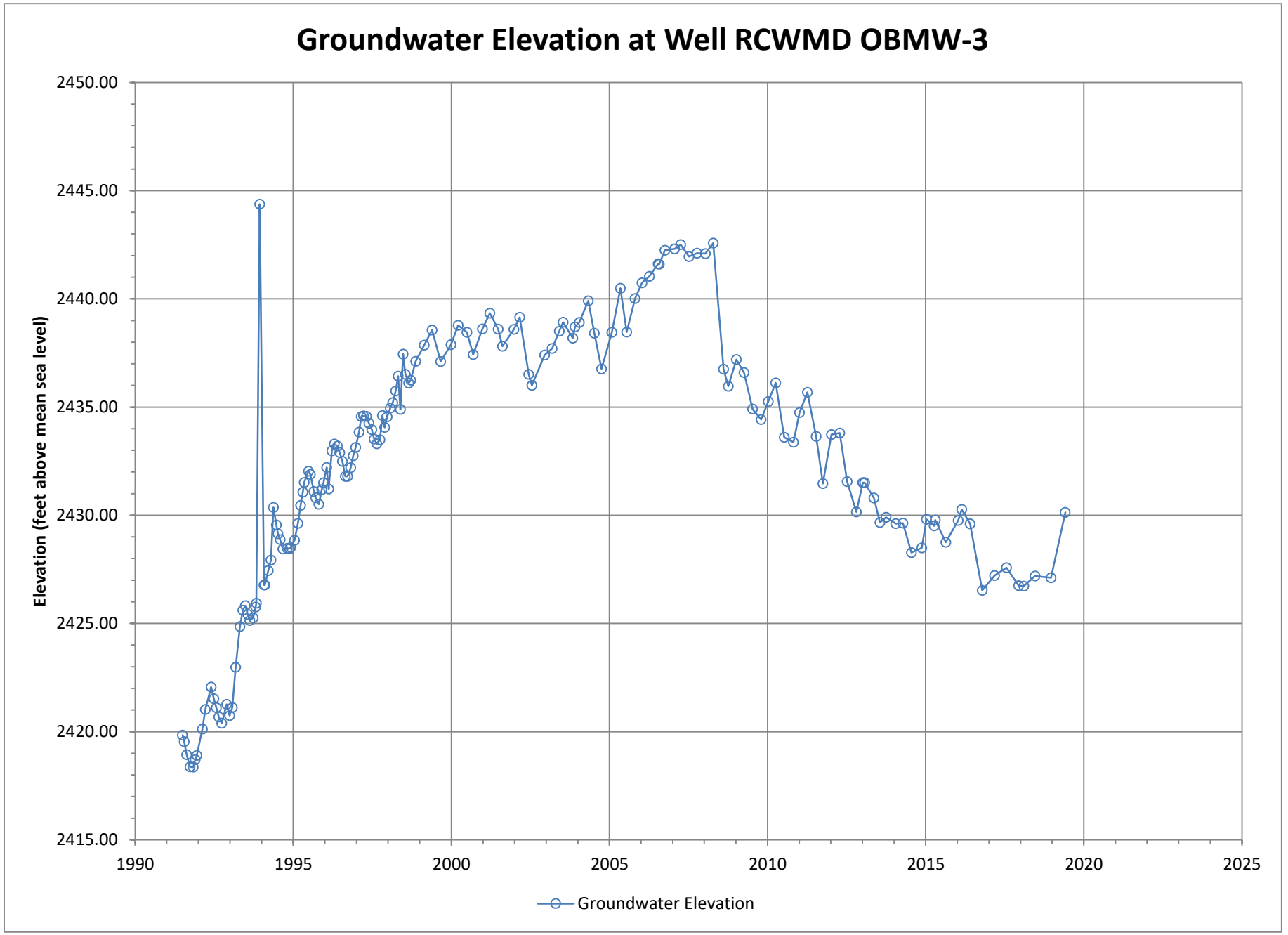
Groundwater Elevation at Well RCWMD OBMW-3
Elevation (feet above mean sea level)
2450.00
2445.00
2440.00
2435.00
2430.00
2425.00
2420.00
2415.00
1990
1995
2000
2005
2010
2015
2020
2025
Groundwater Elevation

Figure M-76

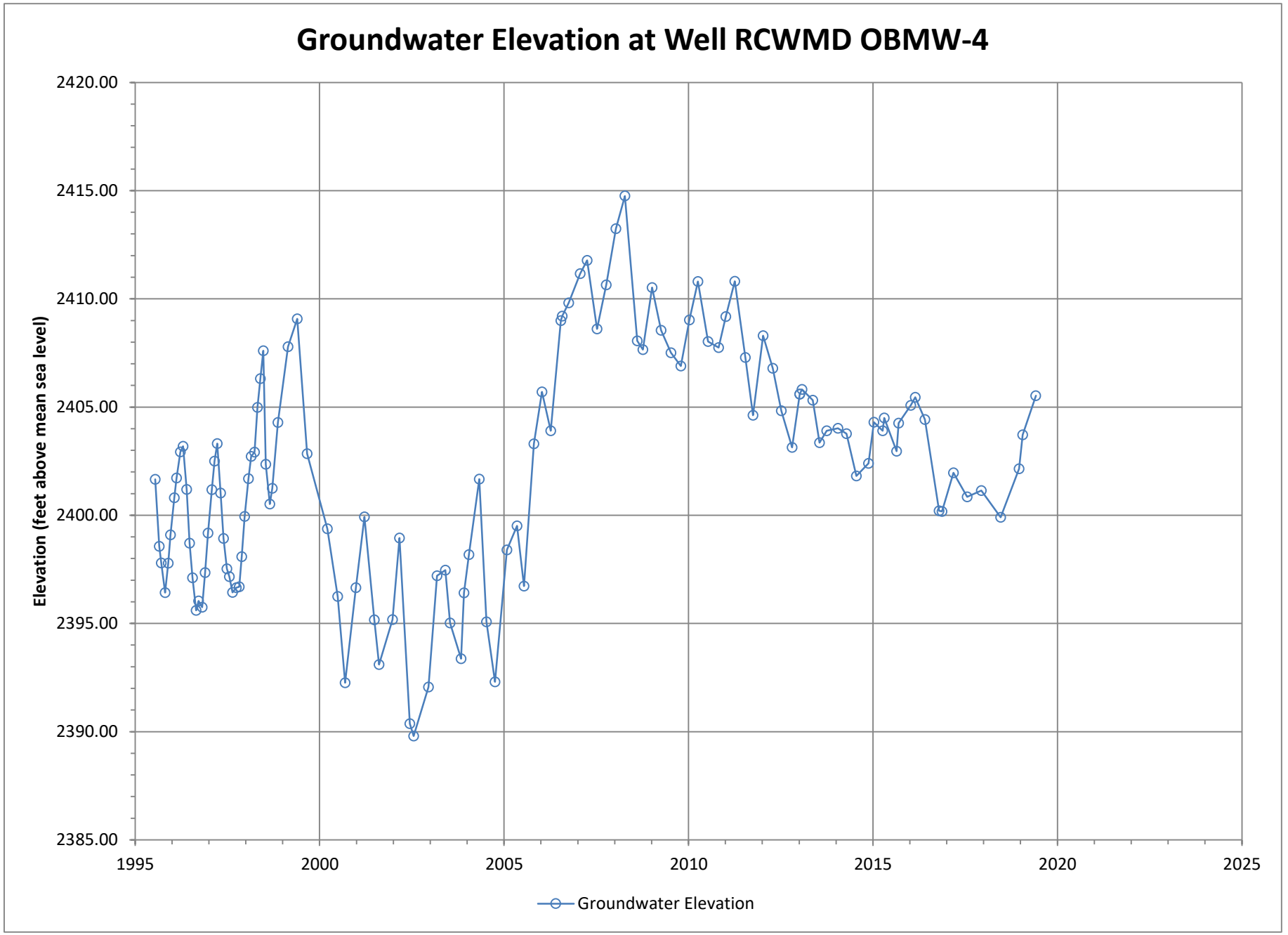
Groundwater Elevation at Well RCWMD OBMW-4
Elevation (feet above mean sea level)
2420.00
2415.00
2410.00
2405.00
2400.00
2395.00
2390.00
2385.00
1995
2000
2005
2010
2015
2020
2025
Groundwater Elevation

Figure M-77

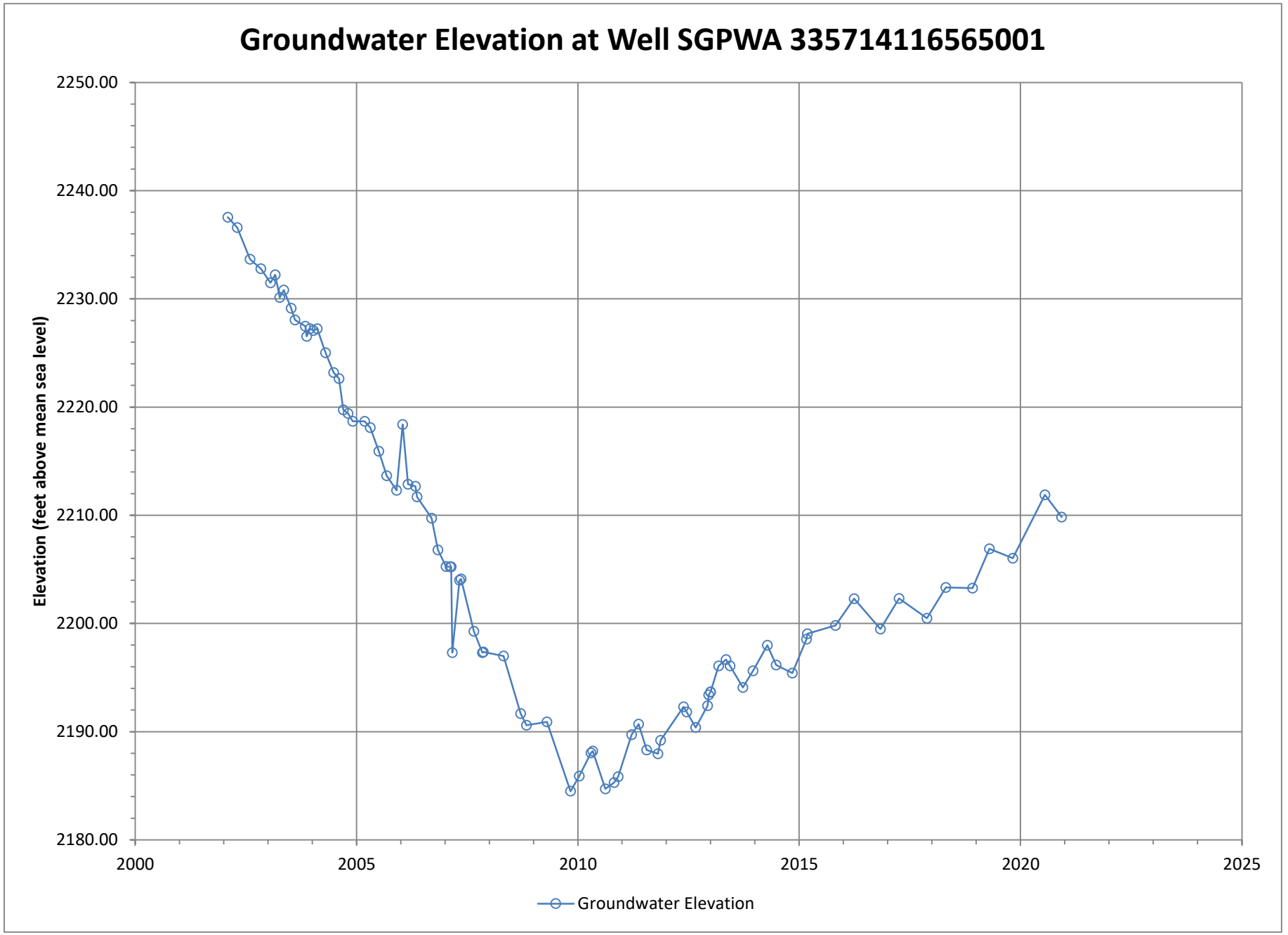
Groundwater Elevation at Well SGPWA 335714116565001
Elevation (feet above mean sea level)
2250.00
2240.00
2230.00
2220.00
2210.00
2200.00
2190.00
2180.00
2000
2005
2010
2015
2020
2025
Groundwater Elevation

Figure M-78

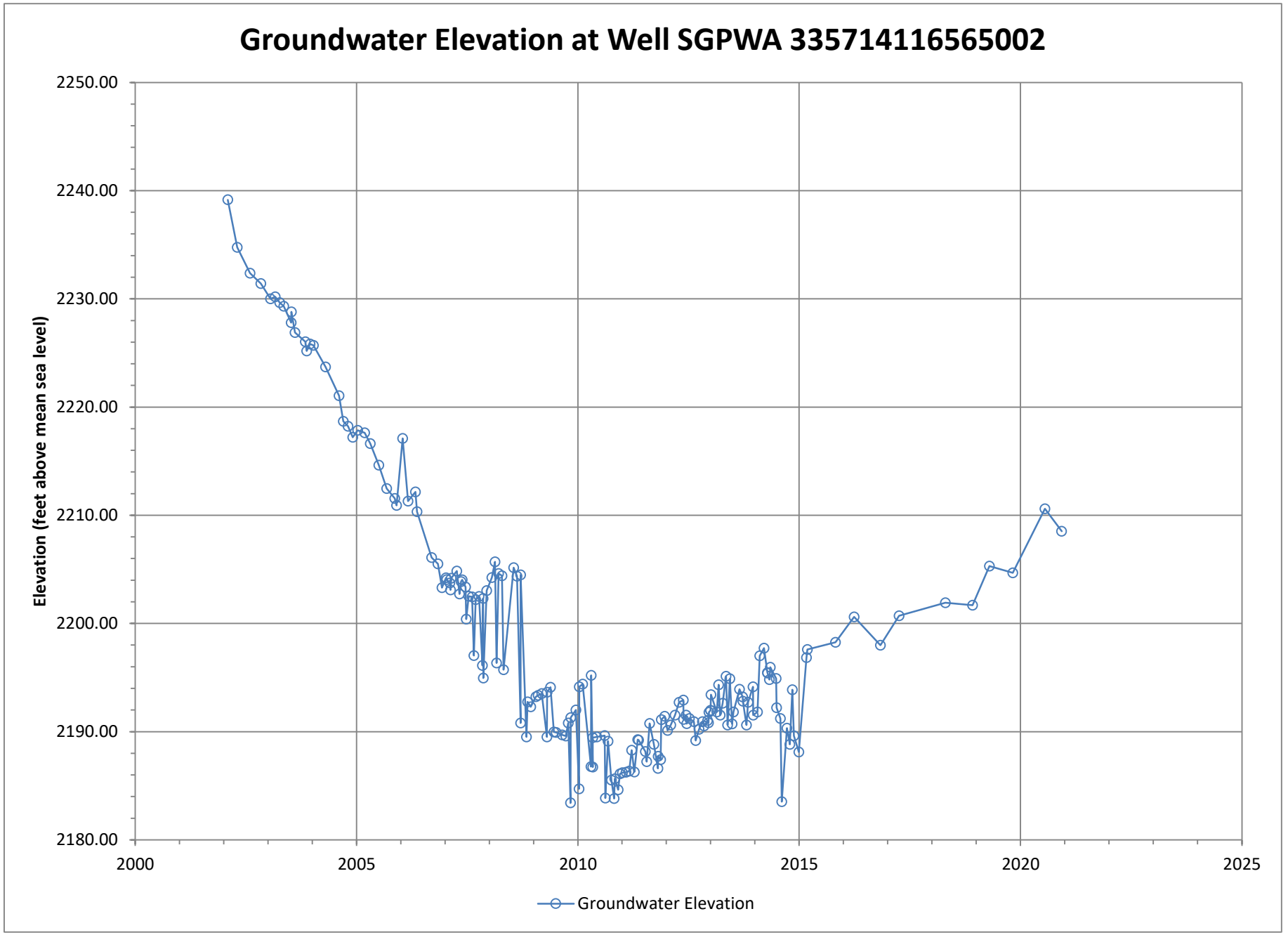
Groundwater Elevation at Well SGPWA 335714116565002
Elevation (feet above mean sea level)
2250.00
2240.00
2230.00
2220.00
2210.00
2200.00
2190.00
2180.00
2000
2005
2010
2015
2020
2025
Groundwater Elevation

Figure M-79

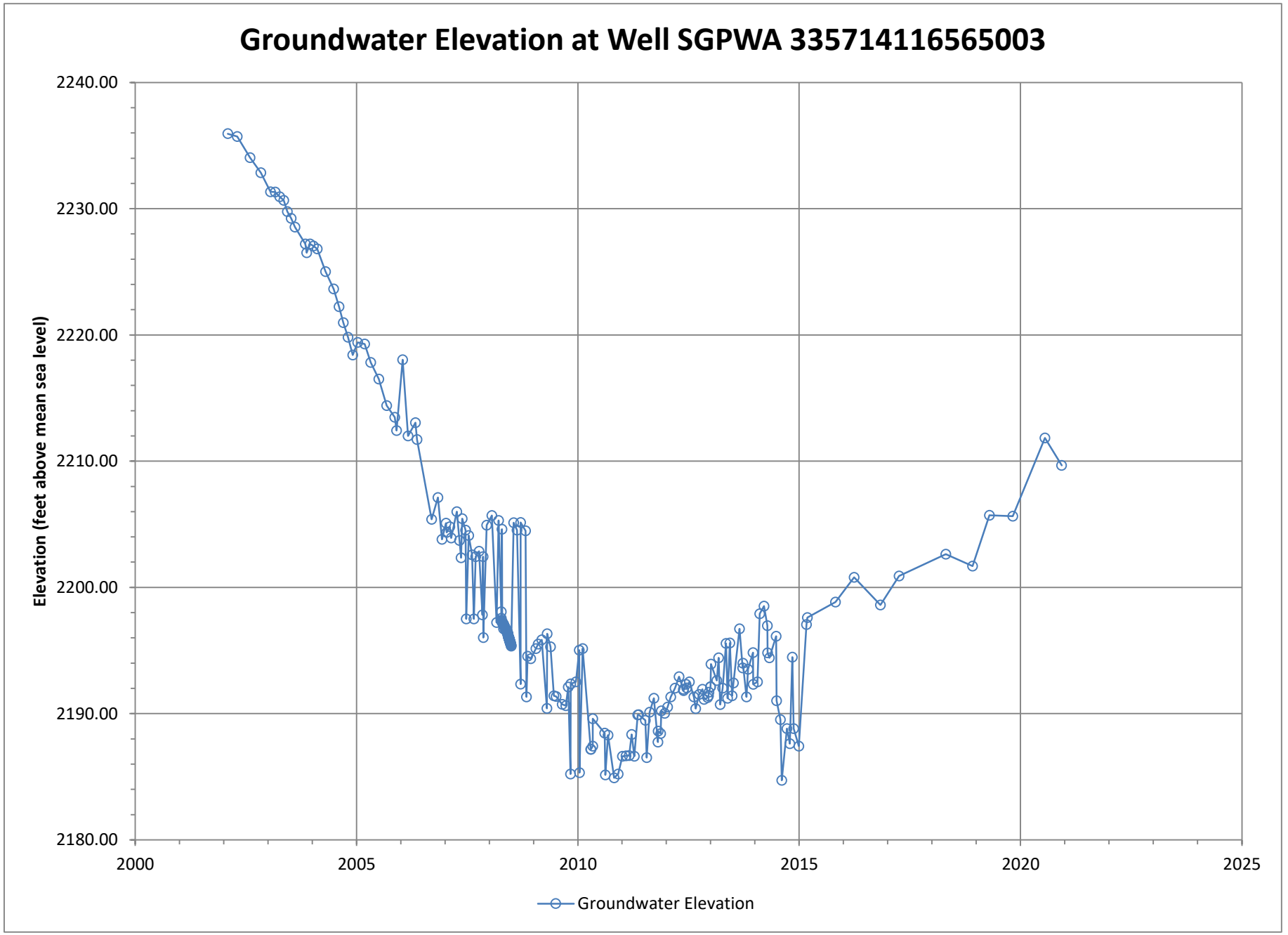
Groundwater Elevation at Well SGPWA 335714116565003
Elevation (feet above mean sea level)
2240.00
2230.00
2220.00
2210.00
2200.00
2190.00
2180.00
2000
2005
2010
2015
2020
2025
Groundwater Elevation

Figure M-80

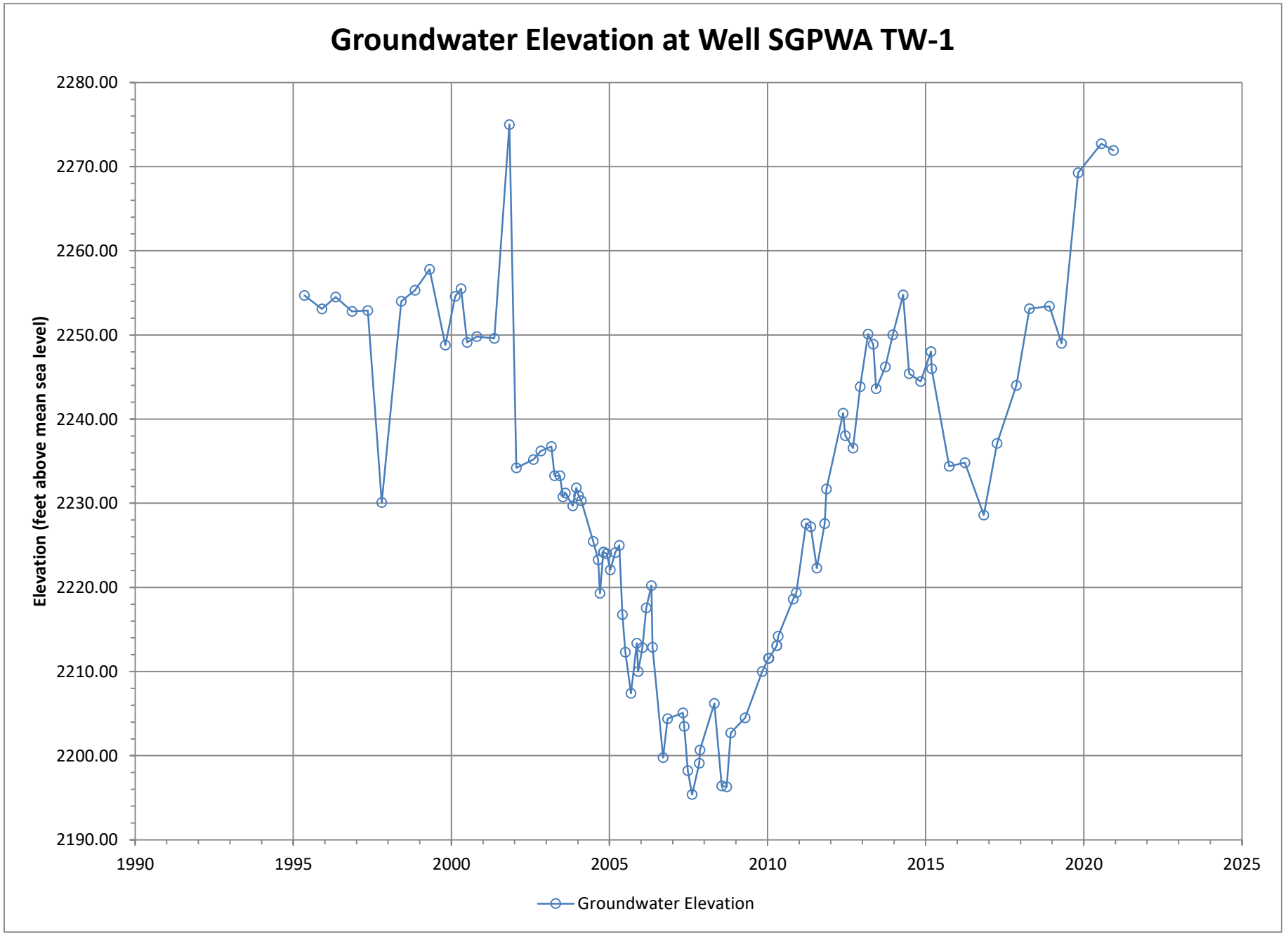
Groundwater Elevation at Well SGPWA TW-1
Elevation (feet above mean sea level)
2280.00
2270.00
2260.00
2250.00
2240.00
2230.00
2220.00
2210.00
2200.00
2190.00
1990
1995
2000
2005
2010
2015
2020
2025
Groundwater Elevation

Figure M-81

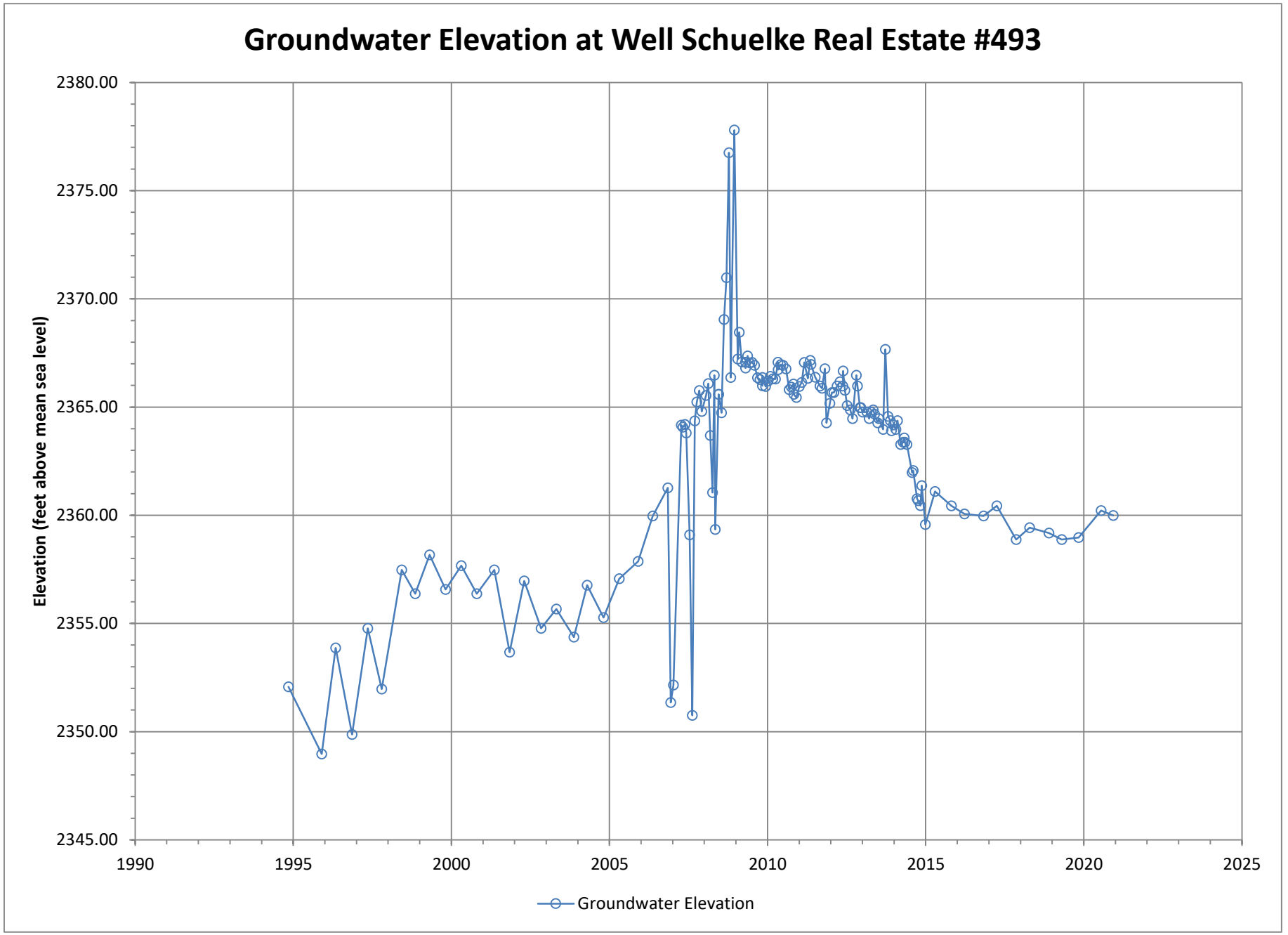
Groundwater Elevation at Well Schuelke Real Estate #493
Elevation (feet above mean sea level)
2380.00
2375.00
2370.00
2365.00
2360.00
2355.00
2350.00
2345.00
1990
1995
2000
2005
2010
2015
2020
2025
Groundwater Elevation

Figure M-82

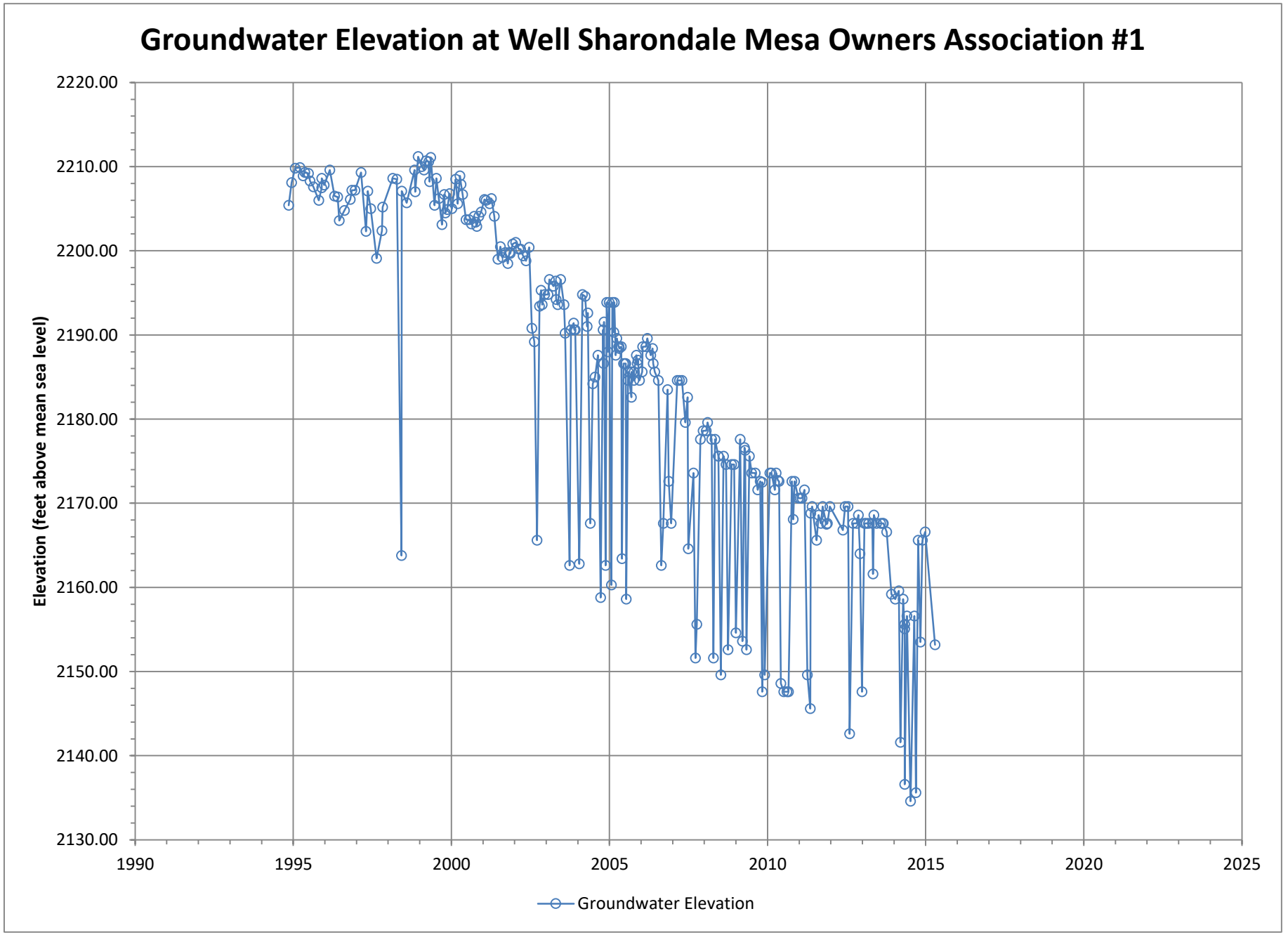
Groundwater Elevation at Well Sharondale Mesa Owners Association #1
Elevation (feet above mean sea level)
2220.00
2210.00
2200.00
2190.00
2180.00
2170.00
2160.00
2150.00
2140.00
2130.00
1990
1995
2000
2005
2010
2015
2020
2025
Groundwater Elevation

Figure M-83

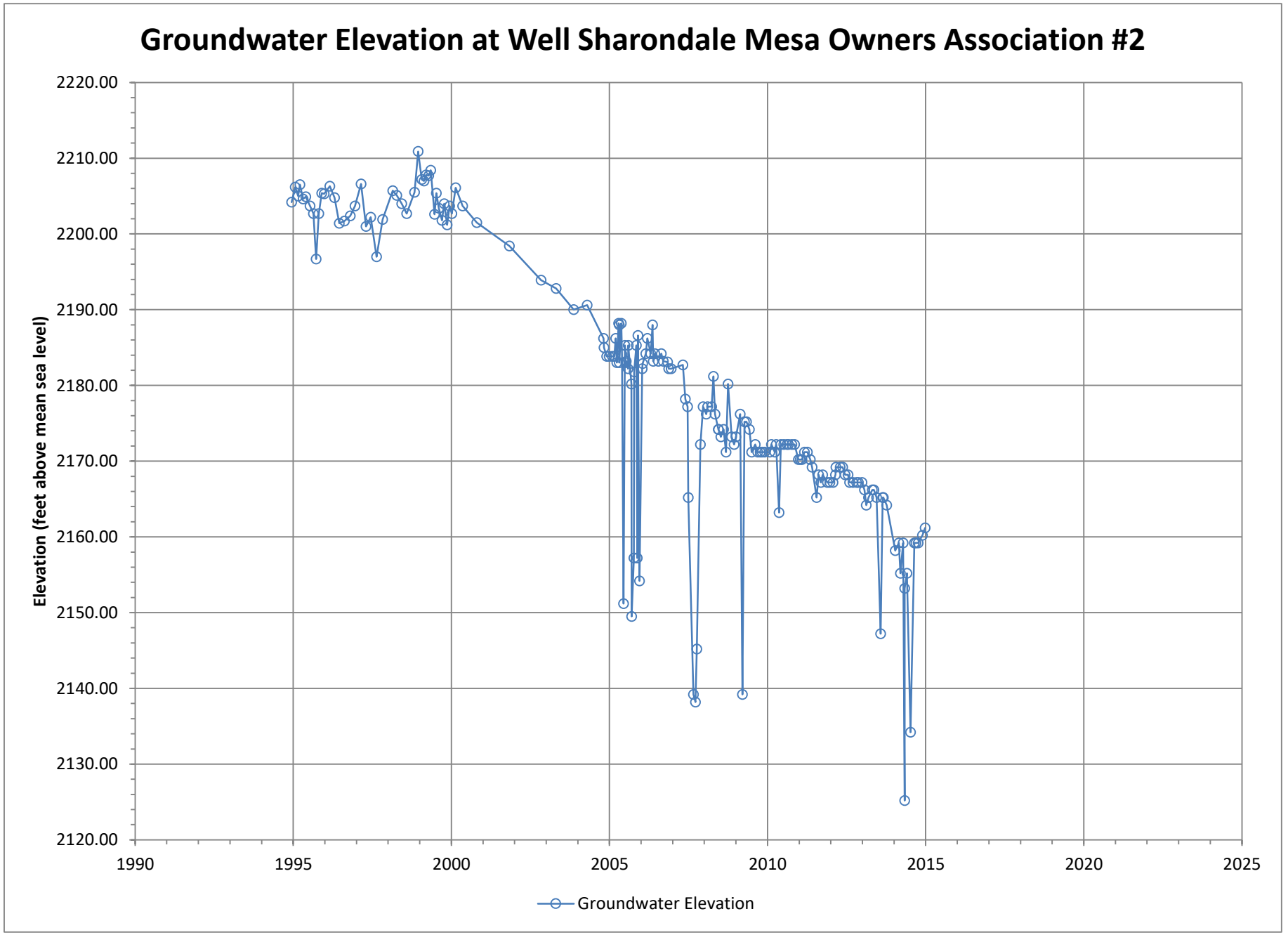
Groundwater Elevation at Well Sharondale Mesa Owners Association #2
Elevation (feet above mean sea level)
2220.00
2210.00
2200.00
2190.00
2180.00
2170.00
2160.00
2150.00
2140.00
2130.00
2120.00
1990
1995
2000
2005
2010
2015
2020
2025
Groundwater Elevation

Figure M-84

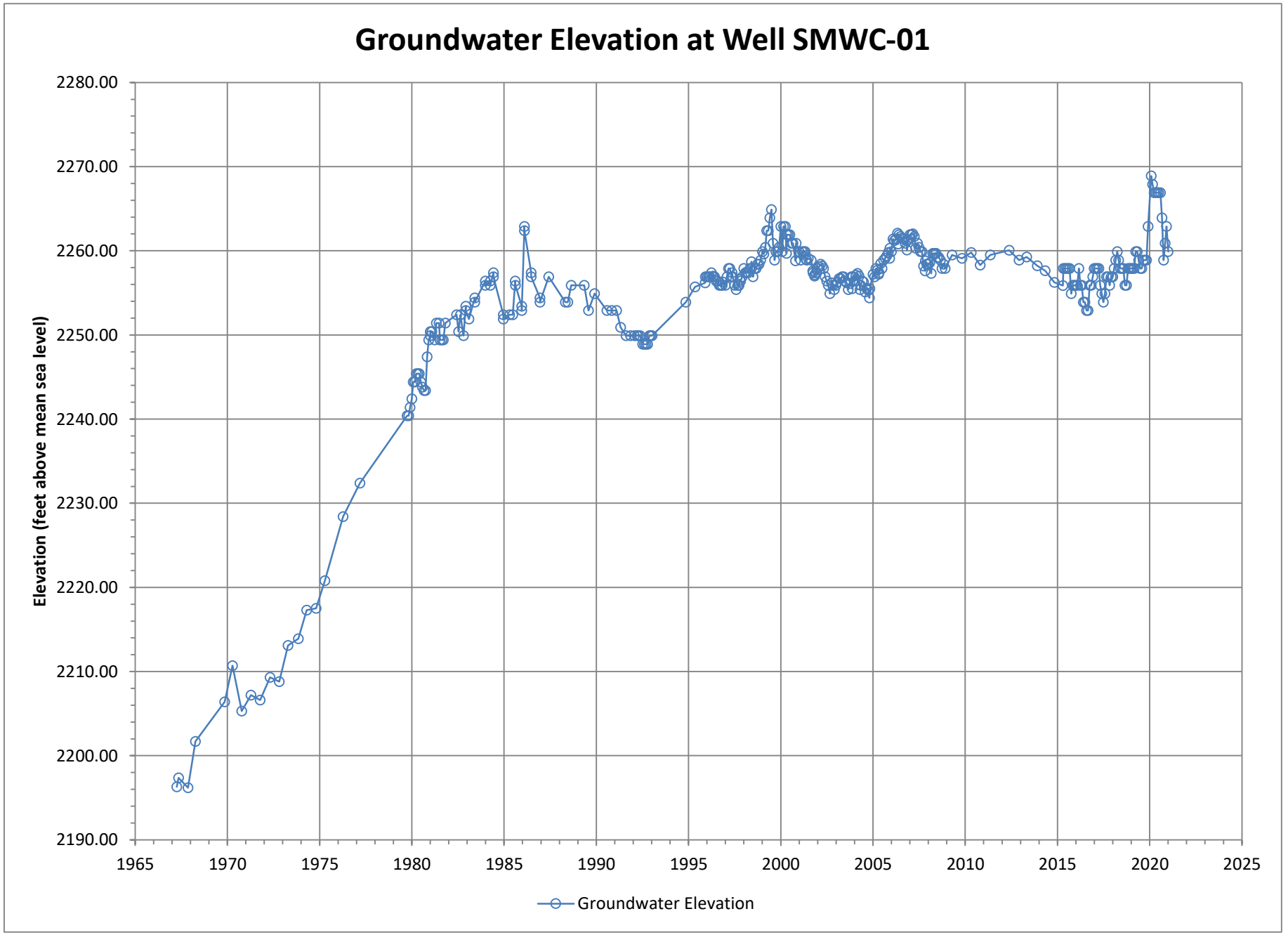
Groundwater Elevation at Well SMWC-01
Elevation (feet above mean sea level)
2280.00
2270.00
2260.00
2250.00
2240.00
2230.00
2220.00
2210.00
2200.00
2190.00
1965
1970
1975
1980
1985
1990
1995
2000
2005
2010
2015
2020
2025
Groundwater Elevation

Figure M-85

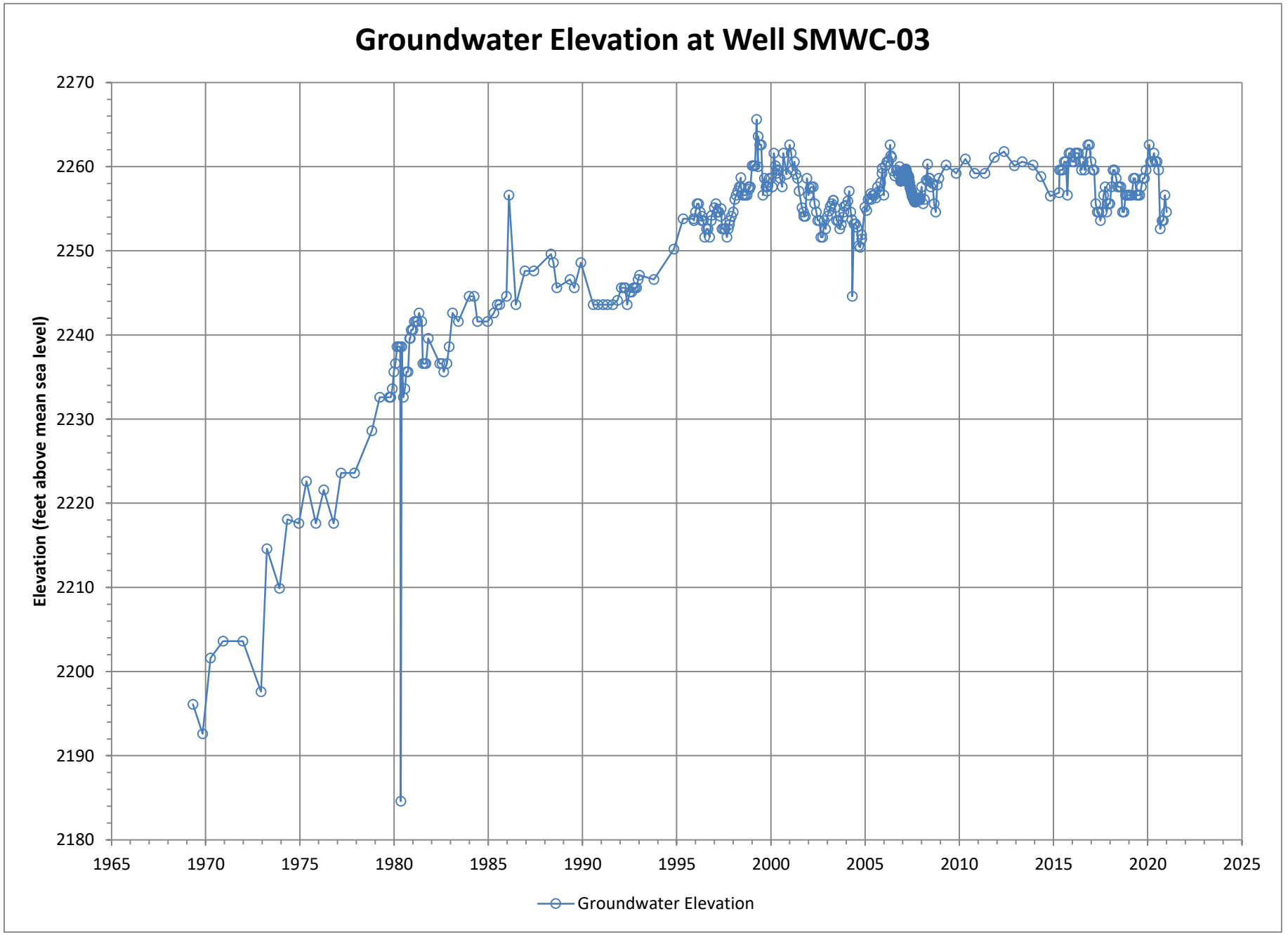
Groundwater Elevation at Well SMWC-03
Elevation (feet above mean sea level)
2270
2260
2250
2240
2230
2220
2210
2200
2190
2180
1965
1970
1975
1980
1985
1990
1995
2000
2005
2010
2015
2020
2025
Groundwater Elevation

Figure M-86

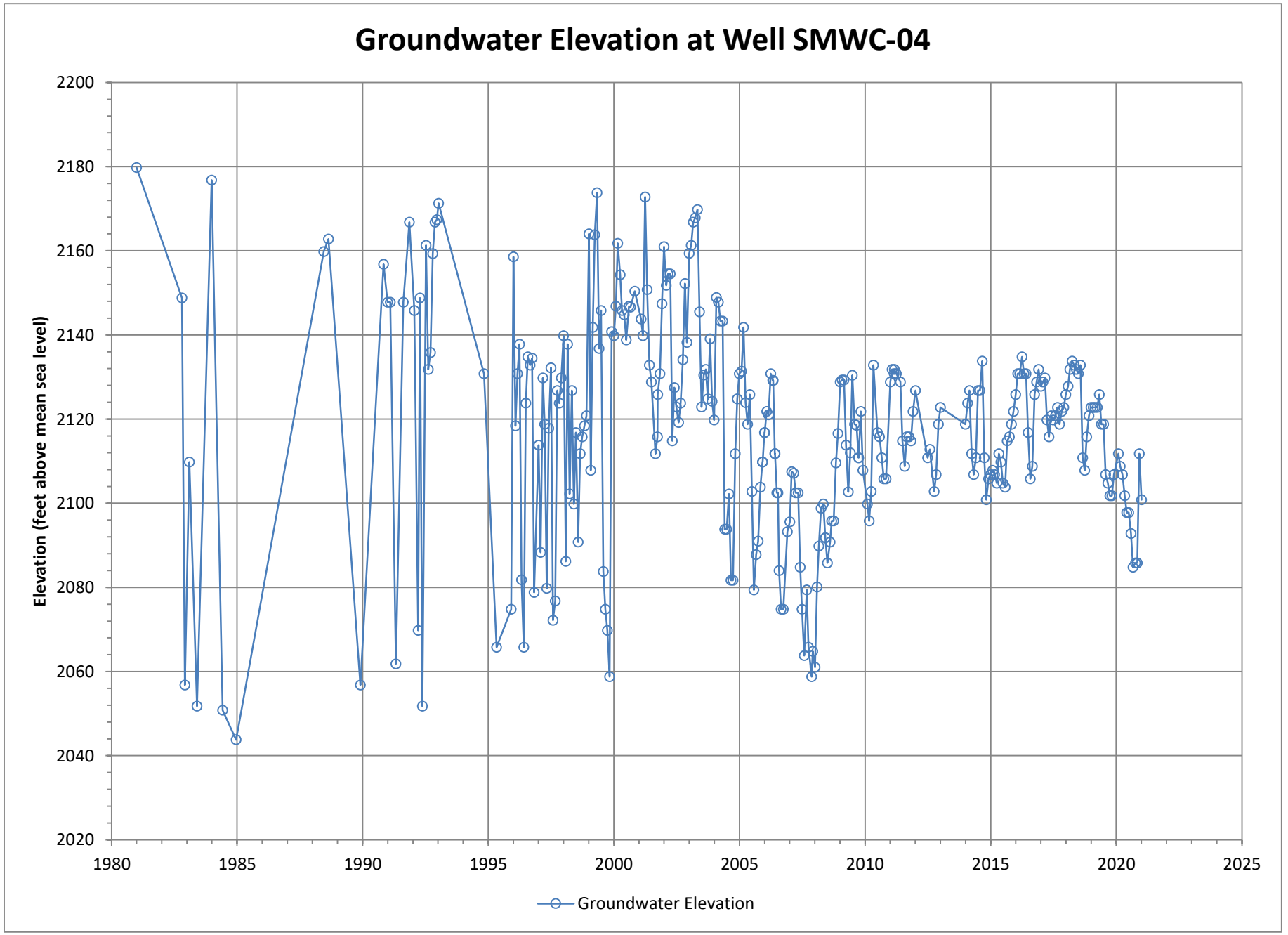
Groundwater Elevation at Well SMWC-04
Elevation (feet above mean sea level)
2200
2180
2160
2140
2120
2100
2080
2060
2040
2020
1980
1985
1990
1995
2000
2005
2010
2015
2020
2025
Groundwater Elevation

Figure M-87

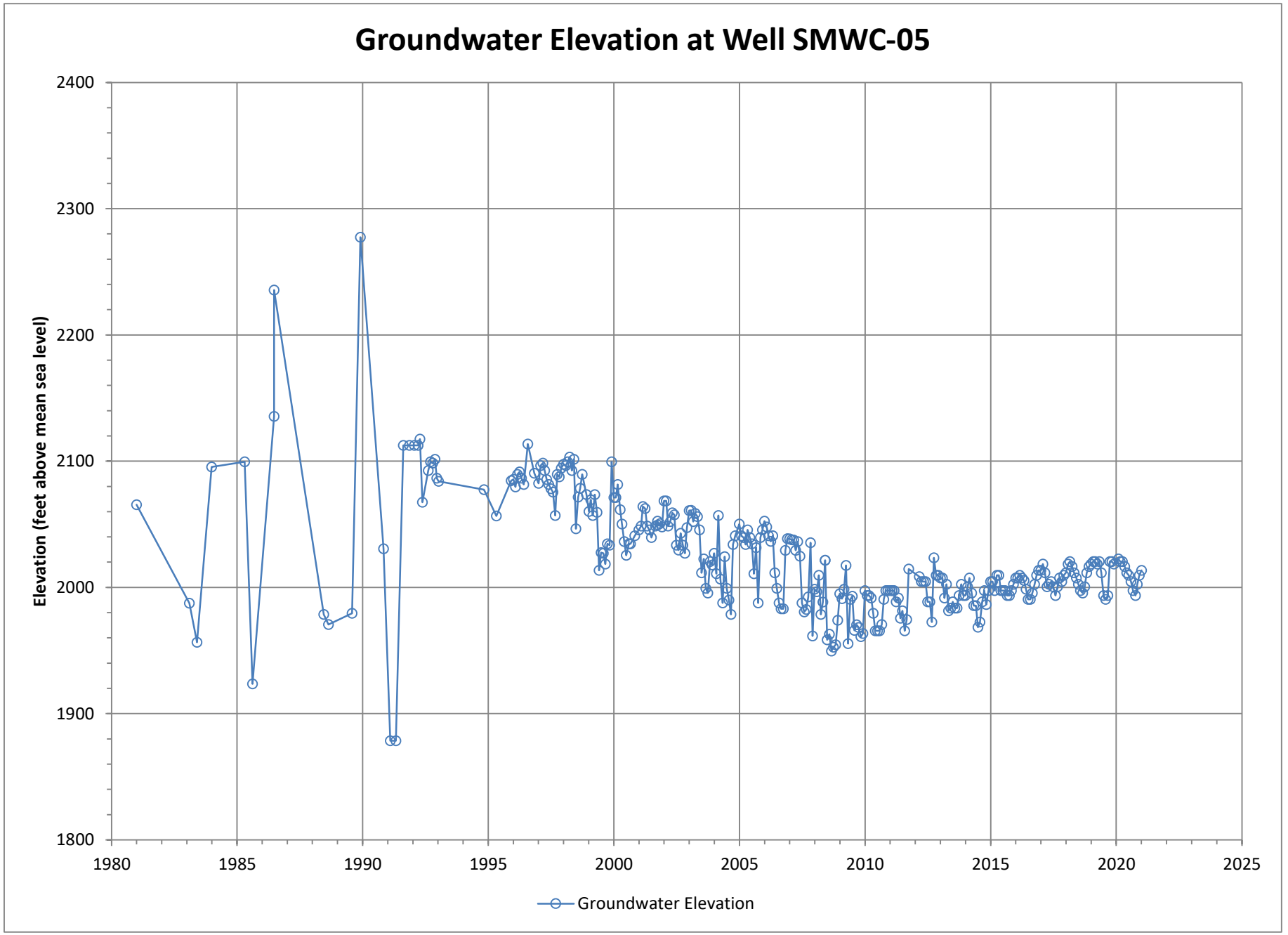
Groundwater Elevation at Well SMWC-05
Elevation (feet above mean sea level)
2400
2300
2200
2100
2000
1900
1800
1980
1985
1990
1995
2000
2005
2010
2015
2020
2025
Groundwater Elevation

Figure M-88

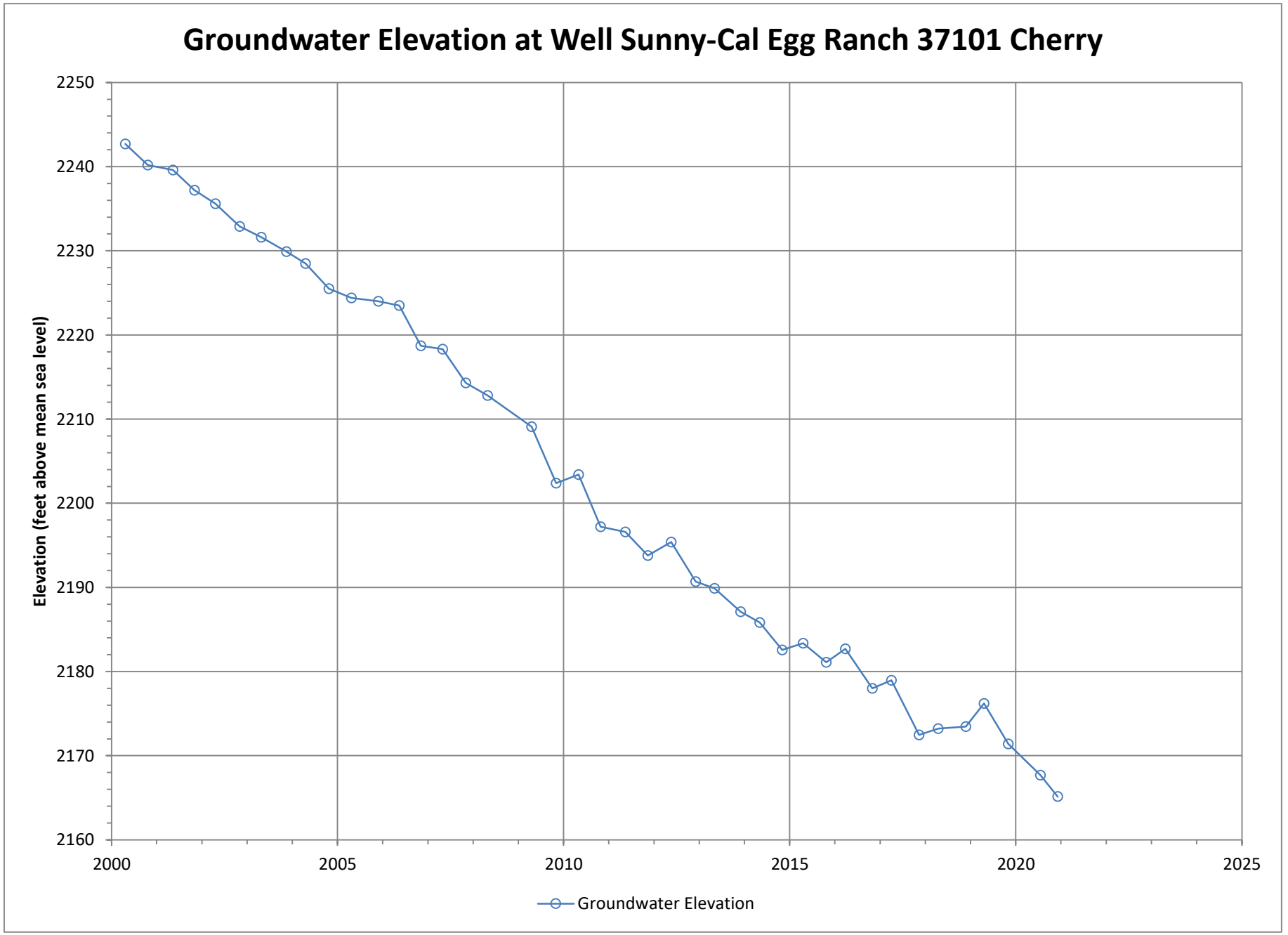
Groundwater Elevation at Well Sunny-Cal Egg Ranch 37101 Cherry
Elevation (feet above mean sea level)
2250
2240
2230
2220
2210
2200
2190
2180
2170
2160
2000
2005
2010
2015
2020
2025
Groundwater Elevation

Figure M-89

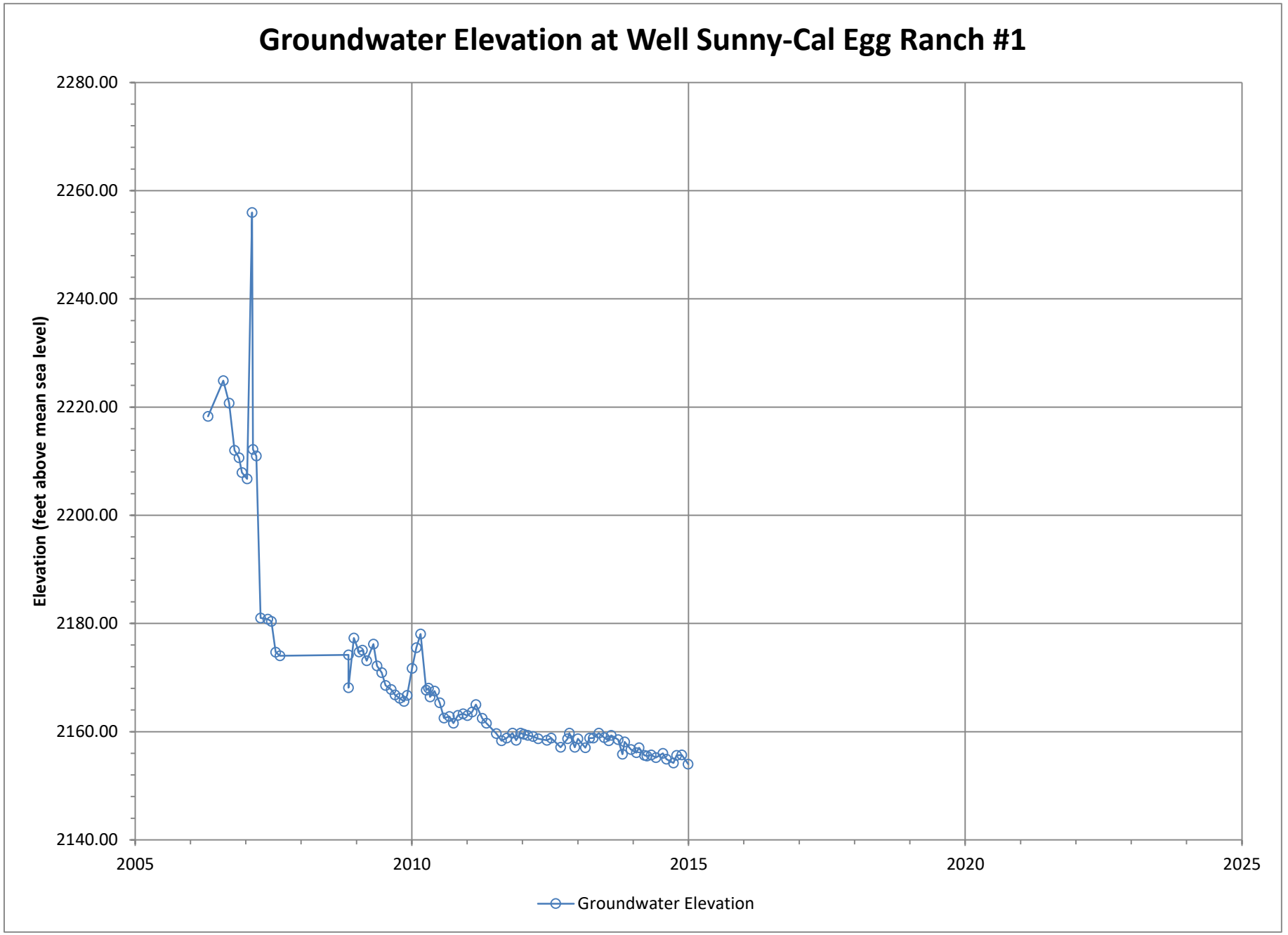
Groundwater Elevation at Well Sunny-Cal Egg Ranch #1
Elevation (feet above mean sea level)
2280.00
2260.00
2240.00
2220.00
2200.00
2180.00
2160.00
2140.00
2005
2010
2015
2020
2025
Groundwater Elevation

Figure M-90

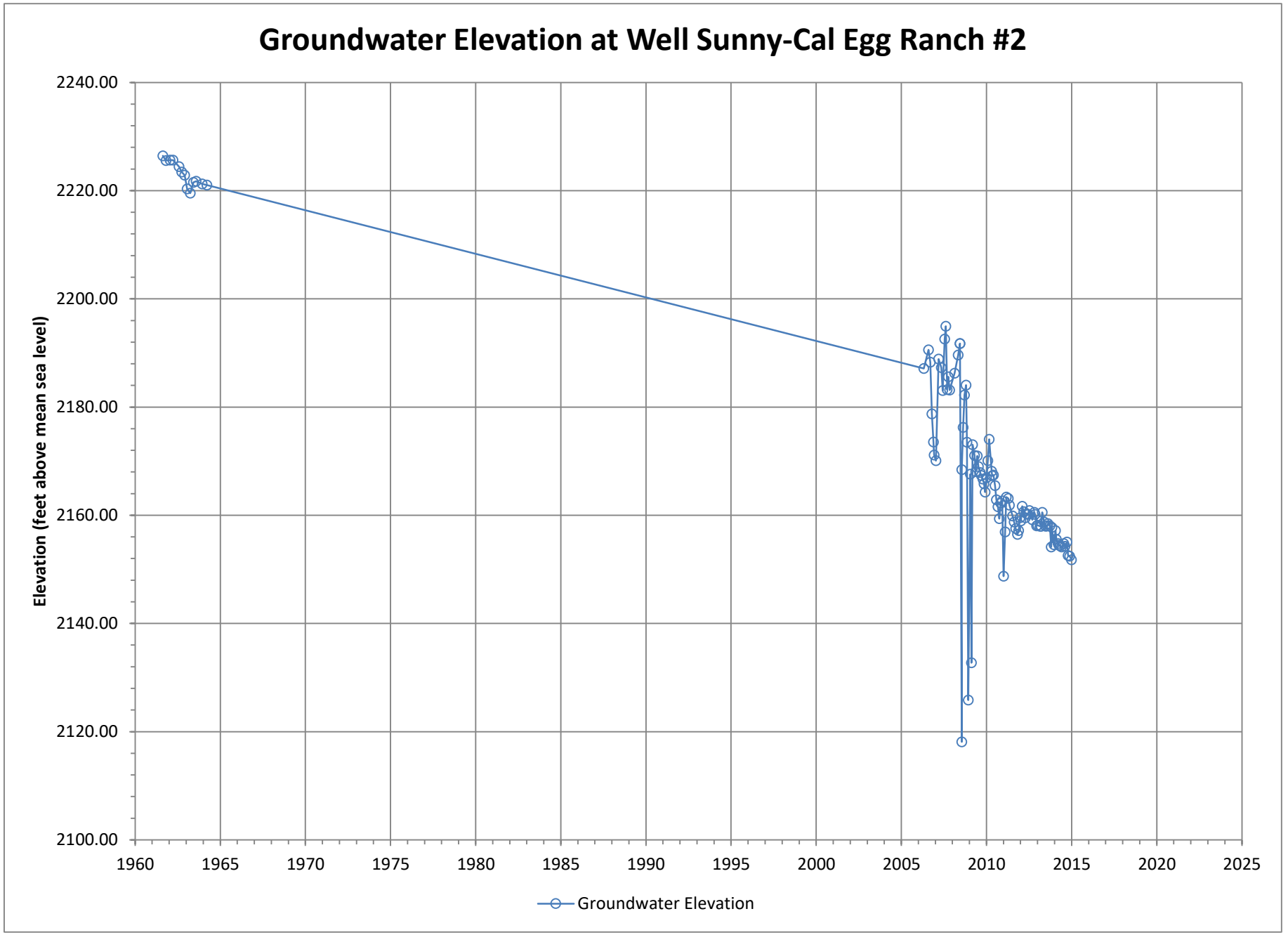
Groundwater Elevation at Well Sunny-Cal Egg Ranch #2
Elevation (feet above mean sea level)
2240.00
2220.00
2200.00
2180.00
2160.00
2140.00
2120.00
2100.00
1960
1965
1970
1975
1980
1985
1990
1995
2000
2005
2010
2015
2020
2025
Groundwater Elevation

Figure M-91

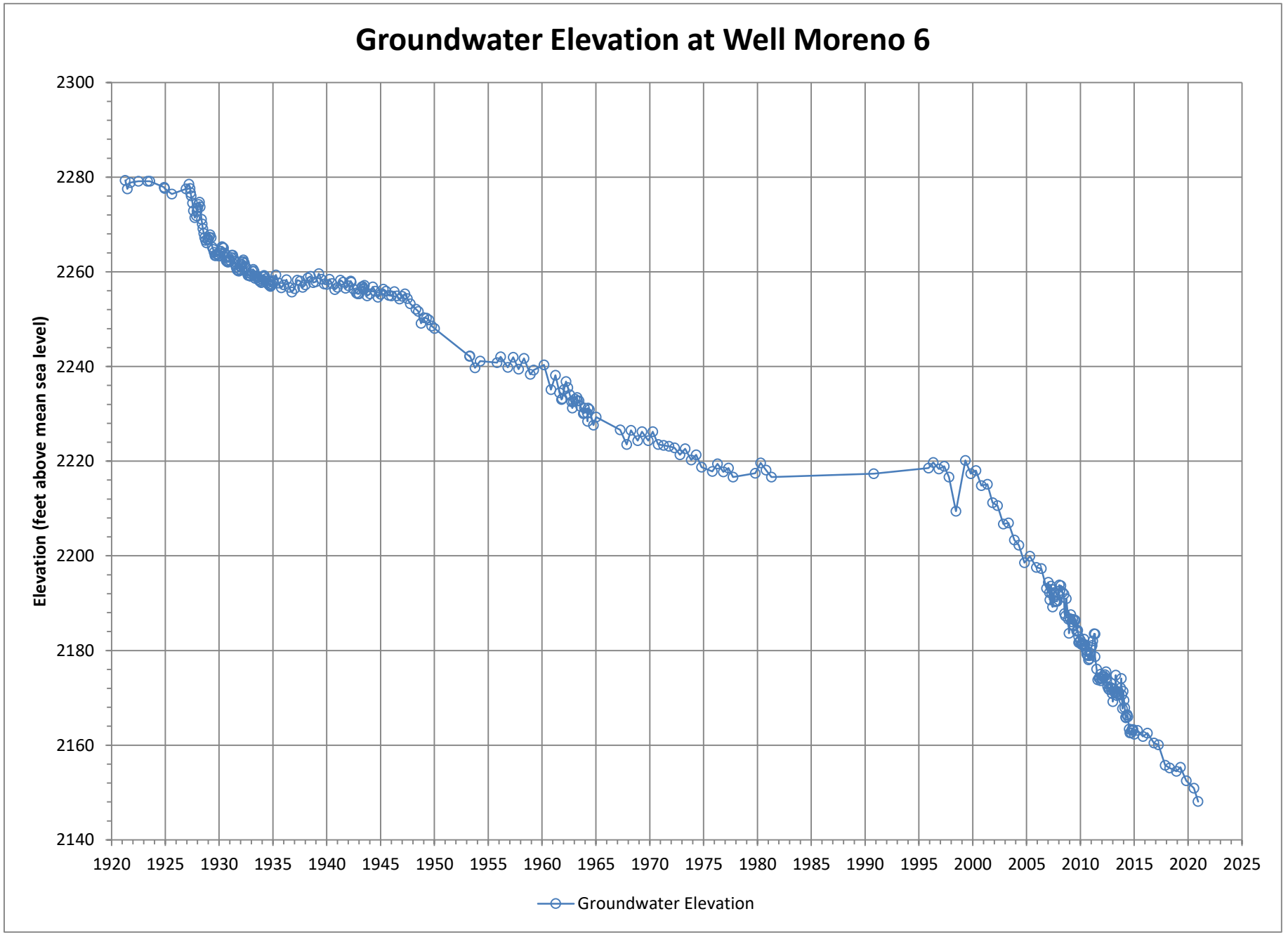
Groundwater Elevation at Well Moreno 6
Elevation (feet above mean sea level)
2300
2280
2260
2240
2220
2200
2180
2160
2140
1920
1925
1930
1935
1940
1945
1950
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
2005
2010
2015
2020
2025
Groundwater Elevation

Figure M-92

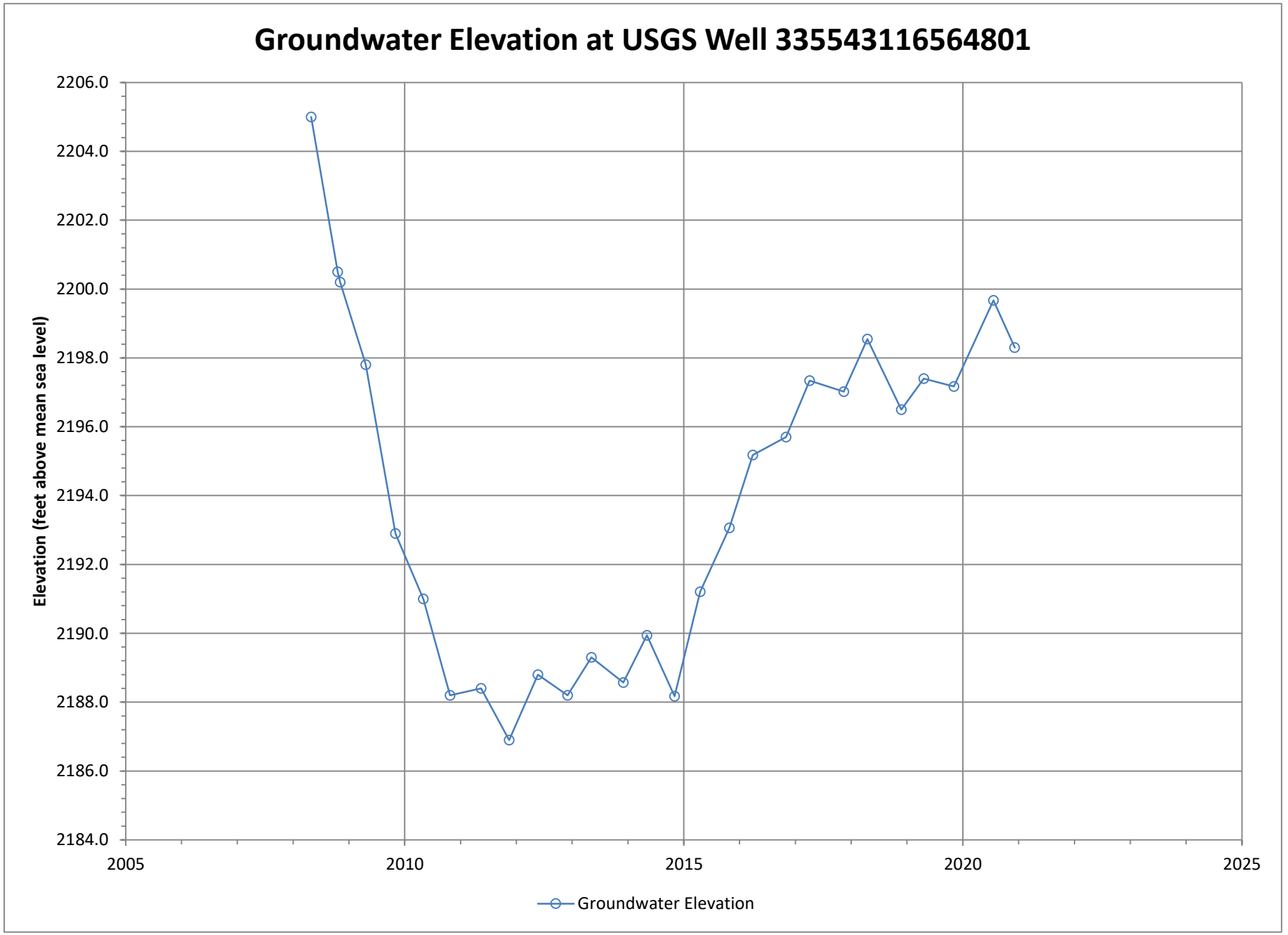
Groundwater Elevation at USGS Well 335543116564801
Elevation (feet above mean sea level)
2206.0
2204.0
2202.0
2200.0
2198.0
2196.0
2194.0
2192.0
2190.0
2188.0
2186.0
2184.0
2005
2010
2015
2020
2025
Groundwater Elevation

Figure M-93

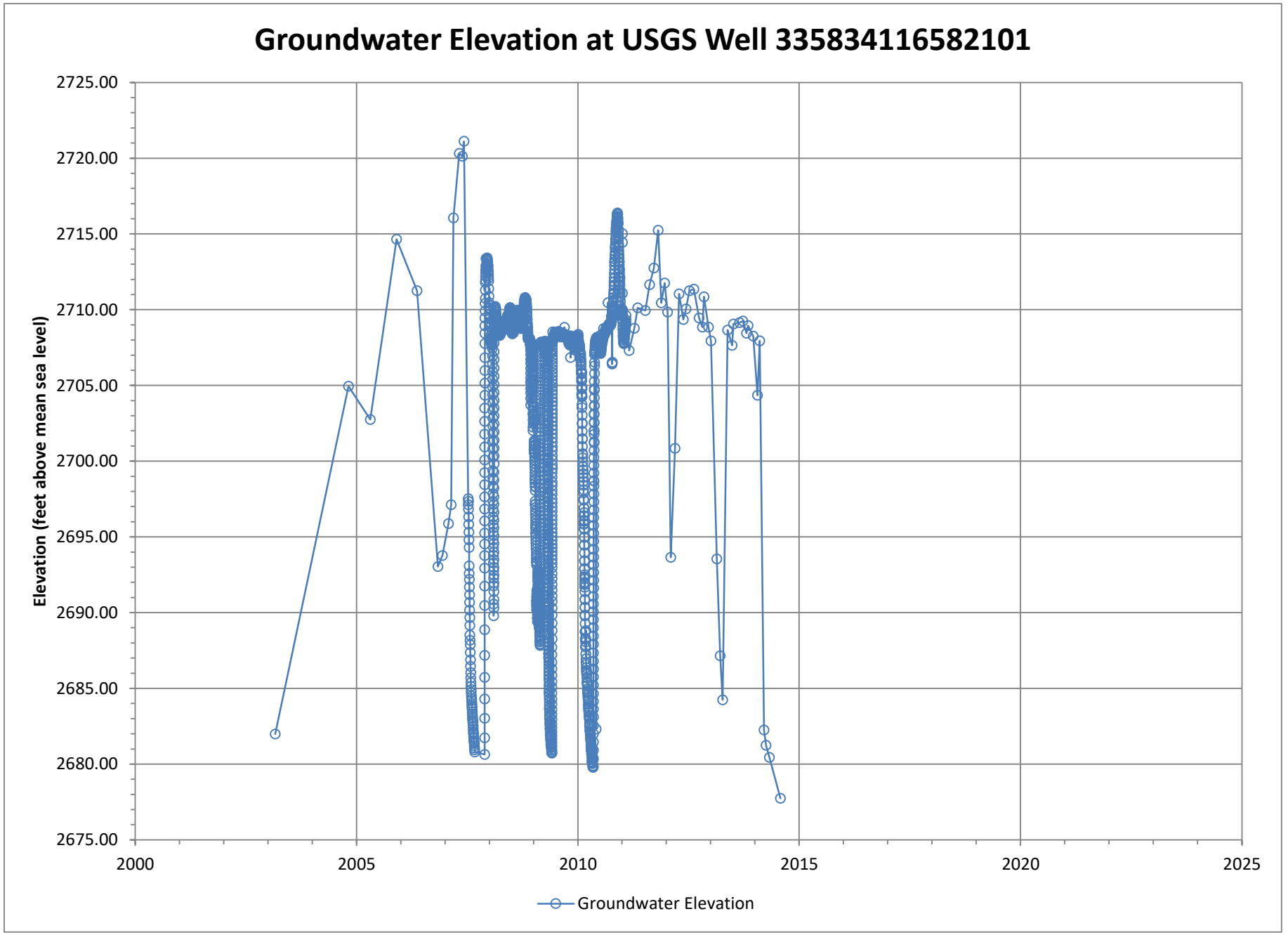
Groundwater Elevation at USGS Well 335834116582101
Elevation (feet above mean sea level)
2725.00
2720.00
2715.00
2710.00
2705.00
2700.00
2695.00
2690.00
2685.00
2680.00
2675.00
2000
2005
2010
2015
2020
2025
Groundwater Elevation

Figure M-94

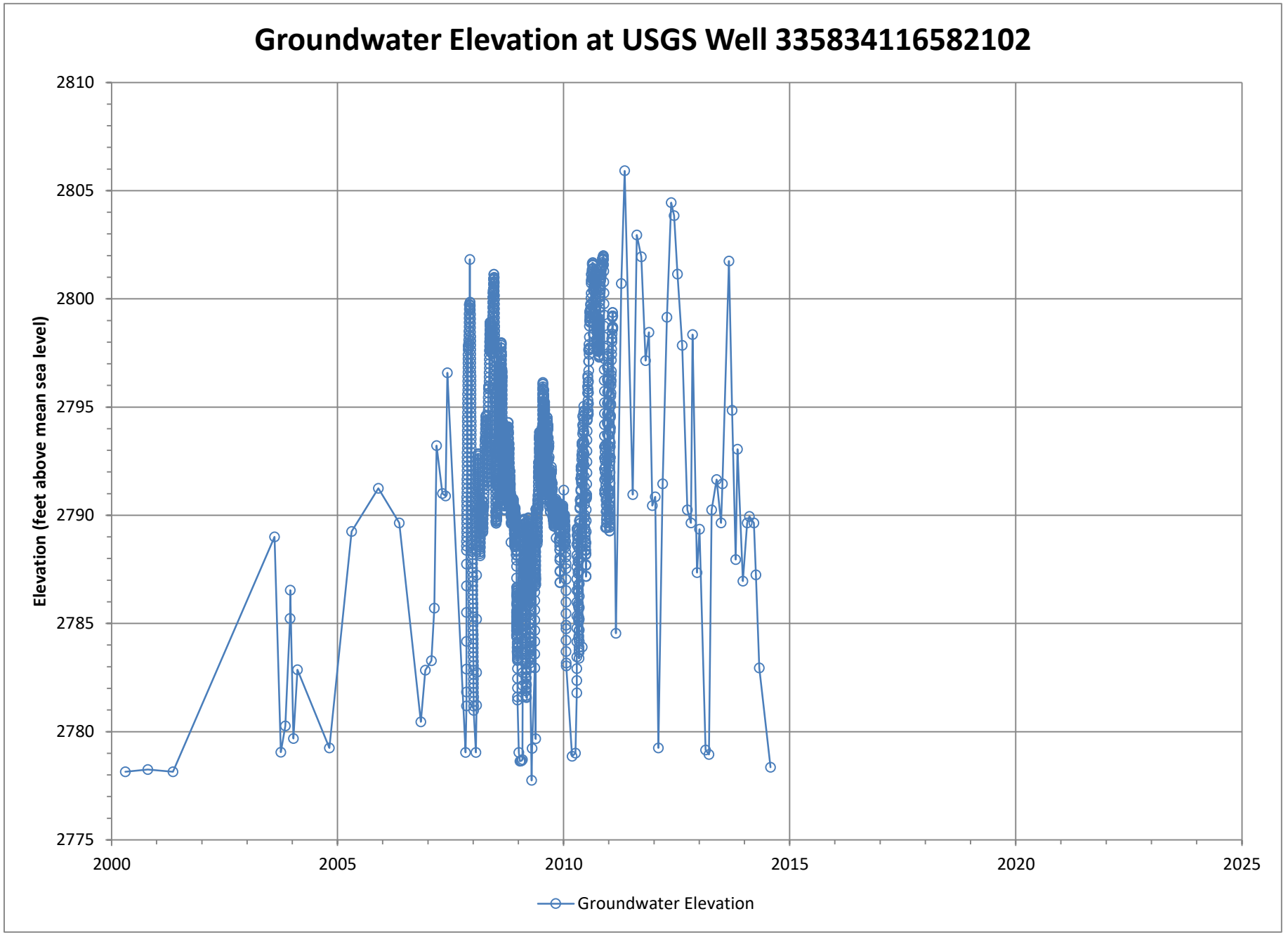
Groundwater Elevation at USGS Well 335834116582102
Elevation (feet above mean sea level)
2810
2805
2800
2795
2790
2785
2780
2775
2000
2005
2010
2015
2020
2025
Groundwater Elevation

Figure M-95

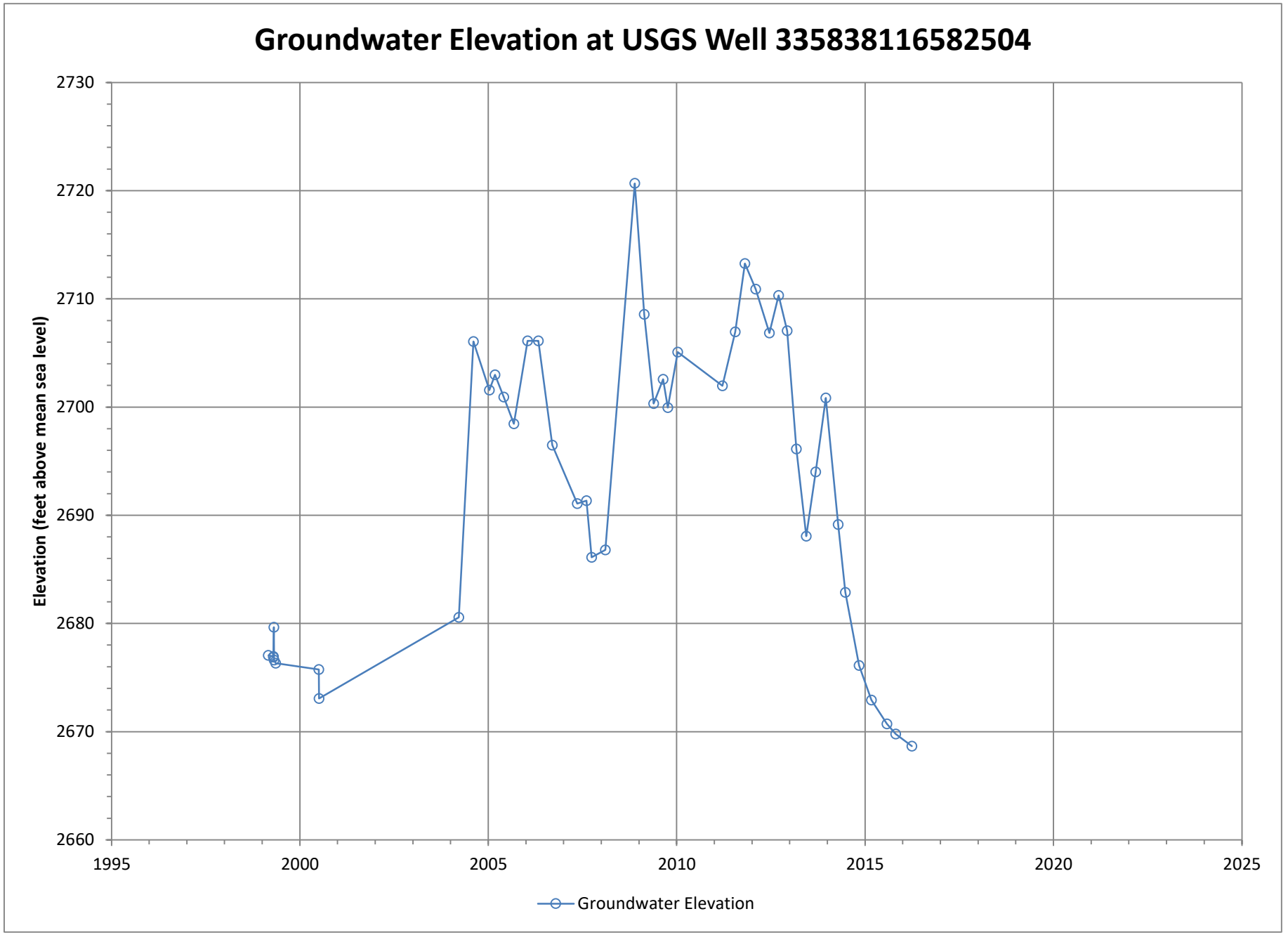
Groundwater Elevation at USGS Well 335838116582504
Elevation (feet above mean sea level)
2730
2720
2710
2700
2690
2680
2670
2660
1995
2000
2005
2010
2015
2020
2025
Groundwater Elevation

Figure M-96

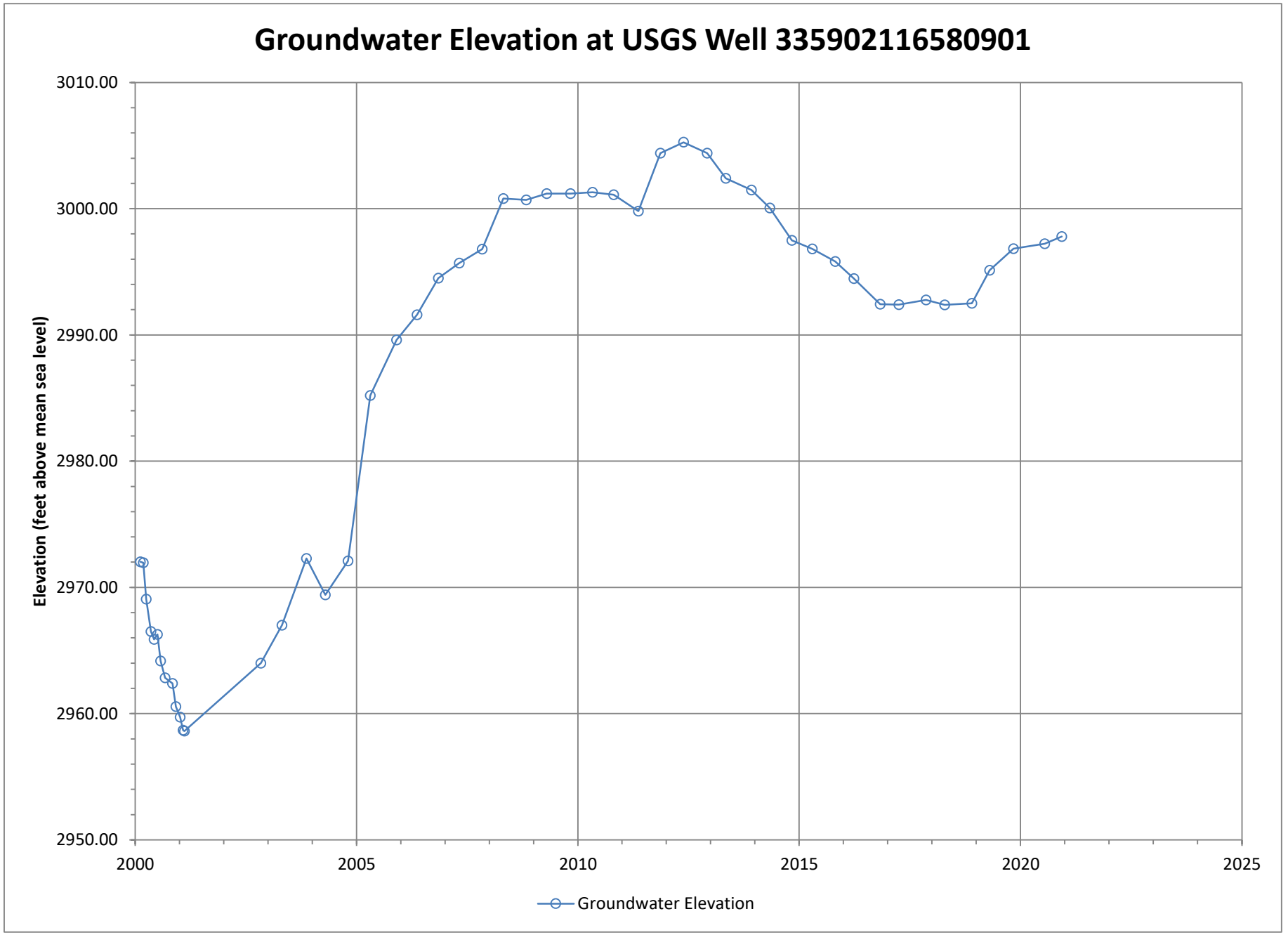
Groundwater Elevation at USGS Well 335902116580901
3010.00
3000.00
2990.00
2980.00
2970.00
2960.00
2950.00
Elevation (feet above mean sea level)
2000
2005
2010
2015
2020
2025
Groundwater Elevation

Figure M-97

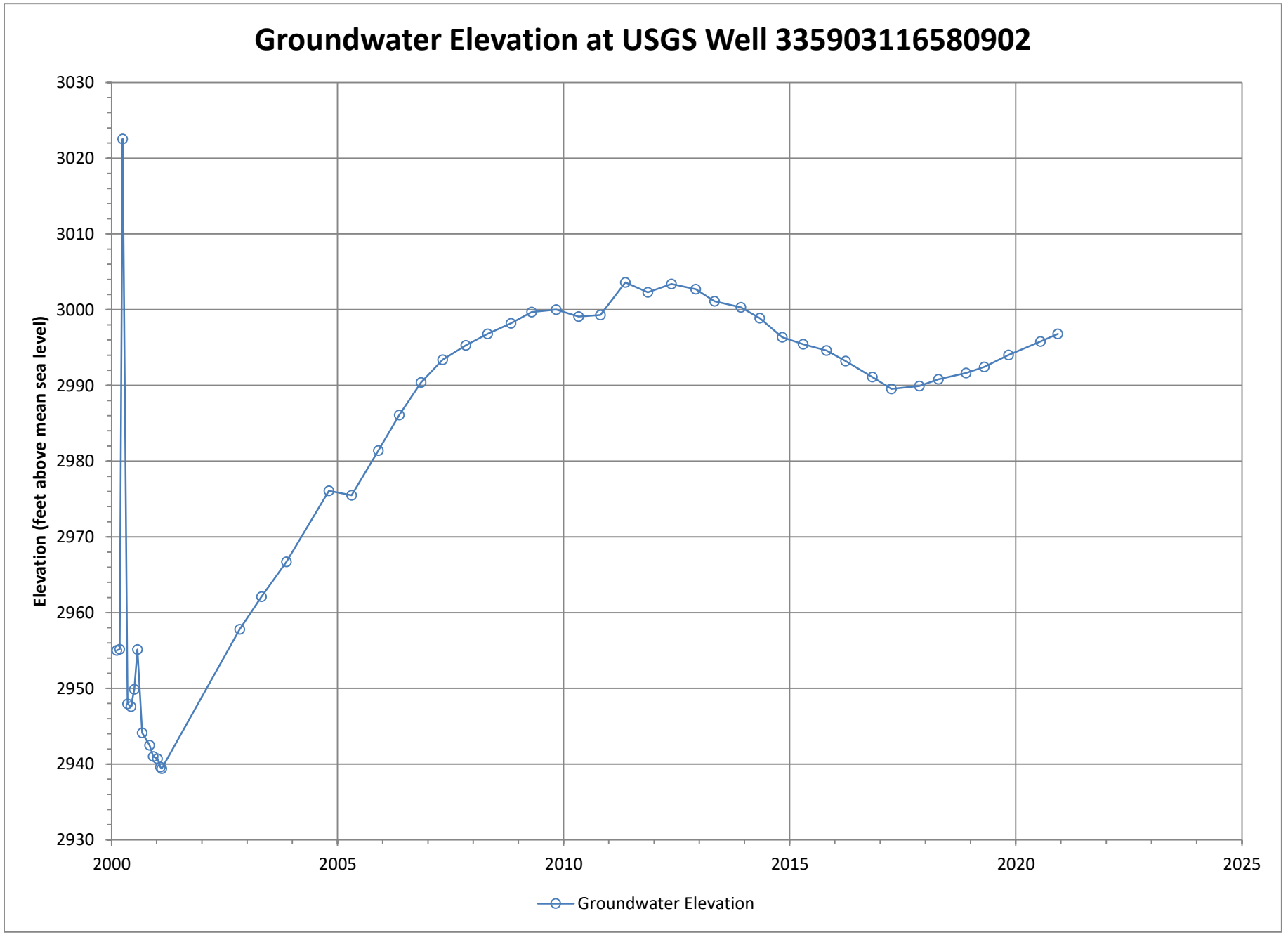
Groundwater Elevation at USGS Well 335903116580902
Elevation (feet above mean sea level)
3030
3020
3010
3000
2990
2980
2970
2960
2950
2940
2930
2000
2005
2010
2015
2020
2025
Groundwater Elevation

Figure M-98

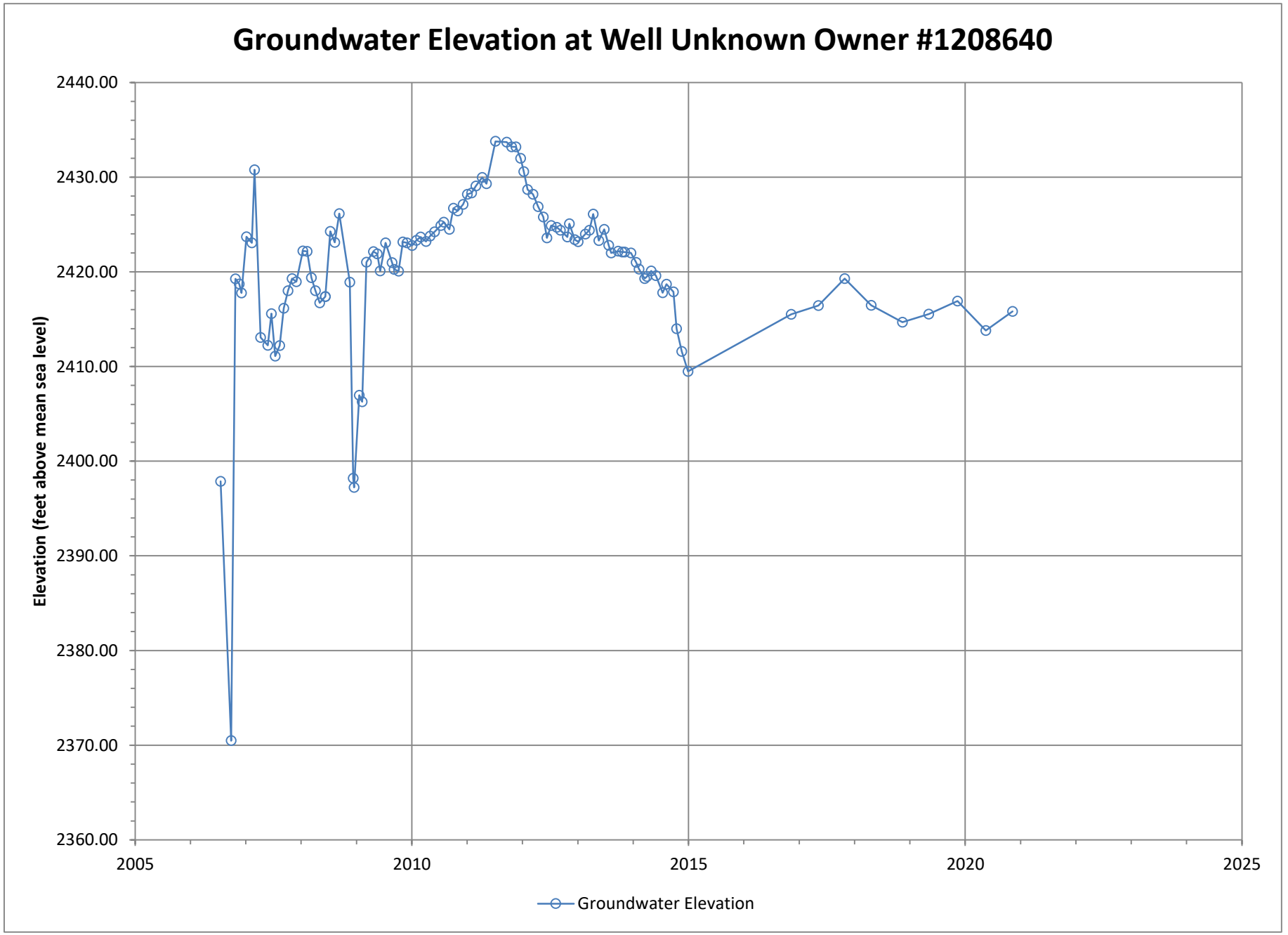
Groundwater Elevation at Well Unknown Owner #1208640
Elevation (feet above mean sea level)
2440.00
2430.00
2420.00
2410.00
2400.00
2390.00
2380.00
2370.00
2360.00
2005
2010
2015
2020
2025
Groundwater Elevation

Figure M-99

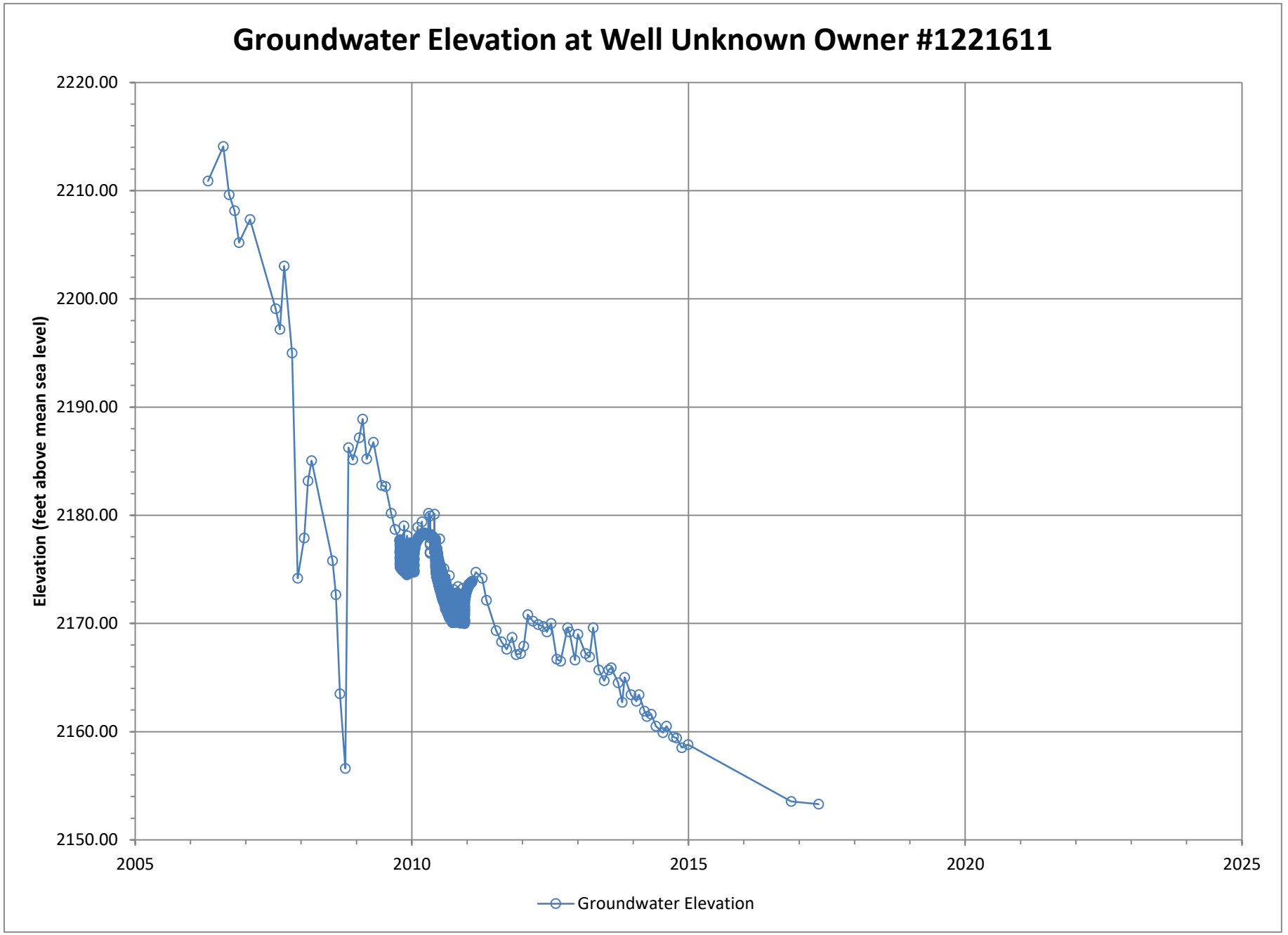
Groundwater Elevation at Well Unknown Owner #1221611
Elevation (feet above mean sea level)
2220.00
2210.00
2200.00
2190.00
2180.00
2170.00
2160.00
2150.00
2005
2010
2015
2020
2025
Groundwater Elevation

Figure M-100

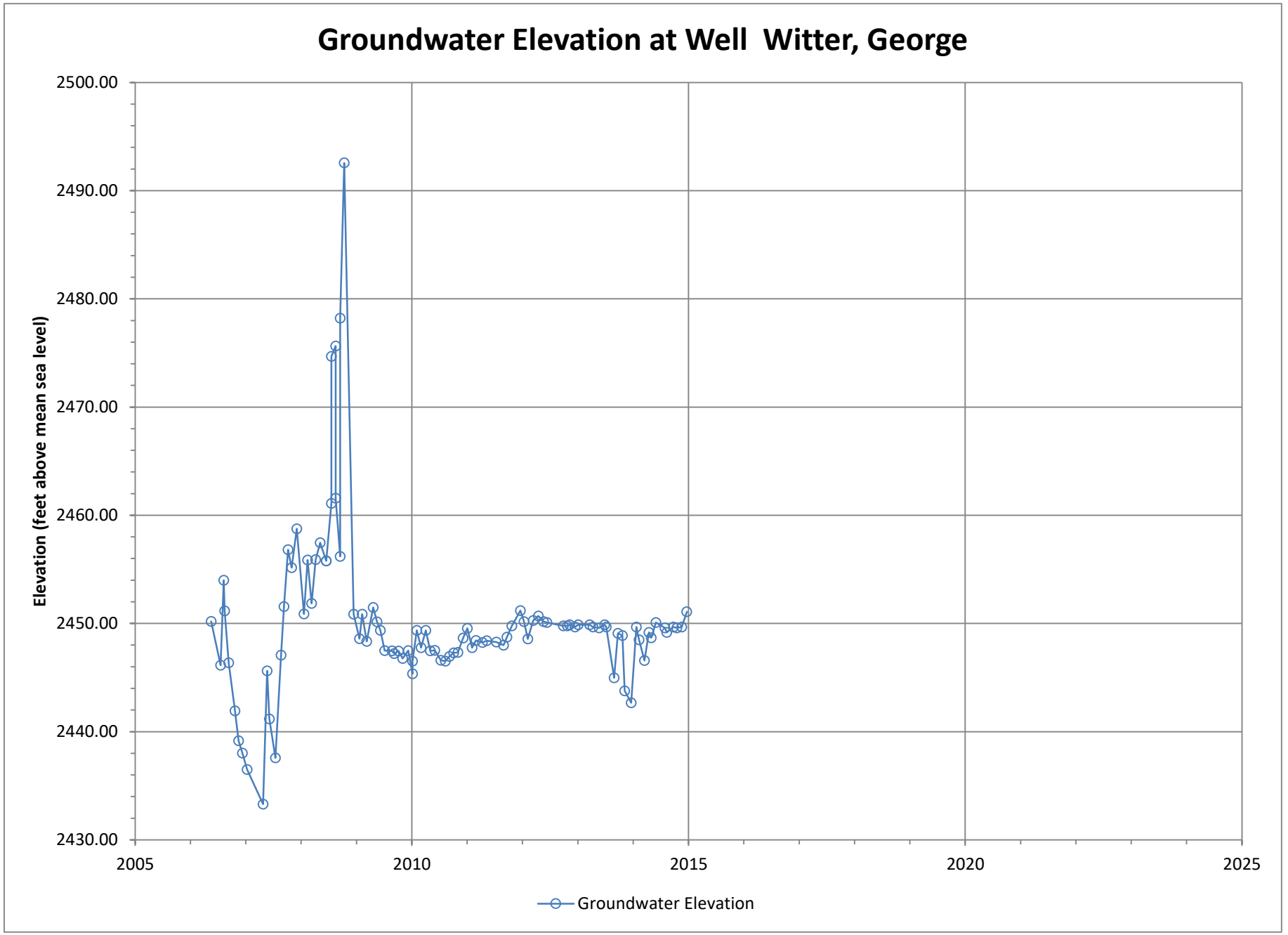
Groundwater Elevation at Well Witter, George
Elevation (feet above mean sea level)
2500.00
2490.00
2480.00
2470.00
2460.00
2450.00
2440.00
2430.00
2005
2010
2015
2020
2025
Groundwater Elevation

Figure M-101

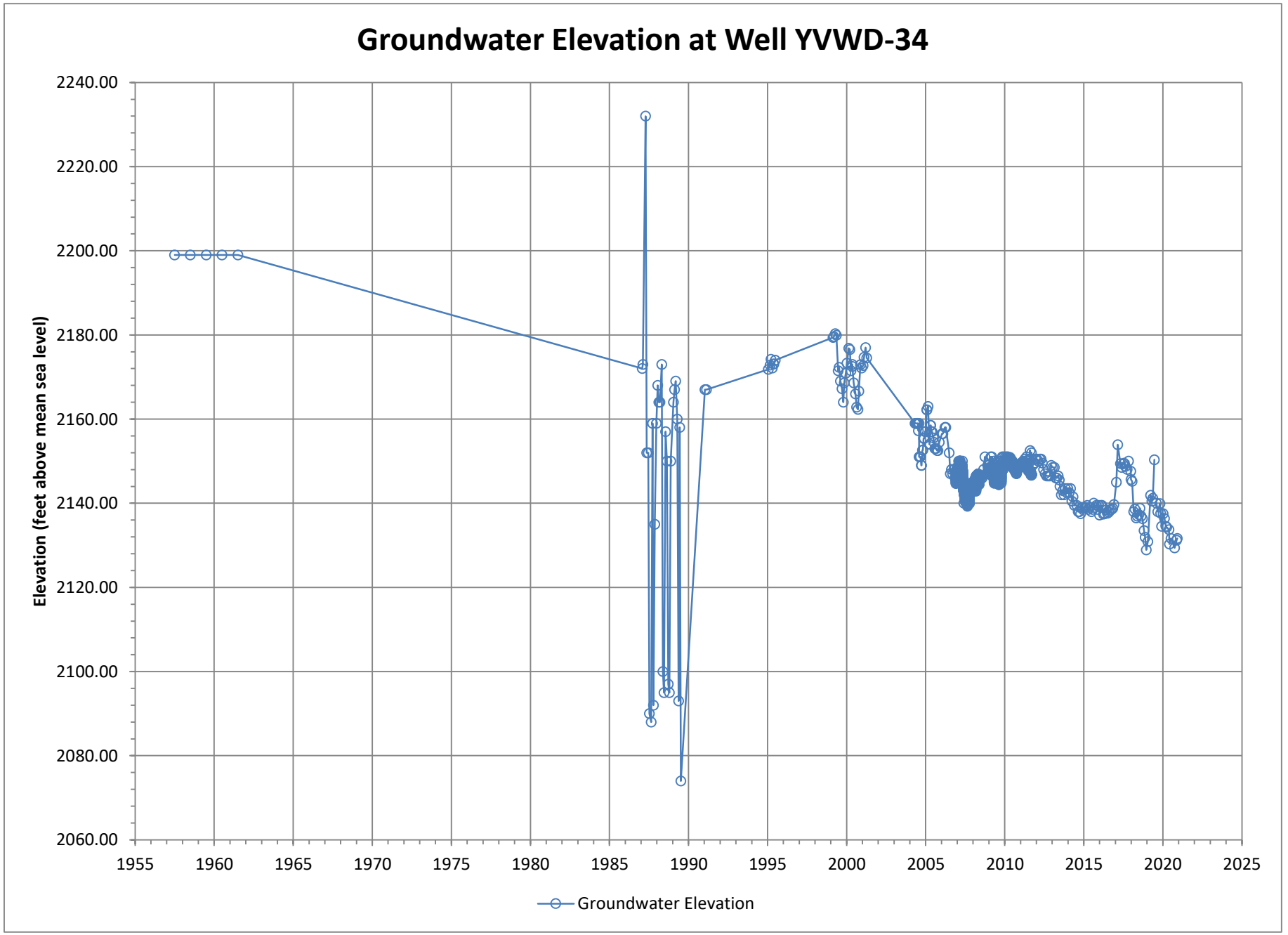
Groundwater Elevation at Well YVWD-34
Elevation (feet above mean sea level)
2240.00
2220.00
2200.00
2180.00
2160.00
2140.00
2120.00
2100.00
2080.00
2060.00
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
2005
2010
2015
2020
2025
Groundwater Elevation

Figure M-102

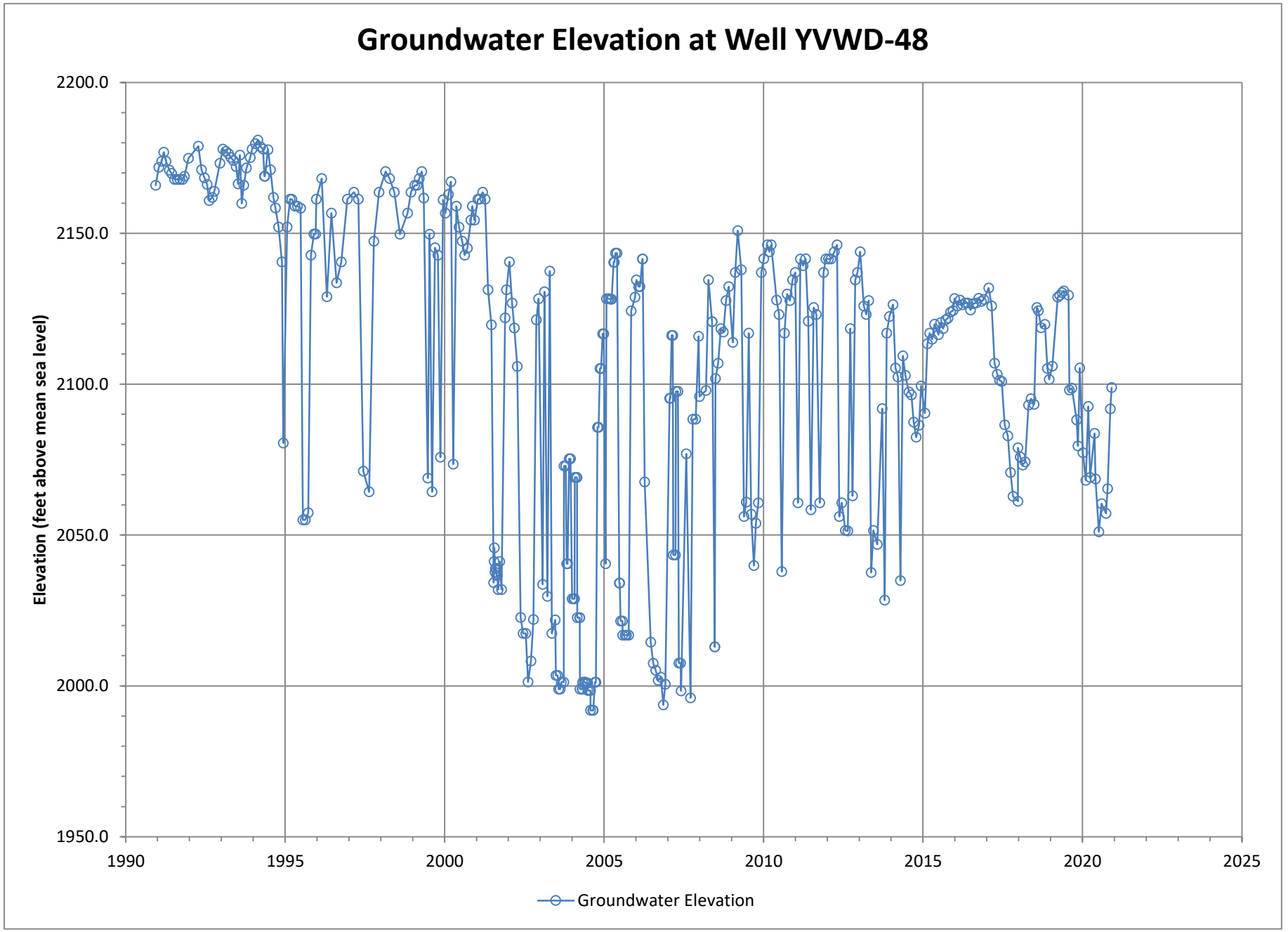
Groundwater Elevation at Well YVWD-48
Elevation (feet above mean sea level)
2200.0
2150.0
2100.0
2050.0
2000.0
1950.0
1990
1995
2000
2005
2010
2015
2020
2025
Groundwater Elevation

Figure M-103

APPENDIX N

Hydrographs of Total Dissolved Solids and Nitrate (as Nitrogen) Groundwater Concentrations at Wells in the Beaumont Groundwater Management Zone

APPENDIX N

Groundwater Quality Hydrographs for Beaumont Groundwater Management Zone

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Figure

Figure

Total Dissolved Solids and Nitrate (as Nitrogen) at Well Almo, M.C.

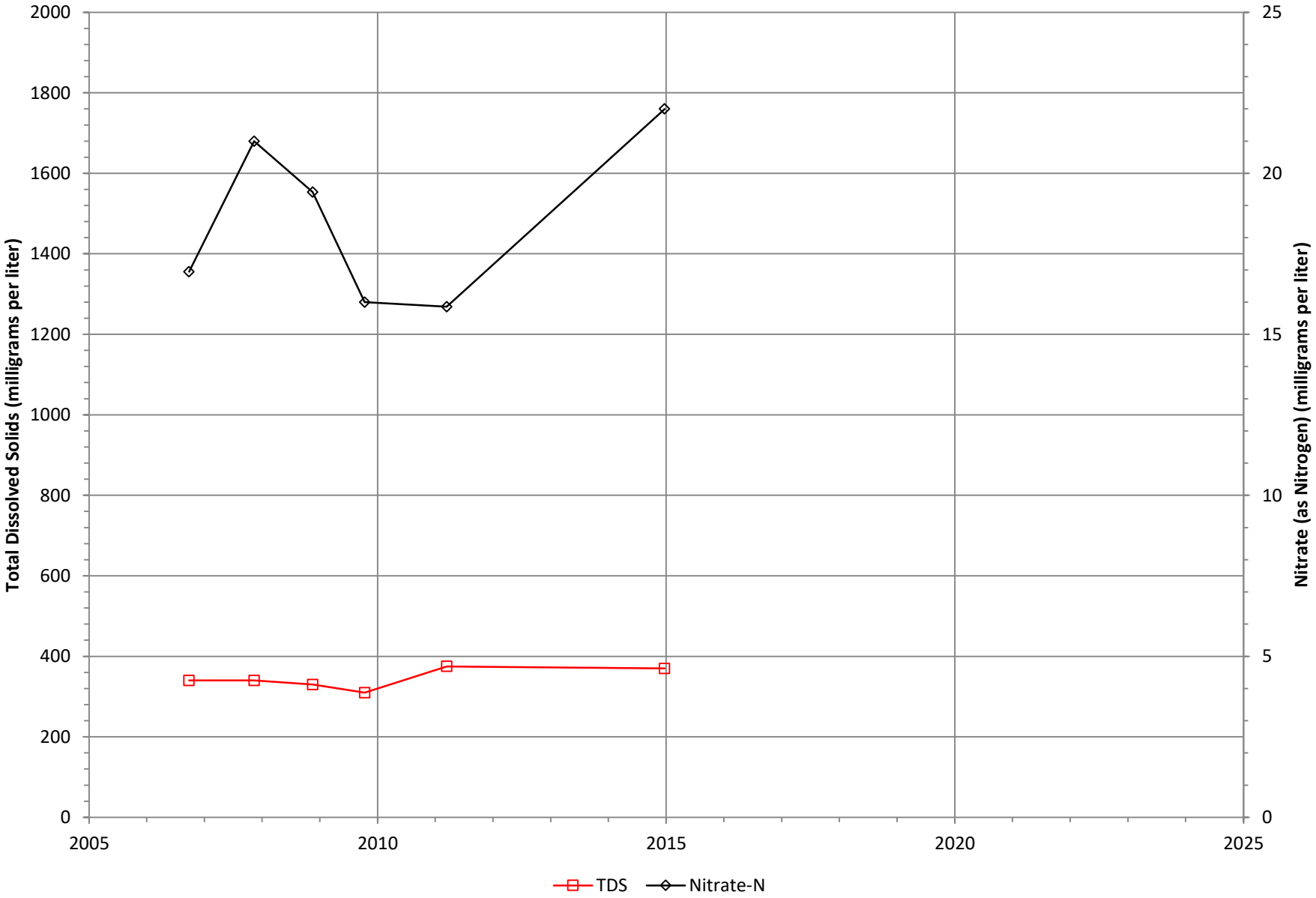

Figure N-1

Total Dissolved Solids and Nitrate (as Nitrogen) at Well Sunny Slope Cemetery (Formally Beaumont Cemetery #2)

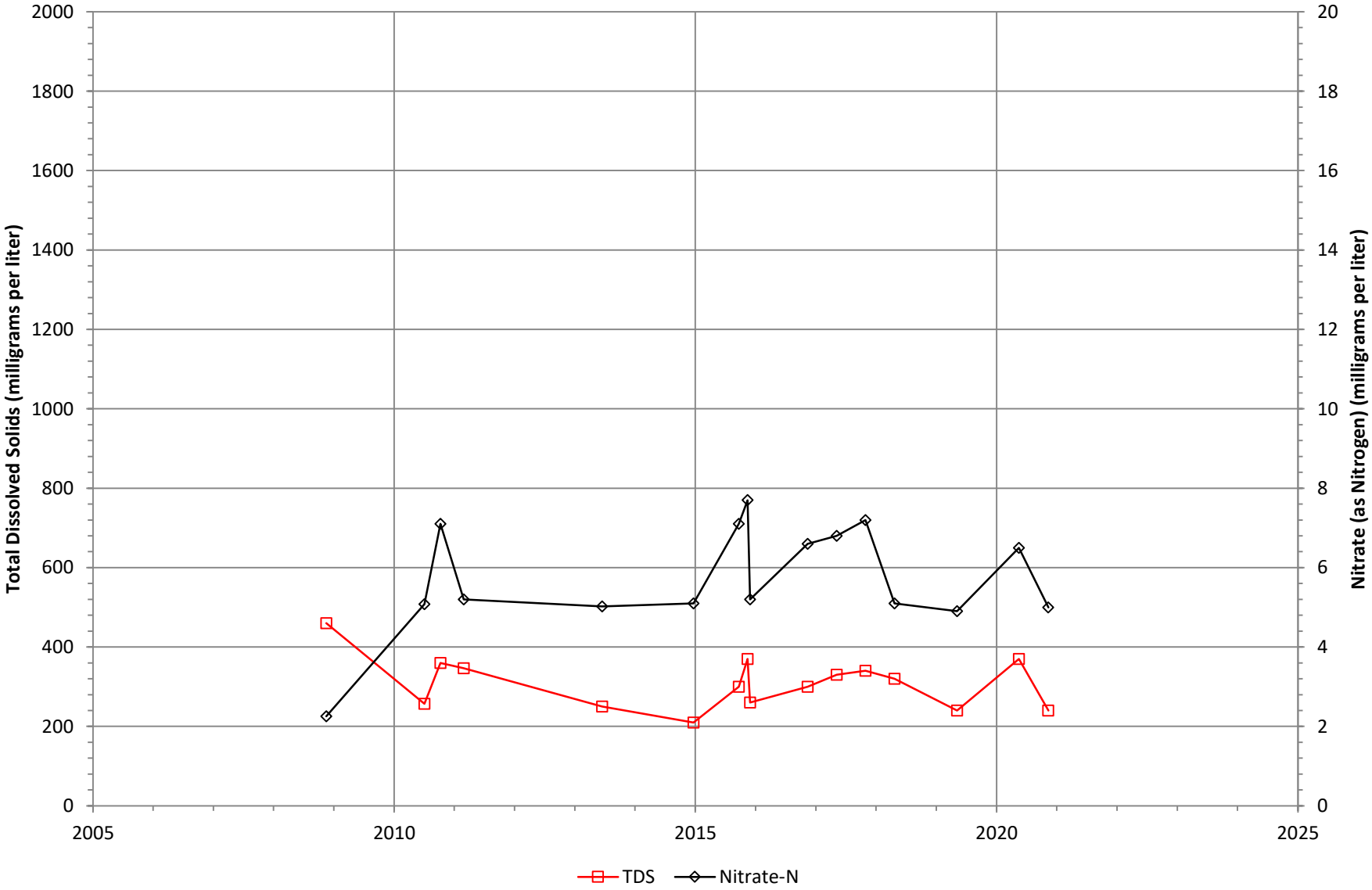

Figure N-2

Total Dissolved Solids and Nitrate (as Nitrogen) at Well BCVWD-01

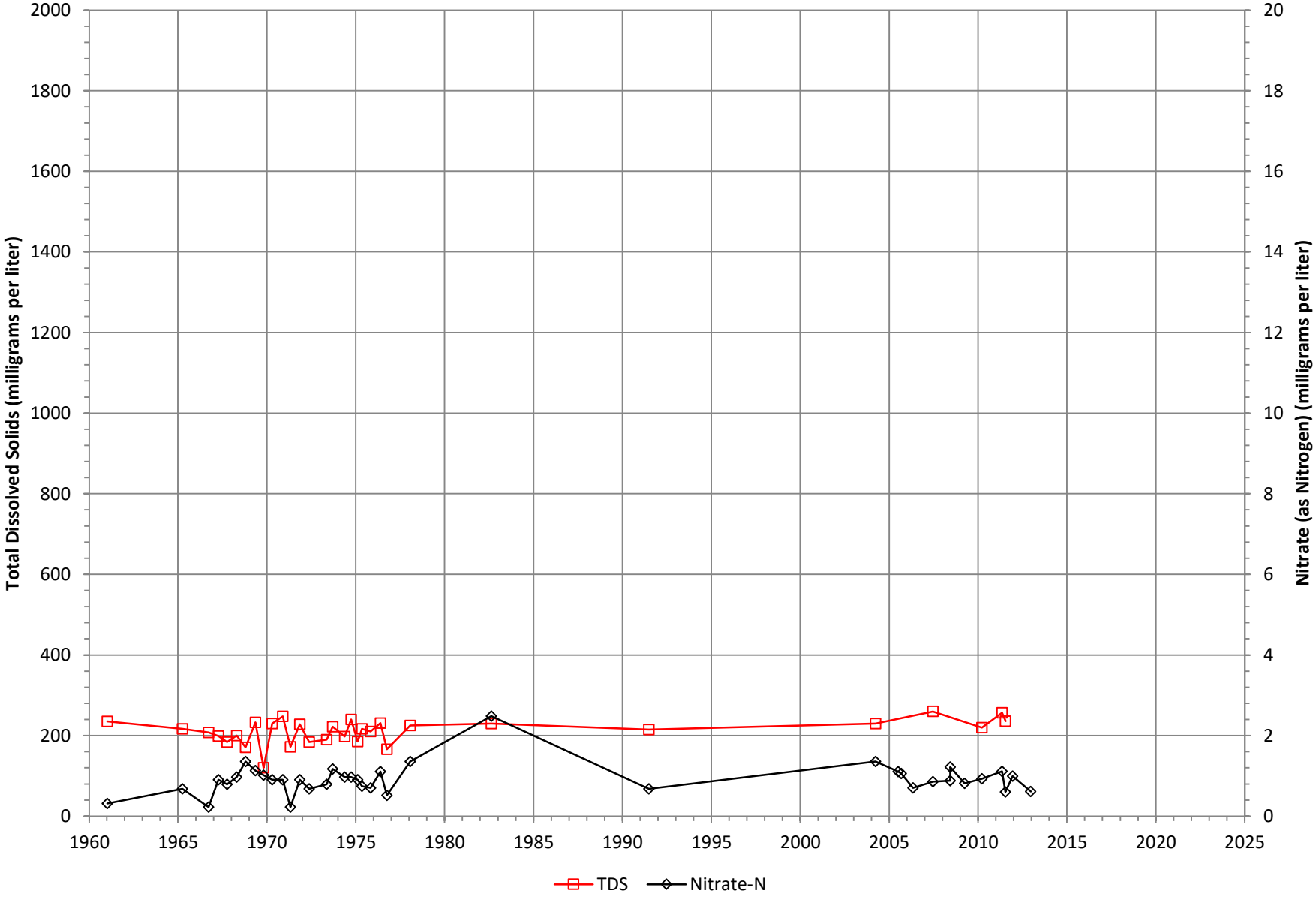

Figure N-3

Total Dissolved Solids and Nitrate (as Nitrogen) at Well BCVWD-03

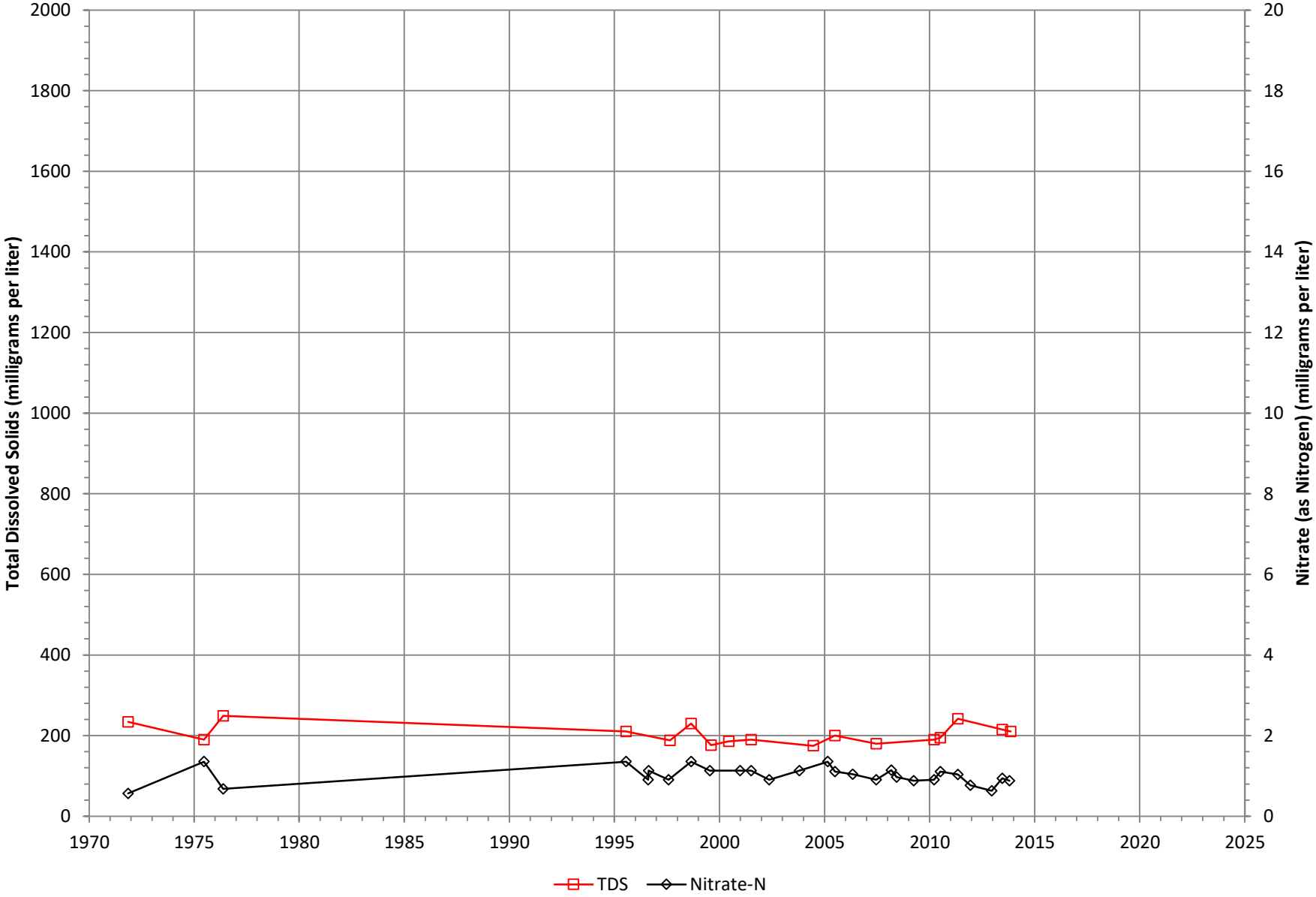

Figure N-4

Total Dissolved Solids and Nitrate (as Nitrogen) at Well BCVWD-04A

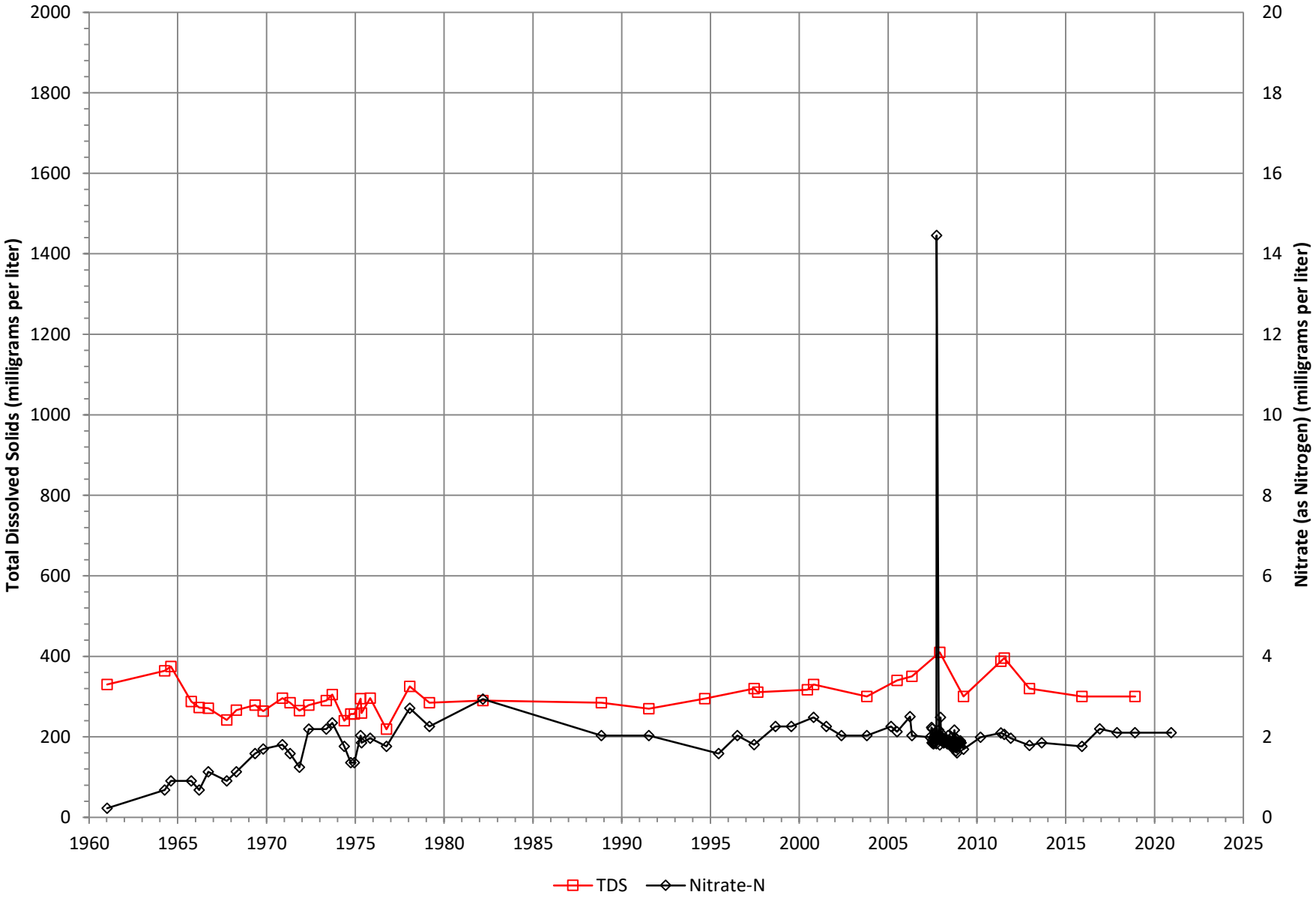

Figure N-5

Total Dissolved Solids and Nitrate (as Nitrogen) at Well BCVWD-05

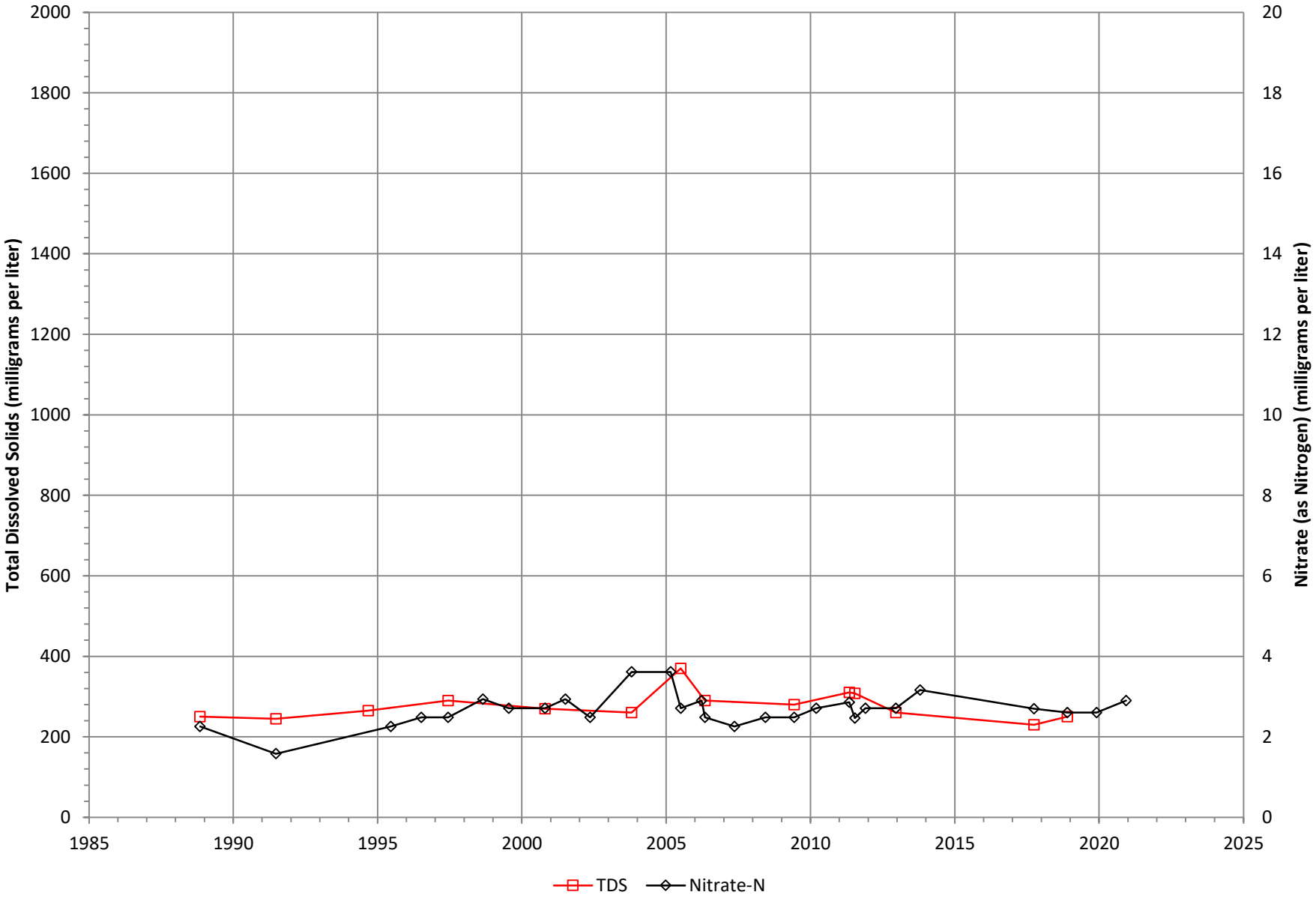

Figure N-6

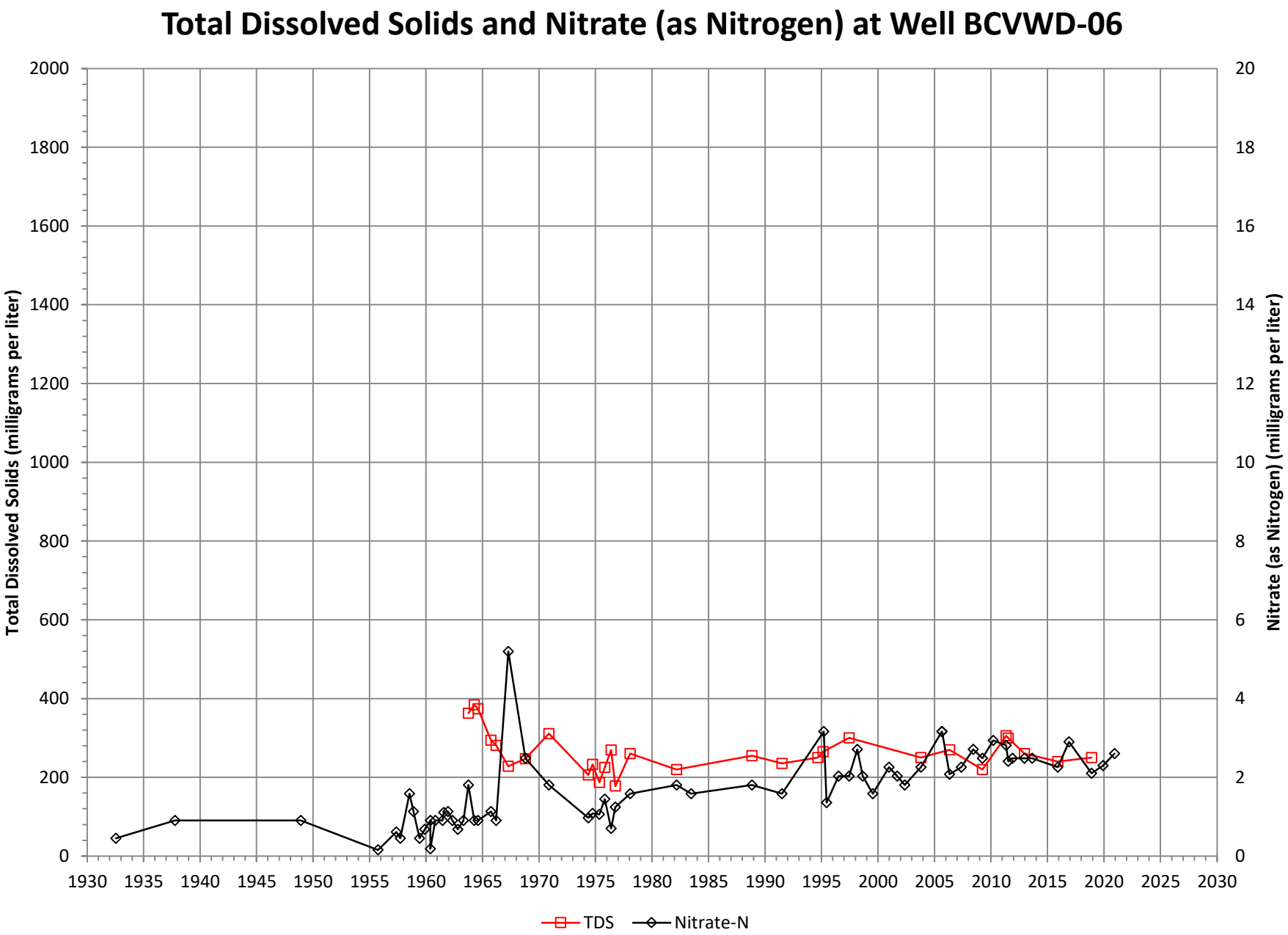
Total Dissolved Solids and Nitrate (as Nitrogen) at Well BCVWD-06
Total Dissolved Solids (milligrams per liter)
Nitrate (as Nitrogen) (milligrams per liter)
2000
1800
1600
1400
1200
1000
800
600
400
200
0
20
18
16
14
12
10
8
6
4
2
0
1930
1935
1940
1945
1950
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
2005
2010
2015
2020
2025
2030
TDS
Nitrate-N

Figure N-7

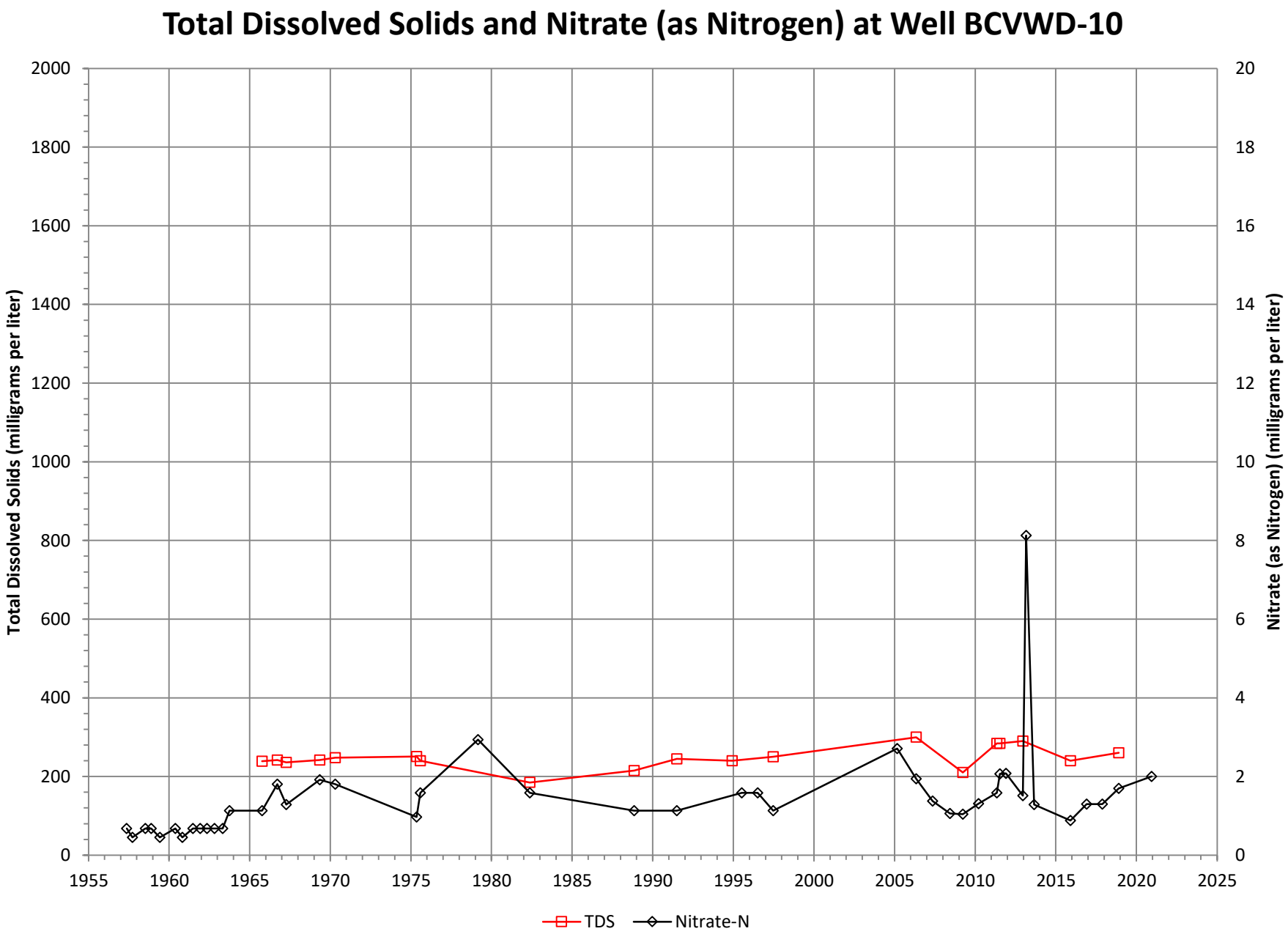
Total Dissolved Solids and Nitrate (as Nitrogen) at Well BCVWD-10
Total Dissolved Solids (milligrams per liter)
Nitrate (as Nitrogen) (milligrams per liter)
2000
1800
1600
1400
1200
1000
800
600
400
200
0
20
18
16
14
12
10
8
6
4
2
0
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
2005
2010
2015
2020
2025
TDS
Nitrate-N

Figure N-8

Total Dissolved Solids and Nitrate (as Nitrogen) at Well BCVWD-11

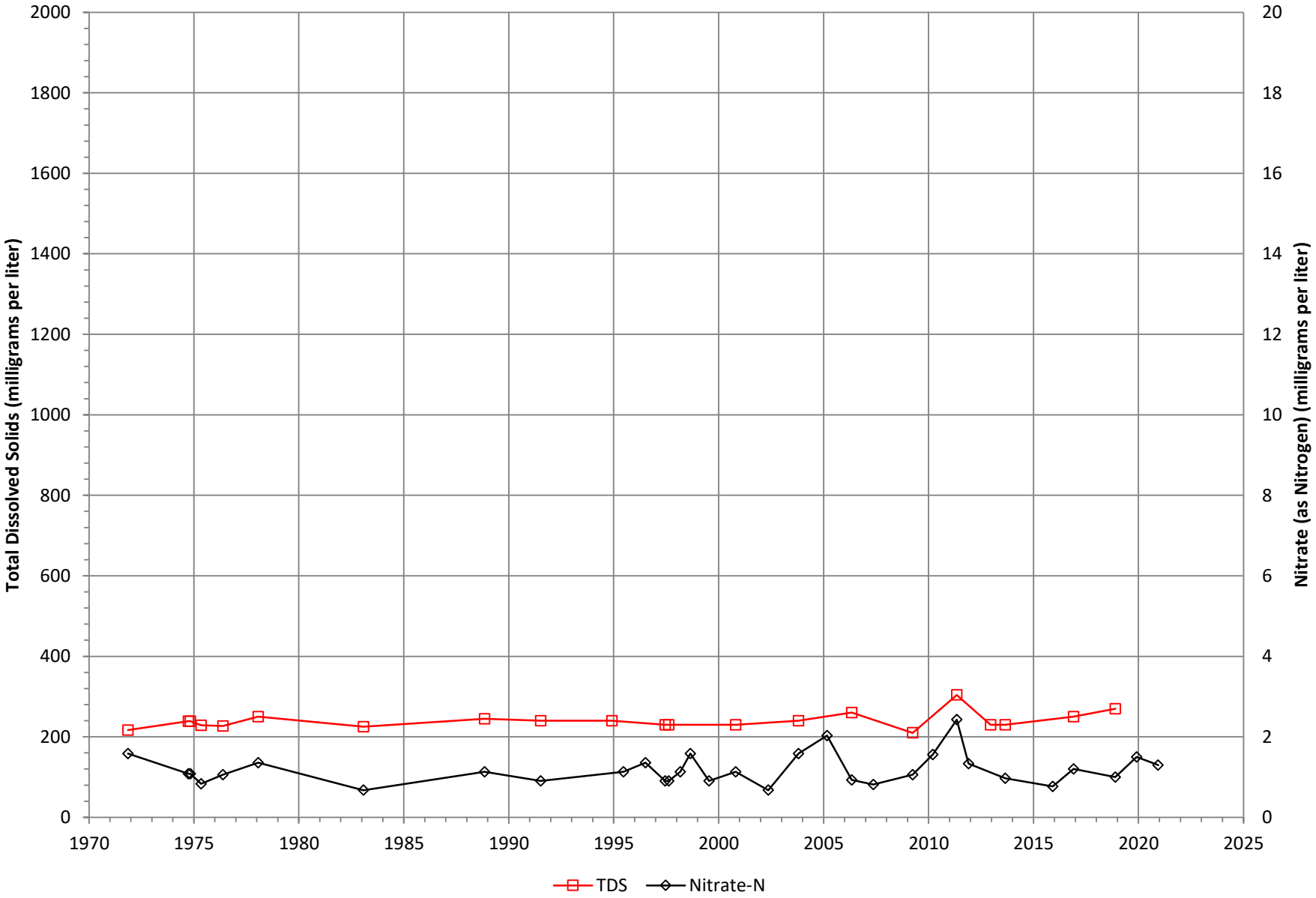

Figure N-9

Total Dissolved Solids and Nitrate (as Nitrogen) at Well BCVWD-12

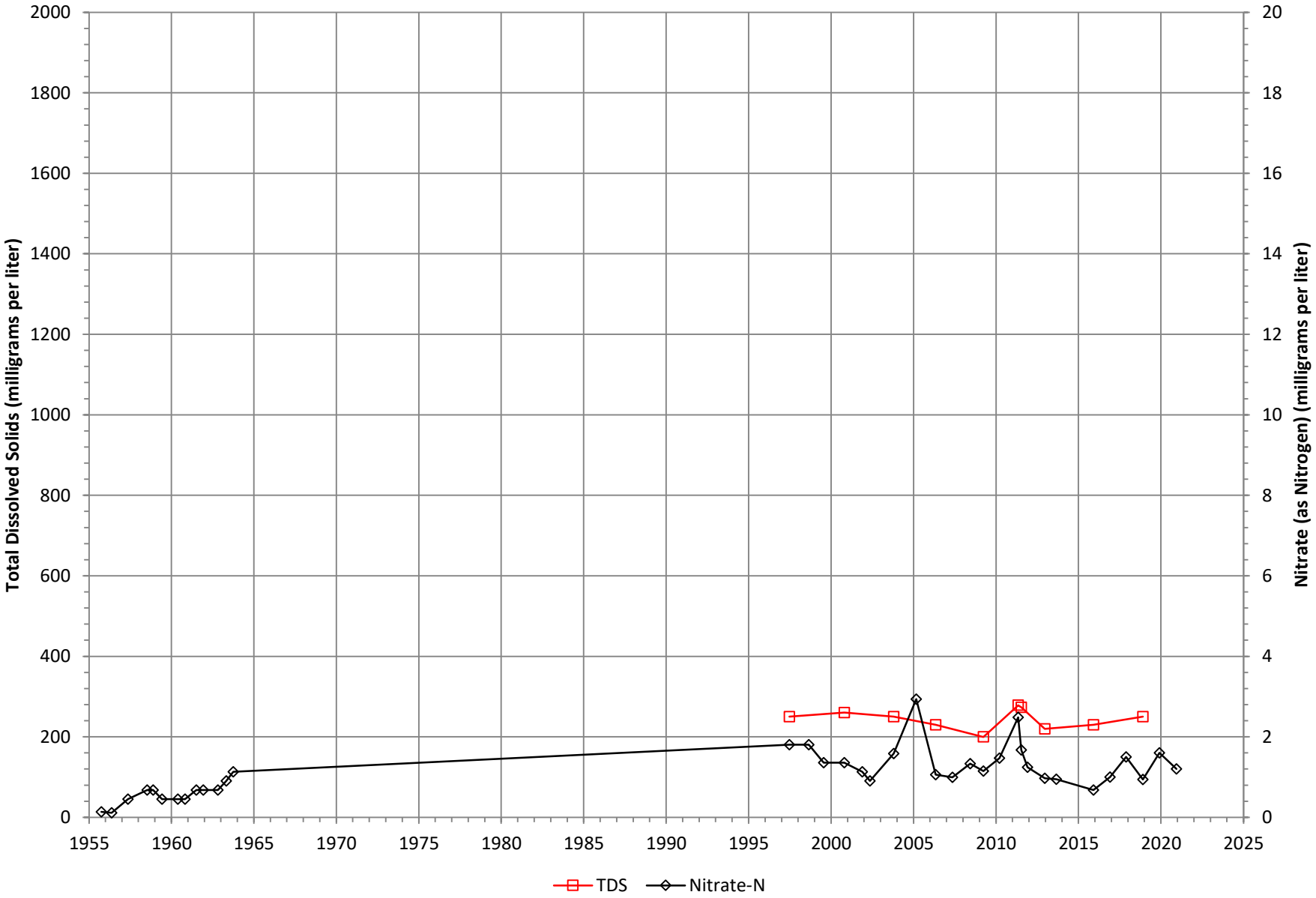

Figure N-10

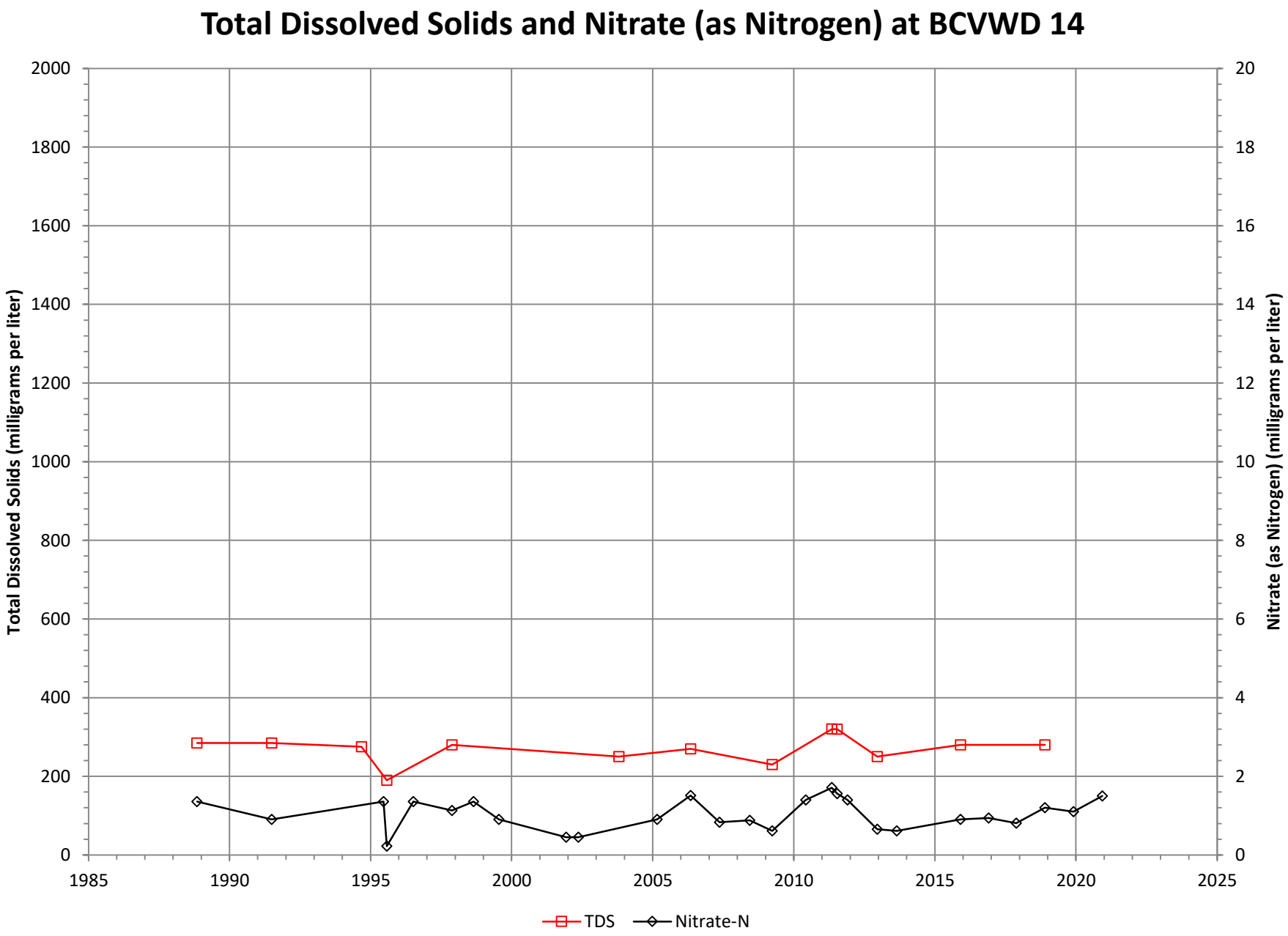
Total Dissolved Solids and Nitrate (as Nitrogen) at BCVWD 14
Total Dissolved Solids (milligrams per liter)
Nitrate (as Nitrogen) (milligrams per liter)
2000
1800
1600
1400
1200
1000
800
600
400
200
0
20
18
16
14
12
10
8
6
4
2
0
1985
1990
1995
2000
2005
2010
2015
2020
2025
TDS
Nitrate-N

Figure N-11

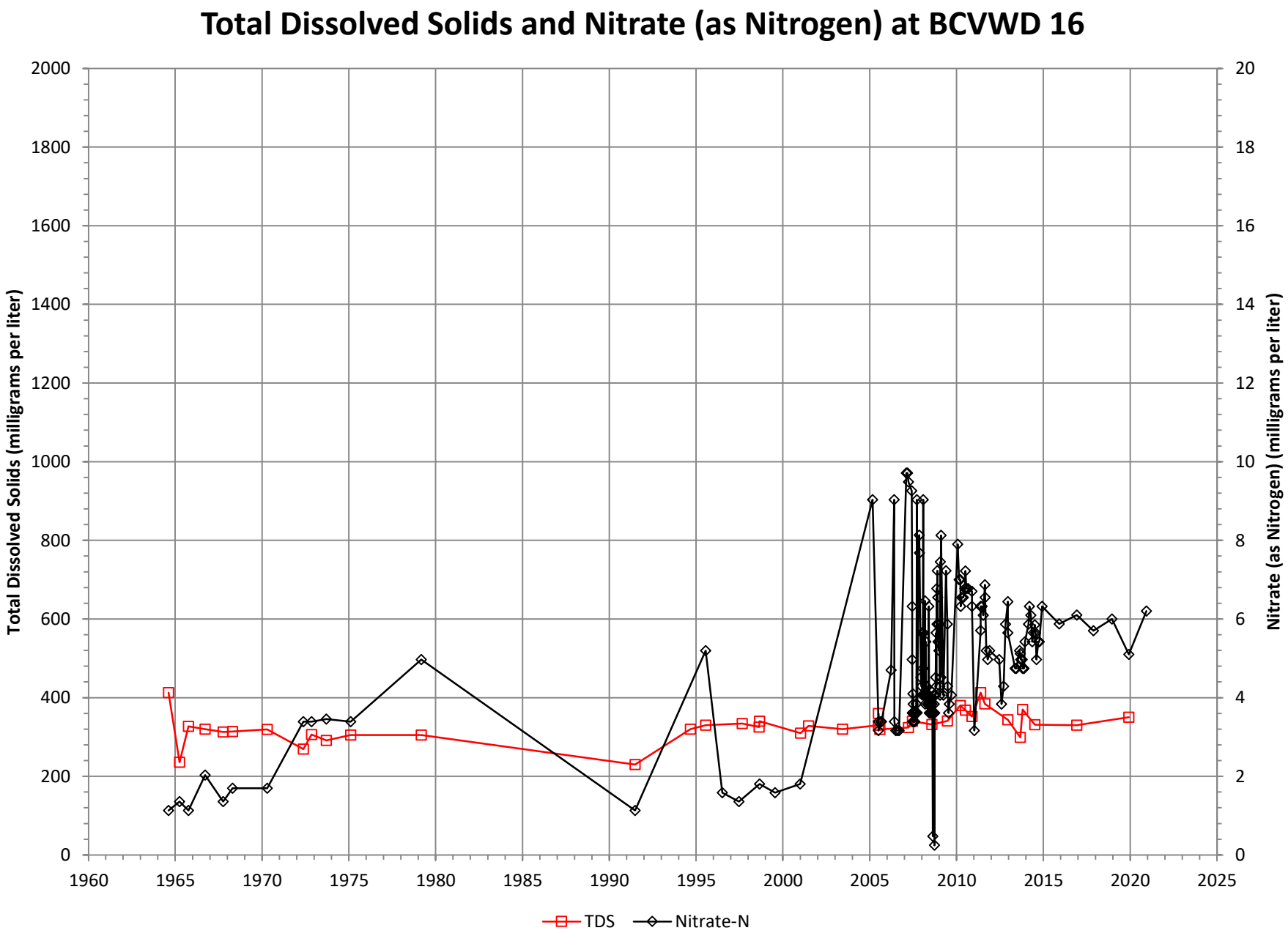
Total Dissolved Solids and Nitrate (as Nitrogen) at BCVWD 16
Total Dissolved Solids (milligrams per liter)
Nitrate (as Nitrogen) (milligrams per liter)
2000
1800
1600
1400
1200
1000
800
600
400
200
0
20
18
16
14
12
10
8
6
4
2
0
1960
1965
1970
1975
1980
1985
1990
1995
2000
2005
2010
2015
2020
2025
TDS
Nitrate-N

Figure N-12

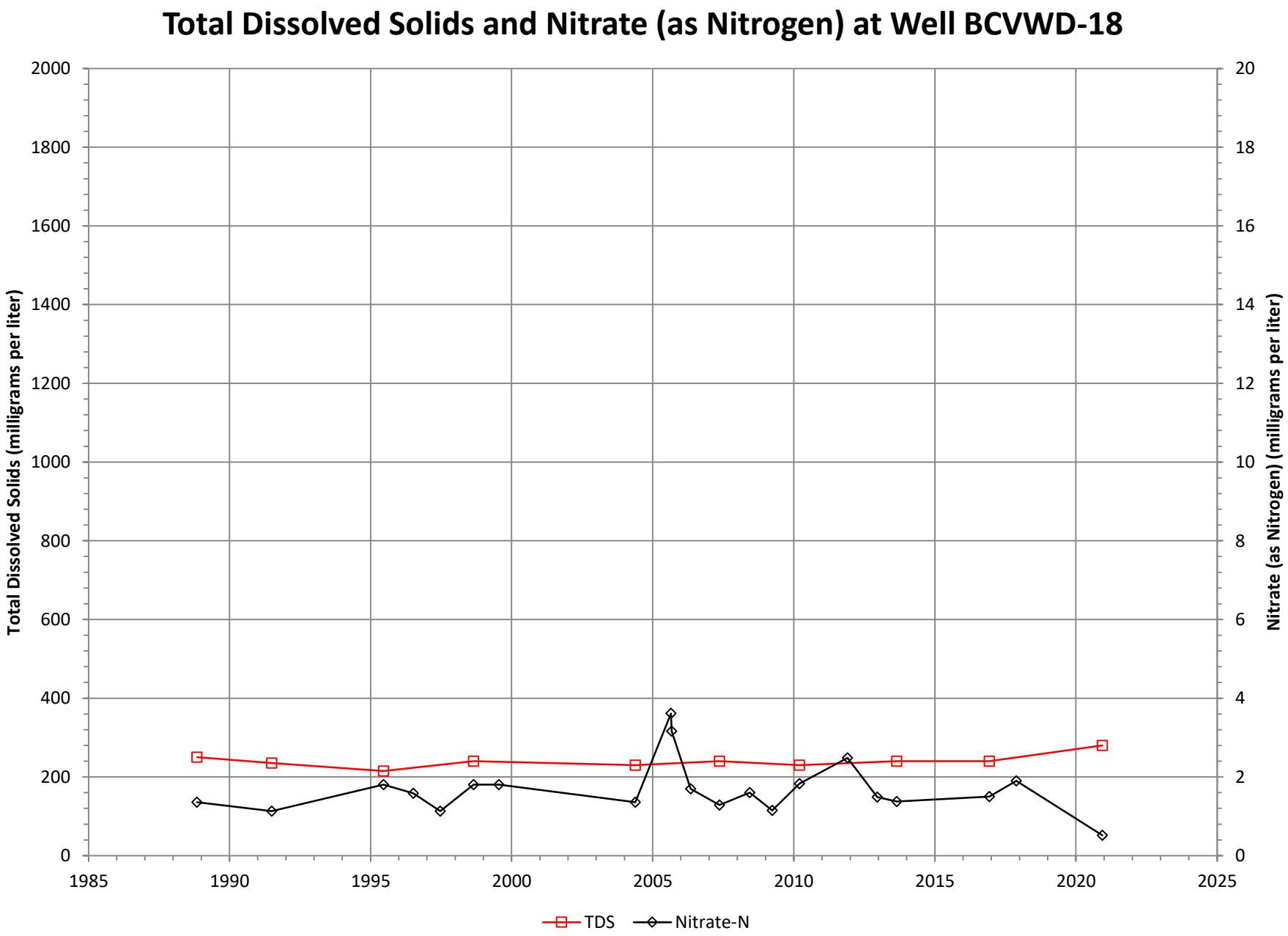
Total Dissolved Solids and Nitrate (as Nitrogen) at Well BCVWD-18
Total Dissolved Solids (milligrams per liter)
Nitrate (as Nitrogen) (milligrams per liter)
2000
1800
1600
1400
1200
1000
800
600
400
200
0
20
18
16
14
12
10
8
6
4
2
0
1985
1990
1995
2000
2005
2010
2015
2020
2025
TDS
Nitrate-N

Figure N-13

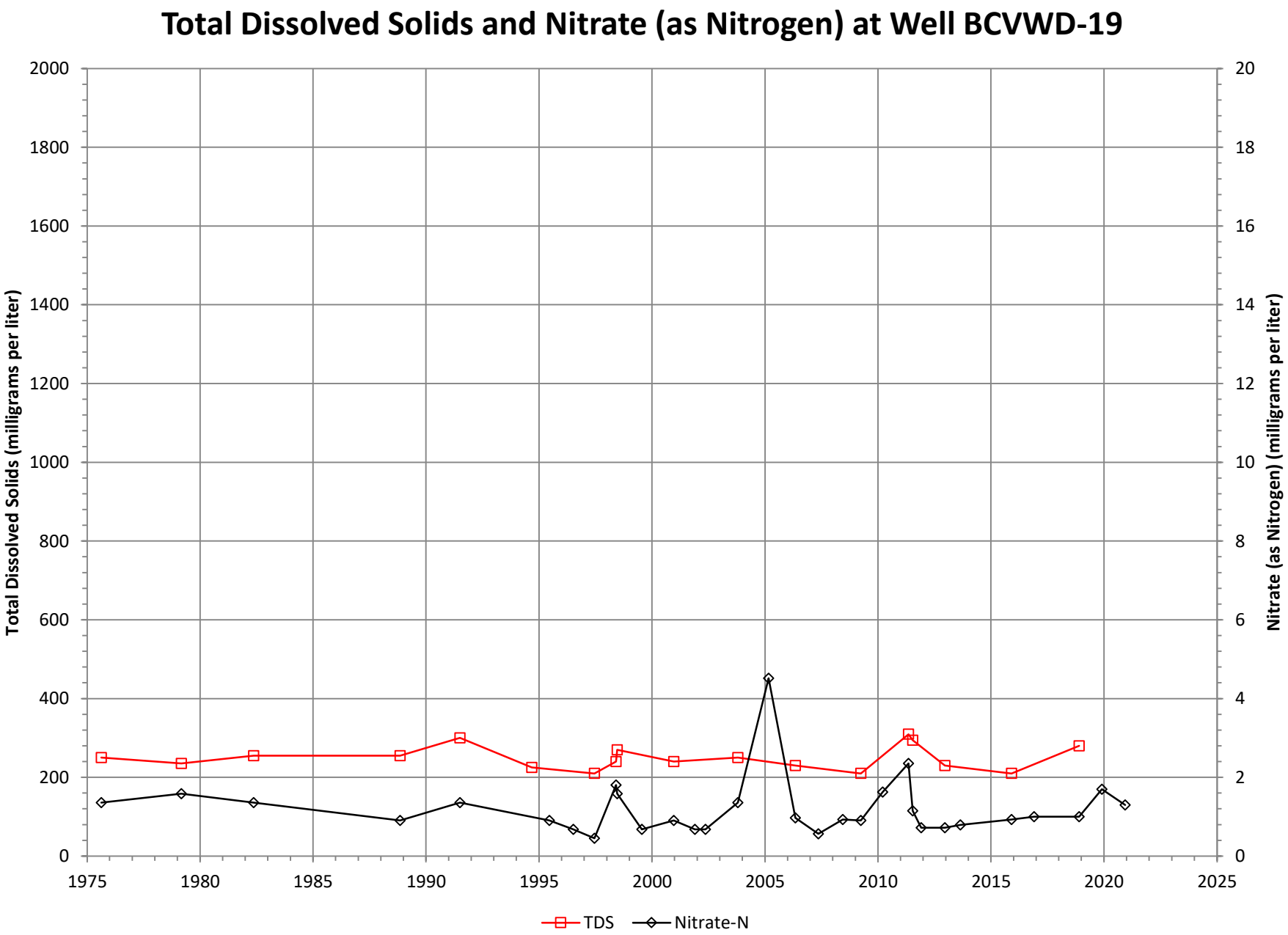
Total Dissolved Solids and Nitrate (as Nitrogen) at Well BCVWD-19
Total Dissolved Solids (milligrams per liter)
Nitrate (as Nitrogen) (milligrams per liter)
2000
1800
1600
1400
1200
1000
800
600
400
200
0
20
18
16
14
12
10
8
6
4
2
0
1975
1980
1985
1990
1995
2000
2005
2010
2015
2020
2025
TDS
Nitrate-N

Figure N-14

Total Dissolved Solids and Nitrate (as Nitrogen) at Well BCVWD-20

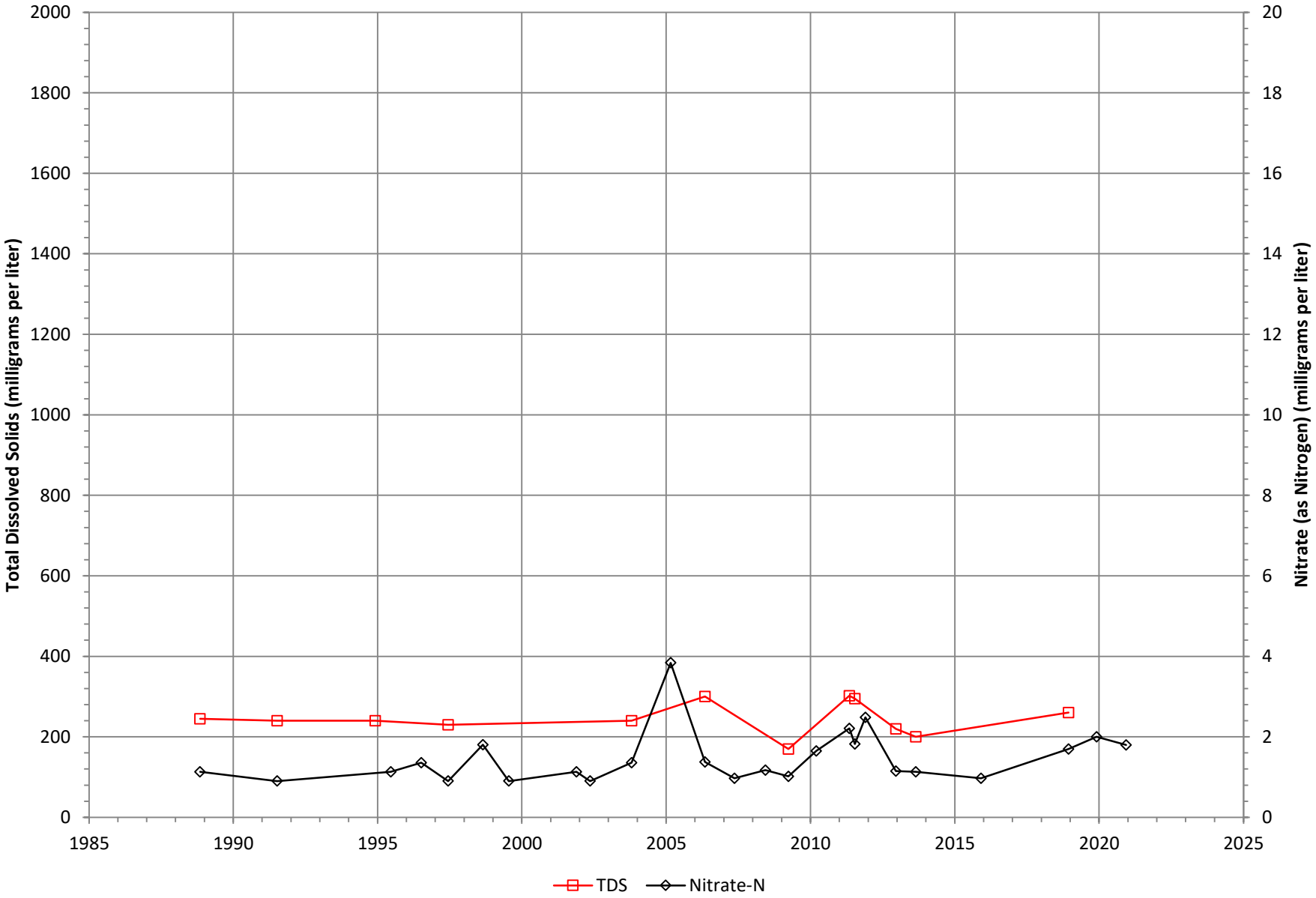

Figure N-15

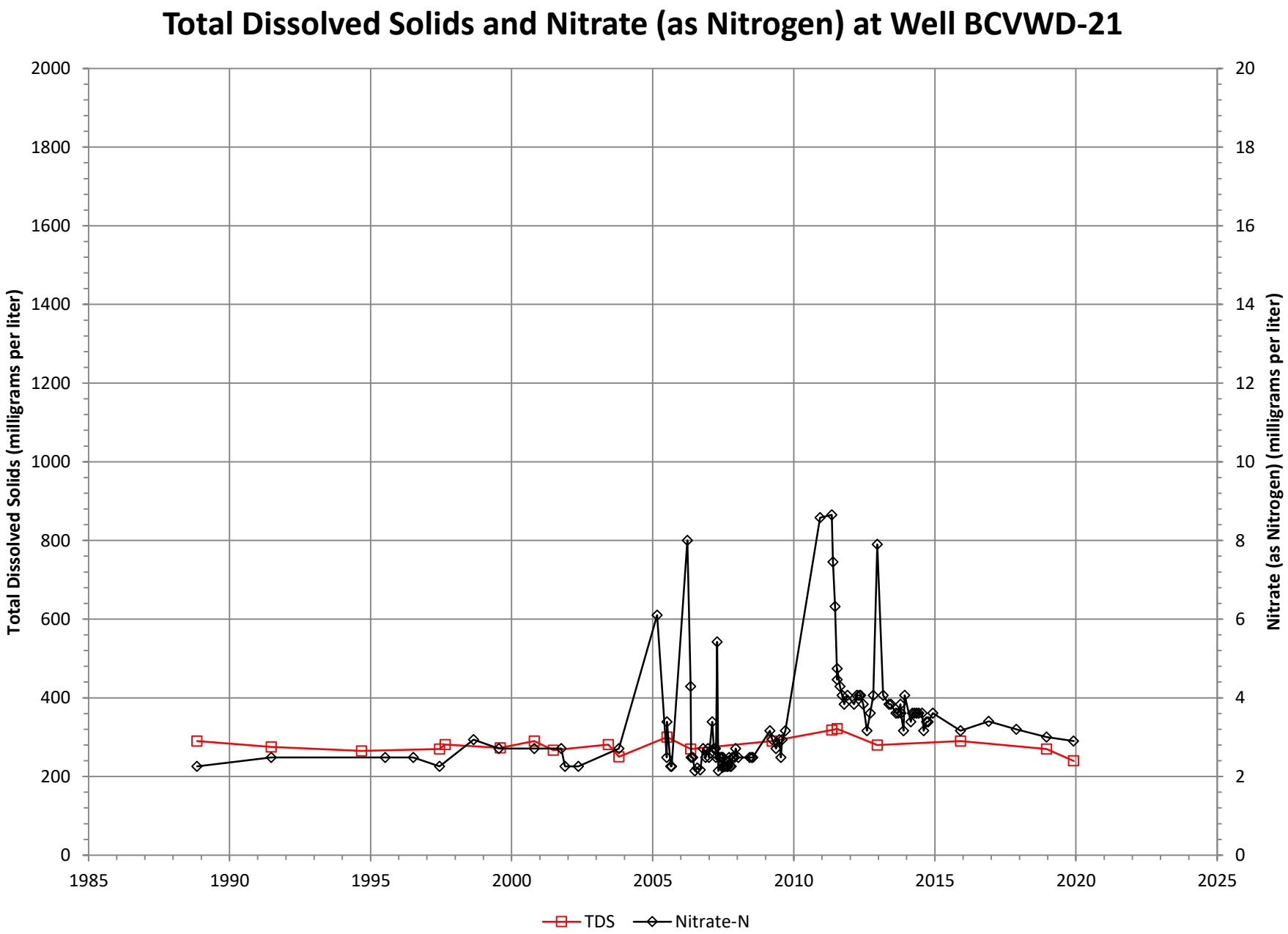
Total Dissolved Solids and Nitrate (as Nitrogen) at Well BCVWD-21
Total Dissolved Solids (milligrams per liter)
Nitrate (as Nitrogen) (milligrams per liter)
2000
1800
1600
1400
1200
1000
800
600
400
200
0
20
18
16
14
12
10
8
6
4
2
0
1985
1990
1995
2000
2005
2010
2015
2020
2025
TDS
Nitrate-N

Figure N-16

Total Dissolved Solids and Nitrate (as Nitrogen) at Well BCVWD-22

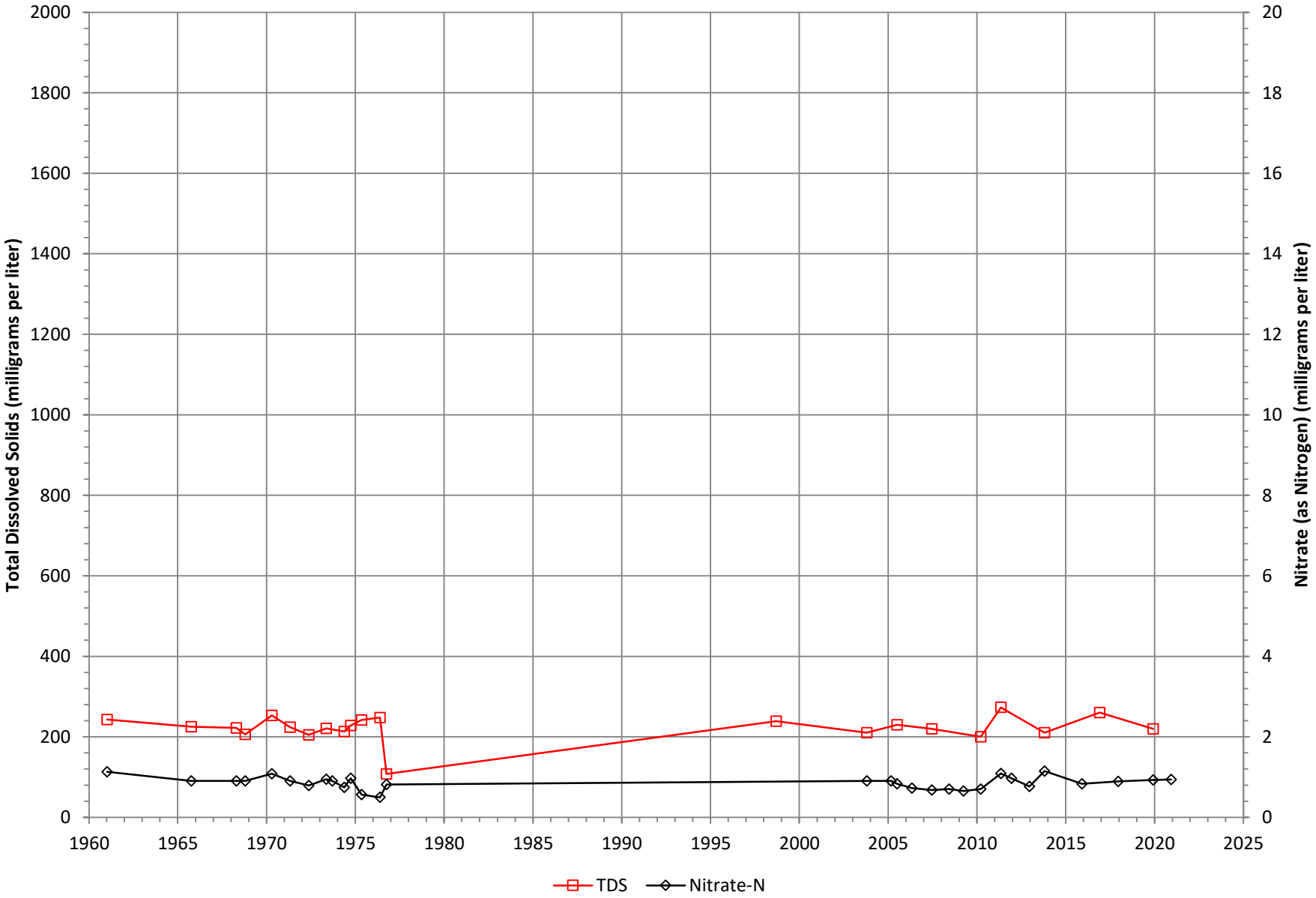

Figure N-17

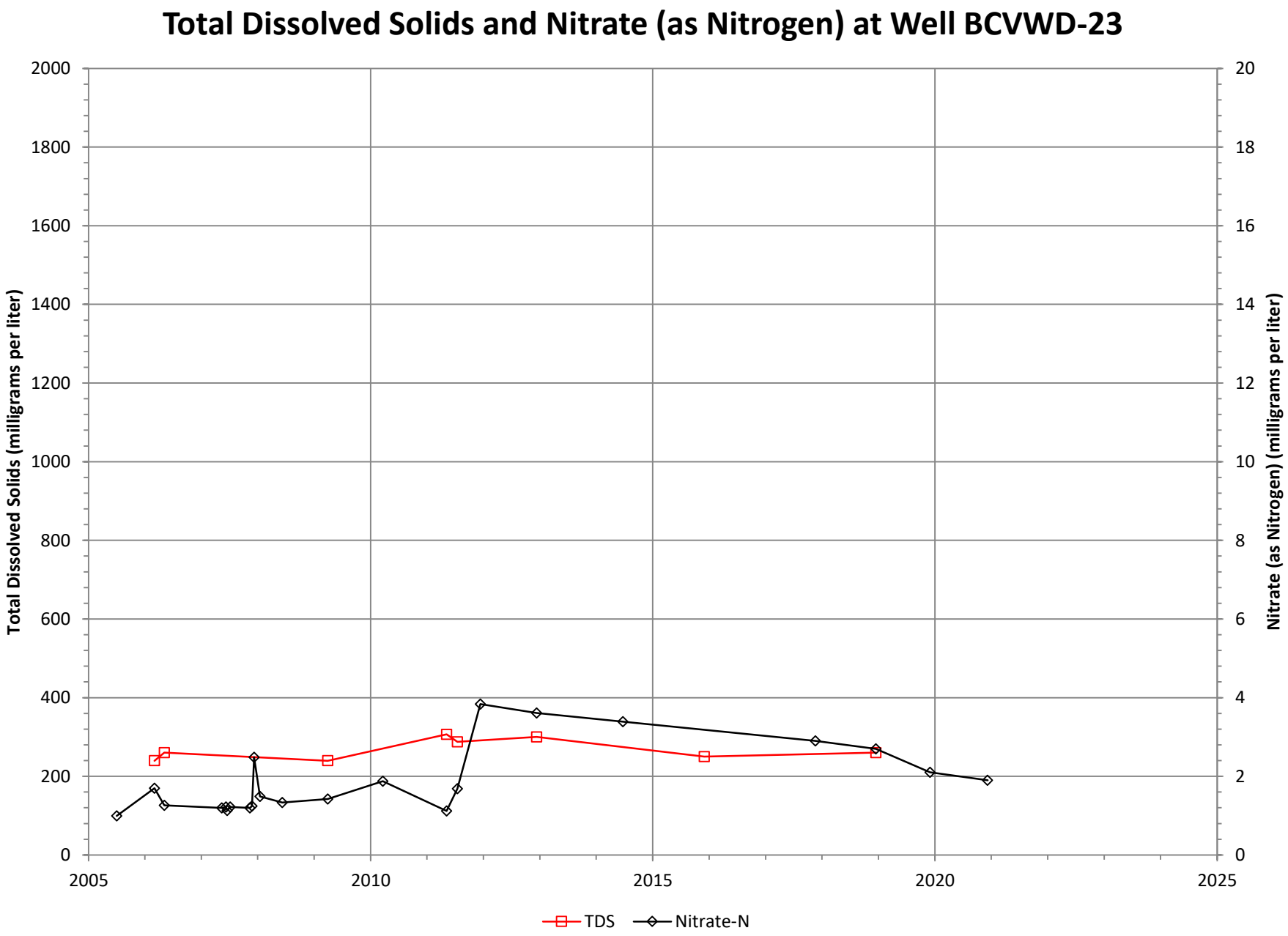
Total Dissolved Solids and Nitrate (as Nitrogen) at Well BCVWD-23
Total Dissolved Solids (milligrams per liter)
Nitrate (as Nitrogen) (milligrams per liter)
2000
1800
1600
1400
1200
1000
800
600
400
200
0
20
18
16
14
12
10
8
6
4
2
0
2005
2010
2015
2020
2025
TDS
Nitrate-N

Figure N-18

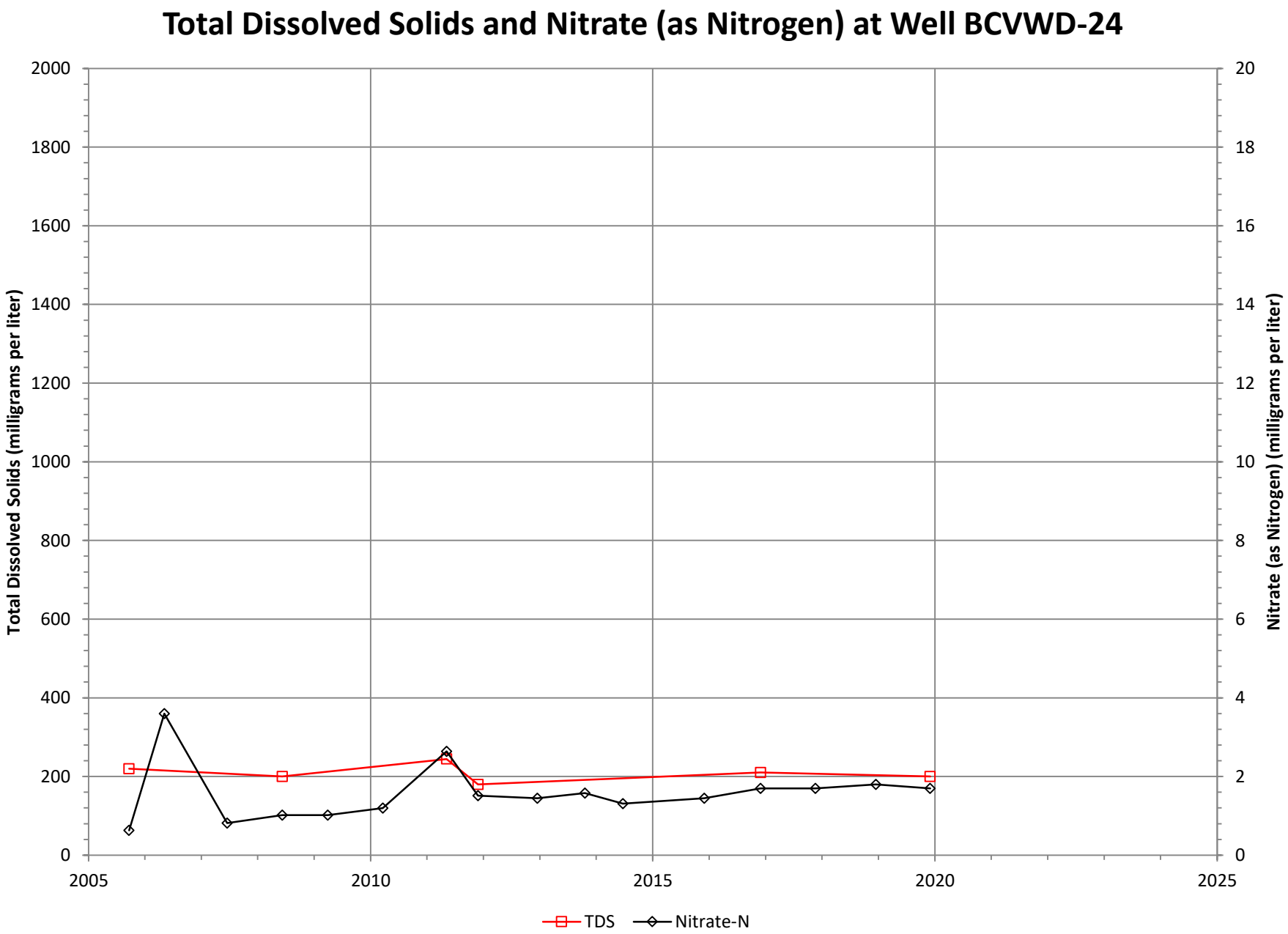
Total Dissolved Solids and Nitrate (as Nitrogen) at Well BCVWD-24
Total Dissolved Solids (milligrams per liter)
Nitrate (as Nitrogen) (milligrams per liter)
2000
1800
1600
1400
1200
1000
800
600
400
200
0
20
18
16
14
12
10
8
6
4
2
0
2005
2010
2015
2020
2025
TDS
Nitrate-N

Figure N-19

Total Dissolved Solids and Nitrate (as Nitrogen) at Well BCVWD-25

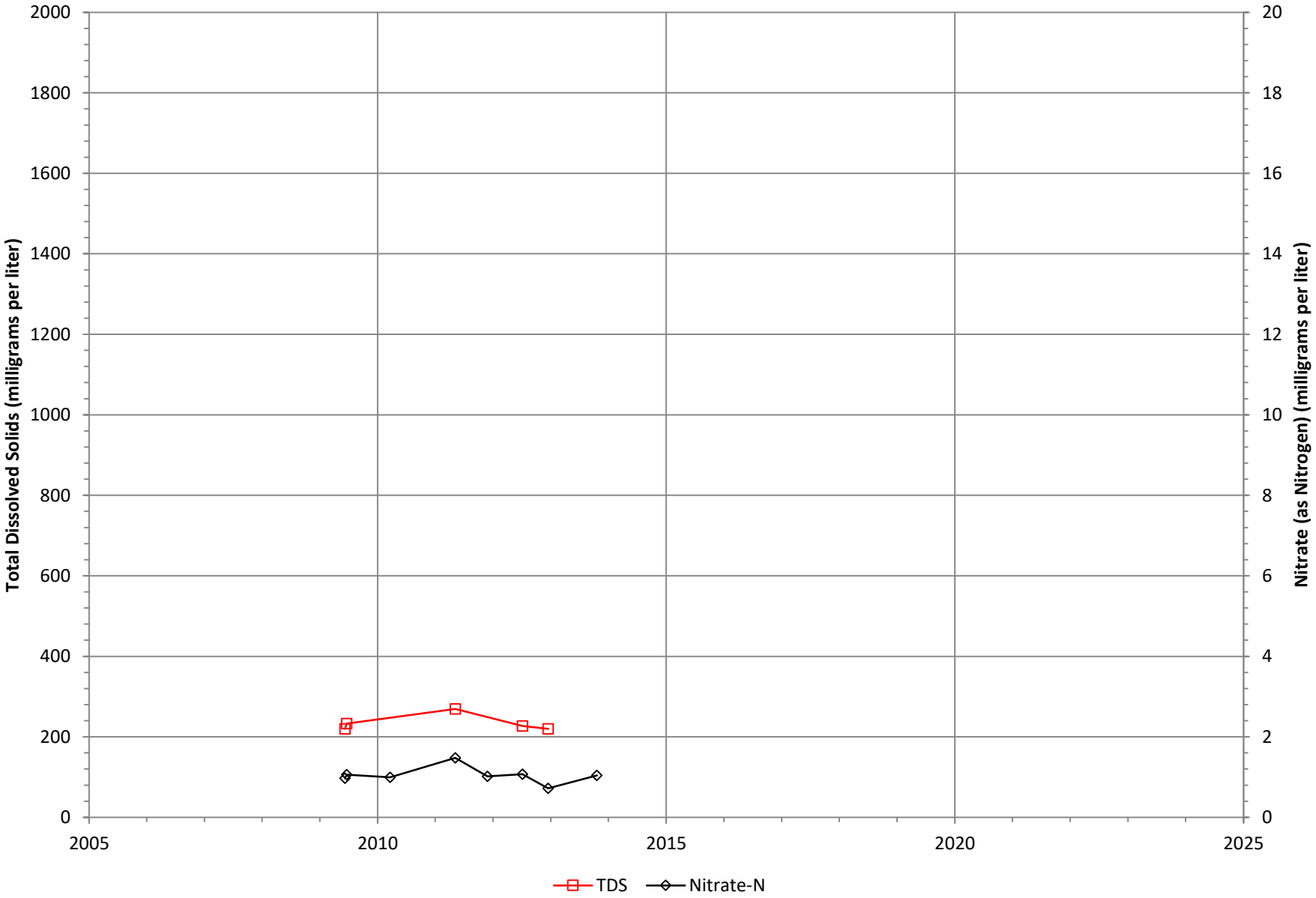

Figure N-20

Total Dissolved Solids and Nitrate (as Nitrogen) at Well BCVWD-26

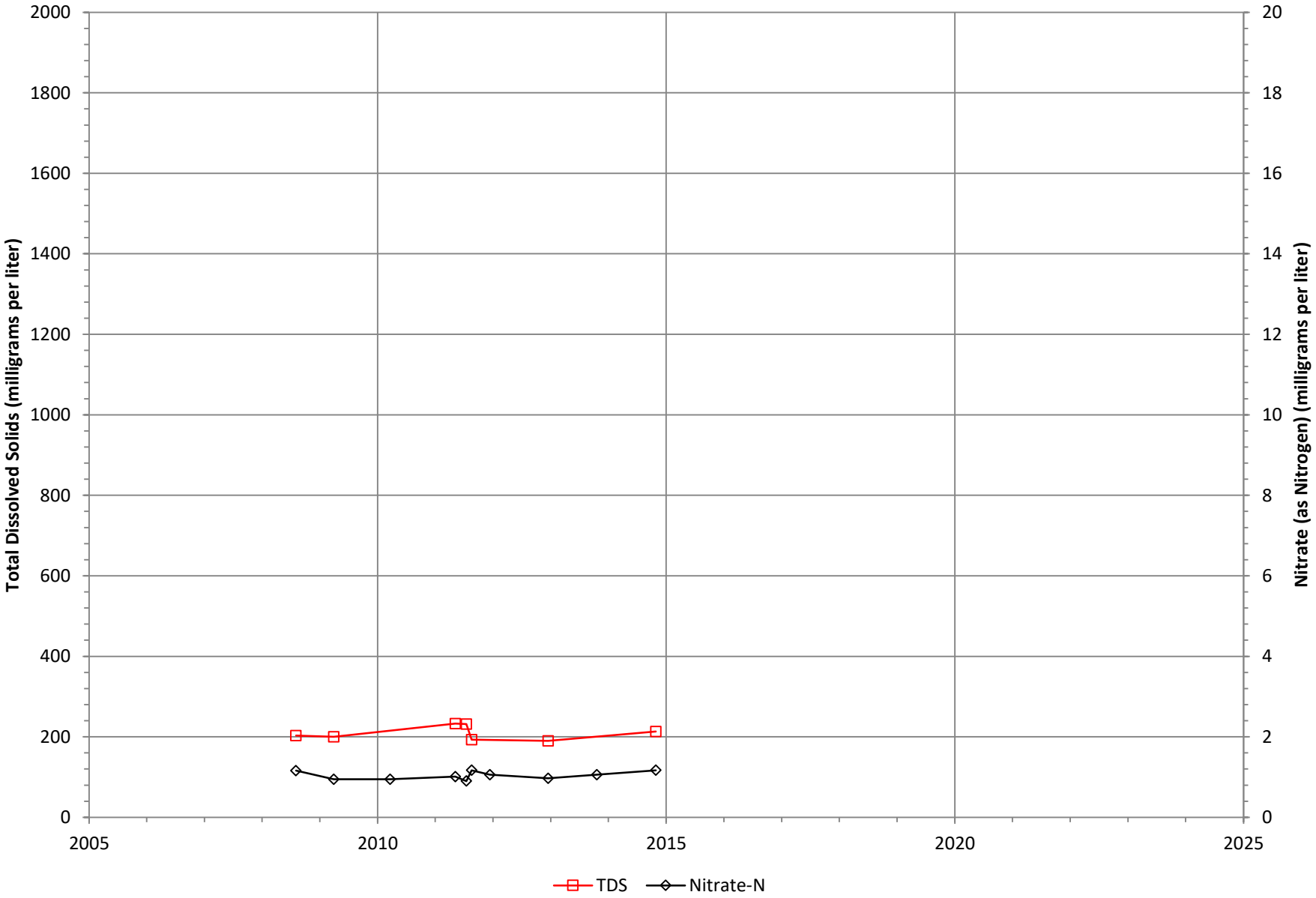

Figure N-21

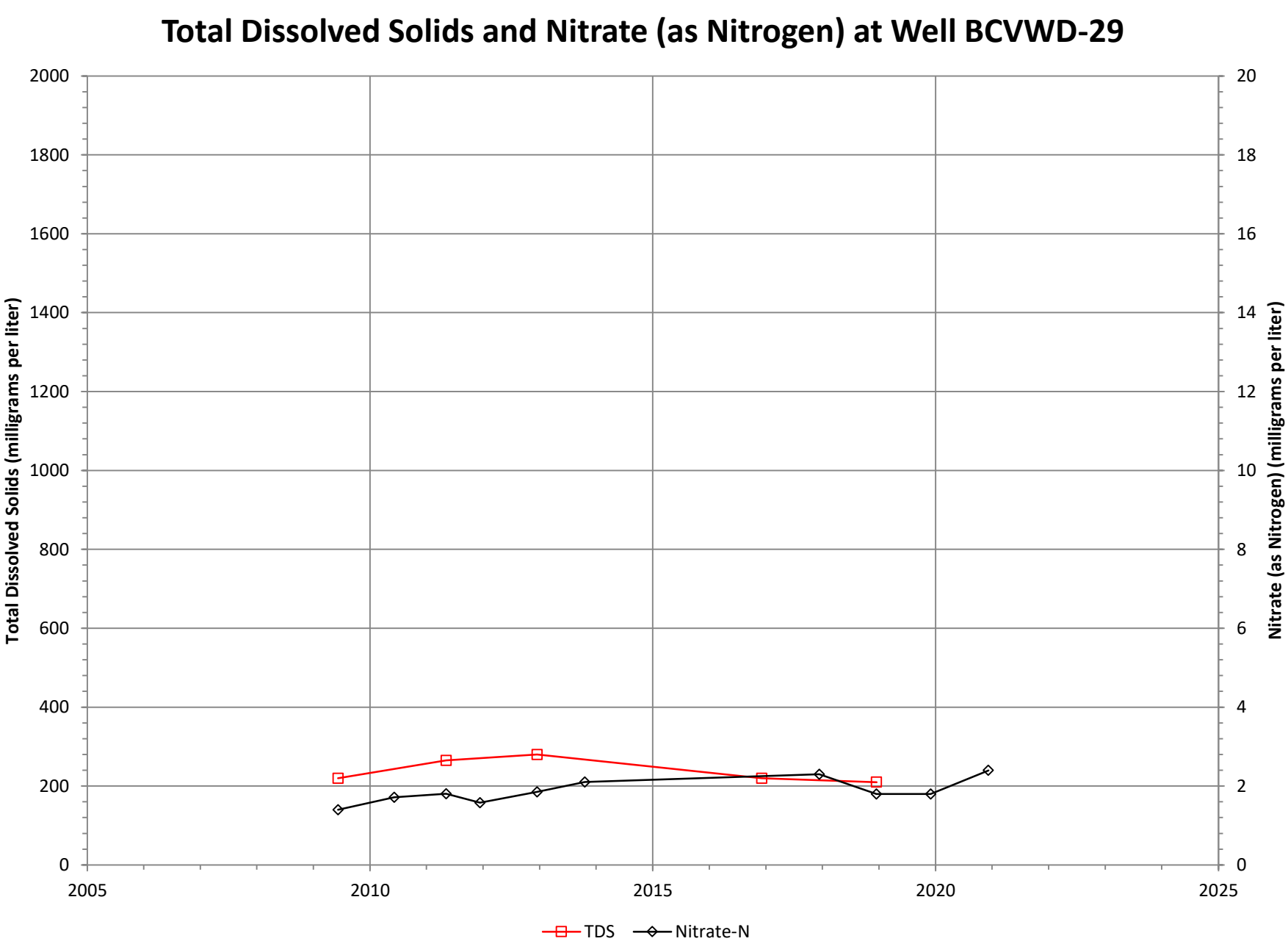
Total Dissolved Solids and Nitrate (as Nitrogen) at Well BCVWD-29
Total Dissolved Solids (milligrams per liter)
Nitrate (as Nitrogen) (milligrams per liter)
2000
1800
1600
1400
1200
1000
800
600
400
200
0
20
18
16
14
12
10
8
6
4
2
0
2005
2010
2015
2020
2025
TDS
Nitrate-N

Figure N-22

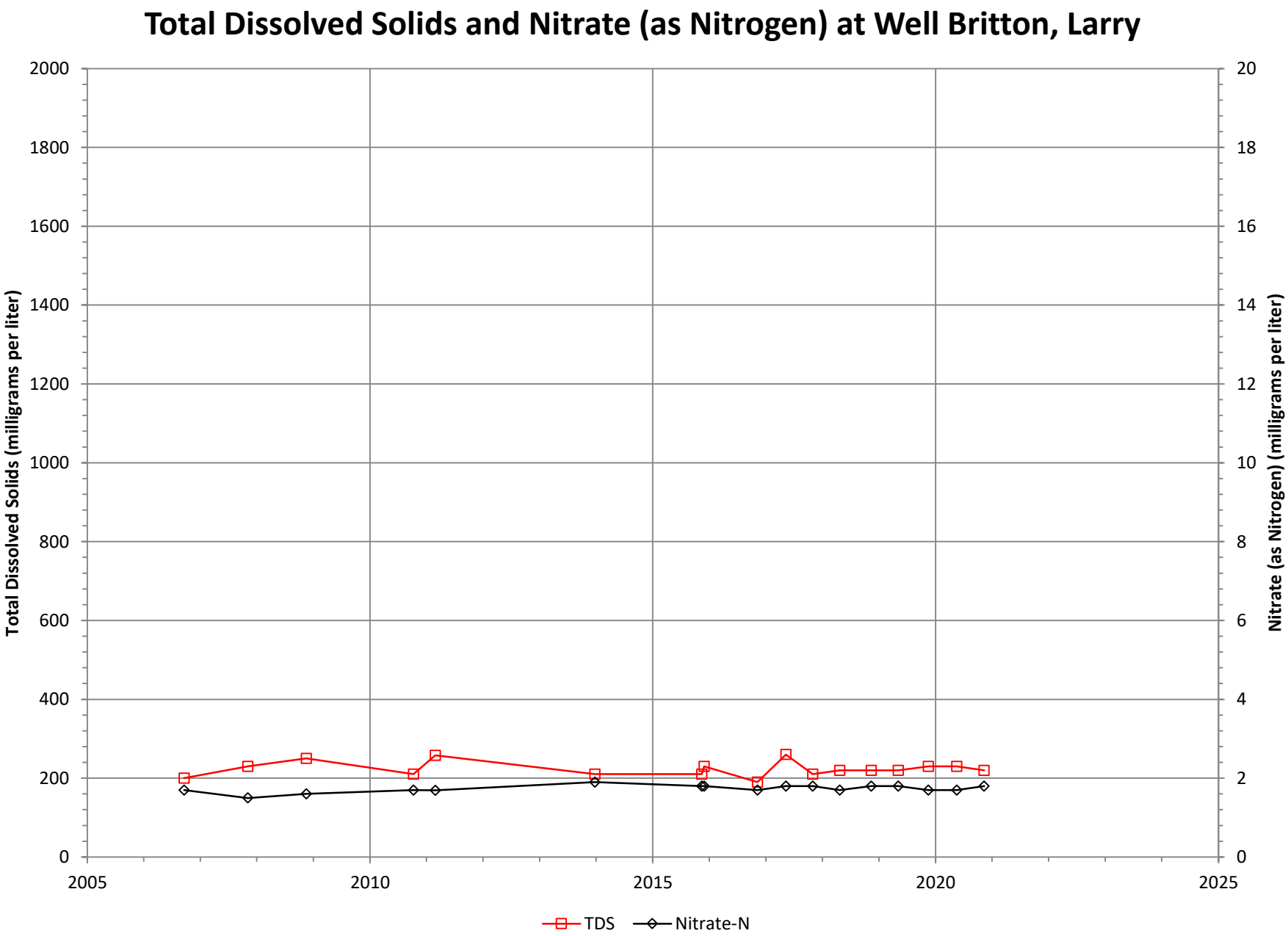
Total Dissolved Solids and Nitrate (as Nitrogen) at Well Britton, Larry
Total Dissolved Solids (milligrams per liter)
Nitrate (as Nitrogen) (milligrams per liter)
2000
1800
1600
1400
1200
1000
800
600
400
200
0
20
18
16
14
12
10
8
6
4
2
0
2005
2010
2015
2020
2025
TDS
Nitrate-N

Figure N-23

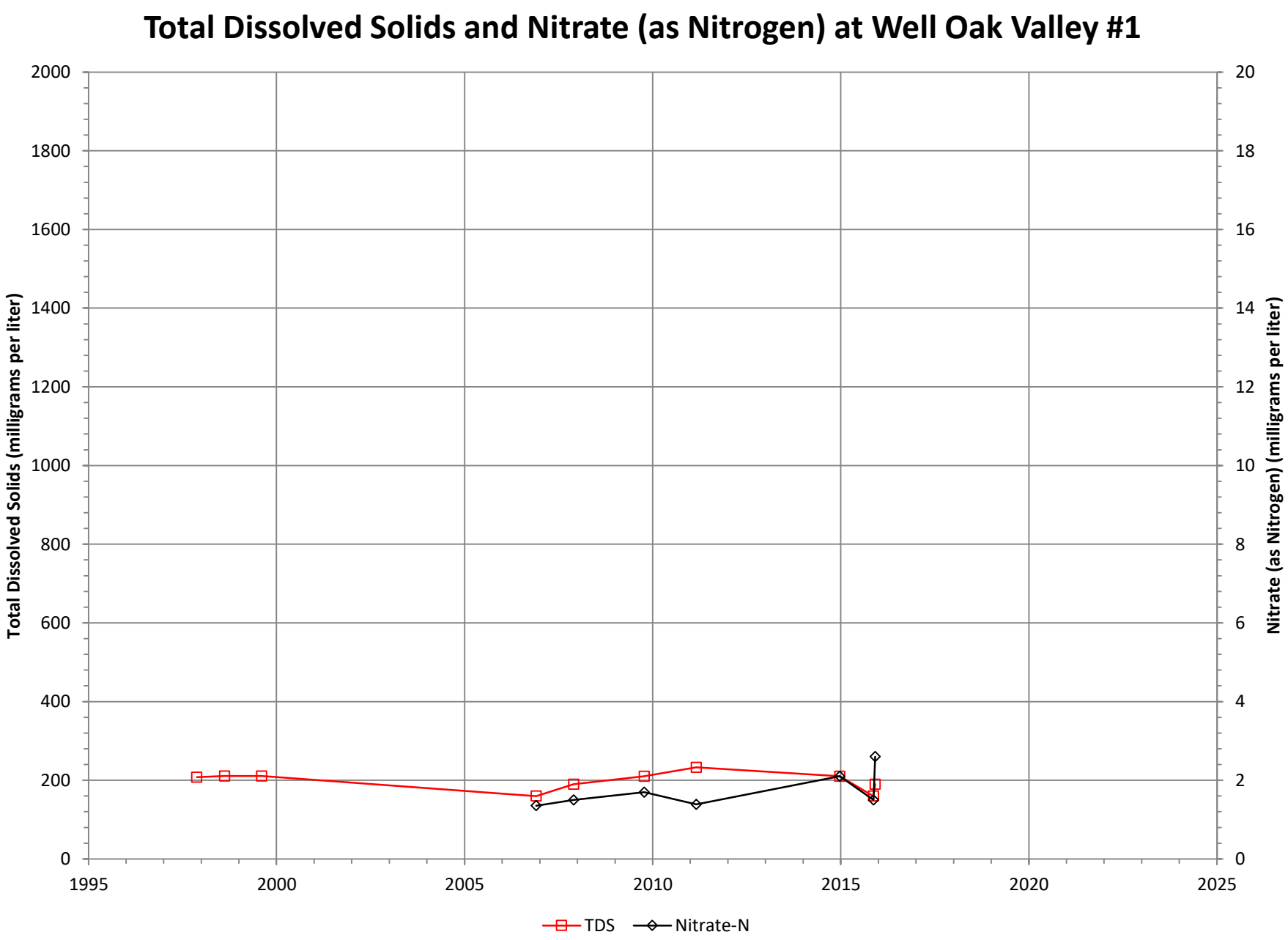
Total Dissolved Solids and Nitrate (as Nitrogen) at Well Oak Valley #1
Total Dissolved Solids (milligrams per liter)
Nitrate (as Nitrogen) (milligrams per liter)
2000
1800
1600
1400
1200
1000
800
600
400
200
0
20
18
16
14
12
10
8
6
4
2
0
1995
2000
2005
2010
2015
2020
2025
TDS
Nitrate-N

Figure N-24

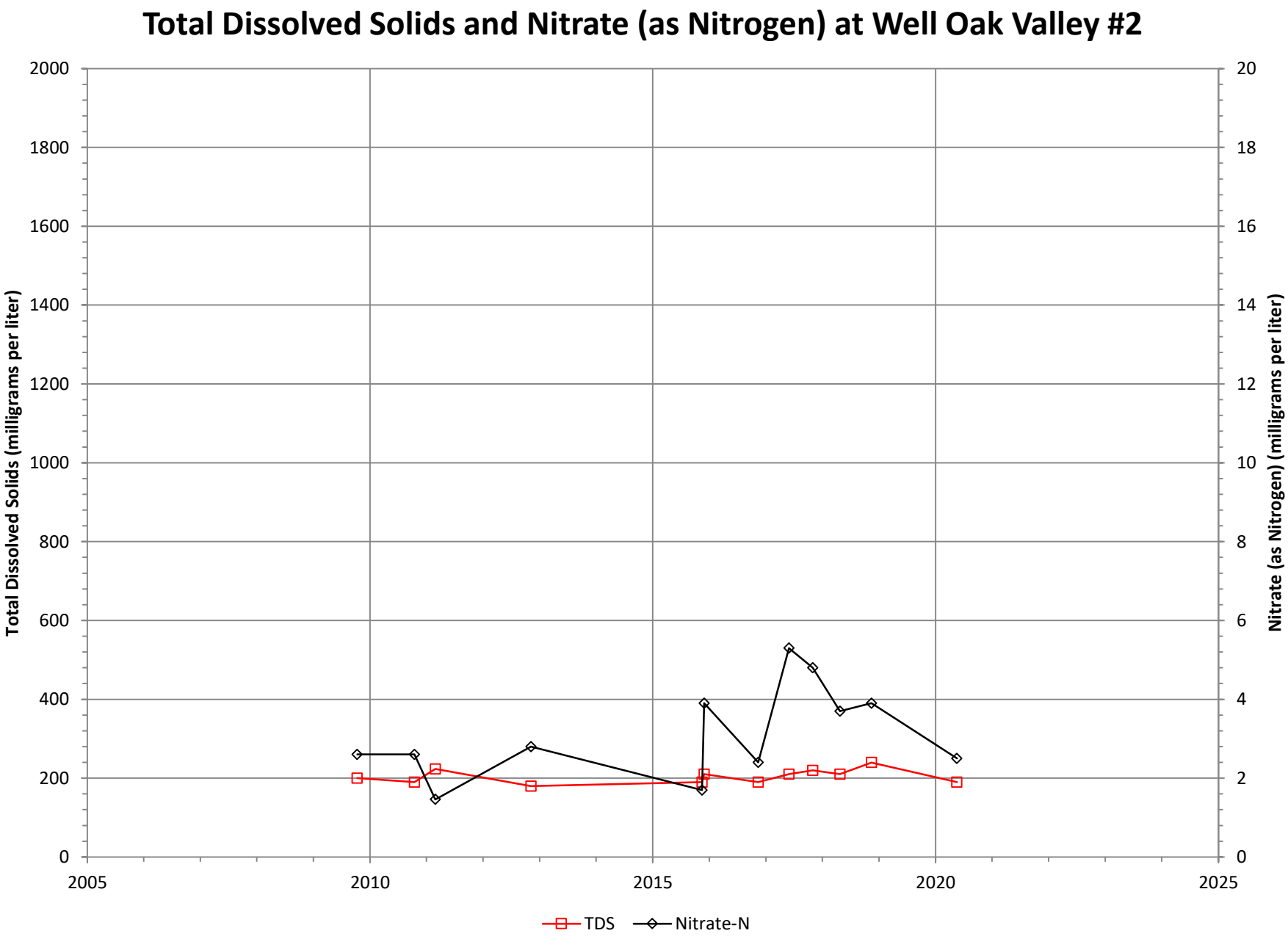
Total Dissolved Solids and Nitrate (as Nitrogen) at Well Oak Valley #2
Total Dissolved Solids (milligrams per liter)
Nitrate (as Nitrogen) (milligrams per liter)
2000
1800
1600
1400
1200
1000
800
600
400
200
0
20
18
16
14
12
10
8
6
4
2
0
2005
2010
2015
2020
2025
TDS
Nitrate-N

Figure N-25

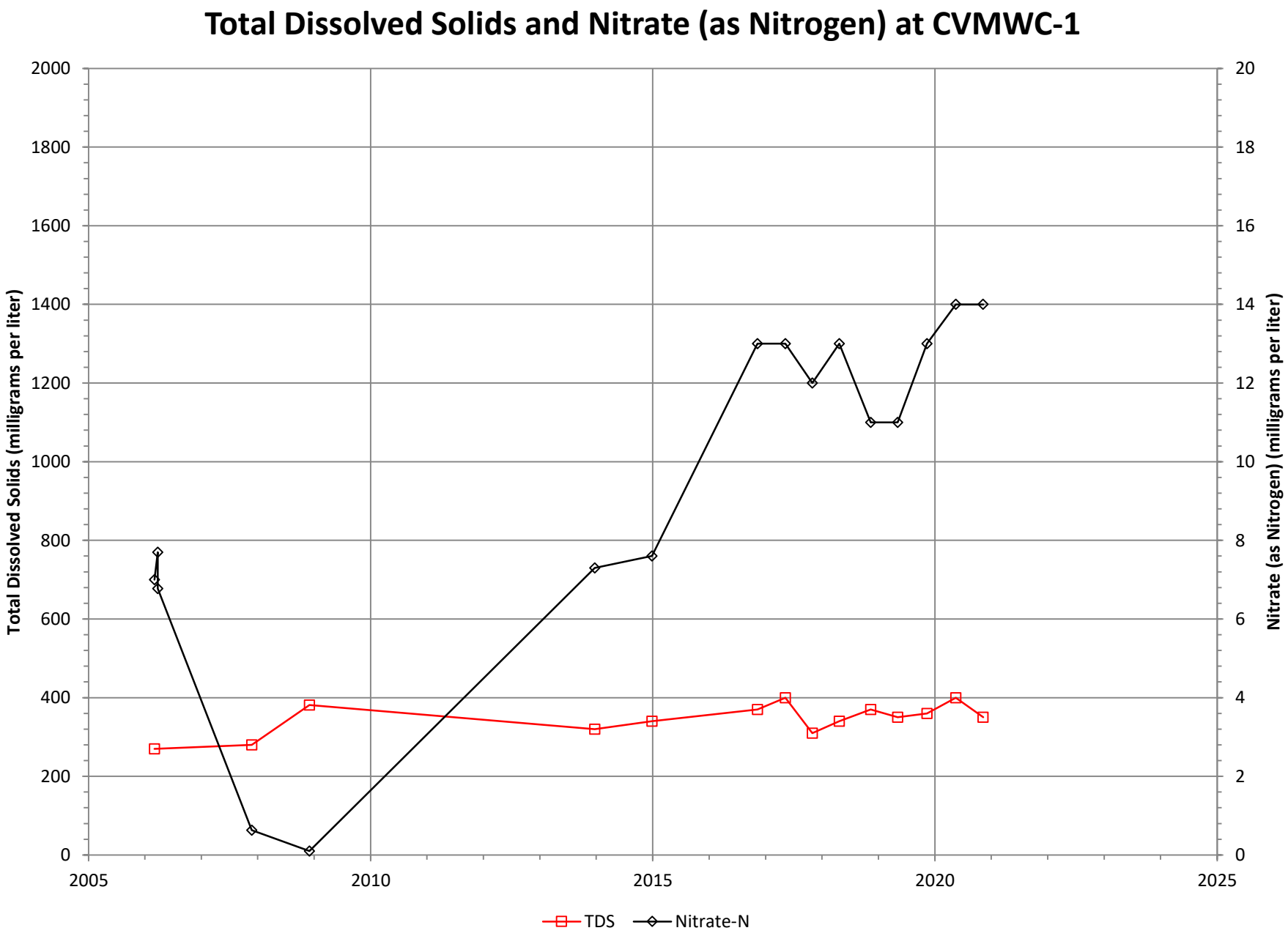
Total Dissolved Solids and Nitrate (as Nitrogen) at CVMWC-1
Total Dissolved Solids (milligrams per liter)
Nitrate (as Nitrogen) (milligrams per liter)
2000
1800
1600
1400
1200
1000
800
600
400
200
0
20
18
16
14
12
10
8
6
4
2
0
2005
2010
2015
2020
2025
TDS
Nitrate-N

Figure N-26

Total Dissolved Solids and Nitrate (as Nitrogen) at Cherry Valley Mutual Water Co. Well 1

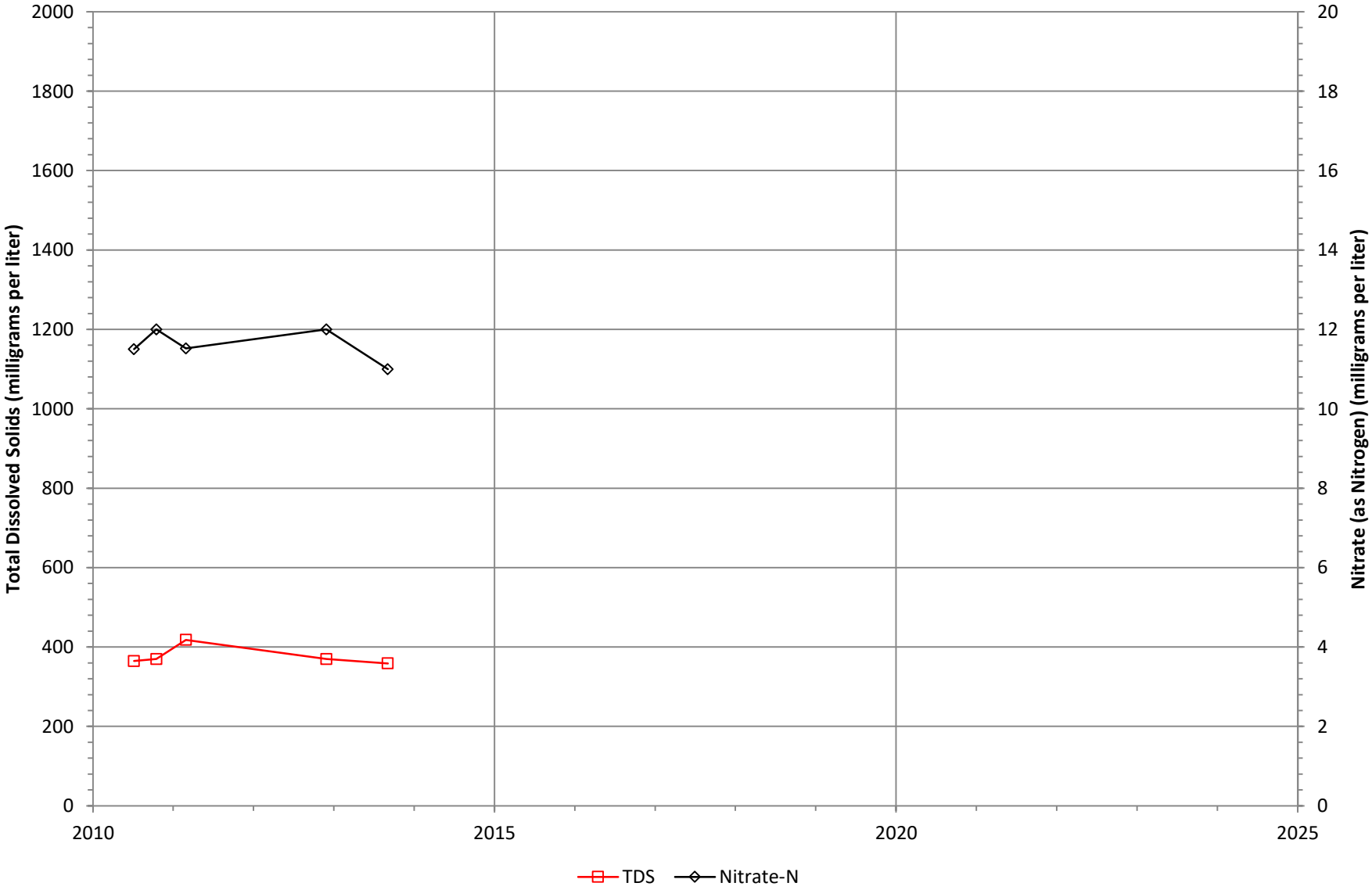

Figure N-27

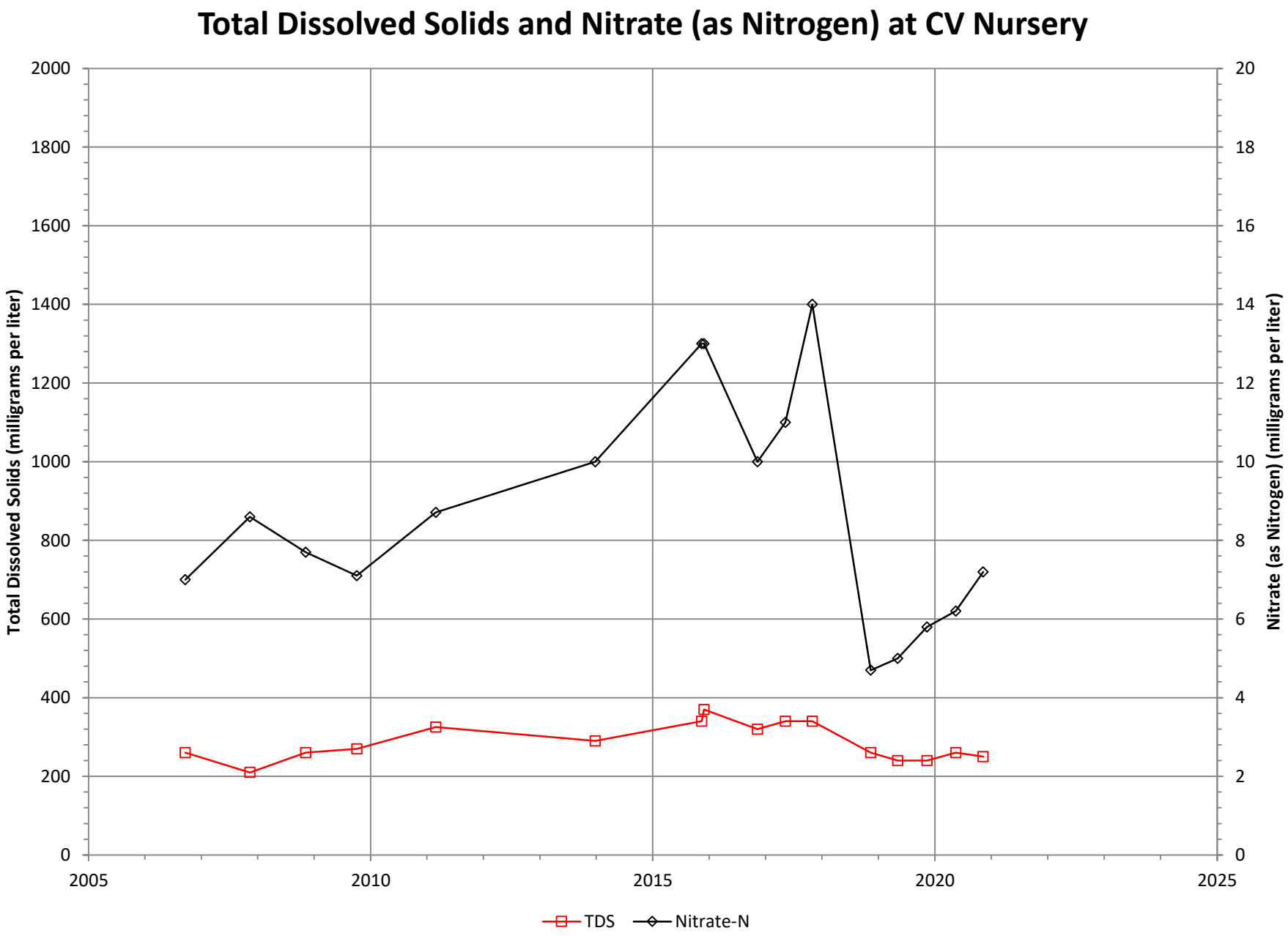
Total Dissolved Solids and Nitrate (as Nitrogen) at CV Nursery
Total Dissolved Solids (milligrams per liter)
Nitrate (as Nitrogen) (milligrams per liter)
2000
1800
1600
1400
1200
1000
800
600
400
200
0
20
18
16
14
12
10
8
6
4
2
0
2005
2010
2015
2020
2025
TDS
Nitrate-N

Figure N-28

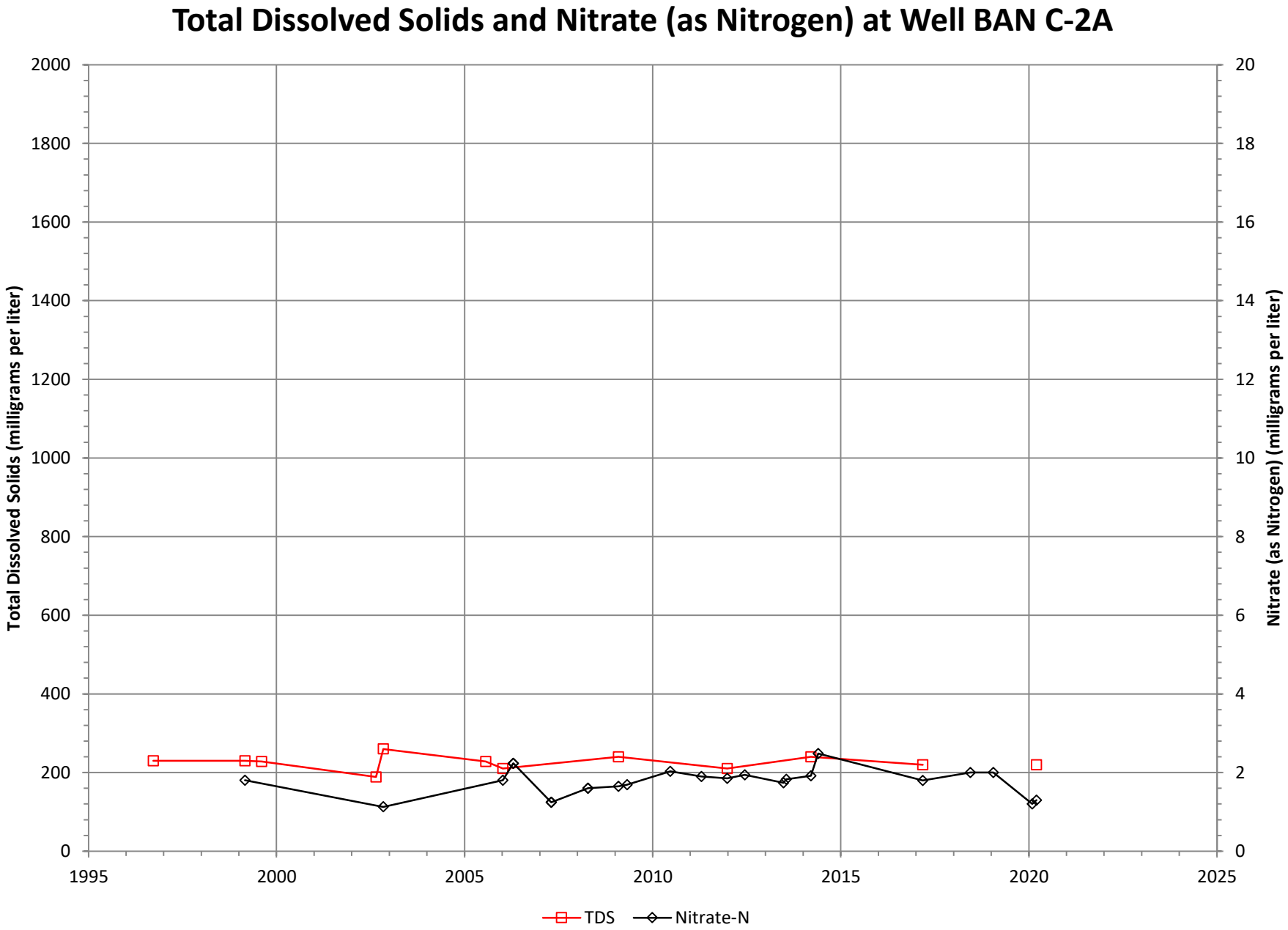
Total Dissolved Solids and Nitrate (as Nitrogen) at Well BAN C-2A
Total Dissolved Solids (milligrams per liter)
Nitrate (as Nitrogen) (milligrams per liter)
2000
1800
1600
1400
1200
1000
800
600
400
200
0
20
18
16
14
12
10
8
6
4
2
0
1995
2000
2005
2010
2015
2020
2025
TDS
Nitrate-N

Figure N-29

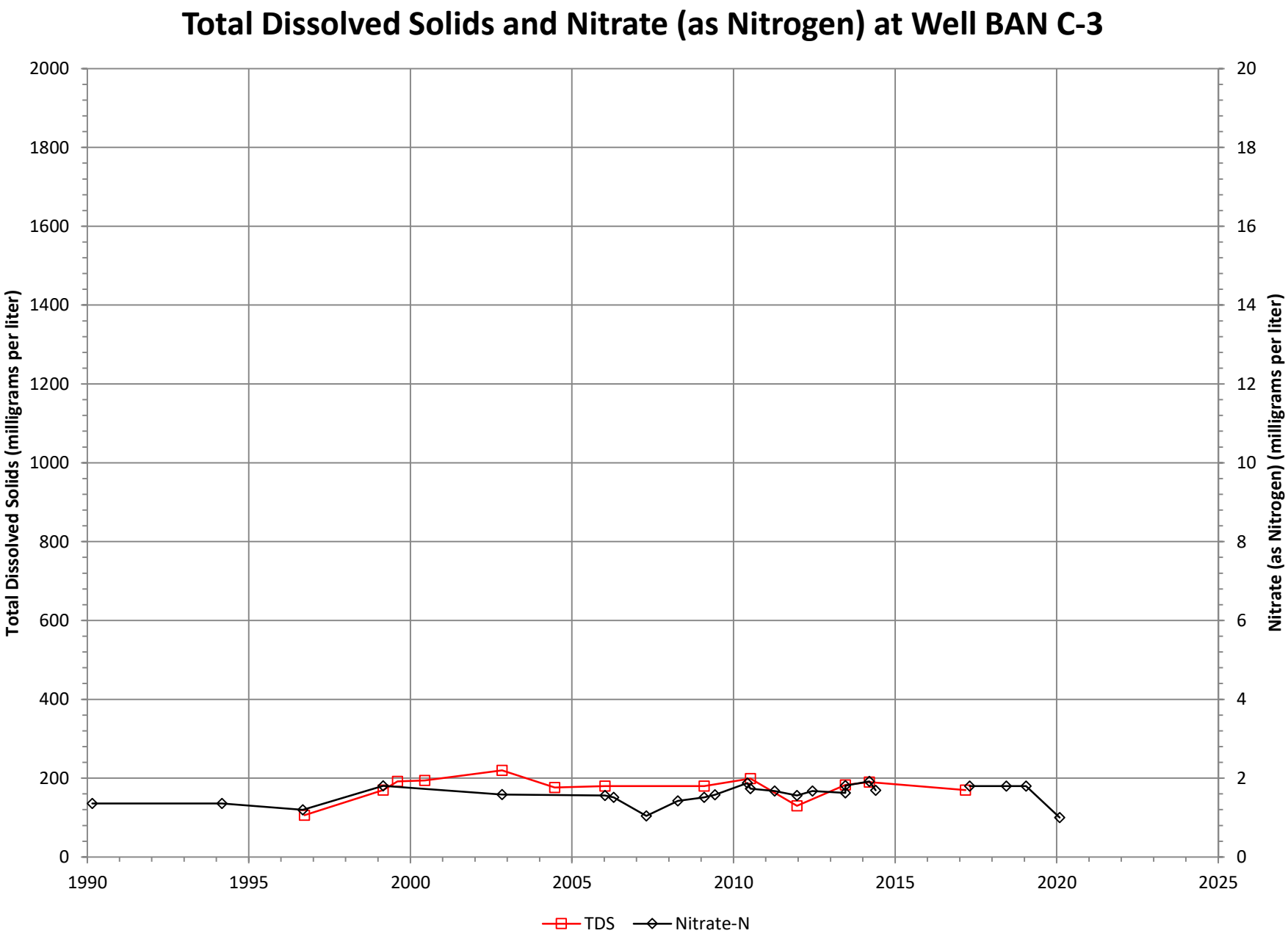
Total Dissolved Solids and Nitrate (as Nitrogen) at Well BAN C-3
Total Dissolved Solids (milligrams per liter)
Nitrate (as Nitrogen) (milligrams per liter)
2000
1800
1600
1400
1200
1000
800
600
400
200
0
20
18
16
14
12
10
8
6
4
2
0
1990
1995
2000
2005
2010
2015
2020
2025
TDS
Nitrate-N

Figure N-30

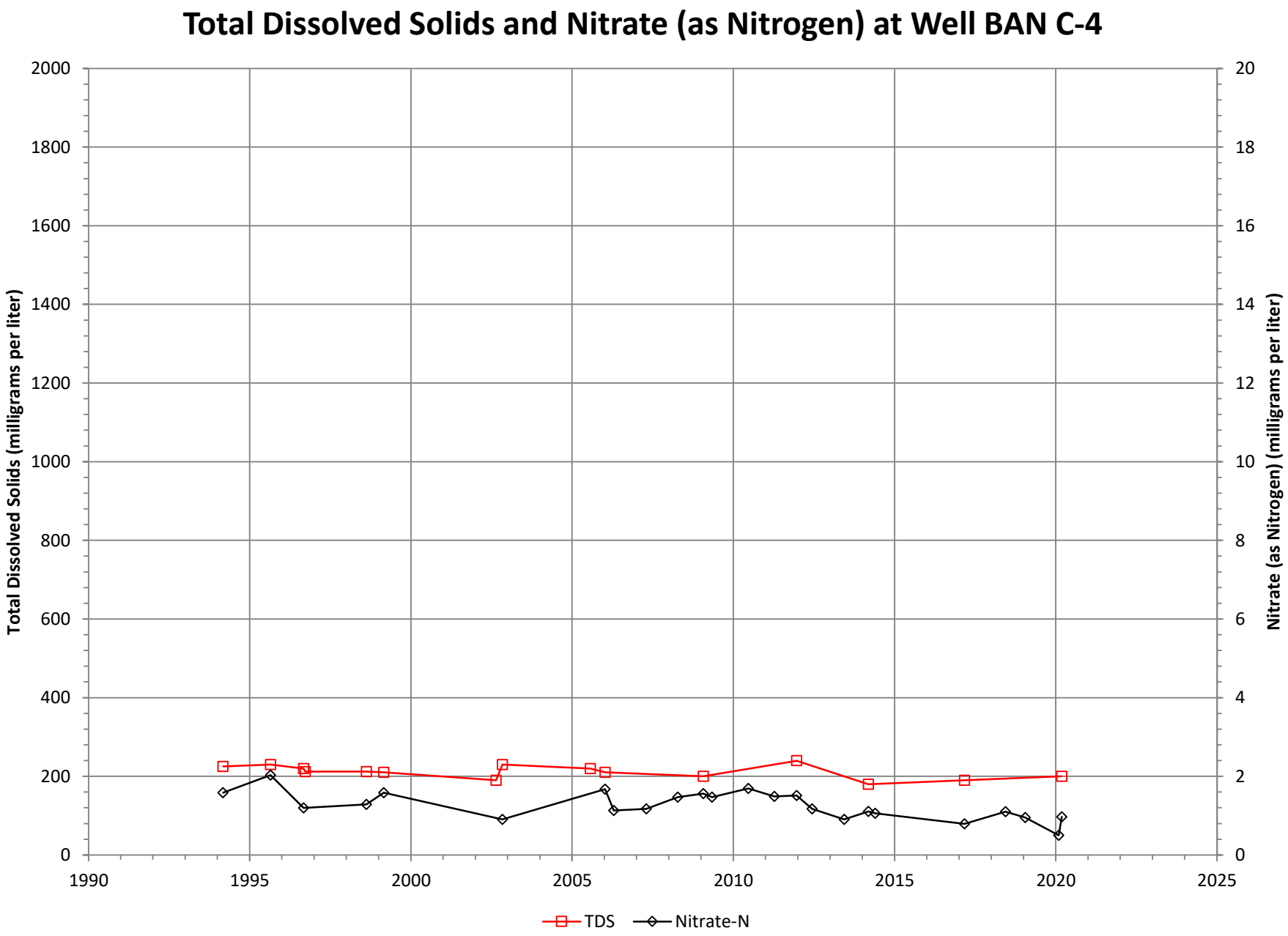
Total Dissolved Solids and Nitrate (as Nitrogen) at Well BAN C-4
Total Dissolved Solids (milligrams per liter)
Nitrate (as Nitrogen) (milligrams per liter)
2000
1800
1600
1400
1200
1000
800
600
400
200
0
20
18
16
14
12
10
8
6
4
2
0
1990
1995
2000
2005
2010
2015
2020
2025
TDS
Nitrate-N

Figure N-31

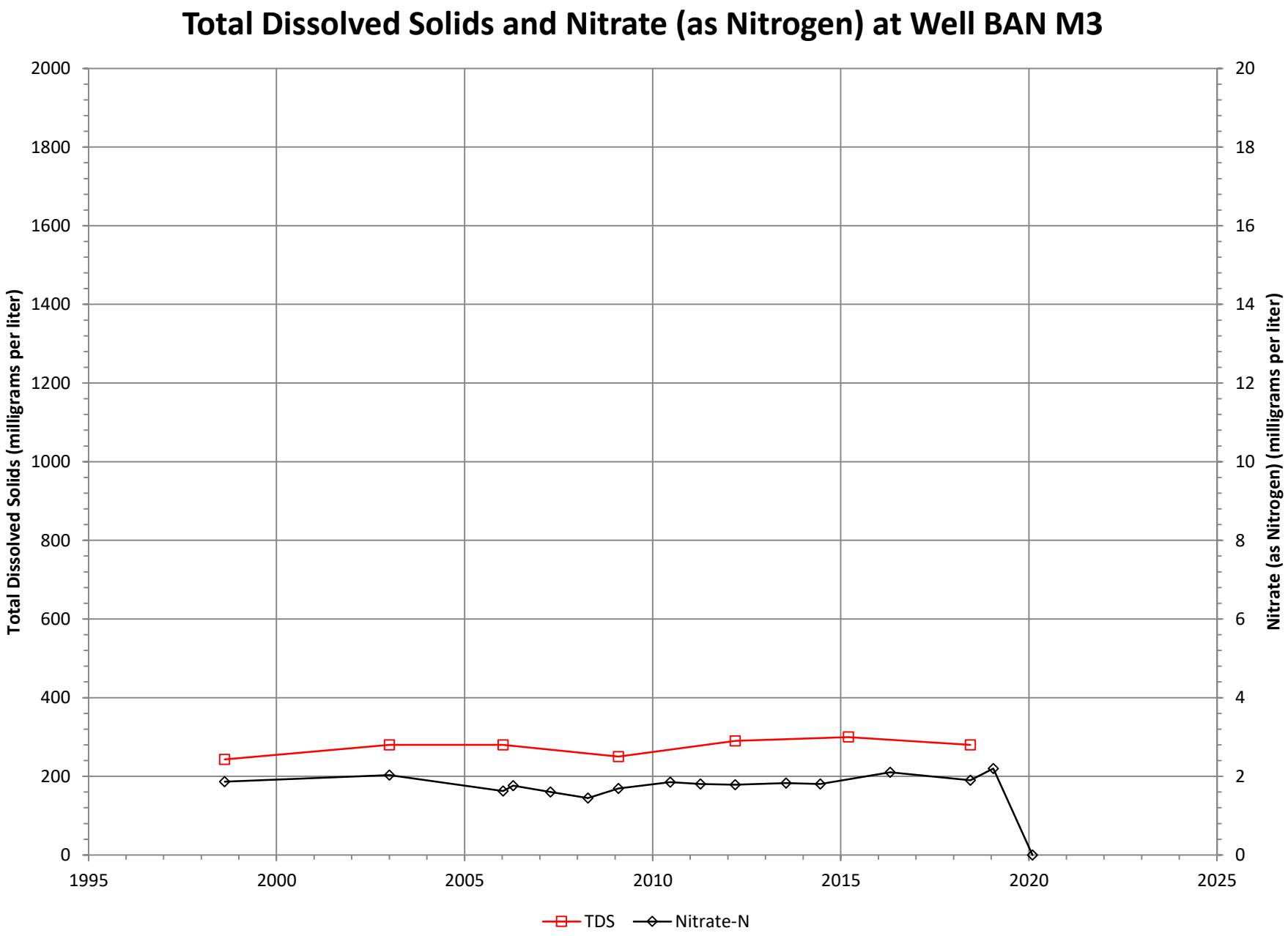
Total Dissolved Solids and Nitrate (as Nitrogen) at Well BAN M3
Total Dissolved Solids (milligrams per liter)
Nitrate (as Nitrogen) (milligrams per liter)
2000
1800
1600
1400
1200
1000
800
600
400
200
0
20
18
16
14
12
10
8
6
4
2
0
1995
2000
2005
2010
2015
2020
2025
TDS
Nitrate-N

Figure N-32

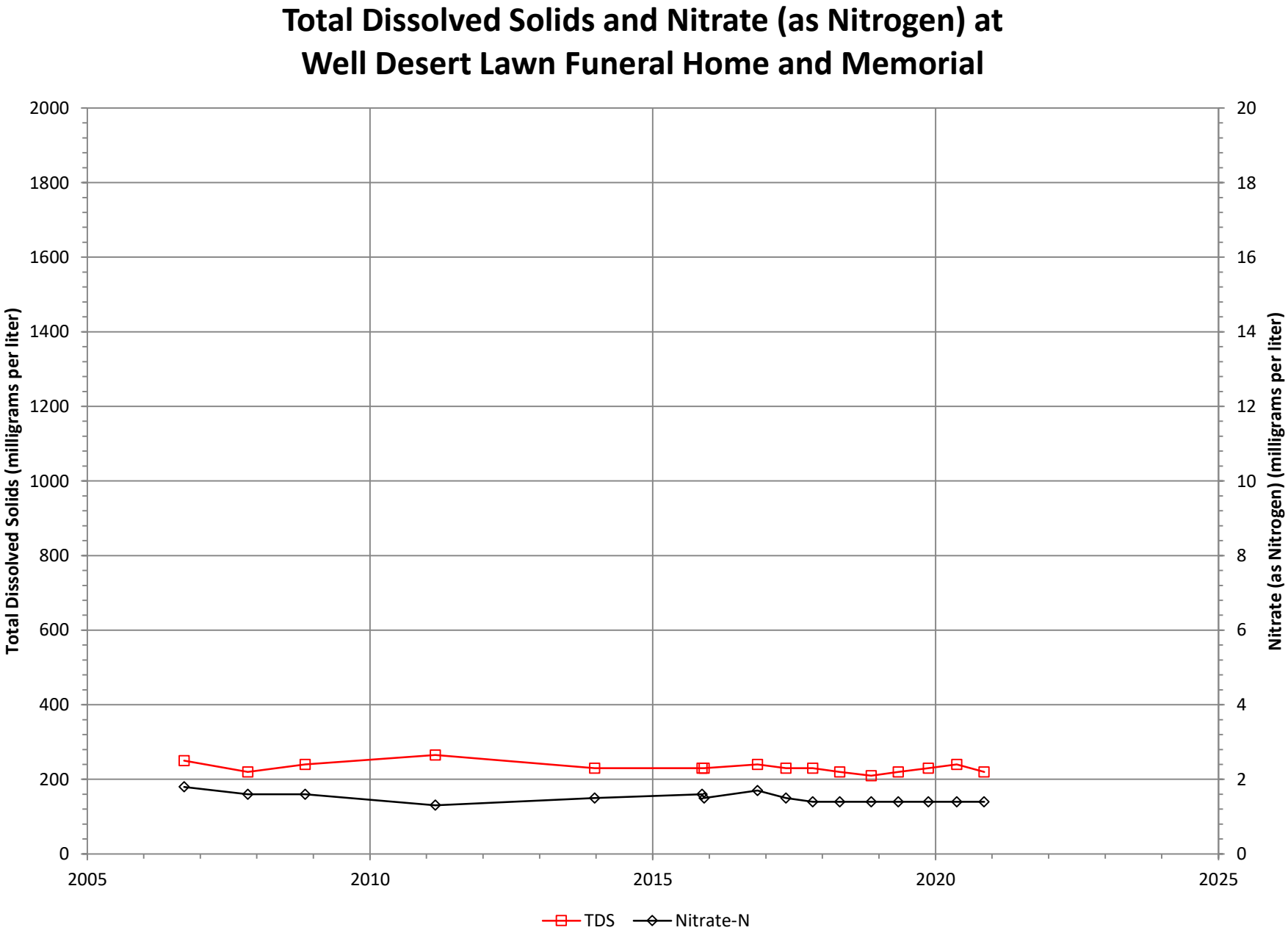
Total Dissolved Solids and Nitrate (as Nitrogen) at Well Desert Lawn Funeral Home and Memorial
Total Dissolved Solids (milligrams per liter)
Nitrate (as Nitrogen) (milligrams per liter)
2000
1800
1600
1400
1200
1000
800
600
400
200
0
20
18
16
14
12
10
8
6
4
2
0
2005
2010
2015
2020
2025
TDS
Nitrate-N

Figure N-33

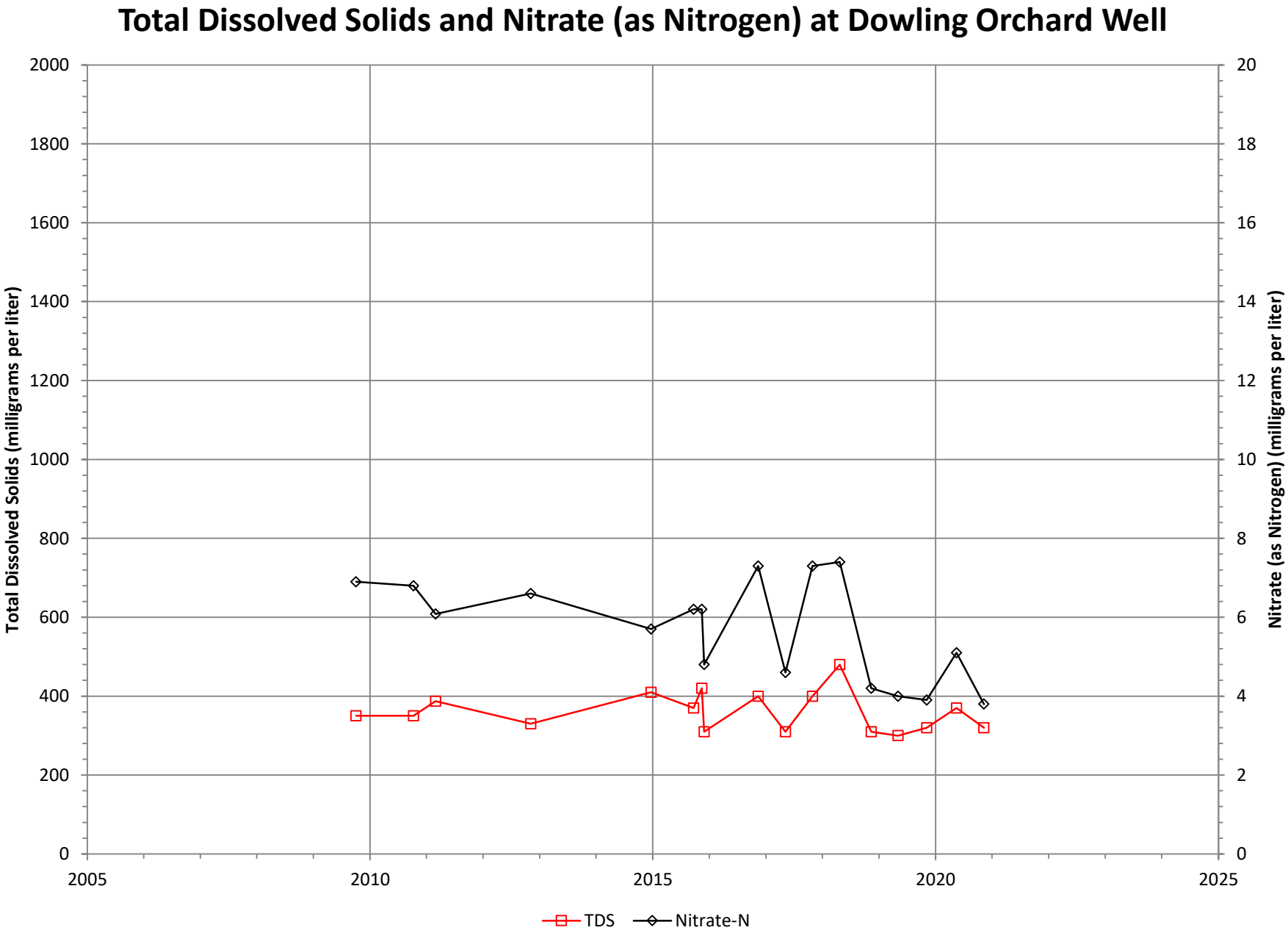
Total Dissolved Solids and Nitrate (as Nitrogen) at Dowling Orchard Well
Total Dissolved Solids (milligrams per liter)
Nitrate (as Nitrogen) (milligrams per liter)
2000
1800
1600
1400
1200
1000
800
600
400
200
0
20
18
16
14
12
10
8
6
4
2
0
2005
2010
2015
2020
2025
TDS
Nitrate-N

Figure N-34

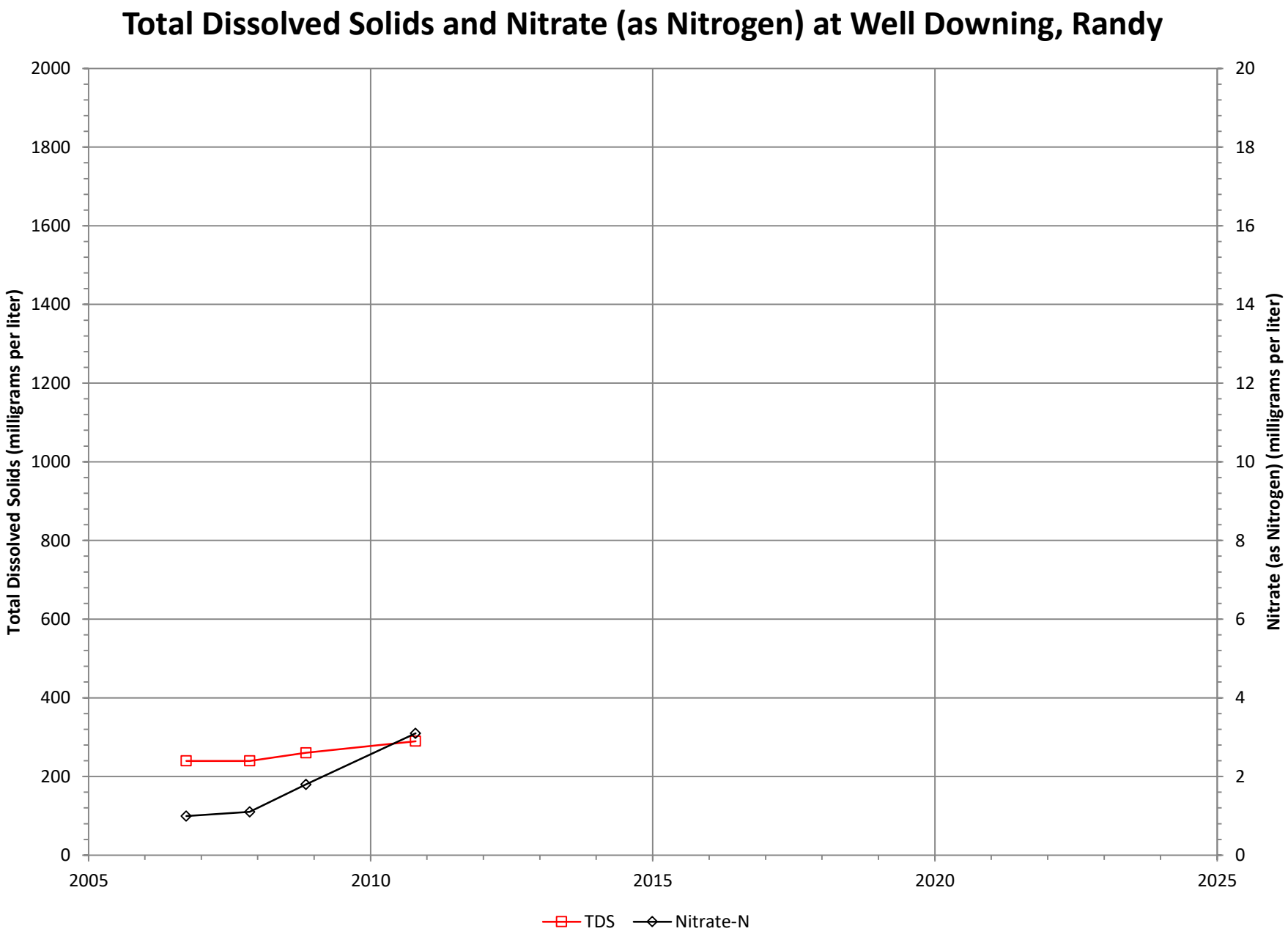
Total Dissolved Solids and Nitrate (as Nitrogen) at Well Downing, Randy
Total Dissolved Solids (milligrams per liter)
Nitrate (as Nitrogen) (milligrams per liter)
2000
1800
1600
1400
1200
1000
800
600
400
200
0
20
18
16
14
12
10
8
6
4
2
0
2005
2010
2015
2020
2025
TDS
Nitrate-N

Figure N-35

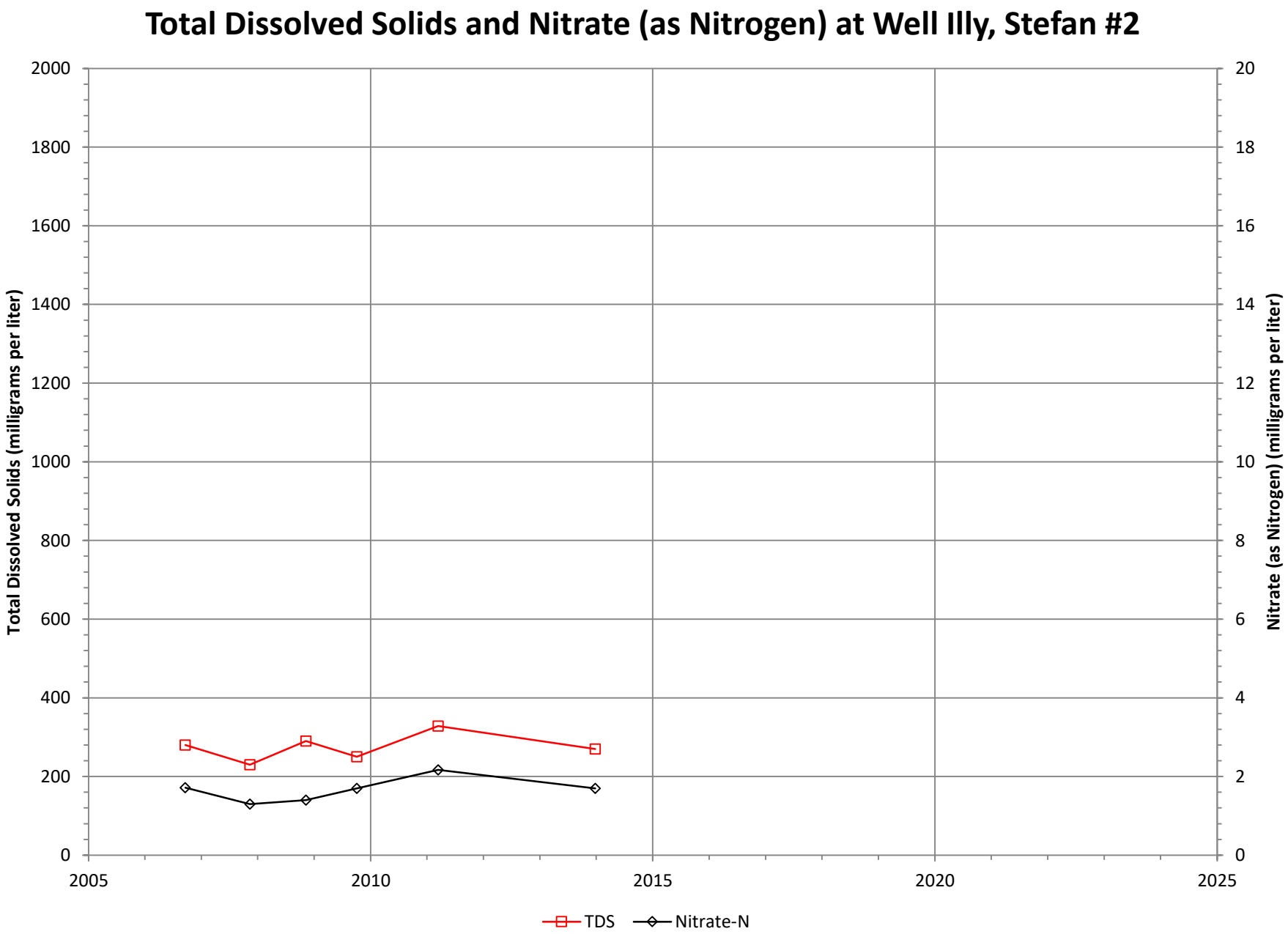
Total Dissolved Solids and Nitrate (as Nitrogen) at Well Illy, Stefan #2
Total Dissolved Solids (milligrams per liter)
Nitrate (as Nitrogen) (milligrams per liter)
2000
1800
1600
1400
1200
1000
800
600
400
200
0
20
18
16
14
12
10
8
6
4
2
0
2005
2010
2015
2020
2025
TDS
Nitrate-N

Figure N-36

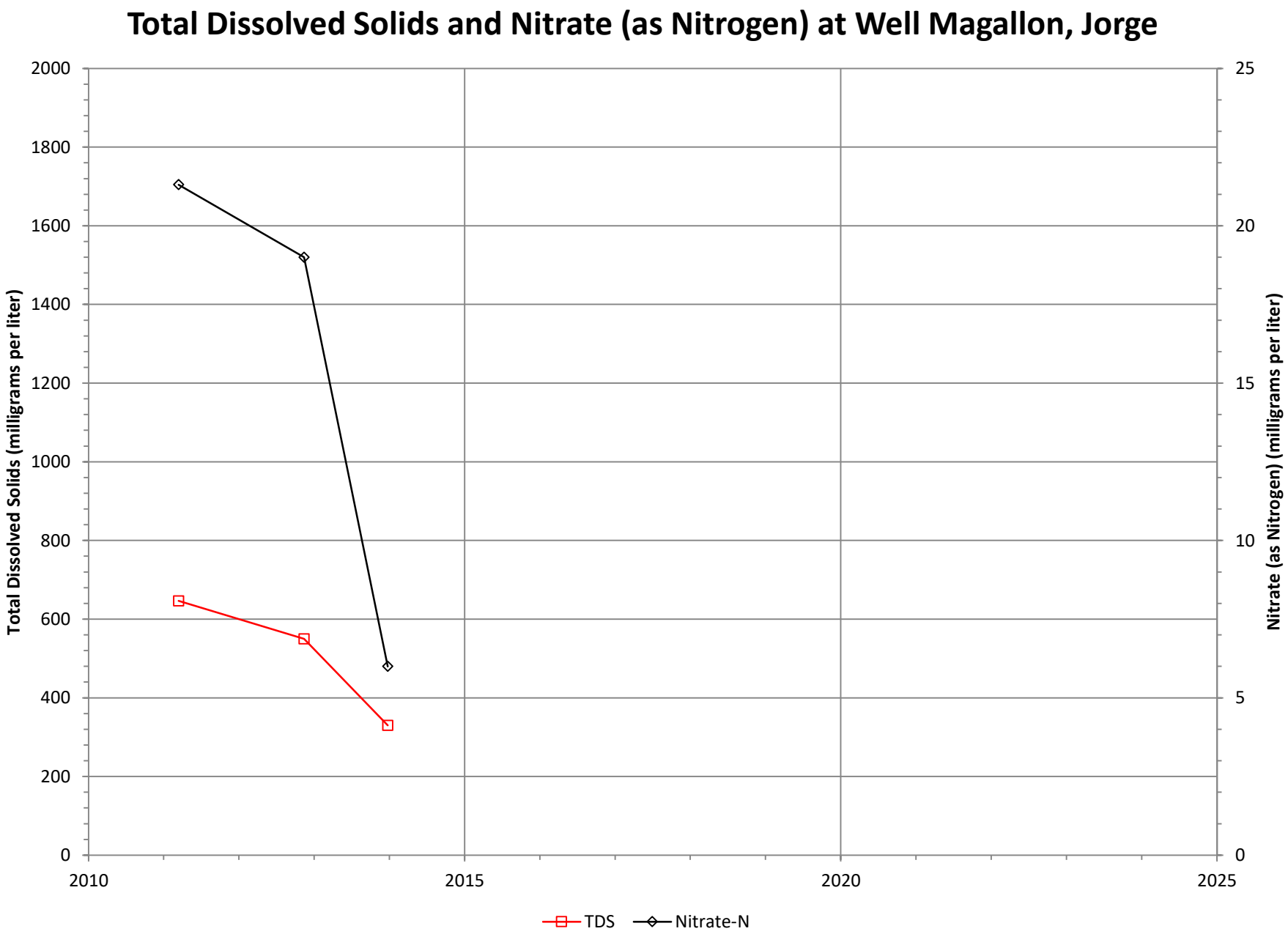
Total Dissolved Solids and Nitrate (as Nitrogen) at Well Magallon, Jorge
Total Dissolved Solids (milligrams per liter)
Nitrate (as Nitrogen) (milligrams per liter)
2000
1800
1600
1400
1200
1000
800
600
400
200
0
25
20
15
10
5
0
2010
2015
2020
2025
TDS
Nitrate-N

Figure N-37

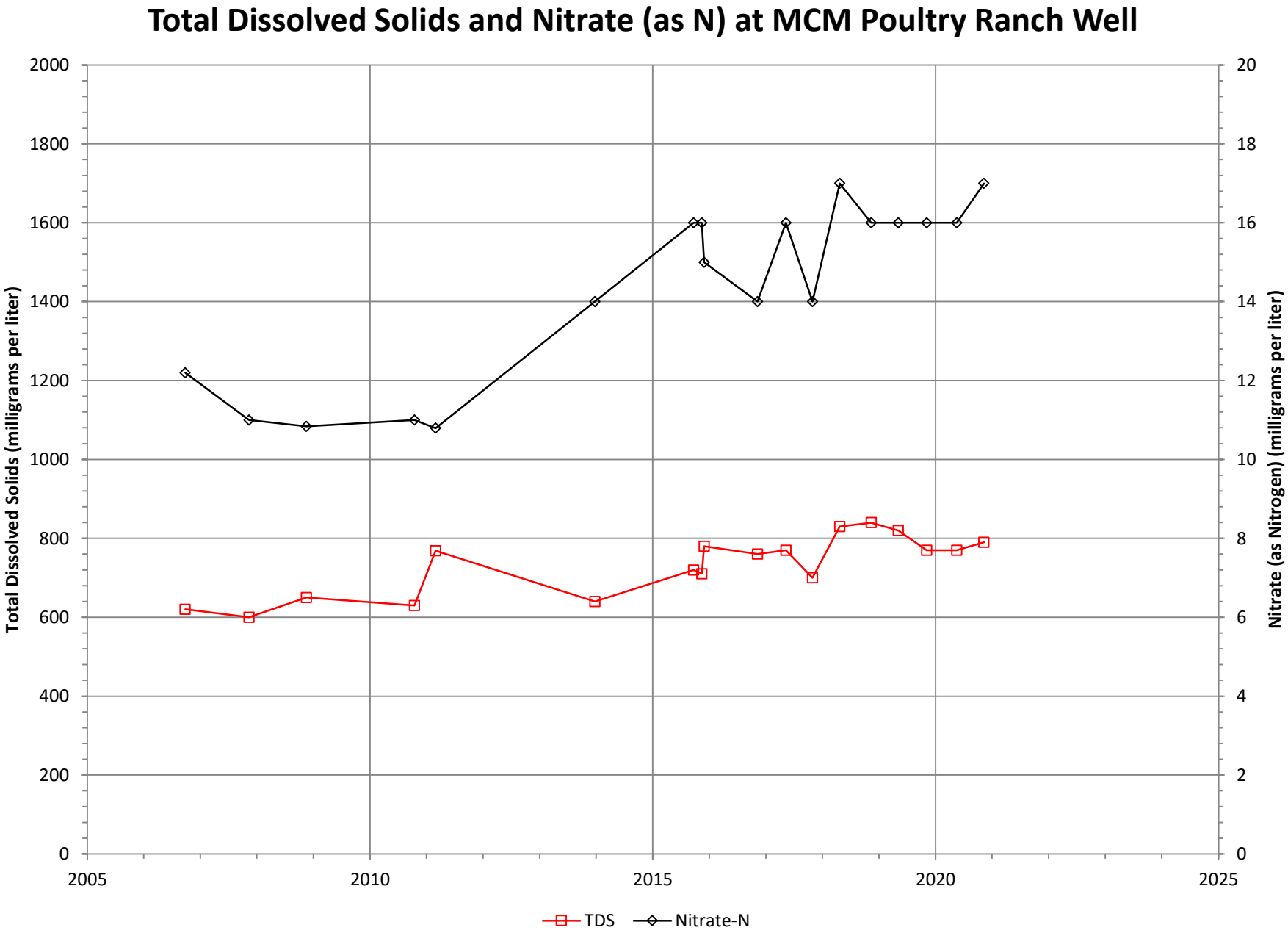
Total Dissolved Solids and Nitrate (as N) at MCM Poultry Ranch Well
Total Dissolved Solids (milligrams per liter)
Nitrate (as Nitrogen) (milligrams per liter)
2000
1800
1600
1400
1200
1000
800
600
400
200
0
20
18
16
14
12
10
8
6
4
2
0
2005
2010
2015
2020
2025
TDS
Nitrate-N

Figure N-38

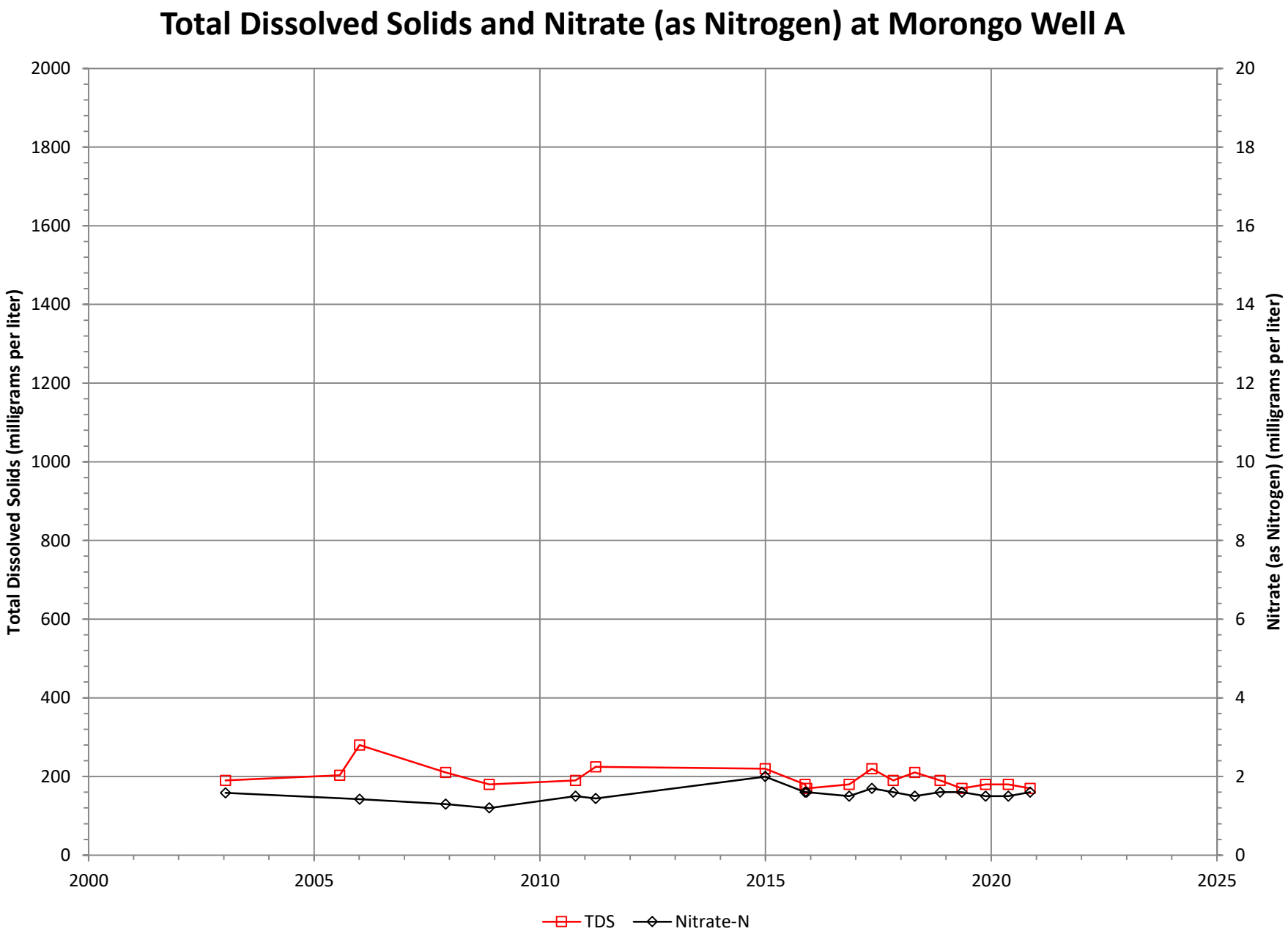
Total Dissolved Solids and Nitrate (as Nitrogen) at Morongo Well A
Total Dissolved Solids (milligrams per liter)
Nitrate (as Nitrogen) (milligrams per liter)
2000
1800
1600
1400
1200
1000
800
600
400
200
0
20
18
16
14
12
10
8
6
4
2
0
2000
2005
2010
2015
2020
2025
TDS
Nitrate-N

Figure N-39

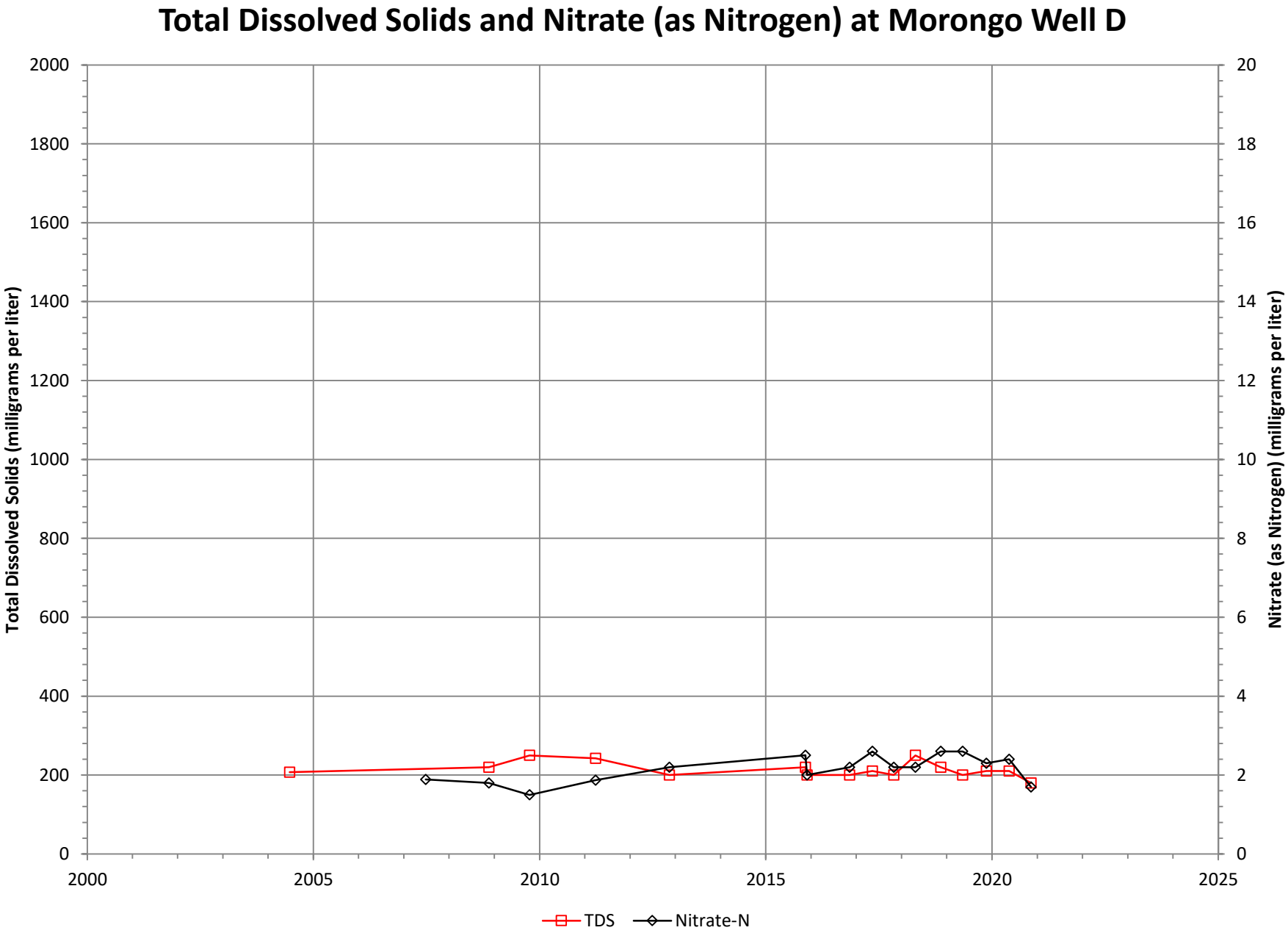
Total Dissolved Solids and Nitrate (as Nitrogen) at Morongo Well D
Total Dissolved Solids (milligrams per liter)
Nitrate (as Nitrogen) (milligrams per liter)
2000
1800
1600
1400
1200
1000
800
600
400
200
0
20
18
16
14
12
10
8
6
4
2
0
2000
2005
2010
2015
2020
2025
TDS
Nitrate-N

Figure N-40

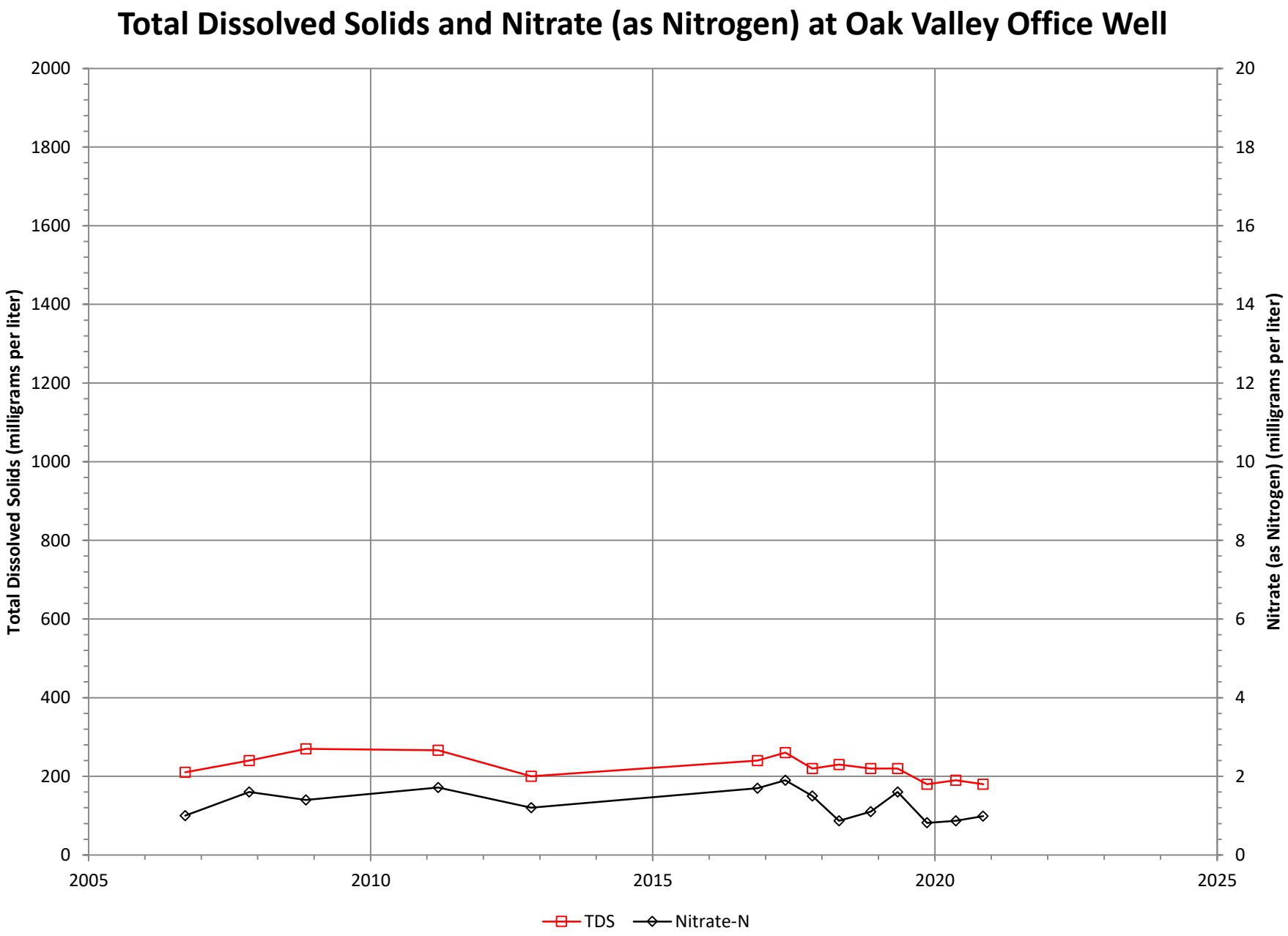
Total Dissolved Solids and Nitrate (as Nitrogen) at Oak Valley Office Well
Total Dissolved Solids (milligrams per liter)
Nitrate (as Nitrogen) (milligrams per liter)
2000
1800
1600
1400
1200
1000
800
600
400
200
0
20
18
16
14
12
10
8
6
4
2
0
2005
2010
2015
2020
2025
TDS
Nitrate-N

Figure N-41

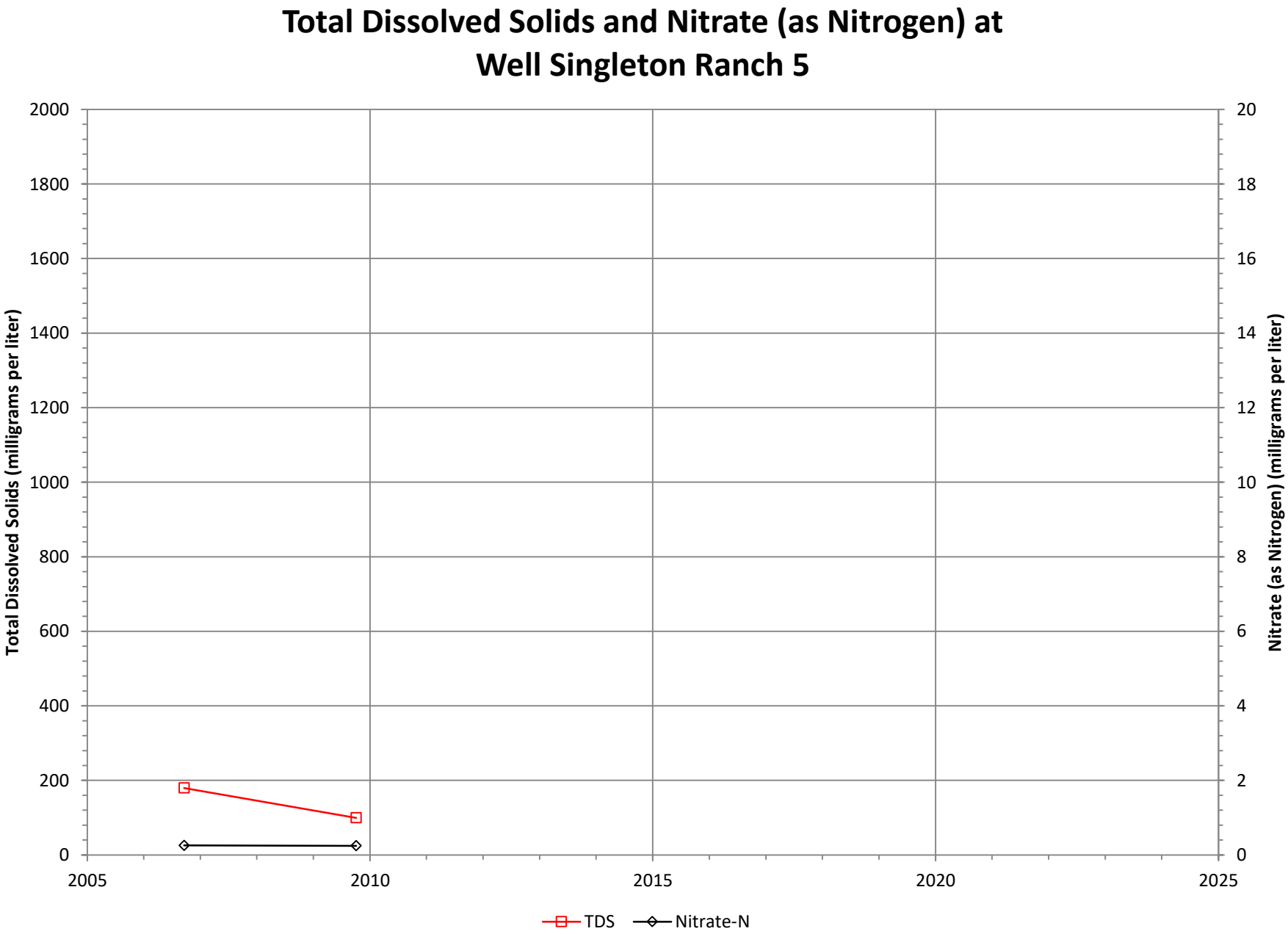
Total Dissolved Solids and Nitrate (as Nitrogen) at Well Singleton Ranch 5
Total Dissolved Solids (milligrams per liter)
Nitrate (as Nitrogen) (milligrams per liter)
2000
1800
1600
1400
1200
1000
800
600
400
200
0
20
18
16
14
12
10
8
6
4
2
0
2005
2010
2015
2020
2025
TDS
Nitrate-N

Figure N-42

Total Dissolved Solids and Nitrate (as Nitrogen) at Well Singleton Ranch 7

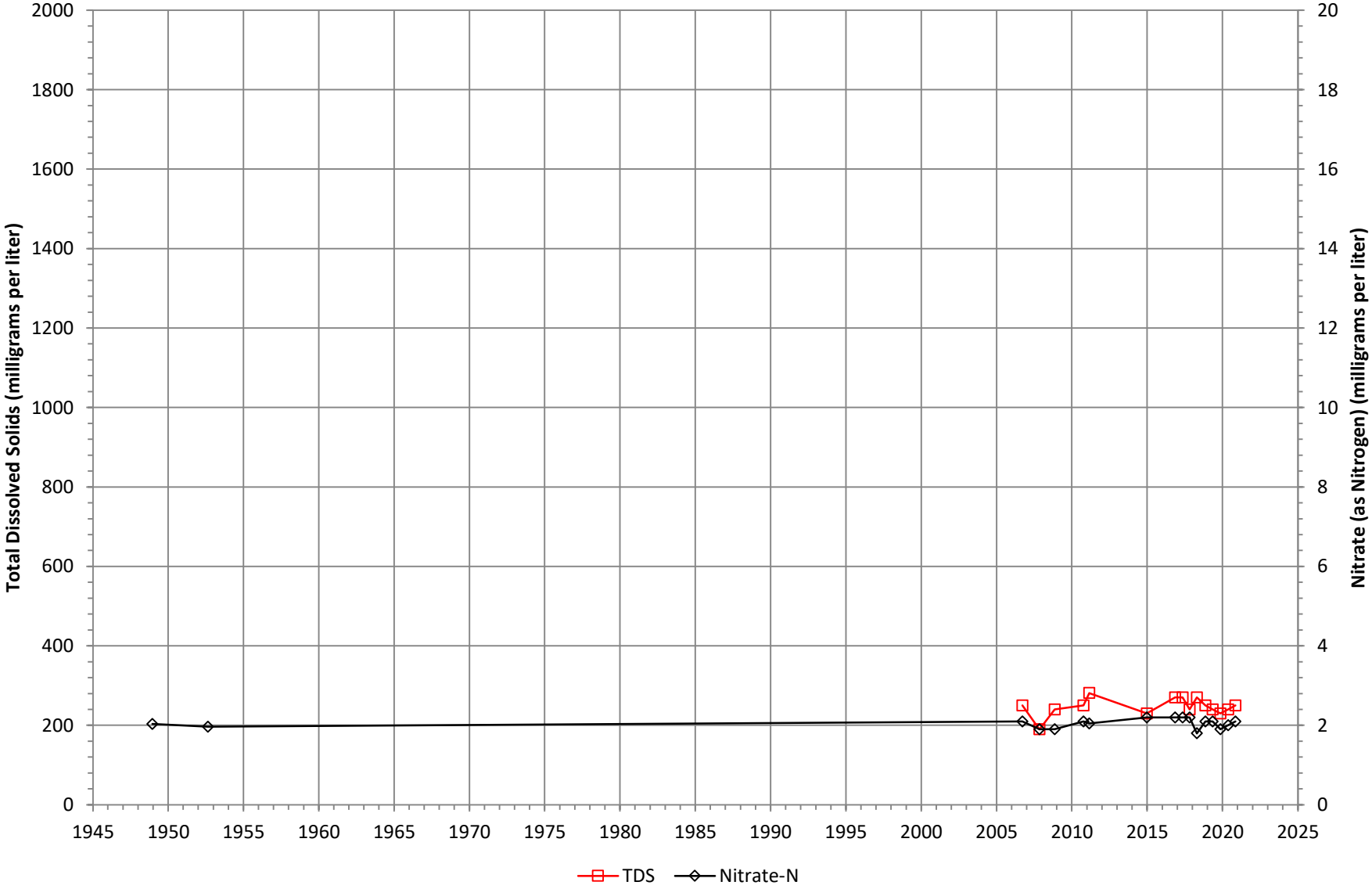

Figure N-43

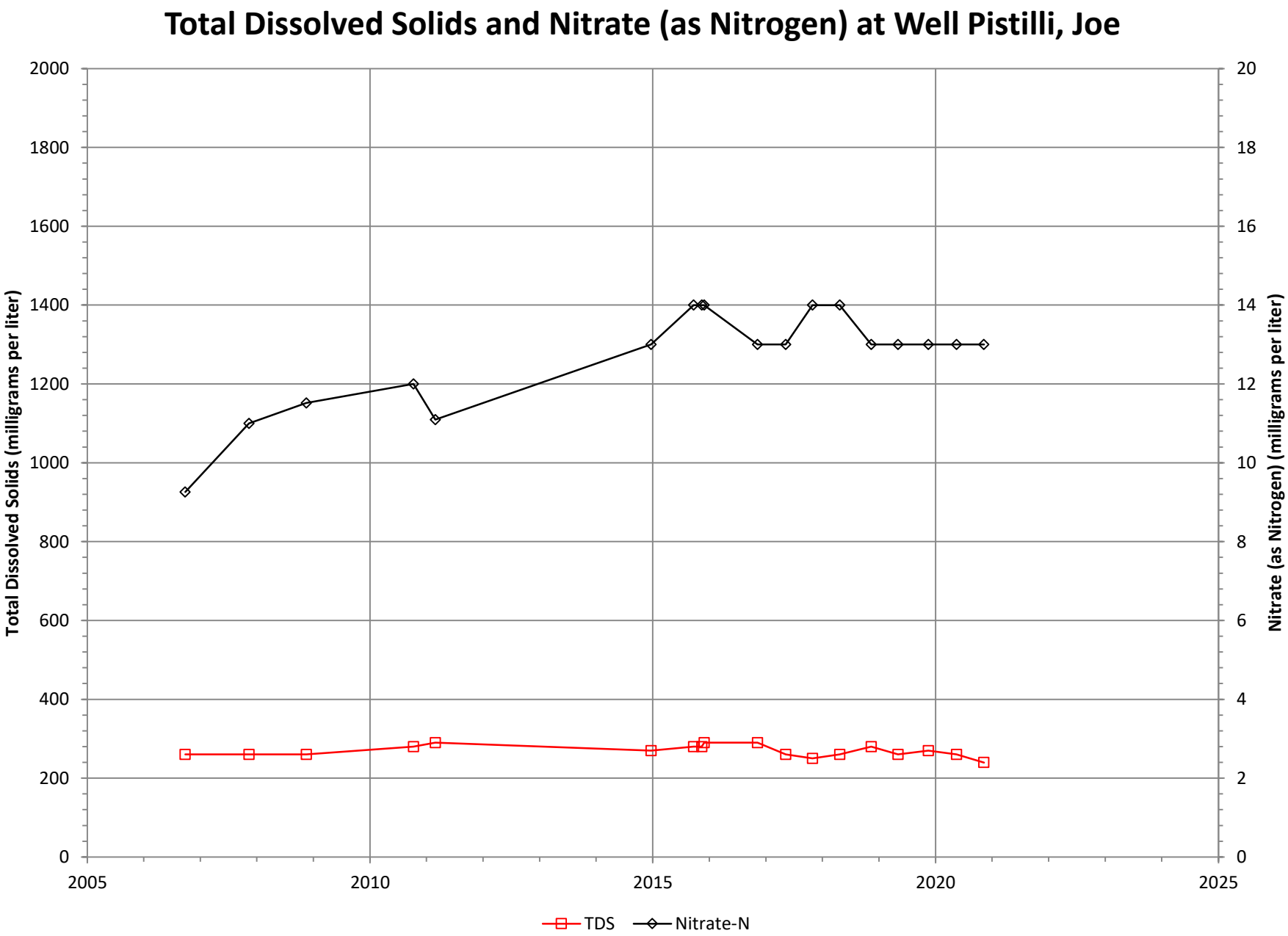
Total Dissolved Solids and Nitrate (as Nitrogen) at Well Pistilli, Joe
Total Dissolved Solids (milligrams per liter)
Nitrate (as Nitrogen) (milligrams per liter)
2000
1800
1600
1400
1200
1000
800
600
400
200
0
20
18
16
14
12
10
8
6
4
2
0
2005
2010
2015
2020
2025
TDS
Nitrate-N

Figure N-44

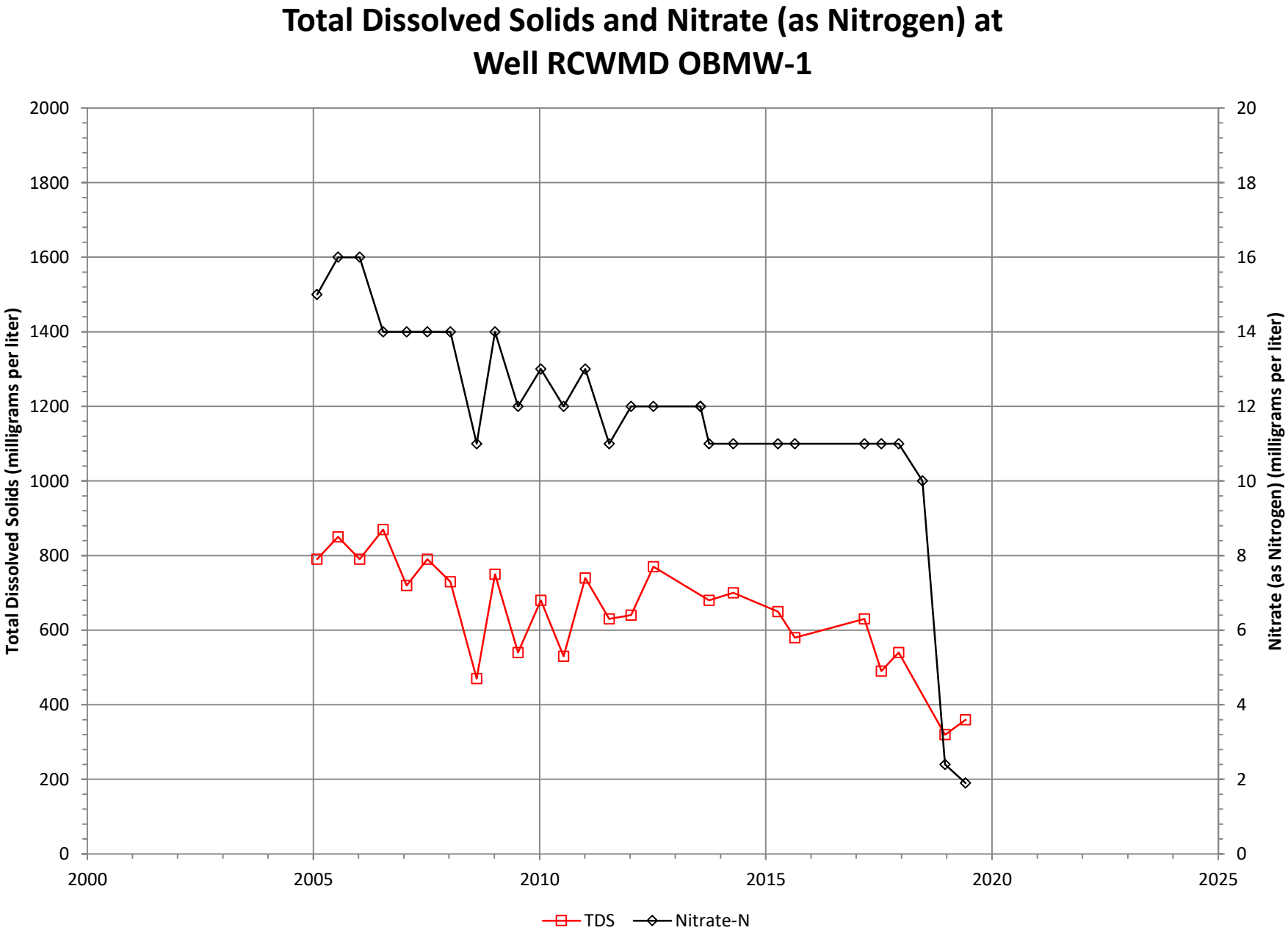
Total Dissolved Solids and Nitrate (as Nitrogen) at Well RCWMD OBMW-1
Total Dissolved Solids (milligrams per liter)
Nitrate (as Nitrogen) (milligrams per liter)
0
200
400
600
800
1000
1200
1400
1600
1800
2000
0
2
4
6
8
10
12
14
16
18
20
2000
2005
2010
2015
2020
2025
TDS
Nitrate-N

Figure N-45

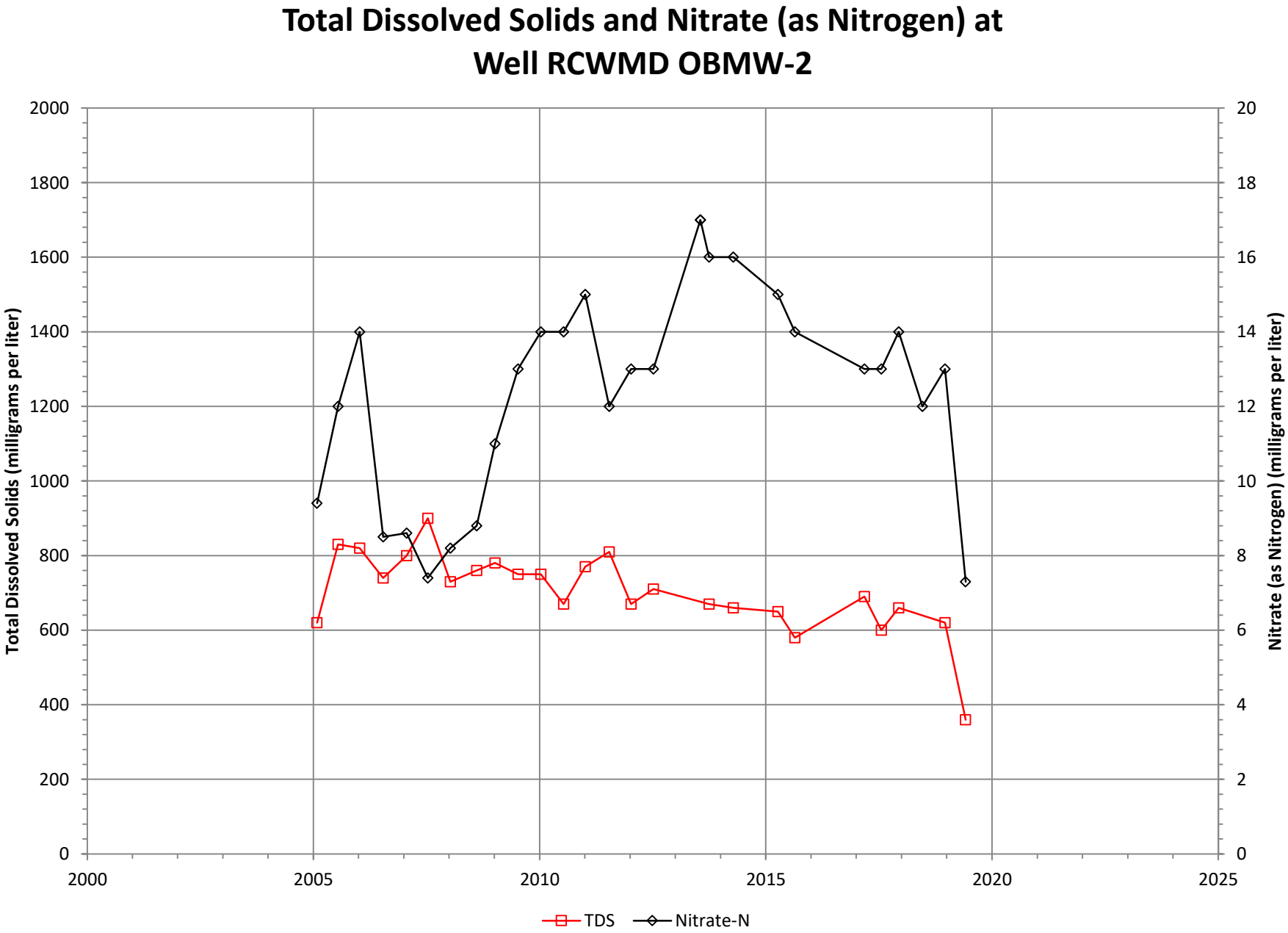
Total Dissolved Solids and Nitrate (as Nitrogen) at Well RCWMD OBMW-2
Total Dissolved Solids (milligrams per liter)
Nitrate (as Nitrogen) (milligrams per liter)
0
200
400
600
800
1000
1200
1400
1600
1800
2000
0
2
4
6
8
10
12
14
16
18
20
2000
2005
2010
2015
2020
2025
TDS
Nitrate-N

Figure N-46

Total Dissolved Solids and Nitrate (as Nitrogen) at Well RCWMD OBMW-3

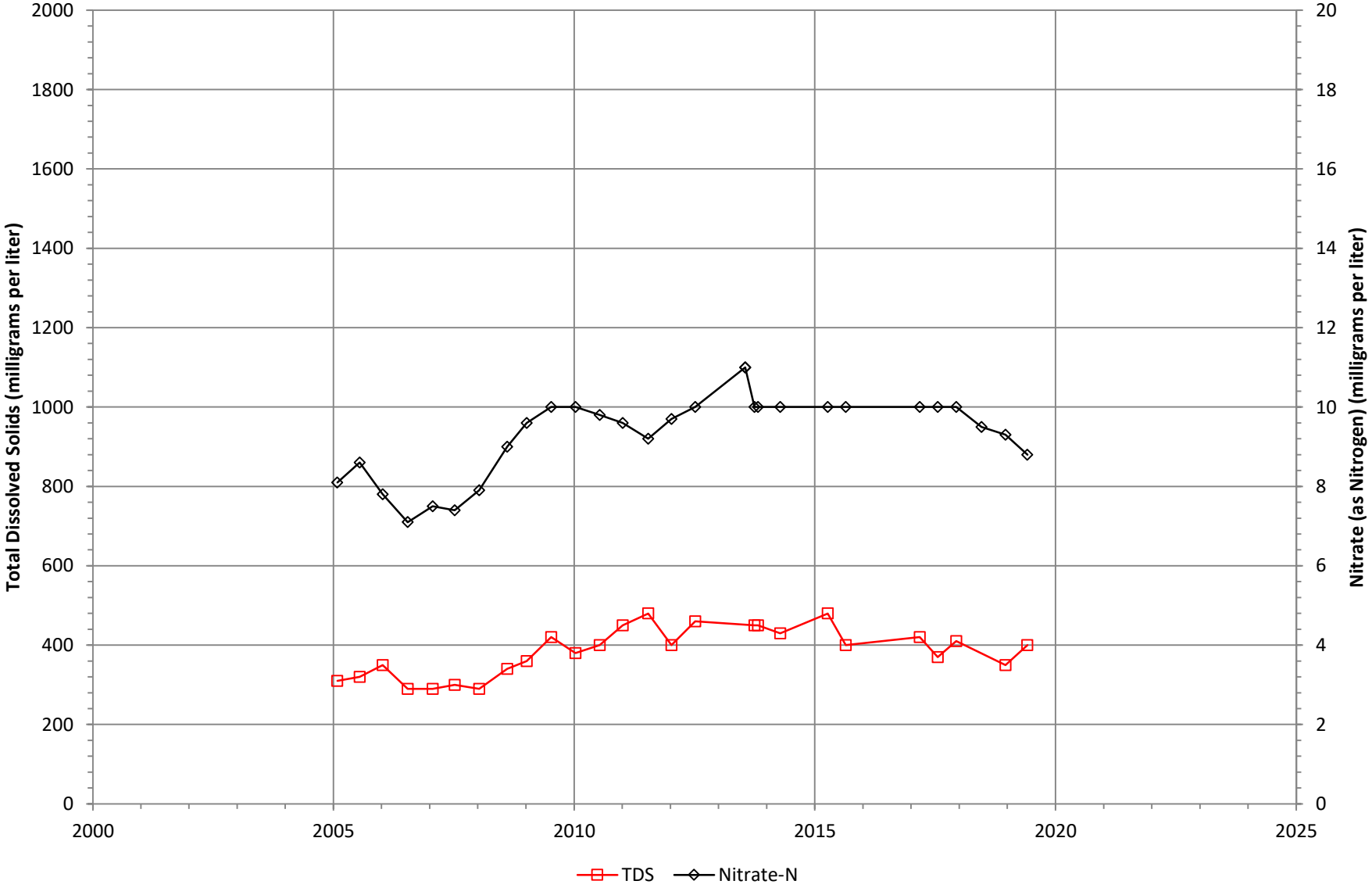

Figure N-47

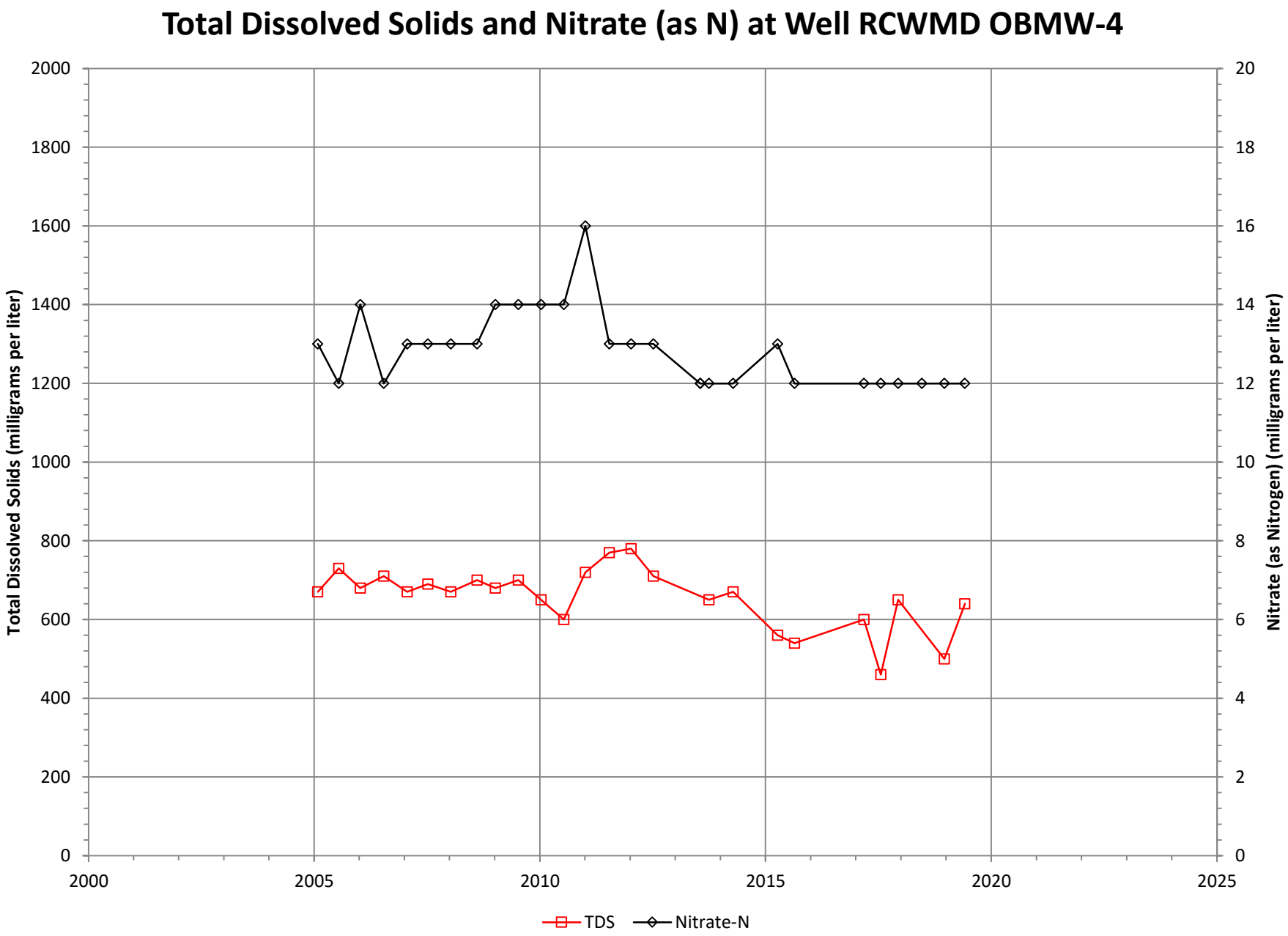
Total Dissolved Solids and Nitrate (as N) at Well RCWMD OBMW-4
Total Dissolved Solids (milligrams per liter)
Nitrate (as Nitrogen) (milligrams per liter)
2000
1800
1600
1400
1200
1000
800
600
400
200
0
20
18
16
14
12
10
8
6
4
2
0
2000
2005
2010
2015
2020
2025
TDS
Nitrate-N

Figure N-48

Total Dissolved Solids and Nitrate (as Nitrogen) at Well Shardonale Mesa Owners Association #1

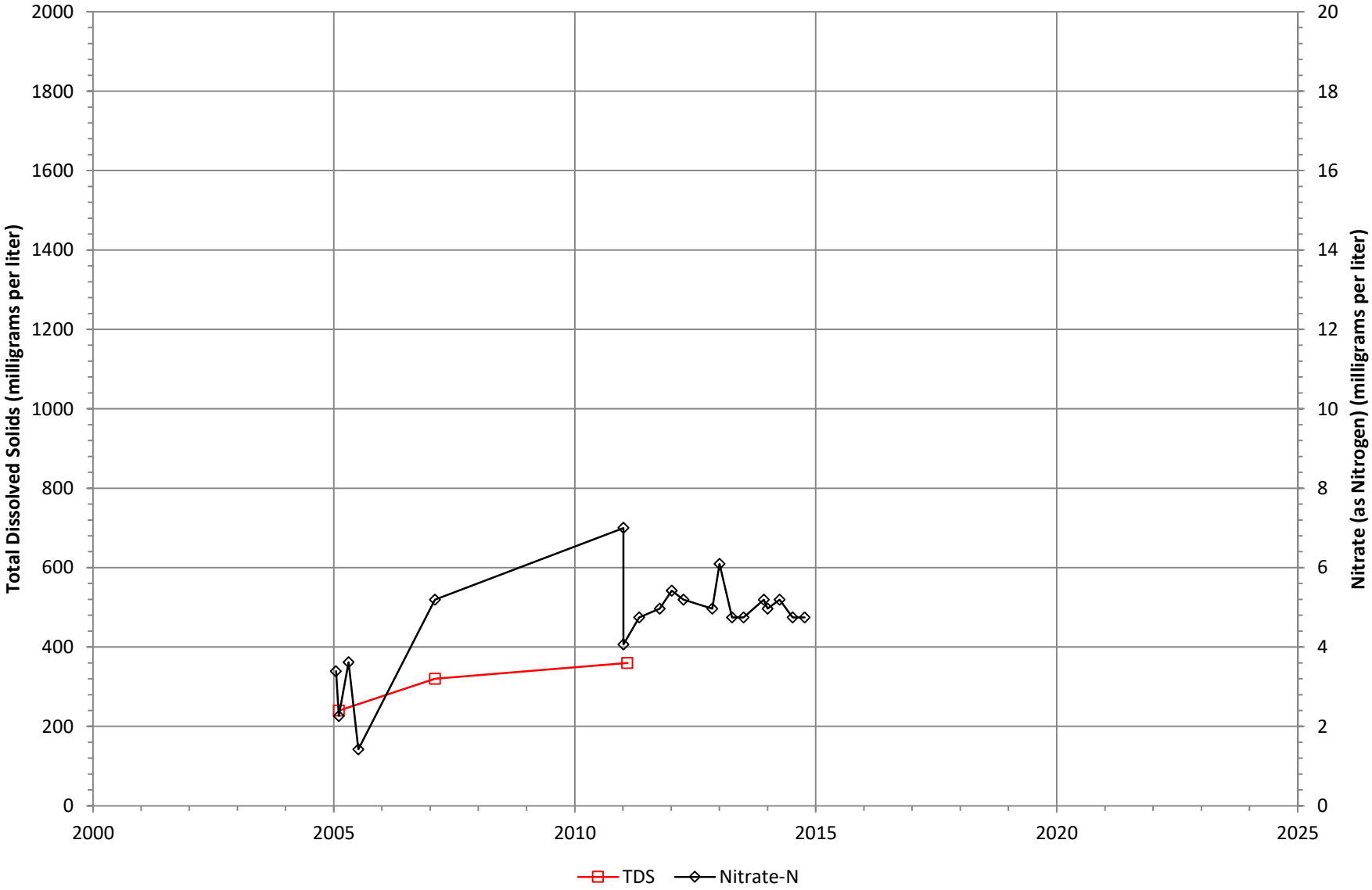

Figure N-49

Total Dissolved Solids and Nitrate (as Nitrogen) at Well Shardonale Mesa Owners Association #2

Figure N-50

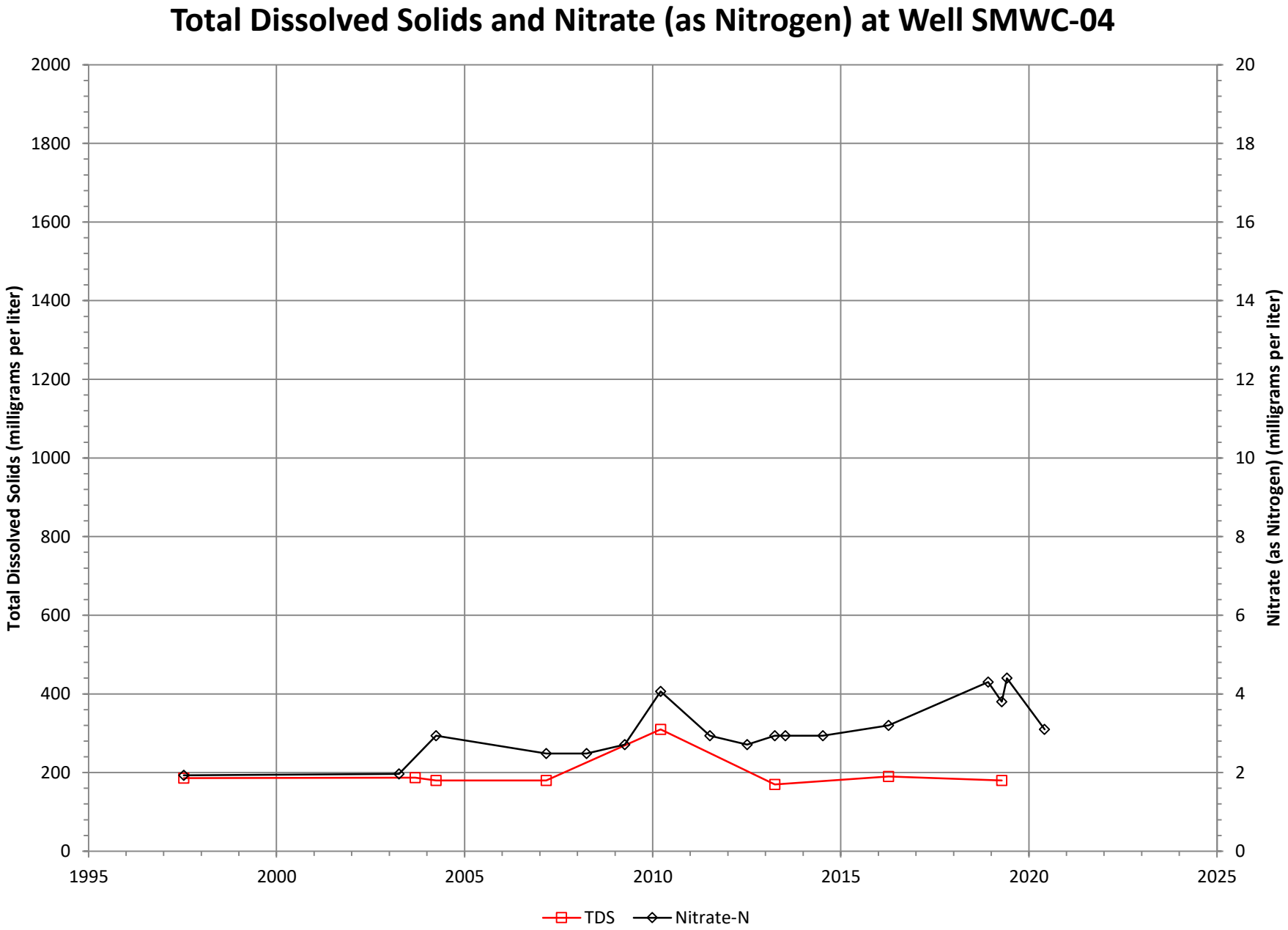
Total Dissolved Solids and Nitrate (as Nitrogen) at Well SMWC-04
Total Dissolved Solids (milligrams per liter)
Nitrate (as Nitrogen) (milligrams per liter)
2000
1800
1600
1400
1200
1000
800
600
400
200
0
20
18
16
14
12
10
8
6
4
2
0
1995
2000
2005
2010
2015
2020
2025
TDS
Nitrate-N

Figure N-51

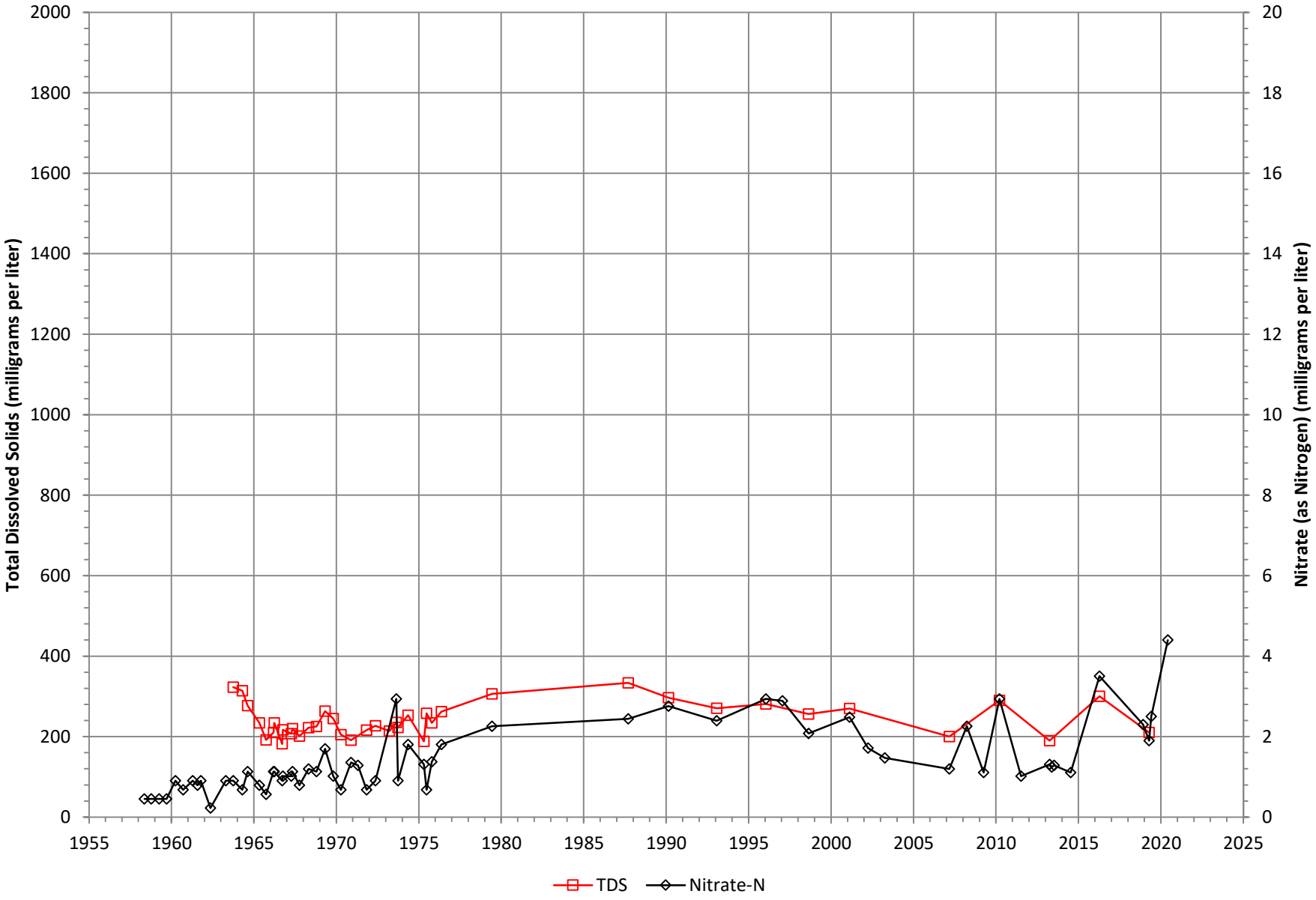
Total Dissolved Solids and Nitrate (as Nitrogen) at Well SMWC-05
Total Dissolved Solids (milligrams per liter)
Nitrate (as Nitrogen) (milligrams per liter)
2000
1800
1600
1400
1200
1000
800
600
400
200
0
20
18
16
14
12
10
8
6
4
2
0
1955
1960
1965
1970
1975
1980
1985
1990
1995
2000
2005
2010
2015
2020
2025
TDS
Nitrate-N

Figure N-52

Total Dissolved Solids and Nitrate (as Nitrogen) at Well USGS 335834116582101

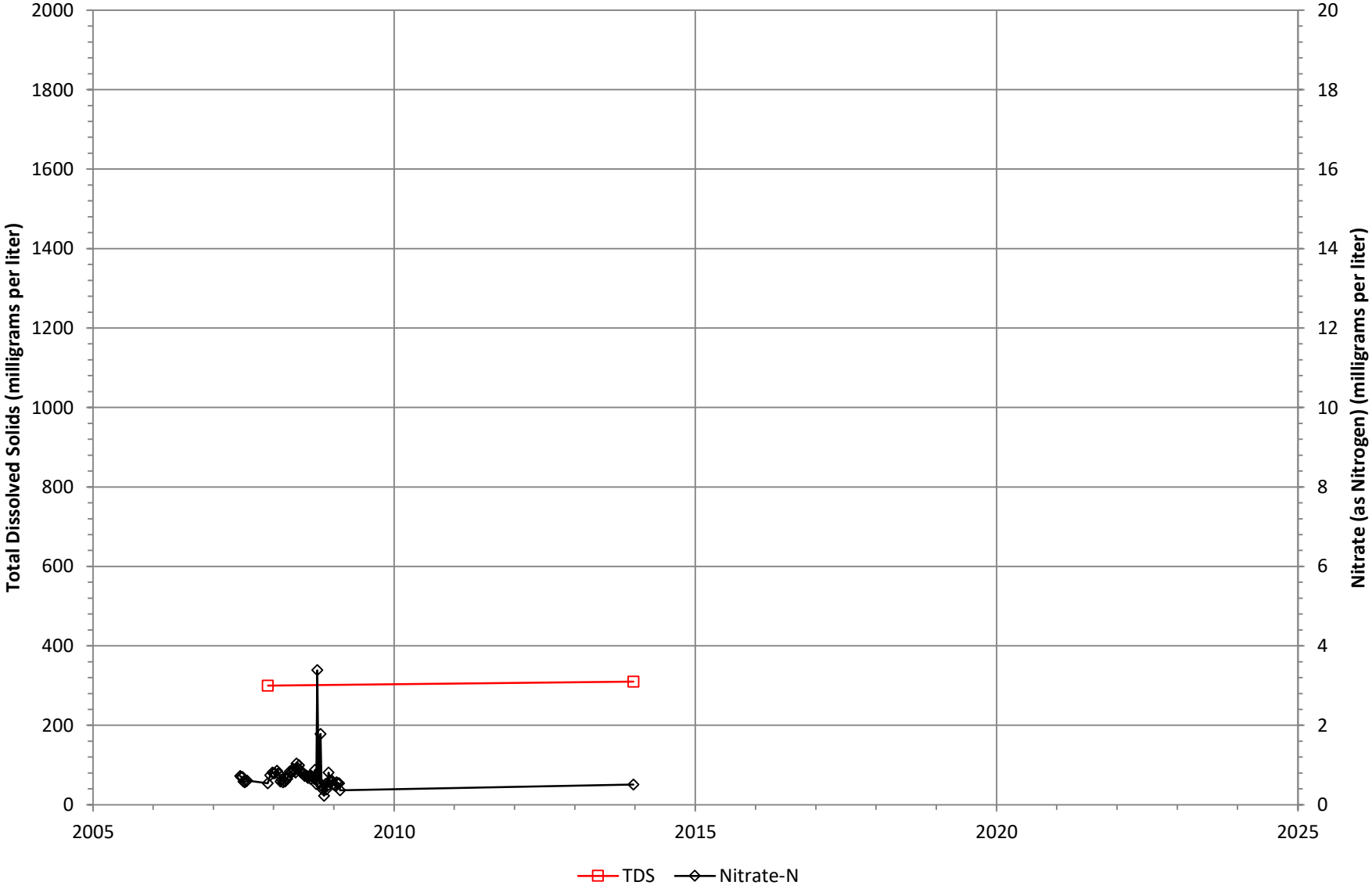

Figure N-53

Total Dissolved Solids and Nitrate (as Nitrogen) at Well USGS 335834116582102

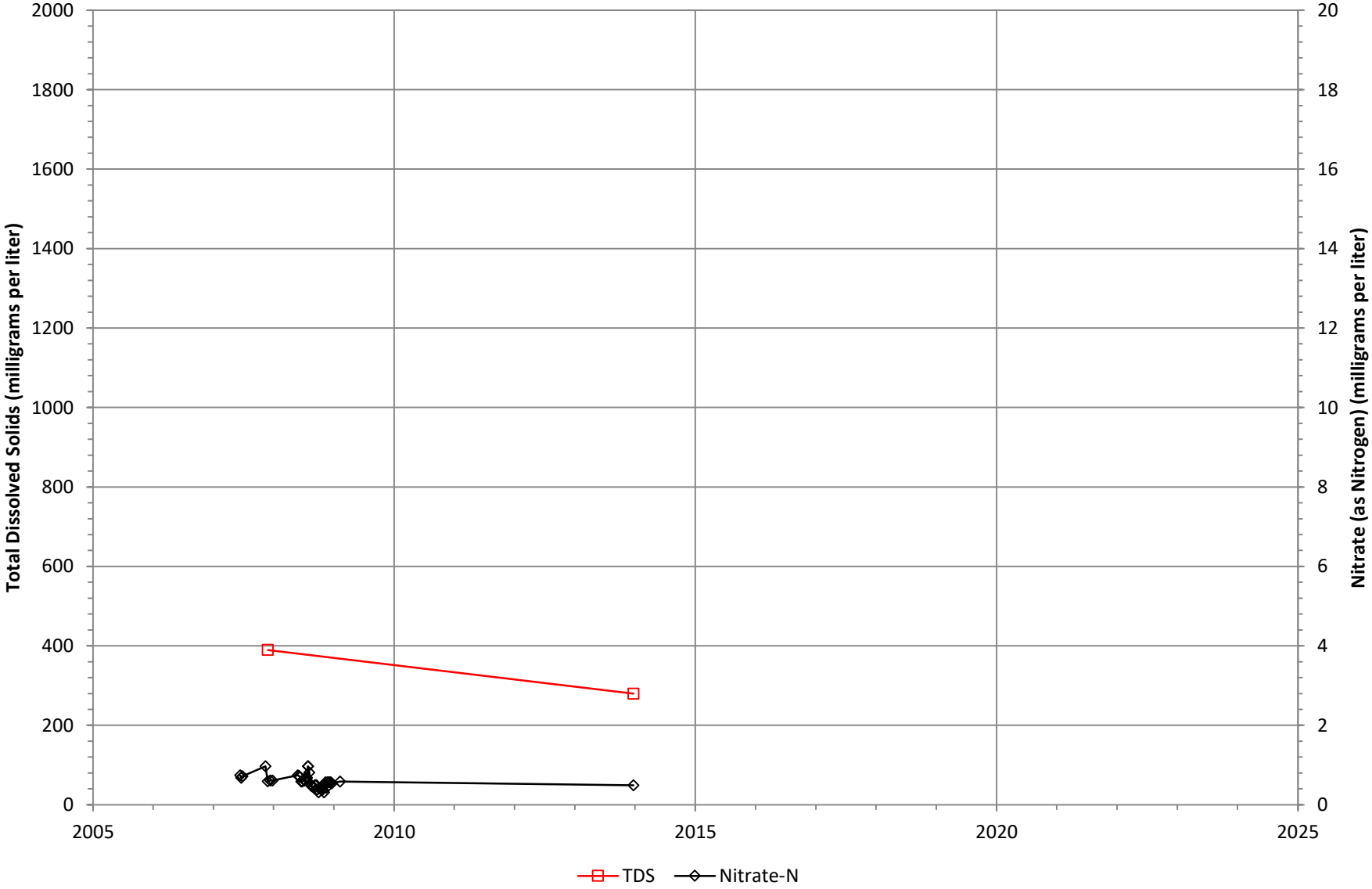

Figure N-54

Total Dissolved Solids and Nitrate (as Nitrogen) at Well Witter, George G.

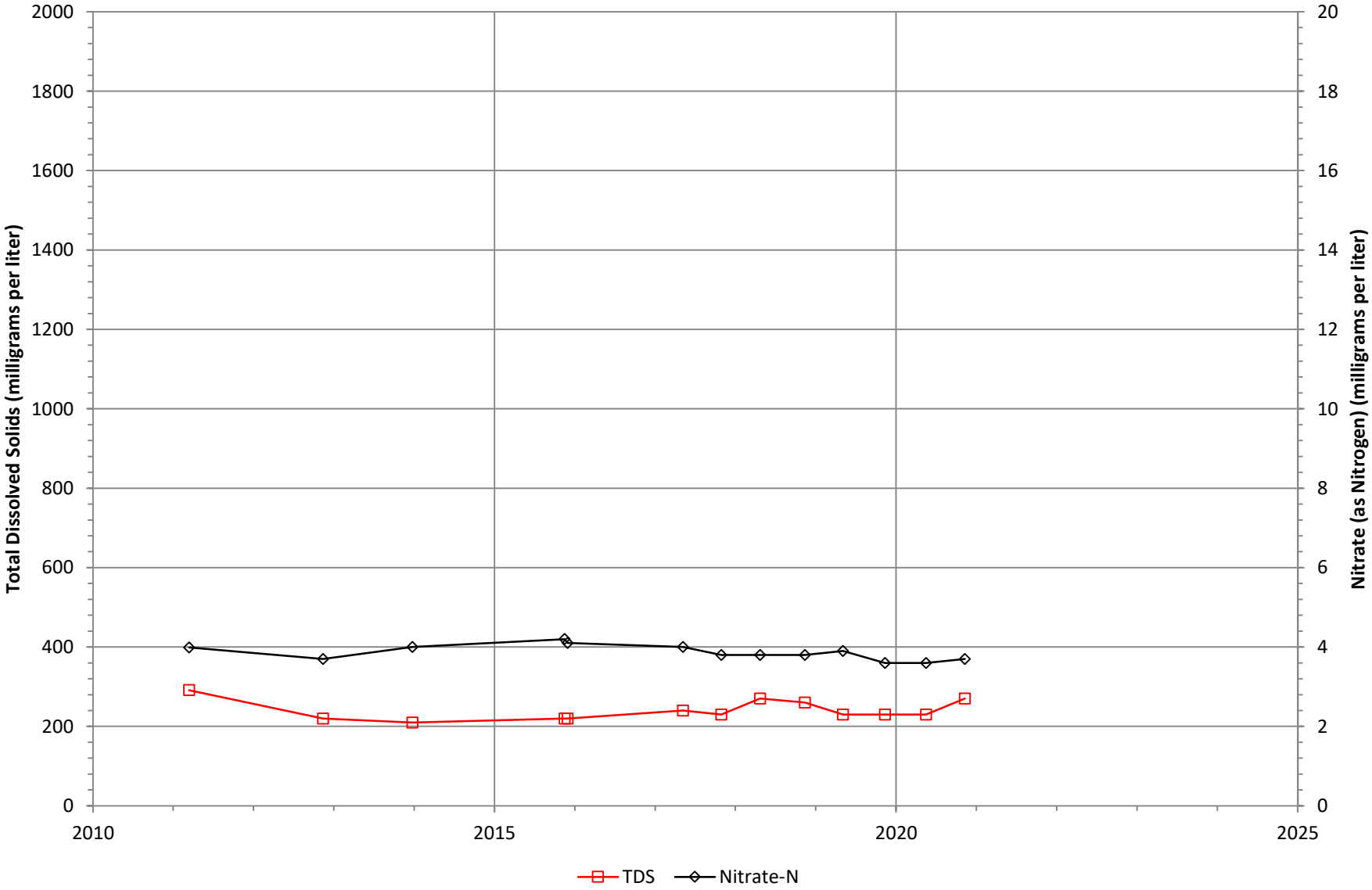

Figure N-55

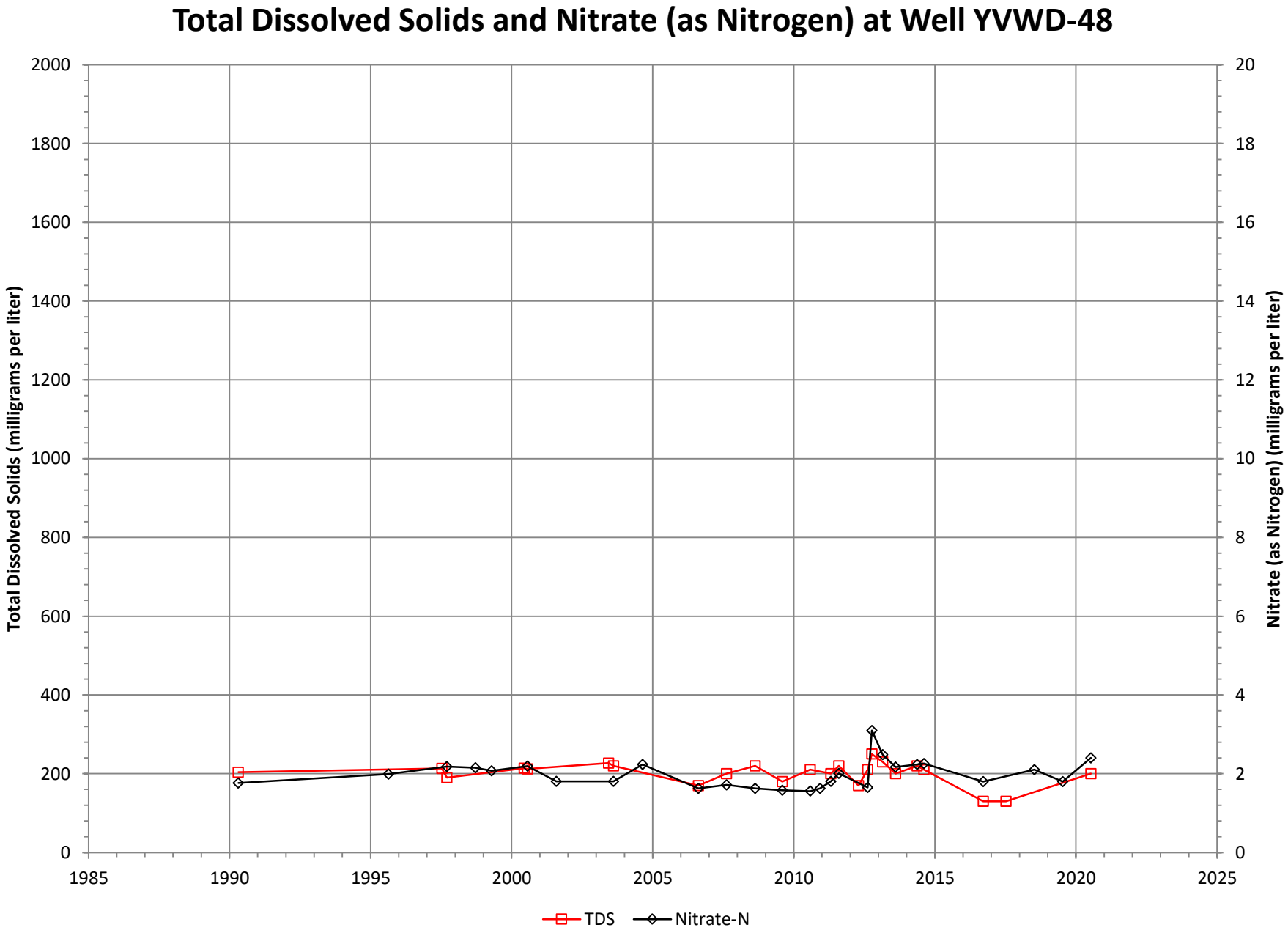
Total Dissolved Solids and Nitrate (as Nitrogen) at Well YVWD-48
Total Dissolved Solids (milligrams per liter)
Nitrate (as Nitrogen) (milligrams per liter)
2000
1800
1600
1400
1200
1000
800
600
400
200
0
20
18
16
14
12
10
8
6
4
2
0
1985
1990
1995
2000
2005
2010
2015
2020
2025
TDS
Nitrate-N

Figure N-56

APPENDIX O

Field Forms and Analytical Laboratory Reports for Groundwater Samples Collected in the Beaumont Groundwater Management Zone in 2020

WATER-QUALITY MEASUREMENT FIELD FORM

Date: 5-18-2020

Monitoring Entity: SANTIM 2B-1 Sampler Name: DO-CH

Well Information

Well Identifier (Well ID or Well Name): SAN TIM 2B-1

WQ Meter (Make/Model): _____ Serial Number (last 3 digits) ____

WL Sounder (Make/Model): _____ Serial Number (last 3 digits) ____

What time did you arrive at the well? _____ Was the well running at arrival? YES NO

Static Depth to Water: Artesian ft brp @ _____ (time)

Total Depth Measured: _____ ft brp Casing Diameter: _____ Casing Volume: _____

Casing Volume Calculation:

Water Quality Field Measurement Details

Were you able to collect a water quality sample? YES NO

Sample Collection Time: 14:00

If no, why? _____

Sample Collection Method: _____

Lab Name: _____ Sample Group: _____

Water Quality Field Parameters (please enter in the units of measurement as they appear on the meter)

Time (24 hour)	Depth to Water (feet)	Gallons Purged	Pumping Rate (GPM)	Temp (C)	Cond (EC) (uS/cm)	pH (pH units)	DO (mg/L)
13:56				19.5	401	8.25	6.40
13:57				20.2	403	8.31	4.52
13:58				20.3	402	8.32	4.16
13:58				20.5	402	8.29	3.56
13:59				20.5	403	8.26	3.62
14:00				20.5	402	8.26	3.54
14:00				20.5	403	8.26	3.68
14:00	SAMPLES TAKEN						

Total Volume Purged: _____

Water Level Measurement Details

Were you able to collect a water level measurement? YES (NO)

Was the well pumping when you measured the water level? YES (NO)

If no, why? Artesian

Pump Depth (ft brp): _____ GS to RP: _____

Comments: _____

WATER-QUALITY MEASUREMENT FIELD FORM

Date: 5-18-2020

Monitoring Entity: 2B-2 Sampler Name: CH - DO

Well Information

Well Identifier (Well ID or Well Name): San Tim 2B-2

WQ Meter (Make/Model): _____ Serial Number (last 3 digits) ____

WL Sounder (Make/Model): _____ Serial Number (last 3 digits) ____

What time did you arrive at the well? _____ Was the well running at arrival? YES NO

Static Depth to Water: Artesian ft brp @ _____ (time)

Total Depth Measured: _____ ft brp Casing Diameter: _____ Casing Volume: _____

Casing Volume Calculation:

Water Quality Field Measurement Details

Were you able to collect a water quality sample? (YES) NO

Sample Collection Time: 14:08

If no, why? _____

Sample Collection Method: _____

Lab Name: _____ Sample Group: _____

Water Quality Field Parameters (please enter in the units of measurement as they appear on the meter)

Time (24 hour)	Depth to Water (feet)	Gallons Purged	Pumping Rate (GPM)	Temp (C)	Cond (EC) (uS/cm)	pH (pH units)	DO (mg/L)
14:03				19.3	369	8.64	3.19
14:04				20.0	369	8.72	2.99
14:04				20.4	367	8.74	2.94
14:05				20.3	369	8.79	2.78
14:05				20.2	369	8.84	2.83
14:06				20.2	369	8.88	2.34
14:06				20.2	368	8.90	2.40
14:08	SAMPLE	TAKEN					

Total Volume Purged: _____

Water Level Measurement Details

Were you able to collect a water level measurement? YES (NO)

Was the well pumping when you measured the water level? YES (NO)

If no, why? Artesian well

Pump Depth (ft brp): _____ GS to RP: _____

Comments: found a frog

WATER-QUALITY MEASUREMENT FIELD FORM

Date: 5-18-2026

Monitoring Entity: _____ Sampler Name: CH + DO

Well Information

Well Identifier (Well ID or Well Name): No SANTIM-1

WQ Meter (Make/Model): _____ Serial Number (last 3 digits) ____

WL Sounder (Make/Model): _____ Serial Number (last 3 digits) ____

What time did you arrive at the well? _____ Was the well running at arrival? YES NO

Static Depth to Water: _____ ft brp @ _____ (time)

Total Depth Measured: _____ ft brp Casing Diameter: _____ Casing Volume: _____

Casing Volume Calculation:

Water Quality Field Measurement Details

Were you able to collect a water quality sample? (YES) NO

Sample Collection Time: 14:39

If no, why? _____

Sample Collection Method: _____

Lab Name: _____ Sample Group: _____

Water Quality Field Parameters (please enter in the units of measurement as they appear on the meter)

Time (24 hour)	Depth to Water (feet)	Gallons Purged	Pumping Rate (GPM)	Temp (C)	Cond (EC) (uS/cm)	pH (pH units)	DO (mg/L)
14:23				19.1	544	8.18	3.15
14:24				19.5	542	7.86	3.78
14:24				20.1	544	7.77	3.92
14:26				20.0	539	7.69	4.30
14:27				19.7	588	7.67	3.68
14:29				19.8	684	7.66	3.47
14:31				19.8	690	7.65	3.94
14:32				19.8	705	7.61	3.74

Total Volume Purged: _____

Water Level Measurement Details

Were you able to collect a water level measurement? YES (NO)

Was the well pumping when you measured the water level? YES (NO)

If no, why? Artesian well

Pump Depth (ft brp): _____ GS to RP: _____

Comments: 14:29 water turned rust yellow/orange

WATER-QUALITY MEASUREMENT FIELD FORM

Date: 5/18/20

Monitoring Entity: _____ Sampler Name: CH + DO

Well Information

Well Identifier (Well ID or Well Name): El Casco Lake Ranch

WQ Meter (Make/Model): _____ Serial Number (last 3 digits) ____

WL Sounder (Make/Model): _____ Serial Number (last 3 digits) ____

What time did you arrive at the well? 12:50 Was the well running at arrival? YES (NO)

Static Depth to Water: 36.26 ft brp @ 13:00 (time)

Total Depth Measured: _____ ft brp Casing Diameter: _____ Casing Volume: _____

Casing Volume Calculation:

Water Quality Field Measurement Details

Were you able to collect a water quality sample? YES NO

Sample Collection Time: _____

If no, why? _____

Sample Collection Method: _____

Lab Name: _____ Sample Group: _____

Water Quality Field Parameters (please enter in the units of measurement as they appear on the meter)

Time (24 hour)	Depth to Water (feet)	Gallons Purged	Pumping Rate (GPM)	Temp (C)	Cond (EC) (uS/cm)	pH (pH units)	DO (mg/L)

Total Volume Purged: _____

Water Level Measurement Details

Were you able to collect a water level measurement? (YES) NO

Was the well pumping when you measured the water level? YES (NO)

If no, why? _____

Pump Depth (ft brp): _____ GS to RP: _____

Comments: _____

WATER-QUALITY MEASUREMENT FIELD FORM

Date: 5/28/20

Monitoring Entity: _____ *Sampler Name:* CH

Well Information

Well Identifier (Well ID or Well Name): Heartland

WQ Meter (Make/Model): _____ *Serial Number (last 3 digits)* ____

WL Sounder (Make/Model): _____ *Serial Number (last 3 digits)* ____

What time did you arrive at the well? 17:30 *Was the well running at arrival?* YES (NO)

Static Depth to Water: 56.78 *ft brp* @ 17:30 *(time)*

Total Depth Measured: _____ *ft brp* *Casing Diameter:* _____ *Casing Volume:* _____

Casing Volume Calculation:

Water Quality Field Measurement Details

Were you able to collect a water quality sample? (YES) NO

Sample Collection Time: 1945

If no, why? _____

Sample Collection Method: _____

Lab Name: CLSB *Sample Group:* _____

Water Quality Field Parameters (please enter in the units of measurement as they appear on the meter)

Time (24 hour)	Depth to Water (feet)	Gallons Purged	Pumping Rate (GPM)	Temp (C)	Cond (EC) (uS/cm)	pH (pH units)	DO (mg/L)
				19.7	636	8.53	7.47

Total Volume Purged: _____

Water Level Measurement Details

Were you able to collect a water level measurement? (YES) NO

Was the well pumping when you measured the water level? YES (NO)

If no, why? _____

Pump Depth (ft brp): _____ *GS to RP:* _____

Comments: _____

WATER-QUALITY MEASUREMENT FIELD FORM

Date: 5/20/20

Monitoring Entity: _____ Sampler Name: CH

Well Information

Well Identifier (Well ID or Well Name): Oak Valley 2

WQ Meter (Make/Model): _____ Serial Number (last 3 digits) ____

WL Sounder (Make/Model): _____ Serial Number (last 3 digits) ____

What time did you arrive at the well? 6:20 Was the well running at arrival? YES (NO)

Static Depth to Water: _____ ft brp @ _____ (time)

Total Depth Measured: _____ ft brp Casing Diameter: _____ Casing Volume: _____

Casing Volume Calculation:

Water Quality Field Measurement Details

Were you able to collect a water quality sample? (YES) NO

Sample Collection Time: 6:40

If no, why? _____

Sample Collection Method: _____

Lab Name: CLSR Sample Group: _____

Water Quality Field Parameters (please enter in the units of measurement as they appear on the meter)

Time (24 hour)	Depth to Water (feet)	Gallons Purged	Pumping Rate (GPM)	Temp (C)	Cond (EC) (uS/cm)	pH (pH units)	DO (mg/L)
6:30			2100	19.0	321	8.50	6.90
6:32			"	19.5	325	8.44	7.08
6:34			"	19.5	328	8.42	7.32
6:36			"	19.6	329	8.38	7.54
6:38			"	19.6	329	8.38	7.58
6:40			"	19.6	329	8.38	7.41

Total Volume Purged: 25,200 gal

Water Level Measurement Details

Were you able to collect a water level measurement? YES NO

Was the well pumping when you measured the water level? YES NO

If no, why? _____

Pump Depth (ft brp): _____ GS to RP: _____

Comments: _____

WATER-QUALITY MEASUREMENT FIELD FORM

Date: 5/20/20

Monitoring Entity: _____ Sampler Name: CH

Well Information

Well Identifier (Well ID or Well Name): Moreno B

WQ Meter (Make/Model): _____ Serial Number (last 3 digits) ____

WL Sounder (Make/Model): _____ Serial Number (last 3 digits) ____

What time did you arrive at the well? 7:40 Was the well running at arrival? YES (NO)

Static Depth to Water: _____ ft brp @ _____ (time)

Total Depth Measured: _____ ft brp Casing Diameter: _____ Casing Volume: _____

Casing Volume Calculation:

Water Quality Field Measurement Details

Were you able to collect a water quality sample? (YES) NO

Sample Collection Time: 8:00

If no, why? _____

Sample Collection Method: _____

Lab Name: CLSB Sample Group: _____

Water Quality Field Parameters (please enter in the units of measurement as they appear on the meter)

Time (24 hour)	Depth to Water (feet)	Gallons Purged	Pumping Rate (GPM)	Temp (C)	Cond (EC) (uS/cm)	pH (pH units)	DO (mg/L)
7:48			2400	19.1	332	8.66	7.08
7:50			〃	19.0	331	8.28	6.97
7:52			〃	19.0	331	8.09	7.33
7:54			〃	19.0	332	8.02	7.54
7:56			〃	18.9	333	8.10	7.50
7:58			〃	18.8	333	8.04	7.62
8:00			〃	18.8	333	8.04	6.68

Total Volume Purged: 33,600 gal

Water Level Measurement Details

Were you able to collect a water level measurement? YES NO

Was the well pumping when you measured the water level? YES NO

If no, why? _____

Pump Depth (ft brp): _____ GS to RP: _____

Comments: _____

WATER-QUALITY MEASUREMENT FIELD FORM

Date: 5/20/20

Monitoring Entity: _____ Sampler Name: CH

Well Information

Well Identifier (Well ID or Well Name): MCM Poultry Ranch

WQ Meter (Make/Model): _____ Serial Number (last 3 digits) ____

WL Sounder (Make/Model): _____ Serial Number (last 3 digits) ____

What time did you arrive at the well? 9:10 Was the well running at arrival? YES (NO)

Static Depth to Water: 9:12 ft brp @ 26.72 (time)

Total Depth Measured: _____ ft brp Casing Diameter: _____ Casing Volume: _____

Casing Volume Calculation:

Water Quality Field Measurement Details

Were you able to collect a water quality sample? (YES) NO

Sample Collection Time: 9:30

If no, why? _____

Sample Collection Method: _____

Lab Name: _____ Sample Group: _____

Water Quality Field Parameters (please enter in the units of measurement as they appear on the meter)

Time (24 hour)	Depth to Water (feet)	Gallons Purged	Pumping Rate (GPM)	Temp (C)	Cond (EC) (uS/cm)	pH (pH units)	DO (mg/L)
				20.7	1209	7.97	3.33
				20.7	1216	7.87	3.09
				20.7	1215	7.83	3.94
				20.7	1215	7.78	3.49
				20.7	1214	7.76	3.57

Total Volume Purged: _____

Water Level Measurement Details

Were you able to collect a water level measurement? (YES) NO

Was the well pumping when you measured the water level? YES (NO)

If no, why? _____

Pump Depth (ft brp): _____ GS to RP: _____

Comments: _____

WATER-QUALITY MEASUREMENT FIELD FORM

Date: 5/20/20

Monitoring Entity: _____ Sampler Name: CH

Well Information

Well Identifier (Well ID or Well Name): Desert Lawn Funeral Home

WQ Meter (Make/Model): _____ Serial Number (last 3 digits) _____

WL Sounder (Make/Model): _____ Serial Number (last 3 digits) _____

What time did you arrive at the well? 10:10 Was the well running at arrival? YES (NO)

Static Depth to Water: _____ ft brp @ _____ (time)

Total Depth Measured: _____ ft brp Casing Diameter: _____ Casing Volume: _____

Casing Volume Calculation:

Water Quality Field Measurement Details

Were you able to collect a water quality sample? (YES) NO

Sample Collection Time: 10:30

If no, why? _____

Sample Collection Method: _____

Lab Name: CLSB Sample Group: _____

Water Quality Field Parameters (please enter in the units of measurement as they appear on the meter)

Time (24 hour)	Depth to Water (feet)	Gallons Purged	Pumping Rate (GPM)	Temp (C)	Cond (EC) (uS/cm)	pH (pH units)	DO (mg/L)
				19.0	407	8.45	6.75
				17.7	394	8.35	6.96
				18.1	373	8.30	7.02
				18.3	367	8.24	7.34
				18.4	367	8.19	7.61
				18.4	367	8.15	7.39
				18.4	367	8.17	7.23

Total Volume Purged: _____

Water Level Measurement Details

Were you able to collect a water level measurement? YES NO

Was the well pumping when you measured the water level? YES NO

If no, why? _____

Pump Depth (ft brp): _____ GS to RP: _____

Comments: _____

WATER-QUALITY MEASUREMENT FIELD FORM

Date: 5/20/20

Monitoring Entity: _____ Sampler Name: CH

Well Information

Well Identifier (Well ID or Well Name): Larry Britton

WQ Meter (Make/Model): _____ Serial Number (last 3 digits) ____

WL Sounder (Make/Model): _____ Serial Number (last 3 digits) ____

What time did you arrive at the well? 10:40 Was the well running at arrival? (YES) NO

Static Depth to Water: _____ ft brp @ _____ (time)

Total Depth Measured: _____ ft brp Casing Diameter: _____ Casing Volume: _____

Casing Volume Calculation:

Water Quality Field Measurement Details

Were you able to collect a water quality sample? (YES) NO

Sample Collection Time: 11:00

If no, why? _____

Sample Collection Method: _____

Lab Name: CLSB Sample Group: _____

Water Quality Field Parameters (please enter in the units of measurement as they appear on the meter)

Time (24 hour)	Depth to Water (feet)	Gallons Purged	Pumping Rate (GPM)	Temp (C)	Cond (EC) (uS/cm)	pH (pH units)	DO (mg/L)
10:48				18.9	374	8.20	7.34
10:51				18.8	360	8.19	7.77
10:54				18.9	362	8.17	7.89
10:57				18.9	362	8.16	7.87
11:00				18.9	362	8.17	8.05

Total Volume Purged: _____

Water Level Measurement Details

Were you able to collect a water level measurement? YES NO

Was the well pumping when you measured the water level? YES NO

If no, why? _____

Pump Depth (ft brp): _____ GS to RP: _____

Comments: _____

WATER-QUALITY MEASUREMENT FIELD FORM

Date: 5/20/20

Monitoring Entity: _____ Sampler Name: C.H.

Well Information

Well Identifier (Well ID or Well Name): Moraga A

WQ Meter (Make/Model): _____ Serial Number (last 3 digits) ____

WL Sounder (Make/Model): _____ Serial Number (last 3 digits) ____

What time did you arrive at the well? 7:30 Was the well running at arrival? YES (NO)

Static Depth to Water: _____ ft brp @ _____ (time)

Total Depth Measured: _____ ft brp Casing Diameter: _____ Casing Volume: _____

Casing Volume Calculation:

Water Quality Field Measurement Details

Were you able to collect a water quality sample? (YES) NO

Sample Collection Time: 7:45

If no, why? _____

Sample Collection Method: _____

Lab Name: CLSB Sample Group: _____

Water Quality Field Parameters (please enter in the units of measurement as they appear on the meter)

Time (24 hour)	Depth to Water (feet)	Gallons Purged	Pumping Rate (GPM)	Temp (C)	Cond (EC) (uS/cm)	pH (pH units)	DO (mg/L)
7:37			1600	25.8	298	9.12	3.56
7:39			"	26.2	297	9.17	5.76
7:41			"	26.1	294	9.21	6.35
7:43			"	26.1	294	9.21	6.71
7:45			"	26.0	293	9.24	8.62

Total Volume Purged: 16,000 gal

Water Level Measurement Details

Were you able to collect a water level measurement? YES NO

Was the well pumping when you measured the water level? YES NO

If no, why? _____

Pump Depth (ft brp): _____ GS to RP: _____

Comments: _____

WATER-QUALITY MEASUREMENT FIELD FORM

Date: 5/19/20

Monitoring Entity: _____ Sampler Name: CH

Well Information

Well Identifier (Well ID or Well Name): George Witter

WQ Meter (Make/Model): _____ Serial Number (last 3 digits) _____

WL Sounder (Make/Model): _____ Serial Number (last 3 digits) _____

What time did you arrive at the well? 3:15 pm Was the well running at arrival? YES (NO)

Static Depth to Water: _____ ft brp @ _____ (time)

Total Depth Measured: _____ ft brp Casing Diameter: _____ Casing Volume: _____

Casing Volume Calculation:

Water Quality Field Measurement Details

Were you able to collect a water quality sample? (YES) NO

Sample Collection Time: 15:30

If no, why? _____

Sample Collection Method: _____

Lab Name: _____ Sample Group: _____

Water Quality Field Parameters (please enter in the units of measurement as they appear on the meter)

Time (24 hour)	Depth to Water (feet)	Gallons Purged	Pumping Rate (GPM)	Temp (C)	Cond (EC) (uS/cm)	pH (pH units)	DO (mg/L)
				20.9	389	8.36	6.49
				20.3	389	8.35	7.64
				20.2	393	8.34	7.43
				20.3	386	8.32	7.58
				20.4	389	8.30	7.43

Total Volume Purged: _____

Water Level Measurement Details

Were you able to collect a water level measurement? YES (NO)

Was the well pumping when you measured the water level? YES (NO)

If no, why? _____

Pump Depth (ft brp): _____ GS to RP: _____

Comments: _____

WATER-QUALITY MEASUREMENT FIELD FORM

Date: 5/18/2020

Monitoring Entity: _____ Sampler Name: DO + CH

Well Information

Well Identifier (Well ID or Well Name): Henry Schwankart

WQ Meter (Make/Model): _____ Serial Number (last 3 digits) _____

WL Sounder (Make/Model): _____ Serial Number (last 3 digits) _____

What time did you arrive at the well? 15:04 Was the well running at arrival? YES NO

Static Depth to Water: 129.76 ft brp @ 15:06 (time)

Total Depth Measured: _____ ft brp Casing Diameter: _____ Casing Volume: _____

Casing Volume Calculation:

Water Quality Field Measurement Details

Were you able to collect a water quality sample? (YES) NO

Sample Collection Time: 15:13

If no, why? _____

Sample Collection Method: _____

Lab Name: _____ Sample Group: _____

Water Quality Field Parameters (please enter in the units of measurement as they appear on the meter)

Time (24 hour)	Depth to Water (feet)	Gallons Purged	Pumping Rate (GPM)	Temp (C)	Cond (EC) (uS/cm)	pH (pH units)	DO (mg/L)
15:07				22.7	1288	7.83	8.41
15:08				22.4	1298	7.85	6.60
15:09				21.7	1241	7.82	6.58
15:10				22.2	1321	7.81	6.22
15:11				22.1	1320	7.80	6.5.51
15:12				22.0	1319	7.77	5.40
15:13	SAMPLE	TAKEN					

Total Volume Purged: _____

Water Level Measurement Details

Were you able to collect a water level measurement? YES NO

Was the well pumping when you measured the water level? YES NO

If no, why? _____

Pump Depth (ft brp): _____ GS to RP: _____

Comments: _____

WATER-QUALITY MEASUREMENT FIELD FORM

Date: 5/19/20

Monitoring Entity: _____ Sampler Name: CH

Well Information

Well Identifier (Well ID or Well Name): Joe Pistilli

WQ Meter (Make/Model): _____ Serial Number (last 3 digits) ____

WL Sounder (Make/Model): _____ Serial Number (last 3 digits) ____

What time did you arrive at the well? 4:30pm Was the well running at arrival? YES NO

Static Depth to Water: 94.90 ft brp @ 4:30 pm (time)

Total Depth Measured: _____ ft brp Casing Diameter: _____ Casing Volume: _____

Casing Volume Calculation:

Water Quality Field Measurement Details

Were you able to collect a water quality sample? (YES) NO

Sample Collection Time: 17:00

If no, why? _____

Sample Collection Method: _____

Lab Name: _____ Sample Group: _____

Water Quality Field Parameters (please enter in the units of measurement as they appear on the meter)

Time (24 hour)	Depth to Water (feet)	Gallons Purged	Pumping Rate (GPM)	Temp (C)	Cond (EC) (uS/cm)	pH (pH units)	DO (mg/L)
				19.3	401	8.22	6.64
				19.4	403	8.22	6.10
				19.8	400	8.15	5.95

Total Volume Purged: _____

Water Level Measurement Details

Were you able to collect a water level measurement? (YES) NO

Was the well pumping when you measured the water level? YES (NO)

If no, why? _____

Pump Depth (ft brp): _____ GS to RP: _____

Comments: _____

WATER-QUALITY MEASUREMENT FIELD FORM

Date: 5/19/20

Monitoring Entity: _____ Sampler Name: CH

Well Information

Well Identifier (Well ID or Well Name): Singleton Ranch 7 (SR7)

WQ Meter (Make/Model): _____ Serial Number (last 3 digits) ____

WL Sounder (Make/Model): _____ Serial Number (last 3 digits) ____

What time did you arrive at the well? 1pm Was the well running at arrival? YES (NO)

Static Depth to Water: 141.55 ft brp @ _____ (time)

Total Depth Measured: _____ ft brp Casing Diameter: _____ Casing Volume: _____

Casing Volume Calculation:

Water Quality Field Measurement Details

Were you able to collect a water quality sample? (YES) NO

Sample Collection Time: 13:15

If no, why? _____

Sample Collection Method: _____

Lab Name: _____ Sample Group: _____

Water Quality Field Parameters (please enter in the units of measurement as they appear on the meter)

Time (24 hour)	Depth to Water (feet)	Gallons Purged	Pumping Rate (GPM)	Temp (C)	Cond (EC) (uS/cm)	pH (pH units)	DO (mg/L)
				19.4	380	8.25	5.98
				19.3	380	8.19	6.10
				19.2	379	8.12	6.10
				19.2	379	8.09	6.08
				19.2	380	8.10	6.24

Total Volume Purged: _____

Water Level Measurement Details

Were you able to collect a water level measurement? (YES) NO

Was the well pumping when you measured the water level? YES (NO)

If no, why? _____

Pump Depth (ft brp): _____ GS to RP: _____

Comments: _____

WATER-QUALITY MEASUREMENT FIELD FORM

Date: 5/19/20

Monitoring Entity: _____ Sampler Name: CH

Well Information

Well Identifier (Well ID or Well Name): Oak Valley Office (OVO)

WQ Meter (Make/Model): _____ Serial Number (last 3 digits) ____

WL Sounder (Make/Model): _____ Serial Number (last 3 digits) ____

What time did you arrive at the well? 12:30 pm Was the well running at arrival? YES (NO)

Static Depth to Water: 168.72 ft brp @ 12:30 pm (time)

Total Depth Measured: _____ ft brp Casing Diameter: _____ Casing Volume: _____

Casing Volume Calculation:

Water Quality Field Measurement Details

Were you able to collect a water quality sample? (YES) NO

Sample Collection Time: 12:50 pm

If no, why? _____

Sample Collection Method: _____

Lab Name: _____ Sample Group: _____

Water Quality Field Parameters (please enter in the units of measurement as they appear on the meter)

Time (24 hour)	Depth to Water (feet)	Gallons Purged	Pumping Rate (GPM)	Temp (C)	Cond (EC) (uS/cm)	pH (pH units)	DO (mg/L)
	168.72			19.7	311	8.38	6.87
				19.7	309	8.33	6.54
				19.9	309	8.28	7.31
				19.8	311	8.29	7.50

Total Volume Purged: _____

Water Level Measurement Details

Were you able to collect a water level measurement? (YES) NO

Was the well pumping when you measured the water level? YES (NO)

If no, why? _____

Pump Depth (ft brp): _____ GS to RP: _____

Comments: _____

WATER-QUALITY MEASUREMENT FIELD FORM

Date: 5/19/20

Monitoring Entity: _____ Sampler Name: CH

Well Information

Well Identifier (Well ID or Well Name): Dowling Orchard

WQ Meter (Make/Model): _____ Serial Number (last 3 digits) ____

WL Sounder (Make/Model): _____ Serial Number (last 3 digits) ____

What time did you arrive at the well? 4pm Was the well running at arrival? YES (NO)

Static Depth to Water: 145.4 ft brp @ _____ (time)

Total Depth Measured: _____ ft brp Casing Diameter: _____ Casing Volume: _____

Casing Volume Calculation:

Water Quality Field Measurement Details

Were you able to collect a water quality sample? (YES) NO

Sample Collection Time: 4.08pm

If no, why? _____

Sample Collection Method: _____

Lab Name: _____ Sample Group: _____

Water Quality Field Parameters (please enter in the units of measurement as they appear on the meter)

Time (24 hour)	Depth to Water (feet)	Gallons Purged	Pumping Rate (GPM)	Temp (C)	Cond (EC) (uS/cm)	pH (pH units)	DO (mg/L)
			60	20.9	571	8.17	3.09
				20.9	639	8.11	4.35
				20.8	544	8.15	4.03
				20.7	542	8.16	4.34
				20.8	541	8.15	3.31

Total Volume Purged: _____

Water Level Measurement Details

Were you able to collect a water level measurement? (YES) NO

Was the well pumping when you measured the water level? (YES) NO

If no, why? _____

Pump Depth (ft brp): _____ GS to RP: _____

Comments: _____

WATER-QUALITY MEASUREMENT FIELD FORM

Date: 5/19/20

Monitoring Entity: _____ Sampler Name: CH

Well Information

Well Identifier (Well ID or Well Name): FRANCIS DOWLING

WQ Meter (Make/Model): _____ Serial Number (last 3 digits) ____

WL Sounder (Make/Model): _____ Serial Number (last 3 digits) ____

What time did you arrive at the well? 3:37pm Was the well running at arrival? YES (NO)

Static Depth to Water: 120.68 ft brp @ 3:37pm (time)

Total Depth Measured: _____ ft brp Casing Diameter: _____ Casing Volume: _____

Casing Volume Calculation:

Water Quality Field Measurement Details

Were you able to collect a water quality sample? YES (NO)

Sample Collection Time: _____

If no, why? _____

Sample Collection Method: _____

Lab Name: _____ Sample Group: _____

Water Quality Field Parameters (please enter in the units of measurement as they appear on the meter)

Time (24 hour)	Depth to Water (feet)	Gallons Purged	Pumping Rate (GPM)	Temp (C)	Cond (EC) (uS/cm)	pH (pH units)	DO (mg/L)

Total Volume Purged: _____

Water Level Measurement Details

Were you able to collect a water level measurement? YES NO

Was the well pumping when you measured the water level? YES NO

If no, why? _____

Pump Depth (ft brp): _____ GS to RP: _____

Comments: _____

WATER-QUALITY MEASUREMENT FIELD FORM

Date: 5/19/20

Monitoring Entity: _____ Sampler Name: CH

Well Information

Well Identifier (Well ID or Well Name): Ruth Cunningham

WQ Meter (Make/Model): _____ Serial Number (last 3 digits) ____

WL Sounder (Make/Model): _____ Serial Number (last 3 digits) ____

What time did you arrive at the well? 2:20pm Was the well running at arrival? YES (NO)

Static Depth to Water: 37.67 ft brp @ _____ (time)

Total Depth Measured: _____ ft brp Casing Diameter: _____ Casing Volume: _____

Casing Volume Calculation:

Water Quality Field Measurement Details

Were you able to collect a water quality sample? YES NO

Sample Collection Time: _____

If no, why? _____

Sample Collection Method: _____

Lab Name: _____ Sample Group: _____

Water Quality Field Parameters (please enter in the units of measurement as they appear on the meter)

Time (24 hour)	Depth to Water (feet)	Gallons Purged	Pumping Rate (GPM)	Temp (C)	Cond (EC) (uS/cm)	pH (pH units)	DO (mg/L)

Total Volume Purged: _____

Water Level Measurement Details

Were you able to collect a water level measurement? YES NO

Was the well pumping when you measured the water level? YES NO

If no, why? _____

Pump Depth (ft brp): _____ GS to RP: _____

Comments: _____

WATER-QUALITY MEASUREMENT FIELD FORM

Date: 5/19/20

Monitoring Entity: _____ Sampler Name: CH

Well Information

Well Identifier (Well ID or Well Name): Wilman Garnar

WQ Meter (Make/Model): _____ Serial Number (last 3 digits) ____

WL Sounder (Make/Model): _____ Serial Number (last 3 digits) ____

What time did you arrive at the well? 1:46 pm Was the well running at arrival? YES (NO)

Static Depth to Water: 127.45 ft brp @ _____ (time)

Total Depth Measured: _____ ft brp Casing Diameter: _____ Casing Volume: _____

Casing Volume Calculation:

Water Quality Field Measurement Details

Were you able to collect a water quality sample? YES NO

Sample Collection Time: _____

If no, why? _____

Sample Collection Method: _____

Lab Name: _____ Sample Group: _____

Water Quality Field Parameters (please enter in the units of measurement as they appear on the meter)

Time (24 hour)	Depth to Water (feet)	Gallons Purged	Pumping Rate (GPM)	Temp (C)	Cond (EC) (uS/cm)	pH (pH units)	DO (mg/L)

Total Volume Purged: _____

Water Level Measurement Details

Were you able to collect a water level measurement? YES NO

Was the well pumping when you measured the water level? YES NO

If no, why? _____

Pump Depth (ft brp): _____ GS to RP: _____

Comments: _____

WATER-QUALITY MEASUREMENT FIELD FORM

Date: 5/19/20

Monitoring Entity: _____ Sampler Name: C H

Well Information

Well Identifier (Well ID or Well Name): Cherry Valley Nursery (CVN)

WQ Meter (Make/Model): _____ Serial Number (last 3 digits) _____

WL Sounder (Make/Model): _____ Serial Number (last 3 digits) _____

What time did you arrive at the well? 11:30 Was the well running at arrival? (YES) NO

Static Depth to Water: _____ ft brp @ _____ (time)

Total Depth Measured: _____ ft brp Casing Diameter: _____ Casing Volume: _____

Casing Volume Calculation:

Water Quality Field Measurement Details

Were you able to collect a water quality sample? (YES) NO

Sample Collection Time: 11:50

If no, why? _____

Sample Collection Method: grab

Lab Name: CLSB Sample Group: _____

Water Quality Field Parameters (please enter in the units of measurement as they appear on the meter)

Time (24 hour)	Depth to Water (feet)	Gallons Purged	Pumping Rate (GPM)	Temp (C)	Cond (EC) (uS/cm)	pH (pH units)	DO (mg/L)
11:45				18.3	416	8.00	5.73
11:45				18.4	413	7.98	6.81
11:50				18.5	414	7.95	7.15

Total Volume Purged: _____

Water Level Measurement Details

Were you able to collect a water level measurement? YES (NO)

Was the well pumping when you measured the water level? (YES) NO

If no, why? water depth > 300 ft sounder max

Pump Depth (ft brp): _____ GS to RP: _____

Comments: _____

WATER-QUALITY MEASUREMENT FIELD FORM

Date: 5/19/20

Monitoring Entity: _____ Sampler Name: CH

Well Information

Well Identifier (Well ID or Well Name): Singleton Ranch 5

WQ Meter (Make/Model): _____ Serial Number (last 3 digits) ____

WL Sounder (Make/Model): _____ Serial Number (last 3 digits) ____

What time did you arrive at the well? 13:20 Was the well running at arrival? YES (NO)

Static Depth to Water: 98.78 ft brp @ _____ (time)

Total Depth Measured: _____ ft brp Casing Diameter: _____ Casing Volume: _____

Casing Volume Calculation:

Water Quality Field Measurement Details

Were you able to collect a water quality sample? YES NO

Sample Collection Time: _____

If no, why? _____

Sample Collection Method: _____

Lab Name: _____ Sample Group: _____

Water Quality Field Parameters (please enter in the units of measurement as they appear on the meter)

Time (24 hour)	Depth to Water (feet)	Gallons Purged	Pumping Rate (GPM)	Temp (C)	Cond (EC) (uS/cm)	pH (pH units)	DO (mg/L)

Total Volume Purged: _____

Water Level Measurement Details

Were you able to collect a water level measurement? (YES) NO

Was the well pumping when you measured the water level? YES (NO)

If no, why? _____

Pump Depth (ft brp): _____ GS to RP: _____

Comments: _____

WATER-QUALITY MEASUREMENT FIELD FORM

Date: 5/19/20

Monitoring Entity: _____ Sampler Name: CH

Well Information

Well Identifier (Well ID or Well Name): Maureen Pollock

WQ Meter (Make/Model): _____ Serial Number (last 3 digits) _____

WL Sounder (Make/Model): _____ Serial Number (last 3 digits) _____

What time did you arrive at the well? 3 pm Was the well running at arrival? YES (NO)

Static Depth to Water: _____ ft brp @ _____ (time)

Total Depth Measured: dry ft brp Casing Diameter: _____ Casing Volume: _____

Casing Volume Calculation:

Water Quality Field Measurement Details

Were you able to collect a water quality sample? YES NO

Sample Collection Time: _____

If no, why? _____

Sample Collection Method: _____

Lab Name: _____ Sample Group: _____

Water Quality Field Parameters (please enter in the units of measurement as they appear on the meter)

Time (24 hour)	Depth to Water (feet)	Gallons Purged	Pumping Rate (GPM)	Temp (C)	Cond (EC) (uS/cm)	pH (pH units)	DO (mg/L)

Total Volume Purged: _____

Water Level Measurement Details

Were you able to collect a water level measurement? YES (NO)

Was the well pumping when you measured the water level? YES (NO)

If no, why? _____

Pump Depth (ft brp): _____ GS to RP: _____

Comments: total depth 190.5, well dry!

WATER-QUALITY MEASUREMENT FIELD FORM

Date: 5/19/20

Monitoring Entity: _____ Sampler Name: CH

Well Information

Well Identifier (Well ID or Well Name): CVMWC-1

WQ Meter (Make/Model): _____ Serial Number (last 3 digits) ____

WL Sounder (Make/Model): _____ Serial Number (last 3 digits) ____

What time did you arrive at the well? 11:00 Was the well running at arrival? (YES) NO

Static Depth to Water: 70.61 ft brp @ 11:10 AM (time)

Total Depth Measured: _____ ft brp Casing Diameter: _____ Casing Volume: _____

Casing Volume Calculation:

Water Quality Field Measurement Details

Were you able to collect a water quality sample? (YES) NO

Sample Collection Time: 11:25

If no, why? _____

Sample Collection Method: grab

Lab Name: CLSB Sample Group: _____

Water Quality Field Parameters (please enter in the units of measurement as they appear on the meter)

Time (24 hour)	Depth to Water (feet)	Gallons Purged	Pumping Rate (GPM)	Temp (C)	Cond (EC) (uS/cm)	pH (pH units)	DO (mg/L)
11:10				19.4	7.95 ↔	574	6.95
				18.9	563	8.00	9.03
				19.5	560	7.87	7.59
				19.5	570	7.85	7.65

Total Volume Purged: _____

Water Level Measurement Details

Were you able to collect a water level measurement? (YES) NO

Was the well pumping when you measured the water level? YES (NO)

If no, why? _____

Pump Depth (ft brp): _____ GS to RP: _____

Comments: Pumping when arrived. Waited 25 min for recovery

WATER-QUALITY MEASUREMENT FIELD FORM

Date: 5/19/20

Monitoring Entity: _____ Sampler Name: CH

Well Information

Well Identifier (Well ID or Well Name): Beaumont Cemetery (2)

WQ Meter (Make/Model): _____ Serial Number (last 3 digits) ____

WL Sounder (Make/Model): _____ Serial Number (last 3 digits) ____

What time did you arrive at the well? 2:40 pm Was the well running at arrival? YES (NO)

Static Depth to Water (no) ft brp @ _____ (time)

Total Depth Measured: _____ ft brp Casing Diameter: _____ Casing Volume: _____

Casing Volume Calculation:

Water Quality Field Measurement Details

Were you able to collect a water quality sample? (YES) NO

Sample Collection Time: 15:00

If no, why? _____

Sample Collection Method: _____

Lab Name: _____ Sample Group: _____

Water Quality Field Parameters (please enter in the units of measurement as they appear on the meter)

Time (24 hour)	Depth to Water (feet)	Gallons Purged	Pumping Rate (GPM)	Temp (C)	Cond (EC) (uS/cm)	pH (pH units)	DO (mg/L)
				22.3	557	8.14	5.92
				22.9	556	8.19	5.75
				22.7	557	8.04	5.64

Total Volume Purged: _____

Water Level Measurement Details

Were you able to collect a water level measurement? YES (NO)

Was the well pumping when you measured the water level? YES (NO)

If no, why? Sounding part to approx. 50 ft.

Pump Depth (ft brp): _____ GS to RP: _____

Comments: _____

WATER-QUALITY MEASUREMENT FIELD FORM

Date: 5/19/20

Monitoring Entity: _____ Sampler Name: CH

Well Information

Well Identifier (Well ID or Well Name): UNKNOWN 1208640 (1208640)

WQ Meter (Make/Model): _____ Serial Number (last 3 digits) ____

WL Sounder (Make/Model): _____ Serial Number (last 3 digits) ____

What time did you arrive at the well? 2:00 pm Was the well running at arrival? YES (NO)

Static Depth to Water: 76.38 ft brp @ _____ (time)

Total Depth Measured: _____ ft brp Casing Diameter: _____ Casing Volume: _____

Casing Volume Calculation:

Water Quality Field Measurement Details

Were you able to collect a water quality sample? YES NO

Sample Collection Time: _____

If no, why? _____

Sample Collection Method: _____

Lab Name: _____ Sample Group: _____

Water Quality Field Parameters (please enter in the units of measurement as they appear on the meter)

Time (24 hour)	Depth to Water (feet)	Gallons Purged	Pumping Rate (GPM)	Temp (C)	Cond (EC) (uS/cm)	pH (pH units)	DO (mg/L)

Total Volume Purged: _____

Water Level Measurement Details

Were you able to collect a water level measurement? (YES) NO

Was the well pumping when you measured the water level? YES (NO)

If no, why? _____

Pump Depth (ft brp): _____ GS to RP: _____

Comments: _____

WATER-QUALITY MEASUREMENT FIELD FORM

Date: 5/18/20

Monitoring Entity: _____ Sampler Name: CH

Well Information

Well Identifier (Well ID or Well Name): East Valley G.C.

WQ Meter (Make/Model): _____ Serial Number (last 3 digits) ____

WL Sounder (Make/Model): _____ Serial Number (last 3 digits) ____

What time did you arrive at the well? 16:55 Was the well running at arrival? YES (NO)

Static Depth to Water: 27.38 ft brp @ 17:00 (time)

Total Depth Measured: _____ ft brp Casing Diameter: _____ Casing Volume: _____

Casing Volume Calculation:

Water Quality Field Measurement Details

Were you able to collect a water quality sample? YES NO

Sample Collection Time: _____

If no, why? _____

Sample Collection Method: _____

Lab Name: _____ Sample Group: _____

Water Quality Field Parameters (please enter in the units of measurement as they appear on the meter)

Time (24 hour)	Depth to Water (feet)	Gallons Purged	Pumping Rate (GPM)	Temp (C)	Cond (EC) (uS/cm)	pH (pH units)	DO (mg/L)

Total Volume Purged: _____

Water Level Measurement Details

Were you able to collect a water level measurement? (YES) NO

Was the well pumping when you measured the water level? YES (NO)

If no, why? _____

Pump Depth (ft brp): _____ GS to RP: _____

Comments: _____

Maximum Benefits Well Sampling
Water Quality Survey

Date: 11/12/20 *Sampler Initials:* CH

Well Information
WE ID: Beaumont Century 2 *Well Address:* _____

Were well photos collected? YES NO *Was a well sketch drawn?* YES NO

WQ Meter _____ *Serial #* _____ (last 3 digits) *Sample Group:* _____

What time did you arrive at the well? 10:30 *Was the well running at arrival?* YES (NO)

Water Quality Field Measurement Details
Were you able to collect a water quality sample? (YES) NO

Sample Collection Time: 10:50

If no, why? _____

_____

Water Quality Field Parameters (please enter in the units of measurement as they appear on the meter)

Time (24 hour)	Depth to Water (feet)	Activity	Temp ( )	Cond (EC) ( )	pH (pH units)	DO ( )	TDS ( )
10:35	61.73						
10:38		100 gpm	18.9	487	7.69	6.10	
10:41			19.1	485	7.68	5.54	
10:44			19.1	488	7.66	5.73	
10:47			19.1	485	7.68	6.19	
10:50			19.1	487	7.68	6.29	

Did you install a spigot? _____

Water Level Measurement Details
Were you able to collect a water level measurement? (YES) NO

If no, why? _____

_____

Reference Point Name: _____ *GS to RP:* _____

Comments: _____

_____

_____

Maximum Benefits Well Sampling
Water Quality Survey

Date: 11/12/20 *Sampler Initials:* CH

Well Information
WE ID: Larry Britton *Well Address:* _____

Were well photos collected? YES NO *Was a well sketch drawn?* YES NO

WQ Meter _____ *Serial #* _____ (last 3 digits) *Sample Group:* _____

What time did you arrive at the well? 9:40 *Was the well running at arrival?* YES (NO)

Water Quality Field Measurement Details
Were you able to collect a water quality sample? (YES) NO

Sample Collection Time: 10:00

If no, why? _____

Water Quality Field Parameters (please enter in the units of measurement as they appear on the meter)

Time (24 hour)	Depth to Water (feet)	Activity	Temp ( )	Cond (EC) ( )	pH (pH units)	DO ( )	TDS ( )
9:45			18.3	430	7.95	7.02	
9:48			18.5	431	7.87	7.10	
9:51			18.5	431	7.93	7.54	
9:54			18.5	430	7.87	6.27	
9:57			18.5	431	7.88	6.14	

Did you install a spigot? _____

Water Level Measurement Details
Were you able to collect a water level measurement? YES NO

If no, why? _____

Reference Point Name: _____ *GS to RP:* _____

Comments: _____

Maximum Benefits Well Sampling
Water Quality Survey

Date: 11/11/20 Sampler Initials: CH

Well Information
WE ID: Chevy Valley Mutual Well Address: _____

Were well photos collected? YES NO Was a well sketch drawn? YES NO

WQ Meter _____ Serial # _____ (last 3 digits) Sample Group: _____

What time did you arrive at the well? 16:10 Was the well running at arrival? YES (NO)

Water Quality Field Measurement Details
Were you able to collect a water quality sample? (YES) NO

Sample Collection Time: 16:30

If no, why? _____

Water Quality Field Parameters (please enter in the units of measurement as they appear on the meter)

Time (24 hour)	Depth to Water (feet)	Activity	Temp ( )	Cond (EC) ( )	pH (pH units)	DO ( )	TDS ( )
16:15	70.04		19.2	445	7.48	12.55	
16:18			19.2	415	7.42	8.93	
16:21			19.2	496	7.47	8.61	
16:24			19.2	494	7.46	8.78	
16:27			19.2	493	7.46	8.38	

Did you install a spigot? _____

Water Level Measurement Details
Were you able to collect a water level measurement? (YES) NO

If no, why? _____

Reference Point Name: _____ GS to RP: _____

Comments: _____

Maximum Benefits Well Sampling
Water Quality Survey

Sampler Initials: _____

Date: 11/11/20

Well Information

WE ID: Chino Valley Nursery *Well Address:* _____

Were well photos collected? YES NO *Was a well sketch drawn?* YES NO

WQ Meter _____ *Serial #* _____ (last 3 digits) *Sample Group.* _____

What time did you arrive at the well? 15:30 *Was the well running at arrival?* YES (NO)

Water Quality Field Measurement Details

Were you able to collect a water quality sample? (YES) NO

Sample Collection Time: 16:00

If no, why? _____

_____

Water Quality Field Parameters (please enter in the units of measurement as they appear on the meter)

Time (24 hour)	Depth to Water (feet)	Activity	Temp ( )	Cond (EC) ( )	pH (pH units)	DO ( )	TDS ( )
	530		18.3	374	7.72	8.48	
			18.3	377	7.67	7.35	
			18.3	378	7.66	7.67	
			18.3	376	7.66	6.02	

Did you install a spigot? _____

Water Level Measurement Details

Were you able to collect a water level measurement? YES NO

If no, why? _____

_____

Reference Point Name: _____ *GS to RP:* _____

Comments: _____

_____

_____

Maximum Benefits Well Sampling
Water Quality Survey

Date: 11/10/20 *Sampler Initials:* _____

Well Information
WE ID: Ruth Cunningham *Well Address:* _____

Were well photos collected? YES NO *Was a well sketch drawn?* YES NO

WQ Meter _____ *Serial #* _____ (last 3 digits) *Sample Group:* _____

What time did you arrive at the well? 16:50 *Was the well running at arrival?* YES (NO)

Water Quality Field Measurement Details
Were you able to collect a water quality sample? YES NO

Sample Collection Time: _____

If no, why? _____

_____

Water Quality Field Parameters (please enter in the units of measurement as they appear on the meter)

Time (24 hour)	Depth to Water (feet)	Activity	Temp ( )	Cond (EC) ( )	pH (pH units)	DO ( )	TDS ( )

Did you install a spigot? _____

Water Level Measurement Details
Were you able to collect a water level measurement? (YES) NO 37.67

If no, why? _____

_____

Reference Point Name: _____ *GS to RP:* _____

Comments: _____

_____

_____

Maximum Benefits Well Sampling
Water Quality Survey

Date: 11/10/20 *Sampler Initials:* CH

Well Information

WE ID: Francis Dowling *Well Address:* _____

Were well photos collected? YES NO *Was a well sketch drawn?* YES NO

WQ Meter _____ *Serial #* _____ (last 3 digits) *Sample Group.* _____

What time did you arrive at the well? 16:30 *Was the well running at arrival?* YES NO

Water Quality Field Measurement Details

Were you able to collect a water quality sample? YES NO

Sample Collection Time: _____

If no, why? _____

_____

Water Quality Field Parameters (please enter in the units of measurement as they appear on the meter)

Time (24 hour)	Depth to Water (feet)	Activity	Temp ( )	Cond (EC) ( )	pH (pH units)	DO ( )	TDS ( )

Did you install a spigot? _____

Water Level Measurement Details

Were you able to collect a water level measurement? YES (circled) NO 120.46

If no, why? _____

_____

Reference Point Name: _____ *GS to RP:* _____

Comments: _____

_____

_____

Maximum Benefits Well Sampling
Water Quality Survey

Date: 11/12/20 Sampler Initials: CH

Well Information
WE ID: Desert Lawn Well Address: _____

Were well photos collected? YES NO Was a well sketch drawn? YES NO

WQ Meter _____ Serial # _____ (last 3 digits) Sample Group. _____

What time did you arrive at the well? 9:10 Was the well running at arrival? YES (NO)

Water Quality Field Measurement Details
Were you able to collect a water quality sample? (YES) NO

Sample Collection Time: 9:30

If no, why? _____

_____

Water Quality Field Parameters (please enter in the units of measurement as they appear on the meter)

Time (24 hour)	Depth to Water (feet)	Activity	Temp ( )	Cond (EC) ( )	pH (pH units)	DO ( )	TDS ( )
9:13			18.3	465	7.81	7.45	
9:16			18.4	431	7.81	7.48	
9:19			18.3	422	7.83	7.75	
9:22			18.4	428	7.82	7.97	
9:25			18.4	430	7.81	7.91	

Did you install a spigot? _____

Water Level Measurement Details
Were you able to collect a water level measurement? YES NO

If no, why? _____

_____

Reference Point Name: _____ GS to RP: _____

Comments: _____

_____

_____

Maximum Benefits Well Sampling
Water Quality Survey

Date: 11/11/20

Sampler Initials: CH

Well Information

WE ID: Dowling Orchard

Well Address: _____

Were well photos collected? YES NO

Was a well sketch drawn? YES NO

WQ Meter _____ Serial # _____ (last 3 digits)

Sample Group: _____

What time did you arrive at the well? 11:05 Was the well running at arrival? YES (NO)

Water Quality Field Measurement Details

Were you able to collect a water quality sample? (YES) NO

Sample Collection Time: 11:30

If no, why? _____

Water Quality Field Parameters (please enter in the units of measurement as they appear on the meter)

Time (24 hour)	Depth to Water (feet)	Activity	Temp ( )	Cond (EC) ( )	pH (pH units)	DO ( )	TDS ( )
11:15	135.21		20.5	296	8.08	4.81	
11:18			20.7	466	8.03	4.50	
11:21			20.6	477	8.01	4.81	
11:24			20.6	478	8.03	4.38	

Did you install a spigot? _____

Water Level Measurement Details

Were you able to collect a water level measurement? (YES) NO

If no, why? _____

Reference Point Name: _____ GS to RP: _____

Comments: _____

Maximum Benefits Well Sampling
Water Quality Survey

Sampler Initials: CH

Date: 11/10/20

Well Information

WE ID: Wilmer Garner *Well Address:* _____

Were well photos collected? YES NO *Was a well sketch drawn?* YES NO

WQ Meter _____ *Serial #* _____ (last 3 digits) *Sample Group:* _____

What time did you arrive at the well? _____ *Was the well running at arrival?* YES (NO)

Water Quality Field Measurement Details

Were you able to collect a water quality sample? YES NO

Sample Collection Time: _____

If no, why? _____

_____

Water Quality Field Parameters (please enter in the units of measurement as they appear on the meter)

Time (24 hour)	Depth to Water (feet)	Activity	Temp ( )	Cond (EC) ( )	pH (pH units)	DO ( )	TDS ( )

Did you install a spigot? _____

Water Level Measurement Details

Were you able to collect a water level measurement? (YES) NO 132.68

If no, why? _____

_____

Reference Point Name: _____ *GS to RP:* _____

Comments: _____

_____

_____

Maximum Benefits Well Sampling
Water Quality Survey

Sampler Initials: CH

Date: 11/11/20

Well Information

WE ID: MCM Poultry Ranch *Well Address:* _____

Were well photos collected? YES NO *Was a well sketch drawn?* YES NO

WQ Meter _____ *Serial #* _____ (last 3 digits) *Sample Group:* _____

What time did you arrive at the well? 9:10 *Was the well running at arrival?* YES (NO)

Water Quality Field Measurement Details

Were you able to collect a water quality sample? (YES) NO

Sample Collection Time: 9:30

If no, why? _____

Water Quality Field Parameters (please enter in the units of measurement as they appear on the meter)

Time (24 hour)	Depth to Water (feet)	Activity	Temp ( )	Cond (EC) ( )	pH (pH units)	DO ( )	TDS ( )
9:15	28.78						
9:20			17.5	506	7.47	4.10	
9:23			19.1	523	7.24	3.14	
9:26			19.1	1154	7.31	3.67	
9:29			19.3	1054	7.32	2.56	

Did you install a spigot? _____

Water Level Measurement Details

Were you able to collect a water level measurement? (YES) NO

If no, why? _____

Reference Point Name: _____ *GS to RP:* _____

Comments: _____

Maximum Benefits Well Sampling
Water Quality Survey

Sampler Initials: CH

Date: 11/12/20

Well Information

WE ID: Morong- A *Well Address:* _____

Were well photos collected? YES NO *Was a well sketch drawn?* YES NO

WQ Meter _____ *Serial #* _____ (last 3 digits) *Sample Group:* _____

What time did you arrive at the well? 8:00 *Was the well running at arrival?* YES (NO)

Water Quality Field Measurement Details

Were you able to collect a water quality sample? (YES) NO

Sample Collection Time: 8:30

If no, why? _____

Water Quality Field Parameters (please enter in the units of measurement as they appear on the meter)

Time (24 hour)	Depth to Water (feet)	Activity	Temp ( )	Cond (EC) ( )	pH (pH units)	DO ( )	TDS ( )
8:10		1700 gpm	25.3	~~2334~~	9.34	3.38	
8:15			25.5	362 358	8.99	5.92	
8:20			25.6	356	8.99	6.24	
8:25			25.6	355	8.97	6.51	

Did you install a spigot? _____

Water Level Measurement Details

Were you able to collect a water level measurement? YES NO

If no, why? _____

Reference Point Name: _____ *GS to RP:* _____

Comments: _____

Maximum Benefits Well Sampling
Water Quality Survey

Sampler Initials: CH

Date: 11/12/20

Well Information

WE ID: Moongate D *Well Address:* _____

Were well photos collected? YES NO *Was a well sketch drawn?* YES NO

WQ Meter _____ *Serial #* _____ (last 3 digits) *Sample Group.* _____

What time did you arrive at the well? 8:35 *Was the well running at arrival?* YES (NO)

Water Quality Field Measurement Details

Were you able to collect a water quality sample? (YES) NO

Sample Collection Time: 9:00

If no, why? _____

Water Quality Field Parameters (please enter in the units of measurement as they appear on the meter)

Time (24 hour)	Depth to Water (feet)	Activity	Temp ( )	Cond (EC) ( )	pH (pH units)	DO ( )	TDS ( )
8:40		2,400 gpm	20.9	356	8.51	5.22	
8:45			21.9	357	8.46	5.68	
8:50			21.9	357	8.33	6.54	
8:55			21.8	364	8.22	6.01	
9:00			21.	362	8.25	5.94	

Did you install a spigot? _____

Water Level Measurement Details

Were you able to collect a water level measurement? YES NO

If no, why? _____

Reference Point Name: _____ *GS to RP:* _____

Comments: _____

Maximum Benefits Well Sampling
Water Quality Survey

Date: 11/11/26 *Sampler Initials:* CH

Well Information
WE ID: Oak Valley Office *Well Address:* _____

Were well photos collected? YES NO *Was a well sketch drawn?* YES NO

WQ Meter _____ *Serial #* _____ (last 3 digits) *Sample Group.* _____

What time did you arrive at the well? 15:05 *Was the well running at arrival?* YES (NO)

Water Quality Field Measurement Details
Were you able to collect a water quality sample? (YES) NO

Sample Collection Time: 15:30

If no, why? _____

Water Quality Field Parameters (please enter in the units of measurement as they appear on the meter)

Time (24 hour)	Depth to Water (feet)	Activity	Temp ( )	Cond (EC) ( )	pH (pH units)	DO ( )	TDS ( )
15:10	180.86		19.3	231	7.78	5.25	
15:13			19.7	225	7.97	7.26	
15:16			19.8	282	7.99	7.06	
15:19			19.8	282	8.01	7.96	
15:22			19.8	281	8.02	7.44	

Did you install a spigot? _____

Water Level Measurement Details
Were you able to collect a water level measurement? (YES) NO

If no, why? _____

Reference Point Name: _____ *GS to RP:* _____

Comments: _____

Maximum Benefits Well Sampling
Water Quality Survey

Date: 11/11/20 *Sampler Initials:* CH

Well Information
WE ID: Singleton Ranch 5 *Well Address:* _____

Were well photos collected? YES NO *Was a well sketch drawn?* YES NO

WQ Meter _____ *Serial #* _____ (last 3 digits) *Sample Group:* _____

What time did you arrive at the well? 14:05 *Was the well running at arrival?* YES (NO)

Water Quality Field Measurement Details
Were you able to collect a water quality sample? YES NO

Sample Collection Time: _____

If no, why? _____

Water Quality Field Parameters (please enter in the units of measurement as they appear on the meter)

Time (24 hour)	Depth to Water (feet)	Activity	Temp ( )	Cond (EC) ( )	pH (pH units)	DO ( )	TDS ( )
14:15	103.55						

Did you install a spigot? _____

Water Level Measurement Details
Were you able to collect a water level measurement? (YES) NO

If no, why? _____

Reference Point Name: _____ *GS to RP:* _____

Comments: tomahawk in well

Maximum Benefits Well Sampling
Water Quality Survey

Date: 11/11/20

Sampler Initials: CH

Well Information

WE ID: Singleton Ranch 7

Well Address: _____

Were well photos collected? YES NO

Was a well sketch drawn? YES NO

WQ Meter _____ Serial # _____ (last 3 digits)

Sample Group. _____

What time did you arrive at the well? 14:30 Was the well running at arrival? YES (NO)

Water Quality Field Measurement Details

Were you able to collect a water quality sample? (YES) NO

Sample Collection Time: 14:50

If no, why? _____

Water Quality Field Parameters (please enter in the units of measurement as they appear on the meter)

Time (24 hour)	Depth to Water (feet)	Activity	Temp ( )	Cond (EC) ( )	pH (pH units)	DO ( )	TDS ( )
14:40	150.35		19.7	345	7.65	7.87	
14:43			19.4	354	7.62	6.81	
14:46			19.4	339	7.64	6.57	
14:49			19.4	347	7.67	6.99	

Did you install a spigot? _____

Water Level Measurement Details

Were you able to collect a water level measurement? (YES) NO

If no, why? _____

Reference Point Name: _____ GS to RP: _____

Comments: Transducer pulled and lost sensor

Maximum Benefits Well Sampling
Water Quality Survey

Sampler Initials: _____

Date: 11/11/20

Well Information

WE ID: Joe Pistilli *Well Address:* _____

Were well photos collected? YES NO *Was a well sketch drawn?* YES NO

WQ Meter _____ *Serial #* _____ (last 3 digits) *Sample Group.* _____

What time did you arrive at the well? 11:45 *Was the well running at arrival?* YES (NO)

Water Quality Field Measurement Details

Were you able to collect a water quality sample? (YES) NO

Sample Collection Time: 1210

If no, why? _____

Water Quality Field Parameters (please enter in the units of measurement as they appear on the meter)

Time (24 hour)	Depth to Water (feet)	Activity	Temp ( )	Cond (EC) ( )	pH (pH units)	DO ( )	TDS ( )
	95.17						
11:55			18.9	360	7.98	7.78	
11:58			18.8	360	7.82	6.41	
12:01			19.2	360	7.87	6.50	
12:04			19.1	360	7.88	6.43	
12:07			19.1	360	7.88	6.40	

Did you install a spigot? _____

Water Level Measurement Details

Were you able to collect a water level measurement? (YES) NO

If no, why? _____

Reference Point Name: _____ *GS to RP:* _____

Comments: well across street ~105 ft

Maximum Benefits Well Sampling
Water Quality Survey

Date: 11/11/20 *Sampler Initials:* CH

Well Information
WE ID: Maureen Pillack Jurado *Well Address:* _____

Were well photos collected? YES NO *Was a well sketch drawn?* YES NO

WQ Meter _____ *Serial #*_____ (last 3 digits) *Sample Group.* _____

What time did you arrive at the well? _____ *Was the well running at arrival?* YES NO

Water Quality Field Measurement Details
Were you able to collect a water quality sample? YES NO

Sample Collection Time: _____

If no, why? _____

_____

Water Quality Field Parameters (please enter in the units of measurement as they appear on the meter)

Time (24 hour)	Depth to Water (feet)	Activity	Temp ( )	Cond (EC) ( )	pH (pH units)	DO ( )	TDS ( )
	184.90						

Did you install a spigot? _____

Water Level Measurement Details
Were you able to collect a water level measurement? (YES) NO

If no, why? _____

_____

Reference Point Name: TD ~190 *GS to RP:* _____

Comments: _____

_____

_____

Maximum Benefits Well Sampling
Water Quality Survey

Date: 11/11/20 *Sampler Initials:* CH

Well Information
WE ID: Unknown 1208640 *Well Address:* _____

Were well photos collected? YES NO *Was a well sketch drawn?* YES NO

WQ Meter _____ *Serial #* _____ (last 3 digits) *Sample Group:* _____

What time did you arrive at the well? 16:50 *Was the well running at arrival?* YES (NO)

Water Quality Field Measurement Details
Were you able to collect a water quality sample? YES NO

Sample Collection Time: _____

If no, why? _____

Water Quality Field Parameters (please enter in the units of measurement as they appear on the meter)

Time (24 hour)	Depth to Water (feet)	Activity	Temp ( )	Cond (EC) ( )	pH (pH units)	DO ( )	TDS ( )
1700	74.36						

Did you install a spigot? _____

Water Level Measurement Details
Were you able to collect a water level measurement? (YES) NO

If no, why? _____

Reference Point Name: _____ *GS to RP:* _____

Comments: _____

Maximum Benefits Well Sampling
Water Quality Survey

Date: 11/11/20

Sampler Initials: CH

Well Information

WE ID: George Witter

Well Address: _____

Were well photos collected? YES NO

Was a well sketch drawn? YES NO

WQ Meter _____ Serial # _____ (last 3 digits)

Sample Group: _____

What time did you arrive at the well? 1315

Was the well running at arrival? (YES) NO

Water Quality Field Measurement Details

Were you able to collect a water quality sample? (YES) NO

Sample Collection Time: 1330

If no, why? _____

Water Quality Field Parameters (please enter in the units of measurement as they appear on the meter)

Time (24 hour)	Depth to Water (feet)	Activity	Temp ( )	Cond (EC) ( )	pH (pH units)	DO ( )	TDS ( )
1318			17.0	350	8.14	8.54	
1321			17.3	358	7.93	8.17	
1324			17.3	348	7.99	7.98	
1327			17.3	348	8.05	8.01	
1330			17.3	348	8.05	8.11	

Did you install a spigot? _____

Water Level Measurement Details

Were you able to collect a water level measurement? YES (NO)

If no, why? no port

Reference Point Name: _____

GS to RP: _____

Comments: _____

DUDEK

FIELD CALIBRATION RECORD

Project Name: City of Beaumont

Project Number: 11110.2019

Field Crew: C. Hunter
V. Rosenblatt

Signature:

Date of Field Calibration: 11/9/20

Field Location: Beaumont area, CA

Weather Conditions: Sunny, 70's

Parameter Sensor:

Instr. Type: YSI

Model: 556

Temp (using thermometer): Temp (using meter):

		Parameters / Field Measurements						General Description of Standards
		pH	Percent Error	Dissolved Oxygen - Atmospheric Pressure (mmHg)	Percent Error	Specific Conductance (uS/cm)	Percent Error	calibration solution, supplier, exp. Date
Standard Solution Values	1	4.0		717.8		1215		
	2	7.0						
	3	10.0						
Pre-calibration Readings for Each Standard	1	4.13 CH		719.1		1206		
	2	7.00						
	3	10.09						
Post-calibration Readings for Each Standard	1			719.7		1213		
	2	6.96						
	3	10.12						

Beaumont, City of	Project: Maximum Benefit-Surface Water	Work Order: 20E1498
550 East 6th Street	Sub Project: Beaumont GMZ	Received: 05/20/20 08:50
Beaumont CA, 92223	Project Manager: Thaxton Van Belle	Reported: 06/01/20

San Tim - 1 **20E1498-01 (Water)** **Sample Date:** 05/18/20 14:39 **Sampler:** C. Hunter

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
General Chemical Analyses									
Alkalinity, Total (as CaCO3)	SM 2320 B	**250**	mg/L	5.0		05/28/20	05/28/20	2021071	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	05/26/20	05/26/20	2022015	
Bicarbonate (HCO3)	SM 2320 B	**300**	mg/L	5.0		05/28/20	05/28/20	2021071	
Carbonate (CO3)	SM 2320B	ND	mg/L	5.0		05/28/20	05/28/20	2021071	
Chloride (Cl)	EPA 300.0	**56**	mg/L	1.0	0.075	05/20/20	05/20/20	2021068	
Specific Conductance (E.C.)	SM 2510B	**690**	umhos/cm	2.0	0.20	05/20/20	05/20/20	2021071	
Fluoride (F)	EPA 300.0	**0.58**	mg/L	0.10	0.026	05/20/20	05/20/20	2021068	
Hardness, Total (as CaCO3)	Calculated	**250**	mg/L	6.6		05/28/20	05/28/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		05/28/20	05/28/20	2021071	
Inorganic Nitrogen	Calculated	ND	mg/L	1.3		05/26/20	05/26/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	**0.74**	mg/L	0.40	0.12	05/20/20	05/20/20	2021068	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	05/20/20	05/20/20	2021068	
pH (Lab)	SM 4500HB	**7.9**	pH Units			05/20/20	05/20/20	2021071	
Sulfate (SO4)	EPA 300.0	**32**	mg/L	0.50	0.14	05/20/20	05/20/20	2021068	
Total Filterable Residue/TDS	SM 2540C	**390**	mg/L	5.0	3.1	05/21/20	05/22/20	2021110	
Metals									
Calcium (Ca)	EPA 200.7	**70**	mg/L	1.0	0.080	05/28/20	05/28/20	2022095	
Magnesium (Mg)	EPA 200.7	**19**	mg/L	1.0	0.51	05/28/20	05/28/20	2022095	
Potassium (K)	EPA 200.7	**1.6**	mg/L	1.0	0.18	05/28/20	05/28/20	2022095	
Silica (SiO2)	EPA 200.7	**20**	mg/L	0.50	0.018	05/26/20	05/26/20	2022026	
Sodium (Na)	EPA 200.7	**54**	mg/L	1.0	0.21	05/28/20	05/28/20	2022095	

Stu Styles
Client Services Manager

Post Office Box 329 San Bernardino, CA 92402 (909) 825-7693 Fax (909) 825-7696 ELAP Number 1088

Beaumont, City of	Project: Maximum Benefit-Surface Water	Work Order: 20E1498
550 East 6th Street	Sub Project: Beaumont GMZ	Received: 05/20/20 08:50
Beaumont CA, 92223	Project Manager: Thaxton Van Belle	Reported: 06/01/20

San Tim 2B-1 **20E1498-02 (Water)** **Sample Date:** 05/18/20 14:00 **Sampler:** C. Hunter

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
General Chemical Analyses									
Alkalinity, Total (as CaCO3)	SM 2320 B	**130**	mg/L	5.0		05/28/20	05/28/20	2021071	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	05/26/20	05/26/20	2022015	
Bicarbonate (HCO3)	SM 2320 B	**150**	mg/L	5.0		05/28/20	05/28/20	2021071	
Carbonate (CO3)	SM 2320B	**6.2**	mg/L	5.0		05/28/20	05/28/20	2021071	
Chloride (Cl)	EPA 300.0	**24**	mg/L	1.0	0.075	05/20/20	05/20/20	2021068	
Specific Conductance (E.C.)	SM 2510B	**390**	umhos/cm	2.0	0.20	05/20/20	05/20/20	2021071	
Fluoride (F)	EPA 300.0	**2.6**	mg/L	0.10	0.026	05/20/20	05/20/20	2021068	
Hardness, Total (as CaCO3)	Calculated	**29**	mg/L	6.6		05/28/20	05/28/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		05/28/20	05/28/20	2021071	
Inorganic Nitrogen	Calculated	ND	mg/L	1.3		05/26/20	05/26/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	**1.0**	mg/L	0.40	0.12	05/20/20	05/20/20	2021068	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	05/20/20	05/20/20	2021068	
pH (Lab)	SM 4500HB	**8.9**	pH Units			05/20/20	05/20/20	2021071	
Sulfate (SO4)	EPA 300.0	**17**	mg/L	0.50	0.14	05/20/20	05/20/20	2021068	
Total Filterable Residue/TDS	SM 2540C	**220**	mg/L	5.0	3.1	05/21/20	05/22/20	2021110	
Metals									
Calcium (Ca)	EPA 200.7	**10**	mg/L	1.0	0.080	05/28/20	05/28/20	2022095	
Magnesium (Mg)	EPA 200.7	**0.86**	mg/L	1.0	0.51	05/28/20	05/28/20	2022095	J
Potassium (K)	EPA 200.7	**0.71**	mg/L	1.0	0.18	05/28/20	05/28/20	2022095	J
Silica (SiO2)	EPA 200.7	**18**	mg/L	0.50	0.018	05/29/20	05/29/20	2022141	
Sodium (Na)	EPA 200.7	**83**	mg/L	1.0	0.21	05/28/20	05/28/20	2022095	

Stu Styles
Client Services Manager

Post Office Box 329 San Bernardino, CA 92402 (909) 825-7693 Fax (909) 825-7696 ELAP Number 1088

Beaumont, City of	Project: Maximum Benefit-Surface Water	Work Order: 20E1498
550 East 6th Street	Sub Project: Beaumont GMZ	Received: 05/20/20 08:50
Beaumont CA, 92223	Project Manager: Thaxton Van Belle	Reported: 06/01/20

San Tim 2B-2 **20E1498-03 (Water)** **Sample Date:** 05/18/20 14:08 **Sampler:** C. Hunter

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
General Chemical Analyses									
Alkalinity, Total (as CaCO3)	SM 2320 B	**110**	mg/L	5.0		05/28/20	05/28/20	2021071	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	05/26/20	05/26/20	2022015	
Bicarbonate (HCO3)	SM 2320 B	**100**	mg/L	5.0		05/28/20	05/28/20	2021071	
Carbonate (CO3)	SM 2320B	**18**	mg/L	5.0		05/28/20	05/28/20	2021071	
Chloride (Cl)	EPA 300.0	**21**	mg/L	1.0	0.075	05/20/20	05/20/20	2021068	
Specific Conductance (E.C.)	SM 2510B	**360**	umhos/cm	2.0	0.20	05/20/20	05/20/20	2021071	
Fluoride (F)	EPA 300.0	**2.5**	mg/L	0.10	0.026	05/20/20	05/20/20	2021068	
Hardness, Total (as CaCO3)	Calculated	ND	mg/L	6.6		05/28/20	05/28/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		05/28/20	05/28/20	2021071	
Inorganic Nitrogen	Calculated	ND	mg/L	1.3		05/26/20	05/26/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	**1.2**	mg/L	0.40	0.12	05/20/20	05/20/20	2021068	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	05/20/20	05/20/20	2021068	
pH (Lab)	SM 4500HB	**9.4**	pH Units			05/20/20	05/20/20	2021071	
Sulfate (SO4)	EPA 300.0	**16**	mg/L	0.50	0.14	05/20/20	05/20/20	2021068	
Total Filterable Residue/TDS	SM 2540C	**200**	mg/L	5.0	3.1	05/21/20	05/22/20	2021110	
Metals									
Calcium (Ca)	EPA 200.7	**2.2**	mg/L	1.0	0.080	05/28/20	05/28/20	2022095	
Magnesium (Mg)	EPA 200.7	ND	mg/L	1.0	0.51	05/28/20	05/28/20	2022095	
Potassium (K)	EPA 200.7	**0.21**	mg/L	1.0	0.18	05/28/20	05/28/20	2022095	J
Silica (SiO2)	EPA 200.7	**16**	mg/L	0.50	0.018	05/26/20	05/26/20	2022026	
Sodium (Na)	EPA 200.7	**79**	mg/L	1.0	0.21	05/28/20	05/28/20	2022095	

Stu Styles
Client Services Manager

Post Office Box 329 San Bernardino, CA 92402 (909) 825-7693 Fax (909) 825-7696 ELAP Number 1088

Beaumont, City of	Project: Maximum Benefit-Surface Water	Work Order: 20E1498
550 East 6th Street	Sub Project: Beaumont GMZ	Received: 05/20/20 08:50
Beaumont CA, 92223	Project Manager: Thaxton Van Belle	Reported: 06/01/20

Henry Schwenkert **20E1498-04 (Water)** **Sample Date:** 05/18/20 15:13 **Sampler:** C. Hunter

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
General Chemical Analyses									
Alkalinity, Total (as CaCO3)	SM 2320 B	**360**	mg/L	5.0		05/28/20	05/28/20	2021071	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	05/26/20	05/26/20	2022015	
Bicarbonate (HCO3)	SM 2320 B	**440**	mg/L	5.0		05/28/20	05/28/20	2021071	
Carbonate (CO3)	SM 2320B	ND	mg/L	5.0		05/28/20	05/28/20	2021071	
Chloride (Cl)	EPA 300.0	**100**	mg/L	1.0	0.075	05/20/20	05/20/20	2021068	
Specific Conductance (E.C.)	SM 2510B	**1300**	umhos/cm	2.0	0.20	05/20/20	05/20/20	2021071	
Fluoride (F)	EPA 300.0	**0.44**	mg/L	0.10	0.026	05/20/20	05/20/20	2021068	
Hardness, Total (as CaCO3)	Calculated	**120**	mg/L	6.6		05/28/20	05/28/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		05/28/20	05/28/20	2021071	
Inorganic Nitrogen	Calculated	**25**	mg/L	1.3		05/26/20	05/26/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	**25**	mg/L	0.40	0.12	05/20/20	05/20/20	2021068	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	05/20/20	05/20/20	2021068	
pH (Lab)	SM 4500HB	**8.0**	pH Units			05/20/20	05/20/20	2021071	
Sulfate (SO4)	EPA 300.0	**61**	mg/L	0.50	0.14	05/20/20	05/20/20	2021068	
Total Filterable Residue/TDS	SM 2540C	**780**	mg/L	5.0	3.1	05/21/20	05/22/20	2021110	
Metals									
Calcium (Ca)	EPA 200.7	**42**	mg/L	1.0	0.080	05/28/20	05/28/20	2022095	
Magnesium (Mg)	EPA 200.7	**4.6**	mg/L	1.0	0.51	05/28/20	05/28/20	2022095	
Potassium (K)	EPA 200.7	**0.75**	mg/L	1.0	0.18	05/28/20	05/28/20	2022095	J
Silica (SiO2)	EPA 200.7	**22**	mg/L	0.50	0.018	05/26/20	05/26/20	2022026	
Sodium (Na)	EPA 200.7	**230**	mg/L	5.0	1.1	05/28/20	05/28/20	2022095	

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Beaumont, City of	Project: Maximum Benefit-Surface Water	Work Order: 20E1498
550 East 6th Street	Sub Project: Beaumont GMZ	Received: 05/20/20 08:50
Beaumont CA, 92223	Project Manager: Thaxton Van Belle	Reported: 06/01/20

CVMWC-1 **20E1498-05 (Water)** **Sample Date:** 05/19/20 11:25 **Sampler:** C. Hunter

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
General Chemical Analyses									
Alkalinity, Total (as CaCO3)	SM 2320 B	**180**	mg/L	5.0		05/28/20	05/28/20	2021071	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	05/26/20	05/26/20	2022015	
Bicarbonate (HCO3)	SM 2320 B	**230**	mg/L	5.0		05/28/20	05/28/20	2021071	
Carbonate (CO3)	SM 2320B	ND	mg/L	5.0		05/28/20	05/28/20	2021071	
Chloride (Cl)	EPA 300.0	**28**	mg/L	1.0	0.075	05/20/20	05/20/20	2021068	
Specific Conductance (E.C.)	SM 2510B	**620**	umhos/cm	2.0	0.20	05/20/20	05/20/20	2021071	
Fluoride (F)	EPA 300.0	**0.52**	mg/L	0.10	0.026	05/20/20	05/20/20	2021068	
Hardness, Total (as CaCO3)	Calculated	**250**	mg/L	6.6		05/28/20	05/28/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		05/28/20	05/28/20	2021071	
Inorganic Nitrogen	Calculated	**14**	mg/L	1.3		05/26/20	05/26/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	**14**	mg/L	0.40	0.12	05/20/20	05/20/20	2021068	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	05/20/20	05/20/20	2021068	
pH (Lab)	SM 4500HB	**7.8**	pH Units			05/20/20	05/20/20	2021071	
Sulfate (SO4)	EPA 300.0	**37**	mg/L	0.50	0.14	05/20/20	05/20/20	2021068	
Total Filterable Residue/TDS	SM 2540C	**400**	mg/L	5.0	3.1	05/21/20	05/22/20	2021110	
Metals									
Calcium (Ca)	EPA 200.7	**56**	mg/L	1.0	0.080	05/28/20	05/28/20	2022095	
Magnesium (Mg)	EPA 200.7	**27**	mg/L	1.0	0.51	05/28/20	05/28/20	2022095	
Potassium (K)	EPA 200.7	**1.1**	mg/L	1.0	0.18	05/28/20	05/28/20	2022095	
Silica (SiO2)	EPA 200.7	**42**	mg/L	0.50	0.018	05/26/20	05/26/20	2022026	
Sodium (Na)	EPA 200.7	**36**	mg/L	1.0	0.21	05/28/20	05/28/20	2022095	

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Beaumont, City of	Project: Maximum Benefit-Surface Water	Work Order: 20E1498
550 East 6th Street	Sub Project: Beaumont GMZ	Received: 05/20/20 08:50
Beaumont CA, 92223	Project Manager: Thaxton Van Belle	Reported: 06/01/20

Cherry Valley Nursery **20E1498-06 (Water)** **Sample Date:** 05/19/20 11:50 **Sampler:** C. Hunter

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
General Chemical Analyses									
Alkalinity, Total (as CaCO3)	SM 2320 B	**160**	mg/L	5.0		05/28/20	05/28/20	2021071	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	05/26/20	05/26/20	2022015	
Bicarbonate (HCO3)	SM 2320 B	**190**	mg/L	5.0		05/28/20	05/28/20	2021071	
Carbonate (CO3)	SM 2320B	ND	mg/L	5.0		05/28/20	05/28/20	2021071	
Chloride (Cl)	EPA 300.0	**18**	mg/L	1.0	0.075	05/20/20	05/20/20	2021068	
Specific Conductance (E.C.)	SM 2510B	**440**	umhos/cm	2.0	0.20	05/20/20	05/20/20	2021071	
Fluoride (F)	EPA 300.0	**0.50**	mg/L	0.10	0.026	05/20/20	05/20/20	2021068	
Hardness, Total (as CaCO3)	Calculated	**180**	mg/L	6.6		05/28/20	05/28/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		05/28/20	05/28/20	2021071	
Inorganic Nitrogen	Calculated	**6.2**	mg/L	1.3		05/26/20	05/26/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	**6.2**	mg/L	0.40	0.12	05/20/20	05/20/20	2021068	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	05/20/20	05/20/20	2021068	
pH (Lab)	SM 4500HB	**7.9**	pH Units			05/20/20	05/20/20	2021071	
Sulfate (SO4)	EPA 300.0	**11**	mg/L	0.50	0.14	05/20/20	05/20/20	2021068	
Total Filterable Residue/TDS	SM 2540C	**260**	mg/L	5.0	3.1	05/21/20	05/22/20	2021110	
Metals									
Calcium (Ca)	EPA 200.7	**49**	mg/L	1.0	0.080	05/28/20	05/28/20	2022095	
Magnesium (Mg)	EPA 200.7	**15**	mg/L	1.0	0.51	05/28/20	05/28/20	2022095	
Potassium (K)	EPA 200.7	**1.7**	mg/L	1.0	0.18	05/28/20	05/28/20	2022095	
Silica (SiO2)	EPA 200.7	**27**	mg/L	0.50	0.018	05/26/20	05/26/20	2022026	
Sodium (Na)	EPA 200.7	**21**	mg/L	1.0	0.21	05/28/20	05/28/20	2022095	

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Beaumont, City of	Project: Maximum Benefit-Surface Water	Work Order: 20E1498
550 East 6th Street	Sub Project: Beaumont GMZ	Received: 05/20/20 08:50
Beaumont CA, 92223	Project Manager: Thaxton Van Belle	Reported: 06/01/20

Oak Valley Office **20E1498-07 (Water)** **Sample Date:** 05/19/20 12:50 **Sampler:** C. Hunter

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
General Chemical Analyses									
Alkalinity, Total (as CaCO3)	SM 2320 B	**150**	mg/L	5.0		05/28/20	05/28/20	2021071	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	05/26/20	05/26/20	2022015	
Bicarbonate (HCO3)	SM 2320 B	**180**	mg/L	5.0		05/28/20	05/28/20	2021071	
Carbonate (CO3)	SM 2320B	ND	mg/L	5.0		05/28/20	05/28/20	2021071	
Chloride (Cl)	EPA 300.0	**4.6**	mg/L	1.0	0.075	05/20/20	05/20/20	2021068	
Specific Conductance (E.C.)	SM 2510B	**320**	umhos/cm	2.0	0.20	05/20/20	05/20/20	2021071	
Fluoride (F)	EPA 300.0	**0.28**	mg/L	0.10	0.026	05/20/20	05/20/20	2021068	
Hardness, Total (as CaCO3)	Calculated	**110**	mg/L	6.6		05/28/20	05/28/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		05/28/20	05/28/20	2021071	
Inorganic Nitrogen	Calculated	ND	mg/L	1.3		05/26/20	05/26/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	**0.87**	mg/L	0.40	0.12	05/20/20	05/20/20	2021068	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	05/20/20	05/20/20	2021068	
pH (Lab)	SM 4500HB	**8.2**	pH Units			05/20/20	05/20/20	2021071	
Sulfate (SO4)	EPA 300.0	**10**	mg/L	0.50	0.14	05/20/20	05/20/20	2021068	
Total Filterable Residue/TDS	SM 2540C	**190**	mg/L	5.0	3.1	05/21/20	05/22/20	2021110	
Metals									
Calcium (Ca)	EPA 200.7	**33**	mg/L	1.0	0.080	05/28/20	05/28/20	2022095	
Magnesium (Mg)	EPA 200.7	**7.7**	mg/L	1.0	0.51	05/28/20	05/28/20	2022095	
Potassium (K)	EPA 200.7	**1.7**	mg/L	1.0	0.18	05/28/20	05/28/20	2022095	
Silica (SiO2)	EPA 200.7	**24**	mg/L	0.50	0.018	05/26/20	05/26/20	2022026	
Sodium (Na)	EPA 200.7	**31**	mg/L	1.0	0.21	05/28/20	05/28/20	2022095	

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Beaumont, City of	Project: Maximum Benefit-Surface Water	Work Order: 20E1498
550 East 6th Street	Sub Project: Beaumont GMZ	Received: 05/20/20 08:50
Beaumont CA, 92223	Project Manager: Thaxton Van Belle	Reported: 06/01/20

Singleton Ranch 7 **20E1498-08 (Water)** **Sample Date:** 05/19/20 13:15 **Sampler:** C. Hunter

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
General Chemical Analyses									
Alkalinity, Total (as CaCO3)	SM 2320 B	**170**	mg/L	5.0		05/28/20	05/28/20	2021071	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	05/26/20	05/26/20	2022015	
Bicarbonate (HCO3)	SM 2320 B	**210**	mg/L	5.0		05/28/20	05/28/20	2021071	
Carbonate (CO3)	SM 2320B	ND	mg/L	5.0		05/28/20	05/28/20	2021071	
Chloride (Cl)	EPA 300.0	**11**	mg/L	1.0	0.075	05/20/20	05/20/20	2021068	
Specific Conductance (E.C.)	SM 2510B	**400**	umhos/cm	2.0	0.20	05/20/20	05/20/20	2021071	
Fluoride (F)	EPA 300.0	**0.36**	mg/L	0.10	0.026	05/20/20	05/20/20	2021068	
Hardness, Total (as CaCO3)	Calculated	**180**	mg/L	6.6		05/28/20	05/28/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		05/28/20	05/28/20	2021071	
Inorganic Nitrogen	Calculated	**2.0**	mg/L	1.3		05/26/20	05/26/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	**2.0**	mg/L	0.40	0.12	05/20/20	05/20/20	2021068	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	05/20/20	05/20/20	2021068	
pH (Lab)	SM 4500HB	**8.0**	pH Units			05/20/20	05/20/20	2021071	
Sulfate (SO4)	EPA 300.0	**13**	mg/L	0.50	0.14	05/20/20	05/20/20	2021068	
Total Filterable Residue/TDS	SM 2540C	**240**	mg/L	5.0	3.1	05/21/20	05/22/20	2021110	
Metals									
Calcium (Ca)	EPA 200.7	**48**	mg/L	1.0	0.080	05/28/20	05/28/20	2022095	
Magnesium (Mg)	EPA 200.7	**16**	mg/L	1.0	0.51	05/28/20	05/28/20	2022095	
Potassium (K)	EPA 200.7	**1.9**	mg/L	1.0	0.18	05/28/20	05/28/20	2022095	
Silica (SiO2)	EPA 200.7	**27**	mg/L	0.50	0.018	05/29/20	05/29/20	2022141	
Sodium (Na)	EPA 200.7	**20**	mg/L	1.0	0.21	05/28/20	05/28/20	2022095	

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Beaumont, City of	Project: Maximum Benefit-Surface Water	Work Order: 20E1498
550 East 6th Street	Sub Project: Beaumont GMZ	Received: 05/20/20 08:50
Beaumont CA, 92223	Project Manager: Thaxton Van Belle	Reported: 06/01/20

Beaumont Cemetery **20E1498-09 (Water)** **Sample Date:** 05/19/20 15:00 **Sampler:** C. Hunter

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
General Chemical Analyses									
Alkalinity, Total (as CaCO3)	SM 2320 B	**220**	mg/L	5.0		05/28/20	05/28/20	2021071	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	05/26/20	05/26/20	2022015	
Bicarbonate (HCO3)	SM 2320 B	**270**	mg/L	5.0		05/28/20	05/28/20	2021071	
Carbonate (CO3)	SM 2320B	ND	mg/L	5.0		05/28/20	05/28/20	2021071	
Chloride (Cl)	EPA 300.0	**28**	mg/L	1.0	0.075	05/20/20	05/20/20	2021068	
Specific Conductance (E.C.)	SM 2510B	**580**	umhos/cm	2.0	0.20	05/20/20	05/20/20	2021071	
Fluoride (F)	EPA 300.0	**0.36**	mg/L	0.10	0.026	05/20/20	05/20/20	2021068	
Hardness, Total (as CaCO3)	Calculated	**260**	mg/L	6.6		05/28/20	05/28/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		05/28/20	05/28/20	2021071	
Inorganic Nitrogen	Calculated	**6.5**	mg/L	1.3		05/26/20	05/26/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	**6.5**	mg/L	0.40	0.12	05/20/20	05/20/20	2021068	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	05/20/20	05/20/20	2021068	
pH (Lab)	SM 4500HB	**8.0**	pH Units			05/20/20	05/20/20	2021071	
Sulfate (SO4)	EPA 300.0	**13**	mg/L	0.50	0.14	05/20/20	05/20/20	2021068	
Total Filterable Residue/TDS	SM 2540C	**370**	mg/L	5.0	3.1	05/21/20	05/22/20	2021110	
Metals									
Calcium (Ca)	EPA 200.7	**78**	mg/L	1.0	0.080	05/28/20	05/28/20	2022095	
Magnesium (Mg)	EPA 200.7	**15**	mg/L	1.0	0.51	05/28/20	05/28/20	2022095	
Potassium (K)	EPA 200.7	**1.6**	mg/L	1.0	0.18	05/28/20	05/28/20	2022095	
Silica (SiO2)	EPA 200.7	**37**	mg/L	0.50	0.018	05/26/20	05/26/20	2022026	
Sodium (Na)	EPA 200.7	**24**	mg/L	1.0	0.21	05/28/20	05/28/20	2022095	

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Beaumont, City of	Project: Maximum Benefit-Surface Water	Work Order: 20E1498
550 East 6th Street	Sub Project: Beaumont GMZ	Received: 05/20/20 08:50
Beaumont CA, 92223	Project Manager: Thaxton Van Belle	Reported: 06/01/20

George Witter **20E1498-10 (Water)** **Sample Date:** 05/19/20 15:30 **Sampler:** C. Hunter

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
General Chemical Analyses									
Alkalinity, Total (as CaCO3)	SM 2320 B	**160**	mg/L	5.0		05/28/20	05/28/20	2021071	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	05/26/20	05/26/20	2022015	
Bicarbonate (HCO3)	SM 2320 B	**200**	mg/L	5.0		05/28/20	05/28/20	2021071	
Carbonate (CO3)	SM 2320B	ND	mg/L	5.0		05/28/20	05/28/20	2021071	
Chloride (Cl)	EPA 300.0	**21**	mg/L	1.0	0.075	05/20/20	05/20/20	2021068	
Specific Conductance (E.C.)	SM 2510B	**410**	umhos/cm	2.0	0.20	05/20/20	05/20/20	2021071	
Fluoride (F)	EPA 300.0	**0.57**	mg/L	0.10	0.026	05/20/20	05/20/20	2021068	
Hardness, Total (as CaCO3)	Calculated	**140**	mg/L	6.6		05/28/20	05/28/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		05/28/20	05/28/20	2021071	
Inorganic Nitrogen	Calculated	**3.6**	mg/L	1.3		05/26/20	05/26/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	**3.6**	mg/L	0.40	0.12	05/20/20	05/20/20	2021068	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	05/20/20	05/20/20	2021068	
pH (Lab)	SM 4500HB	**8.3**	pH Units			05/20/20	05/20/20	2021071	
Sulfate (SO4)	EPA 300.0	**3.2**	mg/L	0.50	0.14	05/20/20	05/20/20	2021068	
Total Filterable Residue/TDS	SM 2540C	**230**	mg/L	5.0	3.1	05/21/20	05/22/20	2021110	
Metals									
Calcium (Ca)	EPA 200.7	**38**	mg/L	1.0	0.080	05/28/20	05/28/20	2022095	
Magnesium (Mg)	EPA 200.7	**11**	mg/L	1.0	0.51	05/28/20	05/28/20	2022095	
Potassium (K)	EPA 200.7	**1.7**	mg/L	1.0	0.18	05/28/20	05/28/20	2022095	
Silica (SiO2)	EPA 200.7	**23**	mg/L	0.50	0.018	05/26/20	05/26/20	2022026	
Sodium (Na)	EPA 200.7	**35**	mg/L	1.0	0.21	05/28/20	05/28/20	2022095	

Stu Styles
Client Services Manager

Post Office Box 329 San Bernardino, CA 92402 (909) 825-7693 Fax (909) 825-7696 ELAP Number 1088

Beaumont, City of	Project: Maximum Benefit-Surface Water	Work Order: 20E1498
550 East 6th Street	Sub Project: Beaumont GMZ	Received: 05/20/20 08:50
Beaumont CA, 92223	Project Manager: Thaxton Van Belle	Reported: 06/01/20

Dowling Orchard **20E1498-11 (Water)** **Sample Date:** 05/19/20 16:08 **Sampler:** C. Hunter

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
General Chemical Analyses									
Alkalinity, Total (as CaCO3)	SM 2320 B	**240**	mg/L	5.0		05/28/20	05/28/20	2021071	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	05/26/20	05/26/20	2022015	
Bicarbonate (HCO3)	SM 2320 B	**290**	mg/L	5.0		05/28/20	05/28/20	2021071	
Carbonate (CO3)	SM 2320B	ND	mg/L	5.0		05/28/20	05/28/20	2021071	
Chloride (Cl)	EPA 300.0	**37**	mg/L	1.0	0.075	05/20/20	05/20/20	2021068	
Specific Conductance (E.C.)	SM 2510B	**660**	umhos/cm	2.0	0.20	05/20/20	05/20/20	2021071	
Fluoride (F)	EPA 300.0	**0.32**	mg/L	0.10	0.026	05/20/20	05/20/20	2021068	
Hardness, Total (as CaCO3)	Calculated	**170**	mg/L	6.6		05/28/20	05/28/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		05/28/20	05/28/20	2021071	
Inorganic Nitrogen	Calculated	**5.1**	mg/L	1.3		05/26/20	05/26/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	**5.1**	mg/L	0.40	0.12	05/20/20	05/20/20	2021068	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	05/20/20	05/20/20	2021068	
pH (Lab)	SM 4500HB	**8.0**	pH Units			05/20/20	05/20/20	2021071	
Sulfate (SO4)	EPA 300.0	**33**	mg/L	0.50	0.14	05/20/20	05/20/20	2021068	
Total Filterable Residue/TDS	SM 2540C	**370**	mg/L	5.0	3.1	05/21/20	05/22/20	2021110	
Metals									
Calcium (Ca)	EPA 200.7	**41**	mg/L	1.0	0.080	05/28/20	05/28/20	2022095	
Magnesium (Mg)	EPA 200.7	**18**	mg/L	1.0	0.51	05/28/20	05/28/20	2022095	
Potassium (K)	EPA 200.7	**4.2**	mg/L	1.0	0.18	05/28/20	05/28/20	2022095	
Silica (SiO2)	EPA 200.7	**18**	mg/L	0.50	0.018	05/26/20	05/26/20	2022026	
Sodium (Na)	EPA 200.7	**61**	mg/L	1.0	0.21	05/28/20	05/28/20	2022095	

Stu Styles
Client Services Manager

Post Office Box 329 San Bernardino, CA 92402 (909) 825-7693 Fax (909) 825-7696 ELAP Number 1088

Beaumont, City of	Project: Maximum Benefit-Surface Water	Work Order: 20E1498
550 East 6th Street	Sub Project: Beaumont GMZ	Received: 05/20/20 08:50
Beaumont CA, 92223	Project Manager: Thaxton Van Belle	Reported: 06/01/20

Joe Pistilli **20E1498-12 (Water)** **Sample Date:** 05/19/20 17:00 **Sampler:** C. Hunter

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
General Chemical Analyses									
Alkalinity, Total (as CaCO3)	SM 2320 B	**130**	mg/L	5.0		05/28/20	05/28/20	2021071	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	05/29/20	05/29/20	2022118	
Bicarbonate (HCO3)	SM 2320 B	**150**	mg/L	5.0		05/28/20	05/28/20	2021071	
Carbonate (CO3)	SM 2320B	ND	mg/L	5.0		05/28/20	05/28/20	2021071	
Chloride (Cl)	EPA 300.0	**15**	mg/L	1.0	0.075	05/20/20	05/20/20	2021068	
Specific Conductance (E.C.)	SM 2510B	**420**	umhos/cm	2.0	0.20	05/20/20	05/20/20	2021071	
Fluoride (F)	EPA 300.0	**0.39**	mg/L	0.10	0.026	05/20/20	05/20/20	2021068	
Hardness, Total (as CaCO3)	Calculated	**160**	mg/L	6.6		05/28/20	05/28/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		05/28/20	05/28/20	2021071	
Inorganic Nitrogen	Calculated	**13**	mg/L	1.3		05/29/20	05/29/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	**13**	mg/L	0.40	0.12	05/20/20	05/20/20	2021068	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	05/20/20	05/20/20	2021068	
pH (Lab)	SM 4500HB	**8.1**	pH Units			05/20/20	05/20/20	2021071	
Sulfate (SO4)	EPA 300.0	**9.9**	mg/L	0.50	0.14	05/20/20	05/20/20	2021068	
Total Filterable Residue/TDS	SM 2540C	**260**	mg/L	5.0	3.1	05/22/20	05/26/20	2021155	
Metals									
Calcium (Ca)	EPA 200.7	**51**	mg/L	1.0	0.080	05/28/20	05/28/20	2022095	
Magnesium (Mg)	EPA 200.7	**8.8**	mg/L	1.0	0.51	05/28/20	05/28/20	2022095	
Potassium (K)	EPA 200.7	**1.5**	mg/L	1.0	0.18	05/28/20	05/28/20	2022095	
Silica (SiO2)	EPA 200.7	**27**	mg/L	0.50	0.018	05/26/20	05/26/20	2022026	
Sodium (Na)	EPA 200.7	**24**	mg/L	1.0	0.21	05/28/20	05/28/20	2022095	

Stu Styles
Client Services Manager

Post Office Box 329 San Bernardino, CA 92402 (909) 825-7693 Fax (909) 825-7696 ELAP Number 1088

Beaumont, City of	Project: Maximum Benefit-Surface Water	Work Order: 20E1498
550 East 6th Street	Sub Project: Beaumont GMZ	Received: 05/20/20 08:50
Beaumont CA, 92223	Project Manager: Thaxton Van Belle	Reported: 06/01/20

Heartland **20E1498-13 (Water)** **Sample Date:** 05/18/20 17:45 **Sampler:** C. Hunter

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
General Chemical Analyses									
Alkalinity, Total (as CaCO3)	SM 2320 B	**220**	mg/L	5.0		05/28/20	05/28/20	2021071	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	05/29/20	05/29/20	2022118	
Bicarbonate (HCO3)	SM 2320 B	**260**	mg/L	5.0		05/28/20	05/28/20	2021071	
Carbonate (CO3)	SM 2320B	ND	mg/L	5.0		05/28/20	05/28/20	2021071	
Chloride (Cl)	EPA 300.0	**62**	mg/L	1.0	0.075	05/20/20	05/20/20	2021068	
Specific Conductance (E.C.)	SM 2510B	**660**	umhos/cm	2.0	0.20	05/20/20	05/20/20	2021071	
Fluoride (F)	EPA 300.0	**0.43**	mg/L	0.10	0.026	05/20/20	05/20/20	2021068	
Hardness, Total (as CaCO3)	Calculated	**210**	mg/L	6.6		05/28/20	05/28/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		05/28/20	05/28/20	2021071	
Inorganic Nitrogen	Calculated	ND	mg/L	1.3		05/29/20	05/29/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	**0.85**	mg/L	0.40	0.12	05/20/20	05/20/20	2021068	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	05/20/20	05/20/20	2021068	
pH (Lab)	SM 4500HB	**8.1**	pH Units			05/20/20	05/20/20	2021071	
Sulfate (SO4)	EPA 300.0	**32**	mg/L	0.50	0.14	05/20/20	05/20/20	2021068	
Total Filterable Residue/TDS	SM 2540C	**380**	mg/L	5.0	3.1	05/22/20	05/26/20	2021155	
Metals									
Calcium (Ca)	EPA 200.7	**58**	mg/L	1.0	0.080	05/28/20	05/28/20	2022095	
Magnesium (Mg)	EPA 200.7	**16**	mg/L	1.0	0.51	05/28/20	05/28/20	2022095	
Potassium (K)	EPA 200.7	**1.8**	mg/L	1.0	0.18	05/28/20	05/28/20	2022095	
Silica (SiO2)	EPA 200.7	**24**	mg/L	0.50	0.018	05/26/20	05/26/20	2022026	
Sodium (Na)	EPA 200.7	**62**	mg/L	1.0	0.21	05/28/20	05/28/20	2022095	

Stu Styles
Client Services Manager

Post Office Box 329 San Bernardino, CA 92402 (909) 825-7693 Fax (909) 825-7696 ELAP Number 1088

Beaumont, City of	Project: Maximum Benefit-Surface Water	Work Order: 20E1498
550 East 6th Street	Sub Project: Beaumont GMZ	Received: 05/20/20 08:50
Beaumont CA, 92223	Project Manager: Thaxton Van Belle	Reported: 06/01/20

Oak Valley 2 **20E1498-14 (Water)** **Sample Date:** 05/20/20 6:30 **Sampler:** C. Hunter

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
General Chemical Analyses									
Alkalinity, Total (as CaCO3)	SM 2320 B	**150**	mg/L	5.0		05/28/20	05/28/20	2021071	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	05/29/20	05/29/20	2022118	
Bicarbonate (HCO3)	SM 2320 B	**180**	mg/L	5.0		05/28/20	05/28/20	2021071	
Carbonate (CO3)	SM 2320B	ND	mg/L	5.0		05/28/20	05/28/20	2021071	
Chloride (Cl)	EPA 300.0	**7.3**	mg/L	1.0	0.075	05/20/20	05/20/20	2021068	
Specific Conductance (E.C.)	SM 2510B	**340**	umhos/cm	2.0	0.20	05/20/20	05/20/20	2021071	
Fluoride (F)	EPA 300.0	**0.46**	mg/L	0.10	0.026	05/20/20	05/20/20	2021068	
Hardness, Total (as CaCO3)	Calculated	**140**	mg/L	6.6		05/28/20	05/28/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		05/28/20	05/28/20	2021071	
Inorganic Nitrogen	Calculated	**2.5**	mg/L	1.3		05/29/20	05/29/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	**2.5**	mg/L	0.40	0.12	05/20/20	05/20/20	2021068	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	05/20/20	05/20/20	2021068	
pH (Lab)	SM 4500HB	**8.0**	pH Units			05/20/20	05/20/20	2021071	
Sulfate (SO4)	EPA 300.0	**7.6**	mg/L	0.50	0.14	05/20/20	05/20/20	2021068	
Total Filterable Residue/TDS	SM 2540C	**190**	mg/L	5.0	3.1	05/22/20	05/26/20	2021155	
Metals									
Calcium (Ca)	EPA 200.7	**38**	mg/L	1.0	0.080	05/28/20	05/28/20	2022095	
Magnesium (Mg)	EPA 200.7	**11**	mg/L	1.0	0.51	05/28/20	05/28/20	2022095	
Potassium (K)	EPA 200.7	**1.6**	mg/L	1.0	0.18	05/28/20	05/28/20	2022095	
Silica (SiO2)	EPA 200.7	**29**	mg/L	0.50	0.018	05/26/20	05/26/20	2022026	
Sodium (Na)	EPA 200.7	**21**	mg/L	1.0	0.21	05/28/20	05/28/20	2022095	

J Detected below the Reporting Limit; reported concentration is estimated; (J-Flag)

pH (Lab) was analyzed ASAP but received and analyzed past the 15 minute hold time.

ND Analyte NOT DETECTED at or above the MDL; Method Detection Limit

Stu Styles
Client Services Manager

Post Office Box 329 San Bernardino, CA 92402 (909) 825-7693 Fax (909) 825-7696 ELAP Number 1088

0/0/14

Clinical Lab of San Bernardino, Inc. — Chain of Custody

WO 20E1498

21881 Barton Road Grand Terrace CA 92313 909 825-7693 / 516-A N 8th St. Lompoc CA 93436 805 737-7300

Client	City of Beaumont
Address:	550 E. 6th St.
	Beaumont, CA 92223
Client Contact:	Thaxton VanBelle
Phone No.:	951-769-8520 FAX No.: 951-769-8526
System No.:	
Project:	Max Benefits - Beaumont GMZ
Sampled By:	C. Hunter
Comments:	

Email results to: TVanBelle@beaumontca.gov, ckhunter@dudek.com, sstuart@dudek.com

Destination Laboratory

[X] Clinical Grand Terrace / ELAP 1088
[ ] Clinical Lompoc / ELAP 1678
[ ] Other:

Date	Time	Sample Identification	Container ID	Matrix	Sample Type	No. of Preserved Cont. Unpreserved	Na2S2O3	NH4Cl	C6H8O6	HNO3	HCl	NaOH	Na2SO3	ZnC4H6O4	ChlorAC	Total Containers	Total Dissolved Solids (SM 2540C)	Nitrate-N (EPA 300.0)	Nitrite-N (EPA 300.0)	Ammonia-N (EPA 350.1)	Alkalinity (inc. HCO3, CO3, and OH	Ca, Mg, K, Na (EPA 200.7)	Sulfate (EPA 300.0)	Specific Conductance (SM 2510B)	pH (SM 4500H+B)	Chloride (EPA 300.0)	Fluoride (EPA 300.0)	Silica (EPA 200.7)	Comments	Turn Around Time (TAT)
5/15/20	14:30	San Tim - 1	STI	GW		X										2	X	X	X	X	X	X	X	X	X	X	X	X		10
"	14:00	San Tim 2B-1	2B1	GW		X										2	X	X	X	X	X	X	X	X	X	X	X	X		10
"	14:08	San Tim 2B-2	2B2	GW		X										2	X	X	X	X	X	X	X	X	X	X	X	X		10
"	15:13	Henry Schwenkert	HS	GW		X										2	X	X	X	X	X	X	X	X	X	X	X	X		10
5/19/20	11:25	CVMWC 1	CVM	GW		X										2	X	X	X	X	X	X	X	X	X	X	X	X		10
"	11:50	Cherry Valley Nursery	CVN	GW		X										2	X	X	X	X	X	X	X	X	X	X	X	X		10
"	12:50	Oak Valley Office	OVO	GW		X										2	X	X	X	X	X	X	X	X	X	X	X	X		10

Matrix: DW - Drinking Water GW - Ground Water SW - Surface Water W - Water WW - Wastewater SWR - Stormwater Runoff S - Sludge O - Other _____

Use for Bacteria Samples / Sample Type: 1-Routine 2-Repeat 3-Replacement 4-Special D-Distribution W-Well

TAT: (10) Ten Day (5) Five Day Rush (2) Two Day Rush

Relinquished By (Sign)	Print Name / Company	Date / Time	Received By (Sign)	Print Name / Company
	C Hunter / Dudek	5/19/20 17:40		
		5/20/2020 820		
	S Stuart / CUSB	5/20/2020 850		S Stuart / CUSB

(Lab Use Only) Lompoc Lab Receipt Temp.: _____ °C

Shipped Via: [ ] Fed Ex [ ] Golden State Overnight [ ] UPS [ ] OnTrac [ ] USPS [ ] Other _____

Condition: [X] On Wet Ice [ ] On Blu Ice [X] Intact [ ] Custody Seals Samples / COC Checked By: _____ Work Order Logged By: _____

Receipt Comments: Clinical Lab Receipt Temp.: 4.1 °C

0/0/14

Clinical Lab of San Bernardino, Inc. Chain of Custody

WO _____

21881 Barton Road Grand Terrace CA 92313 909 825-7693 / 516-A N 8th St. Lompoc CA 93436 805 737-7300

Client	City of Beaumont
Address:	550 E. 6th St.
	Beaumont, CA 92223
Client Contact:	Thaxton VanBelle
Phone No.:	951-769-8520 FAX No.: 951-769-8526
System No.:	
Project:	Max Benefits - Beaumont GMZ
Sampled By:	C. Hunter
Comments:	

Email results to: TVanBelle@beaumontca.gov, ckhunter@dudek.com, sstuart@dudek.com

Destination Laboratory

[X] Clinical Grand Terrace / ELAP 1088
[ ] Clinical Lompoc / ELAP 1678
[ ] Other:

Date	Time	Sample Identification	Container ID	Matrix	Sample Type	No. of Preserved Cont. Unpreserved	Na2S2O3	NH4Cl	C6H8O6	HNO3	HCl	NaOH	Na2SO3	ZnC4H6O4	ChlorAC	Total Containers	Total Dissolved Solids (SM 2540C)	Nitrate-N (EPA 300.0)	Nitrite-N (EPA 300.0)	Ammonia-N (EPA 350.1)	Alkalinity (inc. HCO3, CO3, and OH	Ca, Mg, K, Na (EPA 200.7)	Sulfate (EPA 300.0)	Specific Conductance (SM 2510B)	pH (SM 4500H+B)	Chloride (EPA 300.0)	Fluoride (EPA 300.0)	Silica (EPA 200.7)	Comments	Turn Around Time (TAT)
5/19/20	13:15	Singleton Ranch 7	SR7	GW		X										2	X	X	X	X	X	X	X	X	X	X	X	X		10
	15:00	Beaumont Cemetery	BC	GW		X										2	X	X	X	X	X	X	X	X	X	X	X	X		10
	15:30	George Wilke	GW	GW		X										2	X	X	X	X	X	X	X	X	X	X	X	X		10
	16:02	Dowling Orchard	DO	GW		X										2	X	X	X	X	X	X	X	X	X	X	X	X		10
	17:00	Joe Pistilli	JP	GW		X										2	X	X	X	X	X	X	X	X	X	X	X	X		10
5/18/20	17:45	Heartland	HL	GW		X										2	X	X	X	X	X	X	X	X	X	X	X	X		10
5/20/20	06:30	Oak Valley 2	OV2	GW		X										2	X	X	X	X	X	X	X	X	X	X	X	X		10

Matrix: DW - Drinking Water GW - Ground Water SW - Surface Water W - Water WW - Wastewater SWR - Stormwater Runoff S - Sludge O - Other _____

Use for Bacteria Samples / Sample Type: 1-Routine 2-Repeat 3-Replacement 4-Special D-Distribution W-Well

TAT: (10) Ten Day (5) Five Day Rush (2) Two Day Rush

Relinquished By (Sign)	Print Name / Company	Date / Time	Received By (Sign)	Print Name / Company
	C. Hunter / Dudek	5/19/20 18:00		
		5/20/2020 - 820		SM Stykes / CLSB
	SM Stykes / CLSB	5/20/2020 - 850		CHA CLSB

(Lab Use Only) Lompoc Lab Receipt Temp.: _____ °C

Shipped Via: [ ] Fed Ex [ ] Golden State Overnight [ ] UPS [ ] OnTrac [ ] USPS [ ] Other _____

Condition: [X] On Wet Ice [ ] On Blu Ice [X] Intact [ ] Custody Seals Samples / COC Checked By: _____ Work Order Logged By: _____

Receipt Comments: Clinical Lab Receipt Temp.: 4.1 °C

Beaumont, City of	Project: Maximum Benefit-Surface Water	Work Order: 20E1630
550 East 6th Street	Sub Project: Beaumont GMZ	Received: 05/21/20 10:00
Beaumont CA, 92223	Project Manager: Thaxton Van Belle	Reported: 06/02/20

Morongo A **20E1630-01 (Water)** **Sample Date:** 05/20/20 8:00 **Sampler:** C. Hunter

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
General Chemical Analyses									
Alkalinity, Total (as CaCO3)	SM 2320 B	**120**	mg/L	5.0		05/29/20	05/29/20	2021113	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	05/29/20	05/29/20	2022118	
Bicarbonate (HCO3)	SM 2320 B	**130**	mg/L	5.0		05/29/20	05/29/20	2021113	
Carbonate (CO3)	SM 2320B	**8.6**	mg/L	5.0		05/29/20	05/29/20	2021113	
Chloride (Cl)	EPA 300.0	**14**	mg/L	1.0	0.075	05/21/20	05/21/20	2021118	
Specific Conductance (E.C.)	SM 2510B	**300**	umhos/cm	2.0	0.20	05/21/20	05/21/20	2021113	
Fluoride (F)	EPA 300.0	**0.76**	mg/L	0.10	0.026	05/21/20	05/21/20	2021118	
Hardness, Total (as CaCO3)	Calculated	**31**	mg/L	6.6		05/28/20	05/28/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		05/29/20	05/29/20	2021113	
Inorganic Nitrogen	Calculated	**1.5**	mg/L	1.3		05/29/20	05/29/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	**1.5**	mg/L	0.40	0.12	05/21/20	05/21/20	2021118	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	05/21/20	05/21/20	2021118	
pH (Lab)	SM 4500HB	**9.0**	pH Units			05/21/20	05/21/20	2021113	
Sulfate (SO4)	EPA 300.0	**4.4**	mg/L	0.50	0.14	05/21/20	05/21/20	2021118	
Total Filterable Residue/TDS	SM 2540C	**180**	mg/L	5.0	3.1	05/22/20	05/26/20	2021155	
Metals									
Calcium (Ca)	EPA 200.7	**8.5**	mg/L	1.0	0.080	05/28/20	05/28/20	2022095	
Magnesium (Mg)	EPA 200.7	**2.3**	mg/L	1.0	0.51	05/28/20	05/28/20	2022095	
Potassium (K)	EPA 200.7	**0.89**	mg/L	1.0	0.18	05/28/20	05/28/20	2022095	J
Silica (SiO2)	EPA 200.7	**16**	mg/L	0.50	0.018	05/26/20	05/26/20	2022026	
Sodium (Na)	EPA 200.7	**58**	mg/L	1.0	0.21	05/28/20	05/28/20	2022095	

Stu Styles
Client Services Manager

Post Office Box 329 San Bernardino, CA 92402 (909) 825-7693 Fax (909) 825-7696 ELAP Number 1088

Beaumont, City of	Project: Maximum Benefit-Surface Water	Work Order: 20E1630
550 East 6th Street	Sub Project: Beaumont GMZ	Received: 05/21/20 10:00
Beaumont CA, 92223	Project Manager: Thaxton Van Belle	Reported: 06/02/20

Morongo D **20E1630-02 (Water)** **Sample Date:** 05/20/20 8:30 **Sampler:** C. Hunter

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
General Chemical Analyses									
Alkalinity, Total (as CaCO3)	SM 2320 B	**160**	mg/L	5.0		05/29/20	05/29/20	2021113	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	05/29/20	05/29/20	2022118	
Bicarbonate (HCO3)	SM 2320 B	**190**	mg/L	5.0		05/29/20	05/29/20	2021113	
Carbonate (CO3)	SM 2320B	ND	mg/L	5.0		05/29/20	05/29/20	2021113	
Chloride (Cl)	EPA 300.0	**8.3**	mg/L	1.0	0.075	05/21/20	05/21/20	2021118	
Specific Conductance (E.C.)	SM 2510B	**350**	umhos/cm	2.0	0.20	05/21/20	05/21/20	2021113	
Fluoride (F)	EPA 300.0	**0.58**	mg/L	0.10	0.026	05/21/20	05/21/20	2021118	
Hardness, Total (as CaCO3)	Calculated	**140**	mg/L	6.6		05/28/20	05/28/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		05/29/20	05/29/20	2021113	
Inorganic Nitrogen	Calculated	**2.4**	mg/L	1.3		05/29/20	05/29/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	**2.4**	mg/L	0.40	0.12	05/21/20	05/21/20	2021118	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	05/21/20	05/21/20	2021118	
pH (Lab)	SM 4500HB	**8.0**	pH Units			05/21/20	05/21/20	2021113	
Sulfate (SO4)	EPA 300.0	**7.3**	mg/L	0.50	0.14	05/21/20	05/21/20	2021118	
Total Filterable Residue/TDS	SM 2540C	**210**	mg/L	5.0	3.1	05/22/20	05/26/20	2021155	
Metals									
Calcium (Ca)	EPA 200.7	**33**	mg/L	1.0	0.080	05/28/20	05/28/20	2022095	
Magnesium (Mg)	EPA 200.7	**15**	mg/L	1.0	0.51	05/28/20	05/28/20	2022095	
Potassium (K)	EPA 200.7	**1.2**	mg/L	1.0	0.18	05/28/20	05/28/20	2022095	
Silica (SiO2)	EPA 200.7	**31**	mg/L	0.50	0.018	05/26/20	05/26/20	2022026	
Sodium (Na)	EPA 200.7	**22**	mg/L	1.0	0.21	05/28/20	05/28/20	2022095	

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Beaumont, City of	Project: Maximum Benefit-Surface Water	Work Order: 20E1630
550 East 6th Street	Sub Project: Beaumont GMZ	Received: 05/21/20 10:00
Beaumont CA, 92223	Project Manager: Thaxton Van Belle	Reported: 06/02/20

MCM Poultry Ranch **20E1630-03 (Water)** **Sample Date:** 05/20/20 9:30 **Sampler:** C. Hunter

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
General Chemical Analyses									
Alkalinity, Total (as CaCO3)	SM 2320 B	**280**	mg/L	5.0		05/29/20	05/29/20	2021113	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	05/29/20	05/29/20	2022118	
Bicarbonate (HCO3)	SM 2320 B	**340**	mg/L	5.0		05/29/20	05/29/20	2021113	
Carbonate (CO3)	SM 2320B	ND	mg/L	5.0		05/29/20	05/29/20	2021113	
Chloride (Cl)	EPA 300.0	**190**	mg/L	1.0	0.075	05/21/20	05/21/20	2021118	
Specific Conductance (E.C.)	SM 2510B	**1300**	umhos/cm	2.0	0.20	05/21/20	05/21/20	2021113	
Fluoride (F)	EPA 300.0	**0.39**	mg/L	0.10	0.026	05/21/20	05/21/20	2021118	
Hardness, Total (as CaCO3)	Calculated	**440**	mg/L	17		05/28/20	05/28/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		05/29/20	05/29/20	2021113	
Inorganic Nitrogen	Calculated	**16**	mg/L	1.3		05/29/20	05/29/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	**16**	mg/L	0.40	0.12	05/21/20	05/21/20	2021118	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	05/21/20	05/21/20	2021118	
pH (Lab)	SM 4500HB	**8.0**	pH Units			05/21/20	05/21/20	2021113	
Sulfate (SO4)	EPA 300.0	**41**	mg/L	0.50	0.14	05/21/20	05/21/20	2021118	
Total Filterable Residue/TDS	SM 2540C	**780**	mg/L	5.0	3.1	05/22/20	05/26/20	2021155	
Metals									
Calcium (Ca)	EPA 200.7	**110**	mg/L	5.0	0.40	05/28/20	05/28/20	2022095	
Magnesium (Mg)	EPA 200.7	**39**	mg/L	1.0	0.51	05/28/20	05/28/20	2022095	
Potassium (K)	EPA 200.7	**4.2**	mg/L	1.0	0.18	05/28/20	05/28/20	2022095	
Silica (SiO2)	EPA 200.7	**28**	mg/L	0.50	0.018	05/26/20	05/26/20	2022026	
Sodium (Na)	EPA 200.7	**93**	mg/L	1.0	0.21	05/28/20	05/28/20	2022095	

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Beaumont, City of	Project: Maximum Benefit-Surface Water	Work Order: 20E1630
550 East 6th Street	Sub Project: Beaumont GMZ	Received: 05/21/20 10:00
Beaumont CA, 92223	Project Manager: Thaxton Van Belle	Reported: 06/02/20

Desert Lawn Funeral **20E1630-04 (Water)** **Sample Date:** 05/20/20 10:30 **Sampler:** C. Hunter

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
General Chemical Analyses									
Alkalinity, Total (as CaCO3)	SM 2320 B	**180**	mg/L	5.0		05/29/20	05/29/20	2021113	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	05/29/20	05/29/20	2022118	
Bicarbonate (HCO3)	SM 2320 B	**220**	mg/L	5.0		05/29/20	05/29/20	2021113	
Carbonate (CO3)	SM 2320B	ND	mg/L	5.0		05/29/20	05/29/20	2021113	
Chloride (Cl)	EPA 300.0	**6.9**	mg/L	1.0	0.075	05/21/20	05/21/20	2021118	
Specific Conductance (E.C.)	SM 2510B	**390**	umhos/cm	2.0	0.20	05/21/20	05/21/20	2021113	
Fluoride (F)	EPA 300.0	**0.41**	mg/L	0.10	0.026	05/21/20	05/21/20	2021118	
Hardness, Total (as CaCO3)	Calculated	**180**	mg/L	6.6		05/28/20	05/28/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		05/29/20	05/29/20	2021113	
Inorganic Nitrogen	Calculated	**1.4**	mg/L	1.3		05/29/20	05/29/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	**1.4**	mg/L	0.40	0.12	05/21/20	05/21/20	2021118	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	05/21/20	05/21/20	2021118	
pH (Lab)	SM 4500HB	**8.0**	pH Units			05/21/20	05/21/20	2021113	
Sulfate (SO4)	EPA 300.0	**11**	mg/L	0.50	0.14	05/21/20	05/21/20	2021118	
Total Filterable Residue/TDS	SM 2540C	**240**	mg/L	5.0	3.1	05/22/20	05/26/20	2021155	
Metals									
Calcium (Ca)	EPA 200.7	**44**	mg/L	1.0	0.080	05/28/20	05/28/20	2022095	
Magnesium (Mg)	EPA 200.7	**16**	mg/L	1.0	0.51	05/28/20	05/28/20	2022095	
Potassium (K)	EPA 200.7	**1.8**	mg/L	1.0	0.18	05/28/20	05/28/20	2022095	
Silica (SiO2)	EPA 200.7	**30**	mg/L	0.50	0.018	05/26/20	05/26/20	2022026	
Sodium (Na)	EPA 200.7	**17**	mg/L	1.0	0.21	05/28/20	05/28/20	2022095	

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Beaumont, City of	Project: Maximum Benefit-Surface Water	Work Order: 20E1630
550 East 6th Street	Sub Project: Beaumont GMZ	Received: 05/21/20 10:00
Beaumont CA, 92223	Project Manager: Thaxton Van Belle	Reported: 06/02/20

Larry Britton **20E1630-05 (Water)** **Sample Date:** 05/20/20 11:30 **Sampler:** C. Hunter

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
General Chemical Analyses									
Alkalinity, Total (as CaCO3)	SM 2320 B	**180**	mg/L	5.0		05/29/20	05/29/20	2021113	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	05/29/20	05/29/20	2022118	
Bicarbonate (HCO3)	SM 2320 B	**220**	mg/L	5.0		05/29/20	05/29/20	2021113	
Carbonate (CO3)	SM 2320B	ND	mg/L	5.0		05/29/20	05/29/20	2021113	
Chloride (Cl)	EPA 300.0	**6.7**	mg/L	1.0	0.075	05/21/20	05/21/20	2021118	
Specific Conductance (E.C.)	SM 2510B	**370**	umhos/cm	2.0	0.20	05/21/20	05/21/20	2021113	
Fluoride (F)	EPA 300.0	**0.37**	mg/L	0.10	0.026	05/21/20	05/21/20	2021118	
Hardness, Total (as CaCO3)	Calculated	**170**	mg/L	6.6		05/28/20	05/28/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		05/29/20	05/29/20	2021113	
Inorganic Nitrogen	Calculated	**1.7**	mg/L	1.3		05/29/20	05/29/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	**1.7**	mg/L	0.40	0.12	05/21/20	05/21/20	2021118	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	05/21/20	05/21/20	2021118	
pH (Lab)	SM 4500HB	**8.0**	pH Units			05/21/20	05/21/20	2021113	
Sulfate (SO4)	EPA 300.0	**8.7**	mg/L	0.50	0.14	05/21/20	05/21/20	2021118	
Total Filterable Residue/TDS	SM 2540C	**230**	mg/L	5.0	3.1	05/22/20	05/26/20	2021155	
Metals									
Calcium (Ca)	EPA 200.7	**40**	mg/L	1.0	0.080	05/28/20	05/28/20	2022095	
Magnesium (Mg)	EPA 200.7	**16**	mg/L	1.0	0.51	05/28/20	05/28/20	2022095	
Potassium (K)	EPA 200.7	**1.6**	mg/L	1.0	0.18	05/28/20	05/28/20	2022095	
Silica (SiO2)	EPA 200.7	**29**	mg/L	0.50	0.018	05/26/20	05/26/20	2022026	
Sodium (Na)	EPA 200.7	**20**	mg/L	1.0	0.21	05/28/20	05/28/20	2022095	

J Detected below the Reporting Limit; reported concentration is estimated; (J-Flag)

pH (Lab) was analyzed ASAP but received and analyzed past the 15 minute hold time.

ND Analyte NOT DETECTED at or above the MDL; Method Detection Limit

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0/0/10

WO 20E1630

Clinical Lab of San Bernardino, Inc. Chain of Custody

21881 Barton Road Grand Terrace CA 92313 909 825-7693 / 516-A N 8th St. Lompoc CA 93436 805 737-7300

Client	City of Beaumont
Address:	550 E. 6th St.
	Beaumont, CA 92223
Client Contact:	Thaxton VanBelle
Phone No.:	951-769-8520 FAX No.: 951-769-8526
System No.:	
Project:	Max Benefits - Beaumont GMZ
Sampled By:	C Hunter
Comments:	

Email results to: TVanBelle@beaumontca.gov, ckhunter@dudek.com, sstuart@dudek.com

Destination Laboratory

[X] Clinical Grand Terrace / ELAP 1088
[ ] Clinical Lompoc / ELAP 1678
[ ] Other:

Date	Time	Sample Identification	Container ID	Matrix	Sample Type	No. of Preserved Cont. Unpreserved	Na2S2O3	NH4Cl	C6H8O6	HNO3	HCl	NaOH	Na2SO3	ZnC4H6O4	ChlorAC	Total Containers	Total Dissolved Solids (SM 2540C)	Nitrate-N (EPA 300.0)	Nitrite-N (EPA 300.0)	Ammonia-N (EPA 350.1)	Alkalinity (inc. HCO3, CO3, and OH	Ca, Mg, K, Na (EPA 200.7)	Sulfate (EPA 300.0)	Specific Conductance (SM 2510B)	pH (SM 4500H+B)	Chloride (EPA 300.0)	Fluoride (EPA 300.0)	Silica (EPA 200.7)	Comments	Turn Around Time (TAT)
5/20/20	8:00	Morongo A	MA	GW		X										2	X	X	X	X	X	X	X	X	X	X	X	X		10
	8:30	Morongo D	MD	GW		X										2	X	X	X	X	X	X	X	X	X	X	X	X		10
	9:30	McM Realty Ranch	MCM	GW		X										2	X	X	X	X	X	X	X	X	X	X	X	X		10
	10:30	Desert Lawn Funeral	DL	GW		X										2	X	X	X	X	X	X	X	X	X	X	X	X		10
	11:30	Larry Britton	LB	GW		X										2	X	X	X	X	X	X	X	X	X	X	X	X		10
				~~GW~~		~~X~~											~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~		~~10~~
				~~GW~~		~~X~~											~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~		~~10~~

Matrix: DW - Drinking Water GW - Ground Water SW - Surface Water W - Water WW - Wastewater SWR - Stormwater Runoff S - Sludge O - Other

Use for Bacteria Samples / Sample Type: 1-Routine 2-Repeat 3-Replacement 4-Special D-Distribution W-Well

TAT: (10) Ten Day (5) Five Day Rush (2) Two Day Rush

Relinquished By (Sign)	Print Name / Company	Date / Time	Received By (Sign)	Print Name / Company
C Hunter	C. Hunter / Dudek	5/20/20 13.00		
		5/21/2020-825		SStyles/CUSB
	SStyles/CUSB	5/21/2020-1000		CUSB

(Lab Use Only) Lompoc Lab Receipt Temp.: _____ °C

Shipped Via: [ ] Fed Ex [ ] Golden State Overnight [ ] UPS [ ] OnTrac [ ] USPS [ ] Other _____

Condition: [X] On Wet Ice [ ] On Blu Ice [X] Intact [ ] Custody Seals Samples / COC Checked By: _____ Work Order Logged By: _____

Receipt Comments: Clinical Lab Receipt Temp.: 0.8 °C

Beaumont, City of	Project: Maximum Benefit-Surface Water	Work Order: 20K1074
550 East 6th Street	Sub Project: Beaumont GMZ	Received: 11/11/20 15:26
Beaumont CA, 92223	Project Manager: Thaxton Van Belle	Reported: 11/23/20

Henry Schwenkert **20K1074-01 (Water)** **Sample Date:** 11/10/20 11:30 **Sampler:** Not Listed

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
General Chemical Analyses									
Alkalinity, Total (as CaCO3)	SM 2320 B	**360**	mg/L	5.0		11/18/20	11/18/20	2046073	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	11/17/20	11/18/20	2047038	
Bicarbonate (HCO3)	SM 2320 B	**440**	mg/L	5.0		11/18/20	11/18/20	2046073	
Carbonate (CO3)	SM 2320B	ND	mg/L	5.0		11/18/20	11/18/20	2046073	
Chloride (Cl)	EPA 300.0	**100**	mg/L	1.0	0.075	11/11/20	11/11/20	2046074	
Specific Conductance (E.C.)	SM 2510B	**1300**	umhos/cm	2.0	0.20	11/11/20	11/11/20	2046073	
Fluoride (F)	EPA 300.0	**0.46**	mg/L	0.10	0.026	11/11/20	11/11/20	2046074	
Hardness, Total (as CaCO3)	Calculated	**120**	mg/L	6.6		11/18/20	11/18/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		11/18/20	11/18/20	2046073	
Inorganic Nitrogen	Calculated	**26**	mg/L	1.3		11/17/20	11/18/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	**26**	mg/L	0.40	0.12	11/11/20	11/11/20	2046074	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	11/11/20	11/11/20	2046074	
pH (Lab)	SM 4500HB	**8.0**	pH Units			11/11/20	11/11/20	2046073	
Sulfate (SO4)	EPA 300.0	**67**	mg/L	0.50	0.14	11/11/20	11/11/20	2046074	
Total Filterable Residue/TDS	SM 2540C	**760**	mg/L	5.0	3.1	11/13/20	11/14/20	2046156	
Metals									
Calcium (Ca)	EPA 200.7	**41**	mg/L	1.0	0.080	11/18/20	11/18/20	2047063	
Magnesium (Mg)	EPA 200.7	**4.5**	mg/L	1.0	0.51	11/18/20	11/18/20	2047063	
Potassium (K)	EPA 200.7	**0.77**	mg/L	1.0	0.18	11/18/20	11/18/20	2047063	J
Silica (SiO2)	EPA 200.7	**23**	mg/L	0.50	0.018	11/13/20	11/13/20	2046155	
Sodium (Na)	EPA 200.7	**240**	mg/L	5.0	1.1	11/18/20	11/18/20	2047063	

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Beaumont, City of	Project: Maximum Benefit-Surface Water	Work Order: 20K1074
550 East 6th Street	Sub Project: Beaumont GMZ	Received: 11/11/20 15:26
Beaumont CA, 92223	Project Manager: Thaxton Van Belle	Reported: 11/23/20

San Tim-1 **20K1074-02 (Water)** **Sample Date:** 11/10/20 13:00 **Sampler:** Not Listed

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
General Chemical Analyses									
Alkalinity, Total (as CaCO3)	SM 2320 B	**240**	mg/L	5.0		11/18/20	11/18/20	2046073	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	11/17/20	11/18/20	2047038	
Bicarbonate (HCO3)	SM 2320 B	**300**	mg/L	5.0		11/18/20	11/18/20	2046073	
Carbonate (CO3)	SM 2320B	ND	mg/L	5.0		11/18/20	11/18/20	2046073	
Chloride (Cl)	EPA 300.0	**62**	mg/L	1.0	0.075	11/11/20	11/11/20	2046074	
Specific Conductance (E.C.)	SM 2510B	**690**	umhos/cm	2.0	0.20	11/11/20	11/11/20	2046073	
Fluoride (F)	EPA 300.0	**0.56**	mg/L	0.10	0.026	11/11/20	11/11/20	2046074	
Hardness, Total (as CaCO3)	Calculated	**260**	mg/L	6.6		11/18/20	11/18/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		11/18/20	11/18/20	2046073	
Inorganic Nitrogen	Calculated	ND	mg/L	1.3		11/17/20	11/18/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	**0.79**	mg/L	0.40	0.12	11/11/20	11/11/20	2046074	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	11/11/20	11/11/20	2046074	
pH (Lab)	SM 4500HB	**7.6**	pH Units			11/11/20	11/11/20	2046073	
Sulfate (SO4)	EPA 300.0	**35**	mg/L	0.50	0.14	11/11/20	11/11/20	2046074	
Total Filterable Residue/TDS	SM 2540C	**390**	mg/L	5.0	3.1	11/13/20	11/14/20	2046156	
Metals									
Calcium (Ca)	EPA 200.7	**70**	mg/L	1.0	0.080	11/18/20	11/18/20	2047063	
Magnesium (Mg)	EPA 200.7	**20**	mg/L	1.0	0.51	11/18/20	11/18/20	2047063	
Potassium (K)	EPA 200.7	**1.7**	mg/L	1.0	0.18	11/18/20	11/18/20	2047063	
Silica (SiO2)	EPA 200.7	**20**	mg/L	0.50	0.018	11/13/20	11/13/20	2046155	
Sodium (Na)	EPA 200.7	**56**	mg/L	1.0	0.21	11/18/20	11/18/20	2047063	

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Beaumont, City of	Project: Maximum Benefit-Surface Water	Work Order: 20K1074
550 East 6th Street	Sub Project: Beaumont GMZ	Received: 11/11/20 15:26
Beaumont CA, 92223	Project Manager: Thaxton Van Belle	Reported: 11/23/20

San Tim-2B/1 **20K1074-03 (Water)** **Sample Date:** 11/10/20 13:30 **Sampler:** Not Listed

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
General Chemical Analyses									
Alkalinity, Total (as CaCO3)	SM 2320 B	**130**	mg/L	5.0		11/18/20	11/18/20	2046073	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	11/17/20	11/18/20	2047038	
Bicarbonate (HCO3)	SM 2320 B	**150**	mg/L	5.0		11/18/20	11/18/20	2046073	
Carbonate (CO3)	SM 2320B	**5.8**	mg/L	5.0		11/18/20	11/18/20	2046073	
Chloride (Cl)	EPA 300.0	**27**	mg/L	1.0	0.075	11/11/20	11/11/20	2046074	
Specific Conductance (E.C.)	SM 2510B	**390**	umhos/cm	2.0	0.20	11/11/20	11/11/20	2046073	
Fluoride (F)	EPA 300.0	**2.6**	mg/L	0.10	0.026	11/11/20	11/11/20	2046074	
Hardness, Total (as CaCO3)	Calculated	**29**	mg/L	6.6		11/18/20	11/18/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		11/18/20	11/18/20	2046073	
Inorganic Nitrogen	Calculated	ND	mg/L	1.3		11/17/20	11/18/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	**1.0**	mg/L	0.40	0.12	11/11/20	11/11/20	2046074	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	11/11/20	11/11/20	2046074	
pH (Lab)	SM 4500HB	**8.7**	pH Units			11/11/20	11/11/20	2046073	
Sulfate (SO4)	EPA 300.0	**19**	mg/L	0.50	0.14	11/11/20	11/11/20	2046074	
Total Filterable Residue/TDS	SM 2540C	**230**	mg/L	5.0	3.1	11/13/20	11/14/20	2046156	
Metals									
Calcium (Ca)	EPA 200.7	**10**	mg/L	1.0	0.080	11/18/20	11/18/20	2047063	
Magnesium (Mg)	EPA 200.7	**1.0**	mg/L	1.0	0.51	11/18/20	11/18/20	2047063	
Potassium (K)	EPA 200.7	**0.62**	mg/L	1.0	0.18	11/18/20	11/18/20	2047063	J
Silica (SiO2)	EPA 200.7	**18**	mg/L	0.50	0.018	11/19/20	11/19/20	2047100	
Sodium (Na)	EPA 200.7	**80**	mg/L	1.0	0.21	11/18/20	11/18/20	2047063	

Stu Styles
Client Services Manager

Post Office Box 329 San Bernardino, CA 92402 (909) 825-7693 Fax (909) 825-7696 ELAP Number 1088

Beaumont, City of	Project: Maximum Benefit-Surface Water	Work Order: 20K1074
550 East 6th Street	Sub Project: Beaumont GMZ	Received: 11/11/20 15:26
Beaumont CA, 92223	Project Manager: Thaxton Van Belle	Reported: 11/23/20

San Tim-2B/2 **20K1074-04 (Water)** **Sample Date:** 11/10/20 14:00 **Sampler:** Not Listed

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
General Chemical Analyses									
Alkalinity, Total (as CaCO3)	SM 2320 B	**110**	mg/L	5.0		11/18/20	11/18/20	2046073	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	11/17/20	11/18/20	2047038	
Bicarbonate (HCO3)	SM 2320 B	**90**	mg/L	5.0		11/18/20	11/18/20	2046073	
Carbonate (CO3)	SM 2320B	**23**	mg/L	5.0		11/18/20	11/18/20	2046073	
Chloride (Cl)	EPA 300.0	**23**	mg/L	1.0	0.075	11/11/20	11/11/20	2046074	
Specific Conductance (E.C.)	SM 2510B	**360**	umhos/cm	2.0	0.20	11/11/20	11/11/20	2046073	
Fluoride (F)	EPA 300.0	**2.4**	mg/L	0.10	0.026	11/11/20	11/11/20	2046074	
Hardness, Total (as CaCO3)	Calculated	ND	mg/L	6.6		11/18/20	11/18/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		11/18/20	11/18/20	2046073	
Inorganic Nitrogen	Calculated	ND	mg/L	1.3		11/17/20	11/18/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	**1.2**	mg/L	0.40	0.12	11/11/20	11/11/20	2046074	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	11/11/20	11/11/20	2046074	
pH (Lab)	SM 4500HB	**9.3**	pH Units			11/11/20	11/11/20	2046073	
Sulfate (SO4)	EPA 300.0	**18**	mg/L	0.50	0.14	11/11/20	11/11/20	2046074	
Total Filterable Residue/TDS	SM 2540C	**200**	mg/L	5.0	3.1	11/13/20	11/14/20	2046156	
Metals									
Calcium (Ca)	EPA 200.7	**2.1**	mg/L	1.0	0.080	11/18/20	11/18/20	2047063	
Magnesium (Mg)	EPA 200.7	ND	mg/L	1.0	0.51	11/18/20	11/18/20	2047063	
Potassium (K)	EPA 200.7	**0.26**	mg/L	1.0	0.18	11/18/20	11/18/20	2047063	J
Silica (SiO2)	EPA 200.7	**16**	mg/L	0.50	0.018	11/13/20	11/13/20	2046155	
Sodium (Na)	EPA 200.7	**81**	mg/L	1.0	0.21	11/18/20	11/18/20	2047063	

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Beaumont, City of	Project: Maximum Benefit-Surface Water	Work Order: 20K1074
550 East 6th Street	Sub Project: Beaumont GMZ	Received: 11/11/20 15:26
Beaumont CA, 92223	Project Manager: Thaxton Van Belle	Reported: 11/23/20

CC - 01 **20K1074-05 (Water)** **Sample Date:** 11/10/20 15:45 **Sampler:** Not Listed

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
General Chemical Analyses									
Alkalinity, Total (as CaCO3)	SM 2320 B	**150**	mg/L	5.0		11/18/20	11/18/20	2046073	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	11/17/20	11/18/20	2047038	
Bicarbonate (HCO3)	SM 2320 B	**180**	mg/L	5.0		11/18/20	11/18/20	2046073	
Carbonate (CO3)	SM 2320B	ND	mg/L	5.0		11/18/20	11/18/20	2046073	
Chloride (Cl)	EPA 300.0	**56**	mg/L	1.0	0.075	11/11/20	11/11/20	2046074	
Specific Conductance (E.C.)	SM 2510B	**520**	umhos/cm	2.0	0.20	11/11/20	11/11/20	2046073	
Fluoride (F)	EPA 300.0	**0.18**	mg/L	0.10	0.026	11/11/20	11/11/20	2046074	
Hardness, Total (as CaCO3)	Calculated	**120**	mg/L	6.6		11/18/20	11/18/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		11/18/20	11/18/20	2046073	
Inorganic Nitrogen	Calculated	**1.9**	mg/L	1.3		11/17/20	11/18/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	**1.9**	mg/L	0.40	0.12	11/11/20	11/11/20	2046074	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	11/11/20	11/11/20	2046074	
pH (Lab)	SM 4500HB	**8.0**	pH Units			11/11/20	11/11/20	2046073	
Sulfate (SO4)	EPA 300.0	**21**	mg/L	0.50	0.14	11/11/20	11/11/20	2046074	
Total Filterable Residue/TDS	SM 2540C	**350**	mg/L	5.0	3.1	11/14/20	11/16/20	2046176	
Metals									
Calcium (Ca)	EPA 200.7	**32**	mg/L	1.0	0.080	11/18/20	11/18/20	2047063	
Magnesium (Mg)	EPA 200.7	**11**	mg/L	1.0	0.51	11/18/20	11/18/20	2047063	
Potassium (K)	EPA 200.7	**12**	mg/L	1.0	0.18	11/18/20	11/18/20	2047063	
Sodium (Na)	EPA 200.7	**64**	mg/L	1.0	0.21	11/18/20	11/18/20	2047063	

Stu Styles
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Beaumont, City of	Project: Maximum Benefit-Surface Water	Work Order: 20K1074
550 East 6th Street	Sub Project: Beaumont GMZ	Received: 11/11/20 15:26
Beaumont CA, 92223	Project Manager: Thaxton Van Belle	Reported: 11/23/20

CC - 03 **20K1074-06 (Water)** **Sample Date:** 11/10/20 14:45 **Sampler:** Not Listed

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
General Chemical Analyses									
Alkalinity, Total (as CaCO3)	SM 2320 B	**160**	mg/L	5.0		11/18/20	11/18/20	2046073	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	11/19/20	11/20/20	2047111	
Bicarbonate (HCO3)	SM 2320 B	**190**	mg/L	5.0		11/18/20	11/18/20	2046073	
Carbonate (CO3)	SM 2320B	ND	mg/L	5.0		11/18/20	11/18/20	2046073	
Chloride (Cl)	EPA 300.0	**60**	mg/L	1.0	0.075	11/11/20	11/11/20	2046074	
Specific Conductance (E.C.)	SM 2510B	**560**	umhos/cm	2.0	0.20	11/11/20	11/11/20	2046073	
Fluoride (F)	EPA 300.0	**0.20**	mg/L	0.10	0.026	11/11/20	11/11/20	2046074	
Hardness, Total (as CaCO3)	Calculated	**130**	mg/L	6.6		11/18/20	11/18/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		11/18/20	11/18/20	2046073	
Inorganic Nitrogen	Calculated	**3.1**	mg/L	1.3		11/19/20	11/20/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	**3.1**	mg/L	0.40	0.12	11/11/20	11/11/20	2046074	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	11/11/20	11/11/20	2046074	
pH (Lab)	SM 4500HB	**8.2**	pH Units			11/11/20	11/11/20	2046073	
Sulfate (SO4)	EPA 300.0	**22**	mg/L	0.50	0.14	11/11/20	11/11/20	2046074	
Total Filterable Residue/TDS	SM 2540C	**340**	mg/L	5.0	3.1	11/14/20	11/16/20	2046176	
Metals									
Calcium (Ca)	EPA 200.7	**34**	mg/L	1.0	0.080	11/18/20	11/18/20	2047063	
Magnesium (Mg)	EPA 200.7	**11**	mg/L	1.0	0.51	11/18/20	11/18/20	2047063	
Potassium (K)	EPA 200.7	**13**	mg/L	1.0	0.18	11/18/20	11/18/20	2047063	
Sodium (Na)	EPA 200.7	**66**	mg/L	1.0	0.21	11/18/20	11/18/20	2047063	

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Post Office Box 329 San Bernardino, CA 92402 (909) 825-7693 Fax (909) 825-7696 ELAP Number 1088

Beaumont, City of	Project: Maximum Benefit-Surface Water	Work Order: 20K1074
550 East 6th Street	Sub Project: Beaumont GMZ	Received: 11/11/20 15:26
Beaumont CA, 92223	Project Manager: Thaxton Van Belle	Reported: 11/23/20

STC - 01 **20K1074-07 (Water)** **Sample Date:** 11/10/20 12:30 **Sampler:** Not Listed

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
General Chemical Analyses									
Alkalinity, Total (as CaCO3)	SM 2320 B	**220**	mg/L	5.0		11/18/20	11/18/20	2046073	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	11/19/20	11/20/20	2047111	
Bicarbonate (HCO3)	SM 2320 B	**270**	mg/L	5.0		11/18/20	11/18/20	2046073	
Carbonate (CO3)	SM 2320B	ND	mg/L	5.0		11/18/20	11/18/20	2046073	
Chloride (Cl)	EPA 300.0	**68**	mg/L	1.0	0.075	11/12/20	11/12/20	2046074	
Specific Conductance (E.C.)	SM 2510B	**670**	umhos/cm	2.0	0.20	11/11/20	11/11/20	2046073	
Fluoride (F)	EPA 300.0	**0.39**	mg/L	0.10	0.026	11/12/20	11/12/20	2046074	
Hardness, Total (as CaCO3)	Calculated	**210**	mg/L	6.6		11/18/20	11/18/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		11/18/20	11/18/20	2046073	
Inorganic Nitrogen	Calculated	ND	mg/L	1.3		11/19/20	11/20/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	**0.86**	mg/L	0.40	0.12	11/12/20	11/12/20	2046074	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	11/12/20	11/12/20	2046074	
pH (Lab)	SM 4500HB	**8.2**	pH Units			11/11/20	11/11/20	2046073	
Sulfate (SO4)	EPA 300.0	**30**	mg/L	0.50	0.14	11/12/20	11/12/20	2046074	
Total Filterable Residue/TDS	SM 2540C	**450**	mg/L	5.0	3.1	11/14/20	11/16/20	2046176	
Metals									
Calcium (Ca)	EPA 200.7	**57**	mg/L	1.0	0.080	11/18/20	11/18/20	2047063	
Magnesium (Mg)	EPA 200.7	**18**	mg/L	1.0	0.51	11/18/20	11/18/20	2047063	
Potassium (K)	EPA 200.7	**9.4**	mg/L	1.0	0.18	11/18/20	11/18/20	2047063	
Sodium (Na)	EPA 200.7	**70**	mg/L	1.0	0.21	11/18/20	11/18/20	2047063	

J Detected below the Reporting Limit; reported concentration is estimated; (J-Flag)

pH (Lab) was analyzed ASAP but received and analyzed past the 15 minute hold time.

ND Analyte NOT DETECTED at or above the MDL; Method Detection Limit

Stu Styles
Client Services Manager

Post Office Box 329 San Bernardino, CA 92402 (909) 825-7693 Fax (909) 825-7696 ELAP Number 1088

0/0/14

Clinical Lab of San Bernardino, Inc. Chain of Custody

WO 20K1074

21881 Barton Road Grand Terrace CA 92313 909 825-7693 / 516-A N 8th St. Lompoc CA 93436 805 737-7300

Client	City of Beaumont
Address:	550 E. 6th St.
	Beaumont, CA 92223
Client Contact:	Thaxton VanBelle
Phone No.:	951-769-8520 FAX No.: 951-769-8526
System No.:	
Project:	Max Benefits - Beaumont GMZ
Sampled By:	
Comments:	

Email results to: TVanBelle@beaumontca.gov, ckhunter@dudek.com, sstuart@dudek.com

Destination Laboratory

[X] Clinical Grand Terrace / ELAP 1088
[ ] Clinical Lompoc / ELAP 1678
[ ] Other:

Date	Time	Sample Identification	Container ID	Matrix	Sample Type	No. of Preserved Cont. Unpreserved	Na2S2O3	NH4Cl	C6H8O6	HNO3	HCl	NaOH	Na2SO3	ZnC4H6O4	ChlorAC	Total Containers	Total Dissolved Solids (SM 2540C)	Nitrate-N (EPA 300.0)	Nitrite-N (EPA 300.0)	Ammonia-N (EPA 350.1)	Alkalinity (inc. HCO3, CO3, and OH	Ca, Mg, K, Na (EPA 200.7)	Sulfate (EPA 300.0)	Specific Conductance (SM 2510B)	pH (SM 4500H+B)	Chloride (EPA 300.0)	Fluoride (EPA 300.0)	Silica (EPA 200.7)	Comments	Turn Around Time (TAT)
11/10/20	11:30	Henry Schwankert	HS	GW		X										2	X	X	X	X	X	X	X	X	X	X	X	X		10
	13:00	SanTim-1	ST1	GW		X										2	X	X	X	X	X	X	X	X	X	X	X	X		10
	13:30	SanTim-2B/1	2B1	GW		X										2	X	X	X	X	X	X	X	X	X	X	X	X		10
	14:00	SanTim-2B/2	2B2	GW		X										2	X	X	X	X	X	X	X	X	X	X	X	X		10
	15:45	CC-01	1	GW		X										2	X	X	X	X	X	X	X	X	X	X	X	X	2 (4)	10
	14:45	CC-03	3	GW		X										2	X	X	X	X	X	X	X	X	X	X	X	X	2	10
	12:30	STC-01	STC	GW		X										2	X	X	X	X	X	X	X	X	X	X	X	X	2	10

Matrix: DW - Drinking Water GW - Ground Water SW - Surface Water W - Water WW - Wastewater SWR - Stormwater Runoff S - Sludge O - Other

Use for Bacteria Samples / Sample Type: 1-Routine 2-Repeat 3-Replacement 4-Special D-Distribution W-Well

TAT: (10) Ten Day (5) Five Day Rush (2) Two Day Rush

Relinquished By (Sign)	Print Name / Company	Date / Time	Received By (Sign)	Print Name / Company
C Hunter	C. Hunter Dudek	11/10/20 16:15	M Salazar	Mike/CLSB
M Salazar	Mike/CLSB	1:39		
		11-11-20 15:26		Jeanette Hernandez/CLSB

(Lab Use Only) Lompoc Lab Receipt Temp.: _____°C

Shipped Via: [ ] Fed Ex [ ] Golden State Overnight [ ] UPS [ ] OnTrac [ ] USPS [ ] Other _____

Condition: [X] On Wet Ice [ ] On Blu Ice [X] Intact [ ] Custody Seals Samples / COC Checked By: _____ Work Order Logged By: _____

Receipt Comments: Clinical Lab Receipt Temp.: _____°C

5.1 °C

Beaumont, City of	Project: Maximum Benefit-Groundwater	Work Order: 20K1110
550 East 6th Street	Sub Project: Beaumont GMZ	Received: 11/12/20 09:15
Beaumont CA, 92223	Project Manager: Thaxton Van Belle	Reported: 11/25/20

MCM Poultry Ranch **20K1110-01 (Water)** **Sample Date:** 11/11/20 9:30 **Sampler:** C. Hunter

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
General Chemical Analyses									
Alkalinity, Total (as CaCO3)	SM 2320 B	**270**	mg/L	5.0		11/19/20	11/19/20	2046108	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	11/19/20	11/20/20	2047111	
Bicarbonate (HCO3)	SM 2320 B	**330**	mg/L	5.0		11/19/20	11/19/20	2046108	
Carbonate (CO3)	SM 2320B	ND	mg/L	5.0		11/19/20	11/19/20	2046108	
Chloride (Cl)	EPA 300.0	**200**	mg/L	1.0	0.075	11/12/20	11/12/20	2046117	
Specific Conductance (E.C.)	SM 2510B	**1300**	umhos/cm	2.0	0.20	11/12/20	11/12/20	2046108	
Fluoride (F)	EPA 300.0	**0.39**	mg/L	0.10	0.026	11/12/20	11/12/20	2046117	
Hardness, Total (as CaCO3)	Calculated	**400**	mg/L	6.6		11/18/20	11/18/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		11/19/20	11/19/20	2046108	
Inorganic Nitrogen	Calculated	**17**	mg/L	1.3		11/19/20	11/20/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	**17**	mg/L	0.40	0.12	11/12/20	11/12/20	2046117	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	11/12/20	11/12/20	2046117	
pH (Lab)	SM 4500HB	**7.8**	pH Units			11/12/20	11/12/20	2046108	
Sulfate (SO4)	EPA 300.0	**45**	mg/L	0.50	0.14	11/12/20	11/12/20	2046117	
Total Filterable Residue/TDS	SM 2540C	**790**	mg/L	5.0	3.1	11/14/20	11/16/20	2046176	
Metals									
Calcium (Ca)	EPA 200.7	**100**	mg/L	1.0	0.080	11/18/20	11/18/20	2047063	
Magnesium (Mg)	EPA 200.7	**37**	mg/L	1.0	0.51	11/18/20	11/18/20	2047063	
Potassium (K)	EPA 200.7	**4.3**	mg/L	1.0	0.18	11/18/20	11/18/20	2047063	
Silica (SiO2)	EPA 200.7	**31**	mg/L	0.50	0.018	11/23/20	11/23/20	2048019	
Sodium (Na)	EPA 200.7	**95**	mg/L	1.0	0.21	11/18/20	11/18/20	2047063	

Stu Styles
Client Services Manager

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Beaumont, City of	Project: Maximum Benefit-Groundwater	Work Order: 20K1110
550 East 6th Street	Sub Project: Beaumont GMZ	Received: 11/12/20 09:15
Beaumont CA, 92223	Project Manager: Thaxton Van Belle	Reported: 11/25/20

Dowling Orchard **20K1110-02 (Water)** **Sample Date:** 11/11/20 11:30 **Sampler:** C. Hunter

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
General Chemical Analyses									
Alkalinity, Total (as CaCO3)	SM 2320 B	**200**	mg/L	5.0		11/19/20	11/19/20	2046108	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	11/19/20	11/20/20	2047111	
Bicarbonate (HCO3)	SM 2320 B	**250**	mg/L	5.0		11/19/20	11/19/20	2046108	
Carbonate (CO3)	SM 2320B	ND	mg/L	5.0		11/19/20	11/19/20	2046108	
Chloride (Cl)	EPA 300.0	**37**	mg/L	1.0	0.075	11/12/20	11/12/20	2046117	
Specific Conductance (E.C.)	SM 2510B	**540**	umhos/cm	2.0	0.20	11/12/20	11/12/20	2046108	
Fluoride (F)	EPA 300.0	**0.40**	mg/L	0.10	0.026	11/12/20	11/12/20	2046117	
Hardness, Total (as CaCO3)	Calculated	**150**	mg/L	6.6		11/18/20	11/18/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		11/19/20	11/19/20	2046108	
Inorganic Nitrogen	Calculated	**3.8**	mg/L	1.3		11/19/20	11/20/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	**3.8**	mg/L	0.40	0.12	11/12/20	11/12/20	2046117	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	11/12/20	11/12/20	2046117	
pH (Lab)	SM 4500HB	**8.0**	pH Units			11/12/20	11/12/20	2046108	
Sulfate (SO4)	EPA 300.0	**17**	mg/L	0.50	0.14	11/12/20	11/12/20	2046117	
Total Filterable Residue/TDS	SM 2540C	**320**	mg/L	5.0	3.1	11/14/20	11/16/20	2046176	
Metals									
Calcium (Ca)	EPA 200.7	**34**	mg/L	1.0	0.080	11/18/20	11/18/20	2047063	
Magnesium (Mg)	EPA 200.7	**16**	mg/L	1.0	0.51	11/18/20	11/18/20	2047063	
Potassium (K)	EPA 200.7	**4.6**	mg/L	1.0	0.18	11/18/20	11/18/20	2047063	
Silica (SiO2)	EPA 200.7	**18**	mg/L	0.50	0.018	11/23/20	11/23/20	2048019	
Sodium (Na)	EPA 200.7	**60**	mg/L	1.0	0.21	11/18/20	11/18/20	2047063	

Stu Styles
Client Services Manager

Post Office Box 329 San Bernardino, CA 92402 (909) 825-7693 Fax (909) 825-7696 ELAP Number 1088

Beaumont, City of	Project: Maximum Benefit-Groundwater	Work Order: 20K1110
550 East 6th Street	Sub Project: Beaumont GMZ	Received: 11/12/20 09:15
Beaumont CA, 92223	Project Manager: Thaxton Van Belle	Reported: 11/25/20

Joe Pistilli **20K1110-03 (Water)** **Sample Date:** 11/11/20 12:10 **Sampler:** C. Hunter

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
General Chemical Analyses									
Alkalinity, Total (as CaCO3)	SM 2320 B	**130**	mg/L	5.0		11/19/20	11/19/20	2046108	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	11/19/20	11/20/20	2047111	
Bicarbonate (HCO3)	SM 2320 B	**150**	mg/L	5.0		11/19/20	11/19/20	2046108	
Carbonate (CO3)	SM 2320B	ND	mg/L	5.0		11/19/20	11/19/20	2046108	
Chloride (Cl)	EPA 300.0	**16**	mg/L	1.0	0.075	11/12/20	11/12/20	2046117	
Specific Conductance (E.C.)	SM 2510B	**420**	umhos/cm	2.0	0.20	11/12/20	11/12/20	2046108	
Fluoride (F)	EPA 300.0	**0.39**	mg/L	0.10	0.026	11/12/20	11/12/20	2046117	
Hardness, Total (as CaCO3)	Calculated	**150**	mg/L	6.6		11/18/20	11/18/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		11/19/20	11/19/20	2046108	
Inorganic Nitrogen	Calculated	**13**	mg/L	1.3		11/19/20	11/20/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	**13**	mg/L	0.40	0.12	11/12/20	11/12/20	2046117	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	11/12/20	11/12/20	2046117	
pH (Lab)	SM 4500HB	**7.9**	pH Units			11/12/20	11/12/20	2046108	
Sulfate (SO4)	EPA 300.0	**11**	mg/L	0.50	0.14	11/12/20	11/12/20	2046117	
Total Filterable Residue/TDS	SM 2540C	**240**	mg/L	5.0	3.1	11/14/20	11/16/20	2046176	
Metals									
Calcium (Ca)	EPA 200.7	**46**	mg/L	1.0	0.080	11/18/20	11/18/20	2047063	
Magnesium (Mg)	EPA 200.7	**8.1**	mg/L	1.0	0.51	11/18/20	11/18/20	2047063	
Potassium (K)	EPA 200.7	**1.6**	mg/L	1.0	0.18	11/18/20	11/18/20	2047063	
Silica (SiO2)	EPA 200.7	**27**	mg/L	0.50	0.018	11/23/20	11/23/20	2048019	
Sodium (Na)	EPA 200.7	**24**	mg/L	1.0	0.21	11/18/20	11/18/20	2047063	

Stu Styles
Client Services Manager

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Beaumont, City of	Project: Maximum Benefit-Groundwater	Work Order: 20K1110
550 East 6th Street	Sub Project: Beaumont GMZ	Received: 11/12/20 09:15
Beaumont CA, 92223	Project Manager: Thaxton Van Belle	Reported: 11/25/20

George Witter **20K1110-04 (Water)** **Sample Date:** 11/11/20 13:30 **Sampler:** C. Hunter

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
General Chemical Analyses									
Alkalinity, Total (as CaCO3)	SM 2320 B	**160**	mg/L	5.0		11/19/20	11/19/20	2046108	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	11/19/20	11/20/20	2047111	
Bicarbonate (HCO3)	SM 2320 B	**200**	mg/L	5.0		11/19/20	11/19/20	2046108	
Carbonate (CO3)	SM 2320B	ND	mg/L	5.0		11/19/20	11/19/20	2046108	
Chloride (Cl)	EPA 300.0	**22**	mg/L	1.0	0.075	11/12/20	11/12/20	2046117	
Specific Conductance (E.C.)	SM 2510B	**400**	umhos/cm	2.0	0.20	11/12/20	11/12/20	2046108	
Fluoride (F)	EPA 300.0	**0.54**	mg/L	0.10	0.026	11/12/20	11/12/20	2046117	
Hardness, Total (as CaCO3)	Calculated	**140**	mg/L	6.6		11/18/20	11/18/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		11/19/20	11/19/20	2046108	
Inorganic Nitrogen	Calculated	**3.7**	mg/L	1.3		11/19/20	11/20/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	**3.7**	mg/L	0.40	0.12	11/12/20	11/12/20	2046117	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	11/12/20	11/12/20	2046117	
pH (Lab)	SM 4500HB	**8.1**	pH Units			11/12/20	11/12/20	2046108	
Sulfate (SO4)	EPA 300.0	**3.4**	mg/L	0.50	0.14	11/12/20	11/12/20	2046117	
Total Filterable Residue/TDS	SM 2540C	**270**	mg/L	5.0	3.1	11/14/20	11/16/20	2046176	
Metals									
Calcium (Ca)	EPA 200.7	**39**	mg/L	1.0	0.080	11/18/20	11/18/20	2047063	
Magnesium (Mg)	EPA 200.7	**10**	mg/L	1.0	0.51	11/18/20	11/18/20	2047063	
Potassium (K)	EPA 200.7	**1.8**	mg/L	1.0	0.18	11/18/20	11/18/20	2047063	
Silica (SiO2)	EPA 200.7	**23**	mg/L	0.50	0.018	11/23/20	11/23/20	2048019	
Sodium (Na)	EPA 200.7	**36**	mg/L	1.0	0.21	11/18/20	11/18/20	2047063	

Stu Styles
Client Services Manager

Post Office Box 329 San Bernardino, CA 92402 (909) 825-7693 Fax (909) 825-7696 ELAP Number 1088

Beaumont, City of	Project: Maximum Benefit-Groundwater	Work Order: 20K1110
550 East 6th Street	Sub Project: Beaumont GMZ	Received: 11/12/20 09:15
Beaumont CA, 92223	Project Manager: Thaxton Van Belle	Reported: 11/25/20

Singleton Ranch 7 **20K1110-05 (Water)** **Sample Date:** 11/11/20 14:50 **Sampler:** C. Hunter

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
General Chemical Analyses									
Alkalinity, Total (as CaCO3)	SM 2320 B	**170**	mg/L	5.0		11/19/20	11/19/20	2046108	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	11/19/20	11/20/20	2047111	
Bicarbonate (HCO3)	SM 2320 B	**210**	mg/L	5.0		11/19/20	11/19/20	2046108	
Carbonate (CO3)	SM 2320B	ND	mg/L	5.0		11/19/20	11/19/20	2046108	
Chloride (Cl)	EPA 300.0	**11**	mg/L	1.0	0.075	11/12/20	11/12/20	2046117	
Specific Conductance (E.C.)	SM 2510B	**400**	umhos/cm	2.0	0.20	11/12/20	11/12/20	2046108	
Fluoride (F)	EPA 300.0	**0.38**	mg/L	0.10	0.026	11/12/20	11/12/20	2046117	
Hardness, Total (as CaCO3)	Calculated	**190**	mg/L	6.6		11/18/20	11/18/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		11/19/20	11/19/20	2046108	
Inorganic Nitrogen	Calculated	**2.1**	mg/L	1.3		11/19/20	11/20/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	**2.1**	mg/L	0.40	0.12	11/12/20	11/12/20	2046117	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	11/12/20	11/12/20	2046117	
pH (Lab)	SM 4500HB	**7.8**	pH Units			11/12/20	11/12/20	2046108	
Sulfate (SO4)	EPA 300.0	**15**	mg/L	0.50	0.14	11/12/20	11/12/20	2046117	
Total Filterable Residue/TDS	SM 2540C	**250**	mg/L	5.0	3.1	11/14/20	11/16/20	2046176	
Metals									
Calcium (Ca)	EPA 200.7	**48**	mg/L	1.0	0.080	11/18/20	11/18/20	2047063	
Magnesium (Mg)	EPA 200.7	**17**	mg/L	1.0	0.51	11/18/20	11/18/20	2047063	
Potassium (K)	EPA 200.7	**1.9**	mg/L	1.0	0.18	11/18/20	11/18/20	2047063	
Silica (SiO2)	EPA 200.7	**29**	mg/L	0.50	0.018	11/23/20	11/23/20	2048019	
Sodium (Na)	EPA 200.7	**20**	mg/L	1.0	0.21	11/18/20	11/18/20	2047063	

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Beaumont, City of	Project: Maximum Benefit-Groundwater	Work Order: 20K1110
550 East 6th Street	Sub Project: Beaumont GMZ	Received: 11/12/20 09:15
Beaumont CA, 92223	Project Manager: Thaxton Van Belle	Reported: 11/25/20

Oak Valley Office **20K1110-06 (Water)** **Sample Date:** 11/11/20 15:30 **Sampler:** C. Hunter

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
General Chemical Analyses									
Alkalinity, Total (as CaCO3)	SM 2320 B	**150**	mg/L	5.0		11/19/20	11/19/20	2046108	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	11/19/20	11/20/20	2047111	
Bicarbonate (HCO3)	SM 2320 B	**190**	mg/L	5.0		11/19/20	11/19/20	2046108	
Carbonate (CO3)	SM 2320B	ND	mg/L	5.0		11/19/20	11/19/20	2046108	
Chloride (Cl)	EPA 300.0	**5.4**	mg/L	1.0	0.075	11/12/20	11/12/20	2046117	
Specific Conductance (E.C.)	SM 2510B	**330**	umhos/cm	2.0	0.20	11/12/20	11/12/20	2046108	
Fluoride (F)	EPA 300.0	**0.25**	mg/L	0.10	0.026	11/12/20	11/12/20	2046117	
Hardness, Total (as CaCO3)	Calculated	**120**	mg/L	6.6		11/18/20	11/18/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		11/19/20	11/19/20	2046108	
Inorganic Nitrogen	Calculated	ND	mg/L	1.3		11/19/20	11/20/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	**0.99**	mg/L	0.40	0.12	11/12/20	11/12/20	2046117	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	11/12/20	11/12/20	2046117	
pH (Lab)	SM 4500HB	**8.0**	pH Units			11/12/20	11/12/20	2046108	
Sulfate (SO4)	EPA 300.0	**12**	mg/L	0.50	0.14	11/12/20	11/12/20	2046117	
Total Filterable Residue/TDS	SM 2540C	**180**	mg/L	5.0	3.1	11/14/20	11/16/20	2046176	
Metals									
Calcium (Ca)	EPA 200.7	**33**	mg/L	1.0	0.080	11/18/20	11/18/20	2047063	
Magnesium (Mg)	EPA 200.7	**8.3**	mg/L	1.0	0.51	11/18/20	11/18/20	2047063	
Potassium (K)	EPA 200.7	**2.2**	mg/L	1.0	0.18	11/18/20	11/18/20	2047063	
Silica (SiO2)	EPA 200.7	**24**	mg/L	0.50	0.018	11/23/20	11/23/20	2048019	
Sodium (Na)	EPA 200.7	**36**	mg/L	1.0	0.21	11/18/20	11/18/20	2047063	

Stu Styles
Client Services Manager

Post Office Box 329 San Bernardino, CA 92402 (909) 825-7693 Fax (909) 825-7696 ELAP Number 1088

Beaumont, City of	Project: Maximum Benefit-Groundwater	Work Order: 20K1110
550 East 6th Street	Sub Project: Beaumont GMZ	Received: 11/12/20 09:15
Beaumont CA, 92223	Project Manager: Thaxton Van Belle	Reported: 11/25/20

Cherry Valley Nursery **20K1110-07 (Water)** **Sample Date:** 11/11/20 16:00 **Sampler:** C. Hunter

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
General Chemical Analyses									
Alkalinity, Total (as CaCO3)	SM 2320 B	**160**	mg/L	5.0		11/19/20	11/19/20	2046108	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	11/19/20	11/20/20	2047111	
Bicarbonate (HCO3)	SM 2320 B	**190**	mg/L	5.0		11/19/20	11/19/20	2046108	
Carbonate (CO3)	SM 2320B	ND	mg/L	5.0		11/19/20	11/19/20	2046108	
Chloride (Cl)	EPA 300.0	**22**	mg/L	1.0	0.075	11/12/20	11/12/20	2046117	
Specific Conductance (E.C.)	SM 2510B	**440**	umhos/cm	2.0	0.20	11/12/20	11/12/20	2046108	
Fluoride (F)	EPA 300.0	**0.52**	mg/L	0.10	0.026	11/12/20	11/12/20	2046117	
Hardness, Total (as CaCO3)	Calculated	**180**	mg/L	6.6		11/18/20	11/18/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		11/19/20	11/19/20	2046108	
Inorganic Nitrogen	Calculated	**7.2**	mg/L	1.3		11/19/20	11/20/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	**7.2**	mg/L	0.40	0.12	11/12/20	11/12/20	2046117	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	11/12/20	11/12/20	2046117	
pH (Lab)	SM 4500HB	**7.8**	pH Units			11/12/20	11/12/20	2046108	
Sulfate (SO4)	EPA 300.0	**13**	mg/L	0.50	0.14	11/12/20	11/12/20	2046117	
Total Filterable Residue/TDS	SM 2540C	**250**	mg/L	5.0	3.1	11/16/20	11/18/20	2047013	
Metals									
Calcium (Ca)	EPA 200.7	**47**	mg/L	1.0	0.080	11/18/20	11/18/20	2047063	
Magnesium (Mg)	EPA 200.7	**15**	mg/L	1.0	0.51	11/18/20	11/18/20	2047063	
Potassium (K)	EPA 200.7	**1.7**	mg/L	1.0	0.18	11/18/20	11/18/20	2047063	
Silica (SiO2)	EPA 200.7	**30**	mg/L	0.50	0.018	11/23/20	11/23/20	2048019	
Sodium (Na)	EPA 200.7	**22**	mg/L	1.0	0.21	11/18/20	11/18/20	2047063	

Stu Styles
Client Services Manager

Post Office Box 329 San Bernardino, CA 92402 (909) 825-7693 Fax (909) 825-7696 ELAP Number 1088

Beaumont, City of	Project: Maximum Benefit-Groundwater	Work Order: 20K1110
550 East 6th Street	Sub Project: Beaumont GMZ	Received: 11/12/20 09:15
Beaumont CA, 92223	Project Manager: Thaxton Van Belle	Reported: 11/25/20

Cherry Valley Mutual Water Co. **20K1110-08 (Water)** **Sample Date:** 11/11/20 16:30 **Sampler:** C. Hunter

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
General Chemical Analyses									
Alkalinity, Total (as CaCO3)	SM 2320 B	**180**	mg/L	5.0		11/19/20	11/19/20	2046108	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	11/19/20	11/20/20	2047111	
Bicarbonate (HCO3)	SM 2320 B	**220**	mg/L	5.0		11/19/20	11/19/20	2046108	
Carbonate (CO3)	SM 2320B	ND	mg/L	5.0		11/19/20	11/19/20	2046108	
Chloride (Cl)	EPA 300.0	**30**	mg/L	1.0	0.075	11/12/20	11/12/20	2046117	
Specific Conductance (E.C.)	SM 2510B	**610**	umhos/cm	2.0	0.20	11/12/20	11/12/20	2046108	
Fluoride (F)	EPA 300.0	**0.57**	mg/L	0.10	0.026	11/12/20	11/12/20	2046117	
Hardness, Total (as CaCO3)	Calculated	**220**	mg/L	6.6		11/18/20	11/18/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		11/19/20	11/19/20	2046108	
Inorganic Nitrogen	Calculated	**14**	mg/L	1.3		11/19/20	11/20/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	**14**	mg/L	0.40	0.12	11/12/20	11/12/20	2046117	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	11/12/20	11/12/20	2046117	
pH (Lab)	SM 4500HB	**7.7**	pH Units			11/12/20	11/12/20	2046108	
Sulfate (SO4)	EPA 300.0	**40**	mg/L	0.50	0.14	11/12/20	11/12/20	2046117	
Total Filterable Residue/TDS	SM 2540C	**350**	mg/L	5.0	3.1	11/16/20	11/18/20	2047013	
Metals									
Calcium (Ca)	EPA 200.7	**48**	mg/L	1.0	0.080	11/18/20	11/18/20	2047063	
Magnesium (Mg)	EPA 200.7	**25**	mg/L	1.0	0.51	11/18/20	11/18/20	2047063	
Potassium (K)	EPA 200.7	**0.98**	mg/L	1.0	0.18	11/18/20	11/18/20	2047063	J
Silica (SiO2)	EPA 200.7	**41**	mg/L	0.50	0.018	11/23/20	11/23/20	2048019	
Sodium (Na)	EPA 200.7	**34**	mg/L	1.0	0.21	11/18/20	11/18/20	2047063	

J Detected below the Reporting Limit; reported concentration is estimated; (J-Flag)

pH (Lab) was analyzed ASAP but received and analyzed past the 15 minute hold time.

ND Analyte NOT DETECTED at or above the MDL; Method Detection Limit

Stu Styles
Client Services Manager

Post Office Box 329 San Bernardino, CA 92402 (909) 825-7693 Fax (909) 825-7696 ELAP Number 1088

0/0/16

Clinical Lab of San Bernardino, Inc. — Chain of Custody

WO 20K1110

21881 Barton Road Grand Terrace CA 92313 909 825-7693 / 516-A N 8th St. Lompoc CA 93436 805 737-7300

Client	City of Beaumont
Address:	550 E. 6th St.
	Beaumont, CA 92223
Client Contact:	Thaxton VanBelle
Phone No.:	951-769-8520 FAX No.: 951-769-8526
System No.:	
Project:	Max Benefits - Beaumont GMZ
Sampled By:	C Hunter
Comments:	

Email results to: TVanBelle@beaumontca.gov, ckhunter@dudek.com, sstuart@dudek.com

Destination Laboratory
[X] Clinical Grand Terrace / ELAP 1088
[ ] Clinical Lompoc / ELAP 1678
[ ] Other:

Date	Time	Sample Identification	Container ID	Matrix	Sample Type	Unpreserved	Na2S2O3	NH4Cl	C6H8O6	HNO3	HCl	NaOH	Na2SO3	ZnC4H6O4	ChlorAC	Total Containers	Total Dissolved Solids (SM 2540C)	Nitrate-N (EPA 300.0)	Nitrite-N (EPA 300.0)	Ammonia-N (EPA 350.1)	Alkalinity (inc. HCO3, CO3, and OH	Ca, Mg, K, Na (EPA 200.7)	Sulfate (EPA 300.0)	Specific Conductance (SM 2510B)	pH (SM 4500H+B)	Chloride (EPA 300.0)	Fluoride (EPA 300.0)	Silica (EPA 200.7)	Comments	Turn Around Time (TAT)
11/11/20	9:30	MCM Poultry Ranch	MCM	GW		X										2	X	X	X	X	X	X	X	X	X	X	X	X		10
	11:30	Dowling Orchard	DO	GW		X										2	X	X	X	X	X	X	X	X	X	X	X	X		10
	12:10	Joe Pistilli	JP	GW		X										2	X	X	X	X	X	X	X	X	X	X	X	X		10
	13:30	George Witter	GW	GW		X										2	X	X	X	X	X	X	X	X	X	X	X	X		10
	14:50	Singleton Ranch 7	S7	GW		X										2	X	X	X	X	X	X	X	X	X	X	X	X		10
	15:30	Oak Valley Office	OVO	GW		X										2	X	X	X	X	X	X	X	X	X	X	X	X		10
	16:00	Cherry Valley Nursery	CN	GW		X										2	X	X	X	X	X	X	X	X	X	X	X	X		10
	16:30	Cherry Valley Mutual	CM	GW		X										2	X	X	X	X	X	X	X	X	X	X	X	X		10

Matrix: DW - Drinking Water GW - Ground Water SW - Surface Water W - Water WW - Wastewater SWR - Stormwater Runoff S - Sludge O - Other

Use for Bacteria Samples / Sample Type: 1-Routine 2-Repeat 3-Replacement 4-Special D-Distribution W-Well

TAT: (10) Ten Day (5) Five Day Rush (2) Two Day Rush

Relinquished By (Sign)	Print Name / Company	Date / Time	Received By (Sign)	Print Name / Company
[signature]	C Hunter / Dudek	11/12/20 8:00 / 810	[signature]	Sh Styles / CLSB
[signature]	Sh Styles / CLSB	11/12/2020 / 915	[signature]	[illegible] CLSB

(Lab Use Only) Lompoc Lab Receipt Temp.: ______ °C

Shipped Via: [ ] Fed Ex [ ] Golden State Overnight [ ] UPS [ ] OnTrac [ ] USPS [ ] Other ____________

Condition: [X] On Wet Ice [ ] On Blu Ice [X] Intact [ ] Custody Seals Samples / COC Checked By: ______ Work Order Logged By: ______

Receipt Comments: Clinical Lab Receipt Temp.: 6.0 °C

Beaumont, City of	Project: Maximum Benefit-Surface Water	Work Order: 20K1208
550 East 6th Street	Sub Project: Beaumont GMZ	Received: 11/13/20 11:56
Beaumont CA, 92223	Project Manager: Thaxton Van Belle	Reported: 11/25/20

Morongo A **20K1208-01 (Water)** **Sample Date:** 11/12/20 8:30 **Sampler:** C. Hunter

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
General Chemical Analyses									
Alkalinity, Total (as CaCO3)	SM 2320 B	**120**	mg/L	5.0		11/19/20	11/19/20	2046109	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	11/19/20	11/20/20	2047111	
Bicarbonate (HCO3)	SM 2320 B	**120**	mg/L	5.0		11/19/20	11/19/20	2046109	
Carbonate (CO3)	SM 2320B	**12**	mg/L	5.0		11/19/20	11/19/20	2046109	
Chloride (Cl)	EPA 300.0	**15**	mg/L	1.0	0.075	11/13/20	11/13/20	2046153	
Specific Conductance (E.C.)	SM 2510B	**300**	umhos/cm	2.0	0.20	11/13/20	11/13/20	2046109	
Fluoride (F)	EPA 300.0	**0.79**	mg/L	0.10	0.026	11/13/20	11/13/20	2046153	
Hardness, Total (as CaCO3)	Calculated	**29**	mg/L	6.6		11/18/20	11/18/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		11/19/20	11/19/20	2046109	
Inorganic Nitrogen	Calculated	**1.6**	mg/L	1.3		11/19/20	11/20/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	**1.6**	mg/L	0.40	0.12	11/13/20	11/13/20	2046153	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	11/13/20	11/13/20	2046153	
pH (Lab)	SM 4500HB	**8.9**	pH Units			11/13/20	11/13/20	2046109	
Sulfate (SO4)	EPA 300.0	**4.9**	mg/L	0.50	0.14	11/13/20	11/13/20	2046153	
Total Filterable Residue/TDS	SM 2540C	**170**	mg/L	5.0	3.1	11/16/20	11/18/20	2047013	
Metals									
Calcium (Ca)	EPA 200.7	**7.9**	mg/L	1.0	0.080	11/18/20	11/18/20	2047063	
Magnesium (Mg)	EPA 200.7	**2.3**	mg/L	1.0	0.51	11/18/20	11/18/20	2047063	
Potassium (K)	EPA 200.7	**0.90**	mg/L	1.0	0.18	11/18/20	11/18/20	2047063	J
Silica (SiO2)	EPA 200.7	**18**	mg/L	0.50	0.018	11/23/20	11/23/20	2048019	
Sodium (Na)	EPA 200.7	**57**	mg/L	1.0	0.21	11/18/20	11/18/20	2047063	

Stu Styles
Client Services Manager

Post Office Box 329 San Bernardino, CA 92402 (909) 825-7693 Fax (909) 825-7696 ELAP Number 1088

Beaumont, City of	Project: Maximum Benefit-Surface Water	Work Order: 20K1208
550 East 6th Street	Sub Project: Beaumont GMZ	Received: 11/13/20 11:56
Beaumont CA, 92223	Project Manager: Thaxton Van Belle	Reported: 11/25/20

Morongo D **20K1208-02 (Water)** **Sample Date:** 11/12/20 9:00 **Sampler:** C. Hunter

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
General Chemical Analyses									
Alkalinity, Total (as CaCO3)	SM 2320 B	**130**	mg/L	5.0		11/19/20	11/19/20	2046109	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	11/19/20	11/20/20	2047111	
Bicarbonate (HCO3)	SM 2320 B	**160**	mg/L	5.0		11/19/20	11/19/20	2046109	
Carbonate (CO3)	SM 2320B	ND	mg/L	5.0		11/19/20	11/19/20	2046109	
Chloride (Cl)	EPA 300.0	**12**	mg/L	1.0	0.075	11/13/20	11/13/20	2046153	
Specific Conductance (E.C.)	SM 2510B	**320**	umhos/cm	2.0	0.20	11/13/20	11/13/20	2046109	
Fluoride (F)	EPA 300.0	**0.58**	mg/L	0.10	0.026	11/13/20	11/13/20	2046153	
Hardness, Total (as CaCO3)	Calculated	**84**	mg/L	6.6		11/23/20	11/23/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		11/19/20	11/19/20	2046109	
Inorganic Nitrogen	Calculated	**1.7**	mg/L	1.3		11/19/20	11/20/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	**1.7**	mg/L	0.40	0.12	11/13/20	11/13/20	2046153	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	11/13/20	11/13/20	2046153	
pH (Lab)	SM 4500HB	**8.0**	pH Units			11/13/20	11/13/20	2046109	
Sulfate (SO4)	EPA 300.0	**7.2**	mg/L	0.50	0.14	11/13/20	11/13/20	2046153	
Total Filterable Residue/TDS	SM 2540C	**180**	mg/L	5.0	3.1	11/16/20	11/18/20	2047013	
Metals									
Calcium (Ca)	EPA 200.7	**21**	mg/L	1.0	0.080	11/23/20	11/23/20	2048023	
Magnesium (Mg)	EPA 200.7	**7.6**	mg/L	1.0	0.51	11/23/20	11/23/20	2048023	
Potassium (K)	EPA 200.7	**1.5**	mg/L	1.0	0.18	11/23/20	11/23/20	2048023	
Silica (SiO2)	EPA 200.7	**25**	mg/L	0.50	0.018	11/23/20	11/23/20	2048019	
Sodium (Na)	EPA 200.7	**40**	mg/L	1.0	0.21	11/23/20	11/23/20	2048023	

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Beaumont, City of	Project: Maximum Benefit-Surface Water	Work Order: 20K1208
550 East 6th Street	Sub Project: Beaumont GMZ	Received: 11/13/20 11:56
Beaumont CA, 92223	Project Manager: Thaxton Van Belle	Reported: 11/25/20

Desert Lawn **20K1208-03 (Water)** **Sample Date:** 11/12/20 9:30 **Sampler:** C. Hunter

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
General Chemical Analyses									
Alkalinity, Total (as CaCO3)	SM 2320 B	**180**	mg/L	5.0		11/19/20	11/19/20	2046109	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	11/19/20	11/20/20	2047111	
Bicarbonate (HCO3)	SM 2320 B	**220**	mg/L	5.0		11/19/20	11/19/20	2046109	
Carbonate (CO3)	SM 2320B	ND	mg/L	5.0		11/19/20	11/19/20	2046109	
Chloride (Cl)	EPA 300.0	**7.2**	mg/L	1.0	0.075	11/13/20	11/13/20	2046153	
Specific Conductance (E.C.)	SM 2510B	**380**	umhos/cm	2.0	0.20	11/13/20	11/13/20	2046109	
Fluoride (F)	EPA 300.0	**0.47**	mg/L	0.10	0.026	11/13/20	11/13/20	2046153	
Hardness, Total (as CaCO3)	Calculated	**160**	mg/L	6.6		11/23/20	11/23/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		11/19/20	11/19/20	2046109	
Inorganic Nitrogen	Calculated	**1.4**	mg/L	1.3		11/19/20	11/20/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	**1.4**	mg/L	0.40	0.12	11/13/20	11/13/20	2046153	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	11/13/20	11/13/20	2046153	
pH (Lab)	SM 4500HB	**7.7**	pH Units			11/13/20	11/13/20	2046109	
Sulfate (SO4)	EPA 300.0	**12**	mg/L	0.50	0.14	11/13/20	11/13/20	2046153	
Total Filterable Residue/TDS	SM 2540C	**220**	mg/L	5.0	3.1	11/16/20	11/18/20	2047013	
Metals									
Calcium (Ca)	EPA 200.7	**41**	mg/L	1.0	0.080	11/23/20	11/23/20	2048023	
Magnesium (Mg)	EPA 200.7	**15**	mg/L	1.0	0.51	11/23/20	11/23/20	2048023	
Potassium (K)	EPA 200.7	**1.8**	mg/L	1.0	0.18	11/23/20	11/23/20	2048023	
Silica (SiO2)	EPA 200.7	**30**	mg/L	0.50	0.018	11/23/20	11/23/20	2048019	
Sodium (Na)	EPA 200.7	**18**	mg/L	1.0	0.21	11/23/20	11/23/20	2048023	

Stu Styles
Client Services Manager

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Beaumont, City of	Project: Maximum Benefit-Surface Water	Work Order: 20K1208
550 East 6th Street	Sub Project: Beaumont GMZ	Received: 11/13/20 11:56
Beaumont CA, 92223	Project Manager: Thaxton Van Belle	Reported: 11/25/20

Larry Britton **20K1208-04 (Water)** **Sample Date:** 11/12/20 9:40 **Sampler:** C. Hunter

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
General Chemical Analyses									
Alkalinity, Total (as CaCO3)	SM 2320 B	**170**	mg/L	5.0		11/19/20	11/19/20	2046109	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	11/23/20	11/24/20	2048022	
Bicarbonate (HCO3)	SM 2320 B	**210**	mg/L	5.0		11/19/20	11/19/20	2046109	
Carbonate (CO3)	SM 2320B	ND	mg/L	5.0		11/19/20	11/19/20	2046109	
Chloride (Cl)	EPA 300.0	**7.1**	mg/L	1.0	0.075	11/13/20	11/13/20	2046153	
Specific Conductance (E.C.)	SM 2510B	**370**	umhos/cm	2.0	0.20	11/13/20	11/13/20	2046109	
Fluoride (F)	EPA 300.0	**0.40**	mg/L	0.10	0.026	11/13/20	11/13/20	2046153	
Hardness, Total (as CaCO3)	Calculated	**150**	mg/L	6.6		11/18/20	11/18/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		11/19/20	11/19/20	2046109	
Inorganic Nitrogen	Calculated	**1.8**	mg/L	1.3		11/23/20	11/24/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	**1.8**	mg/L	0.40	0.12	11/13/20	11/13/20	2046153	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	11/13/20	11/13/20	2046153	
pH (Lab)	SM 4500HB	**7.9**	pH Units			11/13/20	11/13/20	2046109	
Sulfate (SO4)	EPA 300.0	**9.8**	mg/L	0.50	0.14	11/13/20	11/13/20	2046153	
Total Filterable Residue/TDS	SM 2540C	**220**	mg/L	5.0	3.1	11/16/20	11/18/20	2047013	
Metals									
Calcium (Ca)	EPA 200.7	**36**	mg/L	1.0	0.080	11/18/20	11/18/20	2047063	
Magnesium (Mg)	EPA 200.7	**15**	mg/L	1.0	0.51	11/18/20	11/18/20	2047063	
Potassium (K)	EPA 200.7	**1.6**	mg/L	1.0	0.18	11/18/20	11/18/20	2047063	
Silica (SiO2)	EPA 200.7	**32**	mg/L	0.50	0.018	11/23/20	11/23/20	2048019	
Sodium (Na)	EPA 200.7	**22**	mg/L	1.0	0.21	11/18/20	11/18/20	2047063	

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Client Services Manager

Post Office Box 329 San Bernardino, CA 92402 (909) 825-7693 Fax (909) 825-7696 ELAP Number 1088

Beaumont, City of	Project: Maximum Benefit-Surface Water	Work Order: 20K1208
550 East 6th Street	Sub Project: Beaumont GMZ	Received: 11/13/20 11:56
Beaumont CA, 92223	Project Manager: Thaxton Van Belle	Reported: 11/25/20

Beaumont Cemetery **20K1208-05 (Water)** **Sample Date:** 11/12/20 10:50 **Sampler:** C. Hunter

Analyte	Method	Result	Units	Rep. Limit	MDL	Prepared	Analyzed	Batch	Qualifier
General Chemical Analyses									
Alkalinity, Total (as CaCO3)	SM 2320 B	**170**	mg/L	5.0		11/19/20	11/19/20	2046109	
Ammonia as N (NH3-N)	EPA 350.1	ND	mg/L	0.50	0.15	11/23/20	11/24/20	2048022	
Bicarbonate (HCO3)	SM 2320 B	**210**	mg/L	5.0		11/19/20	11/19/20	2046109	
Carbonate (CO3)	SM 2320B	ND	mg/L	5.0		11/19/20	11/19/20	2046109	
Chloride (Cl)	EPA 300.0	**15**	mg/L	1.0	0.075	11/13/20	11/13/20	2046153	
Specific Conductance (E.C.)	SM 2510B	**420**	umhos/cm	2.0	0.20	11/13/20	11/13/20	2046109	
Fluoride (F)	EPA 300.0	**0.50**	mg/L	0.10	0.026	11/13/20	11/13/20	2046153	
Hardness, Total (as CaCO3)	Calculated	**160**	mg/L	6.6		11/18/20	11/18/20	[CALC]	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		11/19/20	11/19/20	2046109	
Inorganic Nitrogen	Calculated	**5.0**	mg/L	1.3		11/23/20	11/24/20	[CALC]	
Nitrate as N (NO3-N)	EPA 300.0	**5.0**	mg/L	0.40	0.12	11/13/20	11/13/20	2046153	
Nitrite as N (NO2-N)	EPA 300.0	ND	mg/L	0.40	0.17	11/13/20	11/13/20	2046153	
pH (Lab)	SM 4500HB	**7.7**	pH Units			11/13/20	11/13/20	2046109	
Sulfate (SO4)	EPA 300.0	**9.2**	mg/L	0.50	0.14	11/13/20	11/13/20	2046153	
Total Filterable Residue/TDS	SM 2540C	**240**	mg/L	5.0	3.1	11/16/20	11/18/20	2047013	
Metals									
Calcium (Ca)	EPA 200.7	**43**	mg/L	1.0	0.080	11/18/20	11/18/20	2047063	
Magnesium (Mg)	EPA 200.7	**12**	mg/L	1.0	0.51	11/18/20	11/18/20	2047063	
Potassium (K)	EPA 200.7	**2.6**	mg/L	1.0	0.18	11/18/20	11/18/20	2047063	
Silica (SiO2)	EPA 200.7	**30**	mg/L	0.50	0.018	11/23/20	11/23/20	2048019	
Sodium (Na)	EPA 200.7	**25**	mg/L	1.0	0.21	11/18/20	11/18/20	2047063	

J Detected below the Reporting Limit; reported concentration is estimated; (J-Flag)

pH (Lab) was analyzed ASAP but received and analyzed past the 15 minute hold time.

ND Analyte NOT DETECTED at or above the MDL; Method Detection Limit

Stu Styles
Client Services Manager

Post Office Box 329 San Bernardino, CA 92402 (909) 825-7693 Fax (909) 825-7696 ELAP Number 1088

Clinical Lab of San Bernardino, Inc. Chain of Custody

WO 20K1208

21881 Barton Road Grand Terrace CA 92313 909 825-7693 / 516-A N 8th St. Lompoc CA 93436 805 737-7300

Client	City of Beaumont
Address:	550 E. 6th St.
	Beaumont, CA 92223
Client Contact:	Thaxton VanBelle
Phone No.:	951-769-8520 FAX No.: 951-769-8526
System No.:	
Project:	Max Benefits - Beaumont GMZ
Sampled By:	C Hunter
Comments:	

Email results to: **TVanBelle@beaumontca.gov, ckhunter@dudek.com, sstuart@dudek.com**

Destination Laboratory

[X] Clinical Grand Terrace / ELAP 1088
[ ] Clinical Lompoc / ELAP 1678
[ ] Other:

Date	Time	Sample Identification	Container ID	Matrix	Sample Type	No. of Preserved Cont. Unpreserved	Na2S2O3	NH4Cl	C6H8O6	HNO3	HCl	NaOH	Na2SO3	ZnC4H6O4	ChlorAC	Total Containers	Total Dissolved Solids (SM 2540C)	Nitrate-N (EPA 300.0)	Nitrite-N (EPA 300.0)	Ammonia-N (EPA 350.1)	Alkalinity (inc. HCO3, CO3, and OH	Ca, Mg, K, Na (EPA 200.7)	Sulfate (EPA 300.0)	Specific Conductance (SM 2510B)	pH (SM 4500H+B)	Chloride (EPA 300.0)	Fluoride (EPA 300.0)	Silica (EPA 200.7)	Comments	Turn Around Time (TAT)
11/12/20	8:30	Memorial A	MA	GW		X										2	X	X	X	X	X	X	X	X	X	X	X	X		10
	9:00	Memorial D	MD	GW		X										2	X	X	X	X	X	X	X	X	X	X	X	X		10
	9:30	Desert Lawn	DL	GW		X										2	X	X	X	X	X	X	X	X	X	X	X	X		10
	9:40	Larry Barton	LB	GW		X										2	X	X	X	X	X	X	X	X	X	X	X	X		10
	10:50	Beaumont Cemetery	B	GW		X										2	X	X	X	X	X	X	X	X	X	X	X	X		10
				GW		X											X	X	X	X	X	X	X	X	X	X	X	X		10
				GW		X											X	X	X	X	X	X	X	X	X	X	X	X		10

Matrix: DW - Drinking Water GW - Ground Water SW - Surface Water W - Water WW - Wastewater SWR - Stormwater Runoff S - Sludge O - Other _____

Use for Bacteria Samples / Sample Type: 1-Routine 2-Repeat 3-Replacement 4-Special D-Distribution W-Well

TAT: (10) Ten Day (5) Five Day Rush (2) Two Day Rush

Relinquished By (Sign)	Print Name / Company	Date / Time	Received By (Sign)	Print Name / Company
[signature]	C Hunter / Dudek	11/12/20 12:00	[signature]	Chris Martinez
[signature]	Chris Martinez	11/13/20 11:45		
		11-13-20 11:56	[signature]	Jeanette Hernandez/CASB

(Lab Use Only) Lompoc Lab Receipt Temp.: _____ °C

Shipped Via: [ ] Fed Ex [ ] Golden State Overnight [ ] UPS [ ] OnTrac [ ] USPS [ ] Other _____

Condition: ~~[ ]~~ On Wet Ice [ ] On Blu Ice ~~[ ]~~ Intact [ ] Custody Seals Samples / COC Checked By: _____ Work Order Logged By: _____

Receipt Comments: Clinical Lab Receipt Temp.: 5.9 °C

APPENDIX P

Historical Total Dissolved Solids Concentration of Recycled Water Discharged to Cooper's Creek at DP-001 in the Beaumont Groundwater Management Zone

Appendix P. Historical Total Dissolved Solids Concentration of Recycled Water Discharged to Cooper's Creek at DP 001 in the Beaumont Groundwater Management Zone

Sample Date	Total Dissolved Solids (mg/L)	Total Monthly Discharge Volume (MG)	TDS * Volume	Volume-Weighted Annual Average (mg/L)	10-Year Running Volume-Weighted Average (mg/L)
1/31/2002	380				
2/28/2002	400				
3/31/2002	430				
4/30/2002	410				
5/31/2002	420				
6/30/2002	410				
7/31/2002	380				
8/31/2002	380				
9/30/2002	390				
10/31/2002	430				
11/30/2002	480				
12/31/2002	440				
1/31/2003	440				
2/28/2003	420				
3/31/2003	420				
4/30/2003	440				
5/31/2003	430				
6/30/2003	410				
7/31/2003	420				
8/31/2003	390				
9/30/2003	440				
10/31/2003	430				
11/30/2003	420				
12/31/2003	400				
1/31/2004	410				
2/29/2004	430				
3/31/2004	410				
4/30/2004	410				
5/31/2004	320				
6/30/2004	390				
7/31/2004	360				
8/31/2004	330				
9/30/2004	380				
10/31/2004	410				
11/30/2004	390				
12/31/2004	420				
1/31/2005	380				
2/28/2005	500				
3/31/2005	520				
4/30/2005	430				
5/31/2005	440				
6/30/2005	420				
7/31/2005	430				
8/31/2005	440				
9/30/2005	420				
10/31/2005	420				
11/30/2005	380				

Appendix P. Historical Total Dissolved Solids Concentration of Recycled Water Discharged to Cooper's Creek at DP 001 in the Beaumont Groundwater Management Zone

Sample Date	Total Dissolved Solids (mg/L)	Total Monthly Discharge Volume (MG)	TDS * Volume	Volume-Weighted Annual Average (mg/L)	10-Year Running Volume-Weighted Average (mg/L)
12/31/2005	480				
1/31/2006	460	53.64	24675.78		
2/28/2006	350	46.91	16418.15		
3/31/2006	370	56.43	20879.84		
4/30/2006	420	53.44	22446.06		
5/31/2006	420	53.78	22588.44		
6/30/2006	440	50.76	22334.40		
7/31/2006	420	44.78	18806.76		
8/31/2006	410	70.44	28880.81		
9/30/2006	420	68.52	28778.40		
10/31/2006	390	78.56	30639.18		
11/30/2006	420	76.06	31943.94		
12/31/2006	470	78.38	36839.07	417	
1/31/2007	420	80.50	33811.68		
2/28/2007	390	72.61	28316.34		
3/31/2007	400	79.82	31927.20		
4/30/2007	390	78.38	30569.76		
5/31/2007	390	80.91	31556.46		
6/30/2007	390	77.03	30039.75		
7/31/2007	410	78.37	32132.52		
8/31/2007	460	83.32	38324.90		
9/30/2007	370	81.77	30253.79		
10/31/2007	430	82.57	35504.24		
11/30/2007	340	74.14	25207.26		
12/31/2007	390	78.82	30740.58	399	
1/31/2008	400	79.79	31914.00		
2/29/2008	390	74.79	29168.88		
3/31/2008	400	76.52	30608.00		
4/30/2008	410	78.43	32157.12		
5/31/2008	480	77.40	37149.60		
6/30/2008	410	77.19	31647.08		
7/31/2008	400	79.06	31624.80		
8/31/2008	400	73.78	29511.20		
9/30/2008	410	78.11	32024.69		
10/31/2008	260	77.76	20217.34		
11/30/2008	320	76.94	24621.44		
12/31/2008	380	82.24	31249.30	388	
1/31/2009	400	78.22	31288.00		
2/28/2009	350	74.47	26064.50		
3/31/2009	410	80.20	32880.77		
4/30/2009	420	74.80	31417.68		
5/31/2009	390	76.95	30011.67		
6/30/2009	380	74.42	28278.84		
7/31/2009	360	75.57	27204.12		
8/31/2009	440	77.08	33913.88		
9/30/2009	390	80.08	31231.59		
10/31/2009	480	81.06	38907.36		

Appendix P. Historical Total Dissolved Solids Concentration of Recycled Water Discharged to Cooper's Creek at DP 001 in the Beaumont Groundwater Management Zone

Sample Date	Total Dissolved Solids (mg/L)	Total Monthly Discharge Volume (MG)	TDS * Volume	Volume-Weighted Annual Average (mg/L)	10-Year Running Volume-Weighted Average (mg/L)
11/30/2009		78.93	0.00		
12/31/2009	440	83.39	36692.48	406	
1/31/2010	400	86.31	34525.20		
2/28/2010	380	75.61	28731.80		
3/31/2010	390	80.29	31313.49		
4/30/2010	410	57.85	23718.50		
5/31/2010	400	62.06	24824.40		
6/30/2010	390	56.37	21984.69		
7/31/2010	380	60.01	22803.80		
8/31/2010	390	60.89	23745.15		
9/30/2010	400	58.16	23264.00		
10/31/2010	350	61.93	21674.10		
11/30/2010	380	61.30	23293.24		
12/31/2010	370	68.71	25422.33	387	
1/31/2011	410	64.09	26278.54		
2/28/2011	370	59.42	21986.51		
3/31/2011	380	63.77	24230.70		
4/30/2011	370	60.37	22338.38		
5/31/2011	430	63.27	27207.82		
6/30/2011	400	67.50	27001.96		
7/31/2011	380	69.12	26265.22		
8/31/2011	420	66.10	27763.68		
9/30/2011	430	62.86	27028.51		
10/31/2011	430	64.50	27733.28		
11/30/2011	410	65.57	26885.34		
12/31/2011	460	66.02	30367.36	408	
1/31/2012	360	67.85	24427.44		
2/29/2012	360	62.98	22671.36		
3/31/2012	480	68.02	32649.60		
4/30/2012	400	66.93	26770.00		
5/31/2012	410	70.87	29055.88		
6/30/2012	370	67.30	24900.63		
7/31/2012	400	70.61	28244.40		
8/31/2012	380	70.91	26944.28		
9/30/2012	460	67.29	30952.94		
10/31/2012	380	70.36	26736.04		
11/30/2012	390	71.42	27852.24		
12/31/2012	410	72.25	29621.68	400	
1/31/2013	440	70.82	31160.36		
2/28/2013	410	64.32	26369.56		
3/31/2013	420	75.04	31517.64		
4/30/2013	420	71.53	30042.18		
5/31/2013	410	78.43	32155.48		
6/30/2013	420	70.26	29507.10		
7/31/2013	420	70.12	29449.56		
8/31/2013	400	68.66	27462.40		
9/30/2013	430	77.00	33107.85		

Appendix P. Historical Total Dissolved Solids Concentration of Recycled Water Discharged to Cooper's Creek at DP 001 in the Beaumont Groundwater Management Zone

Sample Date	Total Dissolved Solids (mg/L)	Total Monthly Discharge Volume (MG)	TDS * Volume	Volume-Weighted Annual Average (mg/L)	10-Year Running Volume-Weighted Average (mg/L)
10/31/2013	410	66.44	27239.99		
11/30/2013	440	66.16	29111.72		
12/31/2013	400	77.64	31056.00	418	
1/31/2014	440	81.21	35731.52		
2/28/2014	440	62.03	27292.32		
3/31/2014	390	76.00	29640.39		
4/30/2014	410	74.45	30524.09		
5/31/2014	430	81.04	34846.34		
6/30/2014	420	78.51	32973.36		
7/31/2014	420	80.75	33913.74		
8/31/2014	420	84.80	35615.16		
9/30/2014	400	85.94	34376.00		
10/31/2014	400	84.94	33976.80		
11/30/2014	370	89.57	33140.90		
12/31/2014	400	96.65	38659.60	411	
1/31/2015	450	89.03	40064.85		
2/28/2015	440	82.44	36274.92		
3/31/2015	450	92.14	41464.35		
4/30/2015	410	87.03	35680.25		
5/31/2015	420	90.62	38060.82		
6/30/2015	430	89.27	38386.53		
7/31/2015	440	92.77	40817.04		
8/31/2015	420	96.04	40337.64		
9/30/2015	450	92.30	41533.65		
10/31/2015	450	94.10	42346.80		
11/30/2015	440	91.69	40345.36		
12/31/2015	480	96.39	46264.80	440	408
1/31/2016	460	97.59	44892.78		
2/29/2016	450	88.88	39993.75		
3/31/2016	460	93.39	42958.48		
4/30/2016	460	92.01	42323.22		
5/31/2016	480	96.43	46288.32		
6/30/2016	430	94.45	40612.21		
7/31/2016	420	97.78	41067.60		
8/31/2016	400	100.98	40390.40		
9/30/2016	420	96.55	40549.74		
10/31/2016	440	98.45	43319.32		
11/30/2016	430	95.80	41193.57		
12/31/2016	460	102.23	47026.26	442	412
1/31/2017	460	103.99	47835.40		
2/28/2017	500	111.23	55616.00		
3/31/2017	440	98.42	43305.24		
4/30/2017	400	100.54	40216.00		
5/31/2017	420	99.94	41975.22		
6/30/2017	420	95.28	40015.50		
7/31/2017	400	99.58	39833.60		
8/31/2017	420	102.68	43125.18		

Appendix P. Historical Total Dissolved Solids Concentration of Recycled Water Discharged to Cooper's Creek at DP 001 in the Beaumont Groundwater Management Zone

Sample Date	Total Dissolved Solids (mg/L)	Total Monthly Discharge Volume (MG)	TDS * Volume	Volume-Weighted Annual Average (mg/L)	10-Year Running Volume-Weighted Average (mg/L)
9/30/2017	400	99.65	39861.20		
10/31/2017	410	101.03	41420.25		
11/30/2017	410	98.77	40495.70		
12/31/2017	450	102.55	46147.50	428	415
1/31/2018	460	104.41	48026.30		
2/28/2018	470	91.80	43145.53		
3/31/2018	470	103.09	48451.36		
4/30/2018	480	99.73	47868.48		
5/31/2018	430	102.44	44050.92		
6/30/2018	520	99.19	51579.32		
7/31/2018	470	105.75	49703.91		
8/31/2018	440	108.87	47901.04		
9/30/2018	420	103.98	43670.34		
10/31/2018	440	106.00	46640.88		
11/30/2018	460	105.29	48433.86		
12/31/2018	390	107.60	41962.83	453	423
1/31/2019	430	111.78	48065.40		
2/28/2019	430	100.99	43425.27		
3/31/2019	480	112.81	54149.76		
4/30/2019	440	109.87	48344.12		
5/31/2019	460	114.32	52589.04		
6/30/2019	470	108.34	50921.21		
7/31/2019	460	111.32	51208.58		
8/31/2019	440	115.42	50784.80		
9/30/2019	450	110.82	49869.45		
10/31/2019	460	112.92	51941.82		
11/30/2019	460	113.10	52025.54		
12/31/2019	460	111.51	51295.52	454	428
1/31/2020	560	117.02	65530.08		
2/29/2020	450	107.80	48511.80		
3/31/2020	460	121.27	55783.28		
4/30/2020	440	118.71	52231.08		
5/31/2020	440	118.64	52200.28		
6/30/2020	440	114.97	50588.12		
7/31/2020	440	118.11	51969.28		
8/31/2020	460	126.79	58325.24		
9/30/2020	440	121.48	53449.88		
10/31/2020	420	120.27	50512.14		
11/30/2020	410	109.75	44997.09		
12/31/2020	380	107.36	40795.28	446	433

APPENDIX Q

Historical Nitrate (as Nitrogen) Concentration of Recycled Water Discharged at Cooper's Creek at DP-001 in the Beaumont Groundwater Management Zone

Appendix Q. Historical Nitrate (as Nitrogen) Concentration of Recycled Water Discharged to Cooper's Creek (DP 001) in the Beaumont Groundwater Management Zone

Sample Date	Nitrate-Nitrogen (mg/L)	Total Monthly Discharge Volume (MG)	Nitrate-N * Volume	Volume-Weighted Annual Average (mg/L)	10-Year Running Volume-Weighted Average (mg/L)
1/31/2006		53.64			
2/28/2006		46.91			
3/31/2006		56.43			
4/30/2006		53.44			
5/31/2006		53.78			
6/30/2006		50.76			
7/31/2006		44.78			
8/31/2006		70.44			
9/30/2006		68.52			
10/31/2006		78.56			
11/30/2006		76.06			
12/31/2006		78.38			
1/31/2007	0.72	80.50	57.96		
2/28/2007	0.72	72.61	52.28		
3/31/2007	0.9	79.82	71.84		
4/30/2007	0.52	78.38	40.76		
5/31/2007	0.54	80.91	43.69		
6/30/2007	0.23	77.03	17.72		
7/31/2007	0.45	78.37	35.27		
8/31/2007	0.25	83.32	20.83		
9/30/2007	0.45	81.77	36.80		
10/31/2007	1.1	82.57	90.82		
11/30/2007	0.29	74.14	21.50		
12/31/2007	0.52	78.82	40.99	0.56	
1/31/2008	0.52	79.79	41.49		
2/29/2008	0.72	74.79	53.85		
3/31/2008	0.54	76.52	41.32		
4/30/2008	0.77	78.43	60.39		
5/31/2008	1.1	77.40	85.13		
6/30/2008	1.5	77.19	115.78		
7/31/2008	1.1	79.06	86.97		
8/31/2008	1.7	73.78	125.42		
9/30/2008	2	78.11	156.22		
10/31/2008	1.8	77.76	139.97		
11/30/2008	1.4	76.94	107.72		
12/31/2008	2.5	82.24	205.59	1.31	
1/31/2009	2.4	78.22	187.73		
2/28/2009	3	74.47	223.41		
3/31/2009	0.79	80.20	63.36		
4/30/2009	2.1	74.80	157.09		
5/31/2009	0.97	76.95	74.64		
6/30/2009	2.5	74.42	186.05		
7/31/2009	1.1	75.57	83.12		
8/31/2009	1	77.08	77.08		
9/30/2009	1.5	80.08	120.12		
10/31/2009	2	81.06	162.11		
11/30/2009	4.4	78.93	347.30		
12/31/2009	4.4	83.39	366.92	2.19	
1/31/2010	8.6	86.31	742.29		
2/28/2010	2.9	75.61	219.27		
3/31/2010	3.4	80.29	272.99		
4/30/2010	5.4	57.85	312.39		
5/31/2010	6.7	62.06	415.81		
6/30/2010	0.84	56.37	47.35		
7/31/2010	1.4	60.01	84.01		
8/31/2010	1.1	60.89	66.97		
9/30/2010	3.5	58.16	203.56		
10/31/2010	0.96	61.93	59.45		
11/30/2010	1	61.30	61.30		
12/31/2010	2.3	68.71	158.03	3.35	
1/31/2011	1.6	64.09	102.55		
2/28/2011	1.6	59.42	95.08		

Appendix Q. Historical Nitrate (as Nitrogen) Concentration of Recycled Water Discharged to Cooper's Creek (DP 001) in the Beaumont Groundwater Management Zone

Sample Date	Nitrate-Nitrogen (mg/L)	Total Monthly Discharge Volume (MG)	Nitrate-N * Volume	Volume-Weighted Annual Average (mg/L)	10-Year Running Volume-Weighted Average (mg/L)
3/31/2011	1.1	63.77	70.14		
4/30/2011	0.97	60.37	58.56		
5/31/2011	2	63.27	126.55		
6/30/2011	4	67.50	270.02		
7/31/2011	0.47	69.12	32.49		
8/31/2011		66.10	0.00		
9/30/2011		62.86	0.00		
10/31/2011		64.50	0.00		
11/30/2011		65.57	0.00		
12/31/2011		66.02	0.00	1.69	
1/31/2012	0.79	67.85	53.60		
2/29/2012	1.8	62.98	113.36		
3/31/2012	0.86	68.02	58.50		
4/30/2012	1.8	66.93	120.47		
5/31/2012	2	70.87	141.74		
6/30/2012	2.4	67.30	161.52		
7/31/2012	7.9	70.61	557.83		
8/31/2012	2	70.91	141.81		
9/30/2012	2.5	67.29	168.22		
10/31/2012		70.36	0.00		
11/30/2012		71.42	0.00		
12/31/2012		72.25	0.00	2.48	
1/31/2013	4.7	70.82	332.85		
2/28/2013	2.2	64.32	141.50		
3/31/2013	5.2	75.04	390.22		
4/30/2013	2.2	71.53	157.36		
5/31/2013	3.1	78.43	243.13		
6/30/2013	2	70.26	140.51		
7/31/2013	1.6	70.12	112.19		
8/31/2013	2	68.66	137.31		
9/30/2013	1.6	77.00	123.19		
10/31/2013	3.2	66.44	212.60		
11/30/2013	8.1	66.16	535.92		
12/31/2013	1.8	77.64	139.75	3.11	
1/31/2014	2.3	81.21	186.78		
2/28/2014	3.7	62.03	229.50		
3/31/2014	2.6	76.00	197.60		
4/30/2014	1.7	74.45	126.56		
5/31/2014	1.2	81.04	97.25		
6/30/2014	0.55	78.51	43.18		
7/31/2014	2.7	80.75	218.02		
8/31/2014	1.5	84.80	127.20		
9/30/2014	1.4	85.94	120.32		
10/31/2014	1.8	84.94	152.90		
11/30/2014	4.1	89.57	367.24		
12/31/2014	1.6	96.65	154.64	2.07	
1/31/2015	5.1	89.03	454.07		
2/28/2015	6.3	82.44	519.39		
3/31/2015	5.5	92.14	506.79		
4/30/2015	2.3	87.03	200.16		
5/31/2015	2.9	90.62	262.80		
6/30/2015	2	89.27	178.54		
7/31/2015	5.8	92.77	538.04		
8/31/2015	5.6	96.04	537.84		
9/30/2015	3.8	92.30	350.73		
10/31/2015	9.3	94.10	875.17		
11/30/2015	12	91.69	1100.33		
12/31/2015	14	96.39	1349.39	6.28	2.67
1/31/2016	8.7	97.59	849.06		
2/29/2016	5.4	88.88	479.93		
3/31/2016	6.6	93.39	616.36		
4/30/2016	7.6	92.01	699.25		

Appendix Q. Historical Nitrate (as Nitrogen) Concentration of Recycled Water Discharged to Cooper's Creek (DP 001) in the Beaumont Groundwater Management Zone

Sample Date	Nitrate-Nitrogen (mg/L)	Total Monthly Discharge Volume (MG)	Nitrate-N * Volume	Volume-Weighted Annual Average (mg/L)	10-Year Running Volume-Weighted Average (mg/L)
5/31/2016	11	96.43	1060.77		
6/30/2016	1.4	94.45	132.23		
7/31/2016	1.4	97.78	136.89		
8/31/2016	0.3	100.98	30.29		
9/30/2016	2.3	96.55	222.06		
10/31/2016	2.7	98.45	265.82		
11/30/2016	10	95.80	957.99		
12/31/2016	17	102.23	1737.93	6.23	3.14
1/31/2017	2.2	103.99	228.78		
2/28/2017	0.71	111.23	78.97		
3/31/2017	1.4	98.42	137.79		
4/30/2017	0.77	100.54	77.42		
5/31/2017	0.28	99.94	27.98		
6/30/2017	0.3	95.28	28.58		
7/31/2017	0.46	99.58	45.81		
8/31/2017	0.34	102.68	34.91		
9/30/2017	0.27	99.65	26.91		
10/31/2017	1.7	101.03	171.74		
11/30/2017	2.7	98.77	266.68		
12/31/2017	2.2	102.55	225.61	1.11	3.14
1/31/2018	0.34	104.41	35.50		
2/28/2018	0.51	91.80	46.82		
3/31/2018	0.87	103.09	89.69		
4/30/2018	1.8	99.73	179.51		
5/31/2018	2.6	102.44	266.35		
6/30/2018	3.5	99.19	347.17		
7/31/2018	2.4	105.75	253.81		
8/31/2018	2.5	108.87	272.17		
9/30/2018	3.7	103.98	384.71		
10/31/2018	8	106.00	848.02		
11/30/2018	17	105.29	1789.95		
12/31/2018	4.9	107.60	527.23	4.07	3.45
1/31/2019		111.78	0.00		
2/28/2019	8.8	100.99	888.70		
3/31/2019	13	112.81	1466.56		
4/30/2019	2.2	109.87	241.72		
5/31/2019	3.8	114.32	434.43		
6/30/2019	3.1	108.34	335.86		
7/31/2019	2.1	111.32	233.78		
8/31/2019	1.8	115.42	207.76		
9/30/2019	1.8	110.82	199.48		
10/31/2019	2	112.92	225.83		
11/30/2019	9	113.10	1017.89		
12/31/2019	5.8	111.51	646.77	4.42	3.74
1/31/2020	2.4	117.018	280.84		
2/29/2020	1.6	107.804	172.49		
3/31/2020	3.6	121.268	436.56		
4/30/2020	8.3	118.707	985.27		
5/31/2020	3.3	118.637	391.50		
6/30/2020	2.1	114.973	241.44		
7/31/2020	3.6	118.112	425.20		
8/31/2020	1.0	126.794	126.79		
9/30/2020	5.5	121.477	668.12		
10/31/2020	4.4	120.267	529.17		
11/30/2020	4.9	109.749	537.77		
12/31/2020	3.1	107.356	332.80	3.66	3.63

APPENDIX R

Historical Precipitation at NOAA Climatic Stations in Beaumont, Redlands and Yucaipa, California

Appendix R. Historical Rainfall Data at NOAA Climatic Station US1CARV0018 - Beaumont California

Water Year Beginning	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total
10/1/2008						0.07	0.08	0.00	0.19	0.00	0.00	0.00	0.34
10/1/2009	0.03	0.07	0.36	6.35	3.14	0.96	1.59	0.06	0.00	0.00	0.00	0.07	12.63
10/1/2010	0.95	1.84	11.03	1.26	1.83	1.93	0.10	0.15	0.00	0.04	0.28	0.00	19.41
10/1/2011	0.77	1.17	0.42	0.82	1.68	2.16	0.77	0.00	0.00	0.04	0.72	0.02	8.57
10/1/2012	0.00	0.95	2.80	1.56	1.38	1.49	0.00	0.62	0.00	0.09	0.23	0.11	9.23
10/1/2013	0.05	0.83	0.22	0.38	0.83	2.92	1.13	0.03	0.00	0.00	0.60	0.00	6.99
10/1/2014	0.00	0.11	5.00	0.56	1.08	0.68	0.86	1.23	0.02	2.48	0.05	1.16	13.23
10/1/2015	0.73	0.55	1.35	0.14	0.75	1.24	2.06	0.77	0.00	0.00	0.00	0.05	7.64
10/1/2016	0.39	2.01	4.94	8.76	3.16	0.30	0.00	0.10	0.00	0.00	0.12	0.00	19.78
10/1/2017	0.00	0.05	0.00	3.47	0.48	2.90	0.00	0.53	0.00	0.01	0.20	0.00	7.64
10/1/2018	0.67	1.97	1.54	3.84	8.16	1.97	0.48	3.62	0.00	0.00	0.00	0.00	22.25
10/1/2019	0.00	3.90	3.06	0.28	0.70	6.52	4.43	0.02	0.11	0.00	0.00	0.00	19.02
10/1/2020	0.00	0.70	1.26										
Mean Monthly	0.30	1.18	2.67	2.49	2.11	1.93	0.96	0.59	0.03	0.22	0.18	0.12	
												Mean Annual Rainfall =	13.31

Appendix R. Historical Rainfall Data at NOAA Climatic Station USC00047306 - Redlands, California

Water Year Beginning	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total
10/1/1962				0.38	2.56	2.25	1.81	0.00	0.31	0.00	0.14	2.96	10.40
10/1/1963	1.25	2.08	0.05	1.63	0.23	2.27	0.84	0.30	0.09	0.19	0.00	0.10	9.05
10/1/1964	0.18	1.57	0.97	0.38	0.36	1.82	4.74	0.14	0.07	0.09	0.20	0.62	11.15
10/1/1965	0.00	7.63	3.07	1.10	1.11	0.38	0.05	0.10	0.00	0.02	0.00	0.27	13.73
10/1/1966	0.52	0.70	8.07	1.06	0.00	1.99	2.60	0.33	0.17	0.00	0.51	0.32	16.28
10/1/1967	0.00	3.00	1.92	0.59	0.41	1.78	1.11	0.30	0.09	0.48	0.04	0.00	9.72
10/1/1968	0.16	0.49	1.04	9.76	9.91	1.36	0.84	1.14	0.11	0.07	0.00	0.31	25.19
10/1/1969	0.03	1.30	0.06	1.06	1.12	3.70	0.22	0.02	0.02	0.00	0.69	0.00	8.23
10/1/1970	0.02	2.63	3.47	0.67	0.52	0.54	0.74	1.30	0.04	0.00	0.00	0.00	9.93
10/1/1971	0.00	0.16	4.46	0.00	0.11	0.01	0.07	0.13	0.49	0.00	0.11	0.17	5.72
10/1/1972	0.84	2.14	1.64		4.55	3.96	0.12	0.10	0.00	0.00	0.02	0.00	13.37
10/1/1973	0.05	1.58	0.06	5.57	0.06	2.70	0.46	0.00	0.00	0.04	0.00	0.00	10.53
10/1/1974	0.68	0.14	2.10	0.43	1.32	3.52	1.56	0.15	0.16	0.00		0.00	10.06
10/1/1975	0.43	0.73	0.45	0.00	5.38	0.75	1.48	0.35	0.11	0.01	0.00	3.81	13.50
10/1/1976	0.84		0.45	2.39	0.76	1.08	0.00	3.11	0.00	0.00	2.29	0.00	10.92
10/1/1977	0.04			6.78	6.24	6.67	1.76	0.02	0.00	0.00	0.42	0.62	22.54
10/1/1978	0.23	2.00	2.26	4.77	2.87	4.59	0.02	0.74	0.09	0.78	0.02	0.00	18.37
10/1/1979	1.27	0.09	0.16	7.74		3.89	1.20	0.46	0.05	0.00	0.00	0.00	14.87
10/1/1980	0.06	0.00	0.21	1.41	0.86	2.03	0.46	0.27	0.00	0.00	0.00	0.00	5.30
10/1/1981	1.22	0.82	1.23	8.58		4.55	1.18	0.59	0.05	0.00	0.27	2.41	20.91
10/1/1982	0.22	3.19	1.37	5.02	3.64	2.86	3.19	0.11	0.00	0.00	2.55	1.05	23.19
10/1/1983	0.96	2.68	2.29	0.12	0.31	0.24	0.25	0.01	0.03	0.59	0.06	0.42	7.96
10/1/1984	0.14	1.33	5.13	1.14	1.05	1.04	0.09	0.00	0.00	0.04	0.00	0.46	10.42

Appendix R. Historical Rainfall Data at NOAA Climatic Station USC00047306 - Redlands, California

Water Year Beginning	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total
10/1/1985	0.54	2.83	0.41	0.80	2.44	3.05		0.00	0.00	0.14	0.00	0.46	10.67
10/1/1986	0.62	0.97	2.20	1.91	2.00	1.75	0.28	0.07	0.12	0.04	0.11	0.04	10.11
10/1/1987	2.66	1.61	1.85	1.61	0.81	0.69	3.36	0.09	0.04	0.00	0.02	0.06	12.80
10/1/1988	0.00	0.55	2.57	1.06	2.69	0.94	0.10	0.30	0.00	0.00	0.00	0.66	8.87
10/1/1989	0.28	0.23	0.00	1.93	2.40	0.69	0.83	0.66	0.12	0.41	0.10	0.01	7.65
10/1/1990	0.06	0.26	0.05	2.15	3.41	7.56	0.04	0.03	0.00	0.17	0.00	0.04	13.77
10/1/1991	0.48	0.14	1.37	2.83	4.90	5.35	0.22	0.25	0.00	0.48	0.00	0.00	16.03
10/1/1992	0.90	0.00	4.78	11.69	7.55	1.95	0.00	0.04	1.09	0.00	0.00	0.00	28.00
10/1/1993	0.20	1.18	1.20	0.79	3.87	3.33	0.98	0.51	0.00	0.03	0.00	0.00	12.09
10/1/1994	0.31	0.44	1.00	9.21	1.80	6.59	0.80	0.49	0.97	0.05	0.05	0.01	21.72
10/1/1995	0.00	0.08	0.51	1.39	4.47	1.36	0.38	0.00	0.00	0.10	0.02	0.01	8.32
10/1/1996	0.91		1.75	6.13	0.00	0.00	0.03	0.00	0.07	0.01	0.00	1.12	10.04
10/1/1997	0.26	1.48	2.35	2.82	12.09	2.51	1.15	2.70	0.04	0.00	0.56	1.15	27.13
10/1/1998	0.25	0.61	0.33	1.16	0.62	0.27	2.26	0.09	0.47	0.05	0.00	0.00	6.12
10/1/1999	0.00	0.04	0.02	0.87	3.65	2.15	1.05	0.06	0.00	0.00	0.03	0.05	7.91
10/1/2000	0.64	0.07	0.07	2.90	3.49	1.58	1.42	0.06	0.00	0.02	0.00	0.00	10.26
10/1/2001	0.05	1.12	0.85	0.27	0.04	0.78	0.44	0.01	0.00	0.00	0.00	0.02	3.60
10/1/2002	0.00	1.56	2.37	0.01	5.44	3.00	2.57	0.73	0.10	0.14	0.00	0.00	15.93
10/1/2003	0.00	1.64	1.17	0.39	4.29	0.80	0.96	0.03	0.00	0.00	0.05	0.09	9.42
10/1/2004	6.16	1.07	2.81	6.17	6.84	0.96	0.66	0.47	0.06		0.00	0.18	25.38
10/1/2005	1.63	0.00	0.17	1.05	2.19		3.02	0.12	0.00	0.05		0.00	8.23
10/1/2006	0.08	0.08	0.61	1.27	0.49	0.49	0.88	0.00	0.00	0.00	0.00	0.07	3.97
10/1/2007	0.11	1.99	2.04	3.37	2.13	0.11	0.00	1.06	0.00	0.00	0.00	0.00	10.81

Appendix R. Historical Rainfall Data at NOAA Climatic Station USC00047306 - Redlands, California

Water Year Beginning	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total
10/1/2008	0.00	1.92	3.40	0.20	2.91	0.08	0.10	0.00	0.01	0.00	0.00	0.01	8.64
10/1/2009	0.03	0.43	2.77	7.48	2.69	0.70	1.35	0.00	0.00	0.00	0.00	0.00	15.46
10/1/2010	0.70	1.19	12.60	1.13	2.82	1.83	0.19	0.50	0.01	0.31	0.00	0.05	21.33
10/1/2011	0.43	1.19	0.31	0.53	0.53	1.95	1.57	0.16	0.00	0.20	0.34	0.00	7.22
10/1/2012	0.06	0.72	2.95	1.28	1.43	0.92	0.02	0.24	0.00	0.20	0.11	0.00	7.93
10/1/2013	0.59	1.33	0.31	0.03	1.91	0.48	1.13	0.01	0.00	0.00	1.25	0.00	7.04
10/1/2014	0.00	0.39	3.97	0.53	0.93	0.51	0.53	0.80	0.00	1.66	0.00	0.89	10.21
10/1/2015	0.35	0.24	1.00	3.40	0.23	1.41	1.11	0.08	0.00	0.00	0.00	0.01	7.83
10/1/2016	0.82	1.39	3.89	7.02	2.61	0.10	0.01	0.27	0.00	0.00	0.19	0.01	16.31
10/1/2017	0.01	0.05	0.00	3.40	0.40	2.06	0.00	0.37	0.00	0.11	0.00	0.00	6.40
10/1/2018	0.87	1.10	1.43	3.17	5.66	2.24	0.07	1.44	0.01	0.00	0.00	0.00	15.99
10/1/2019	0.00	2.69	2.77	0.11	0.38	4.85	4.37	0.00	0.02	0.00	0.00	0.00	15.19
10/1/2020	0.00	0.69	1.37										
Mean Monthly	0.50	1.19	1.89	2.64	2.56	2.05	0.99	0.37	0.09	0.11	0.18	0.32	
												Mean Annual Rainfall =	12.62

Appendix R. Historical Rainfall Data at NOAA Climatic Station US1CASR0044 - Yucaipa, California

Water Year Beginning	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total
10/1/2013							1.02	0.02	0.00	0.25	0.62	0.52	2.43
10/1/2014	0.00	0.89	5.51	0.75	1.38	0.35	0.79	1.22	0.06	1.46	0.00	1.08	13.49
10/1/2015	0.89	0.54	1.52	3.84	0.63	1.74	2.01	0.51	0.00	0.00	0.00	0.11	11.79
10/1/2016	0.69	1.89	4.63	8.31	3.35	0.65	0.00	0.63	0.02	0.00	1.04	0.09	21.30
10/1/2017	0.17	0.05	0.00	2.75	0.77	2.82	0.02	0.98	0.00	0.03	0.00	0.00	7.59
10/1/2018	1.15	1.93	1.57	4.43	9.52	2.11	0.28	3.64	0.13	0.00	0.00	0.17	24.93
10/1/2019	0.03	3.63	3.93	0.12	0.96	5.81	4.35	0.00	0.09	0.00	0.00	0.00	18.92
10/1/2020	0.01	1.10	1.39										
Mean Monthly	0.42	1.43	2.65	3.37	2.77	2.25	1.21	1.00	0.04	0.25	0.24	0.28	
												Mean Annual Rainfall =	16.34

APPENDIX S

Salinity and Nutrient Management Plan for the Beaumont Management Zone, San Timoteo Management Zone and the Yucaipa Management Zone

Yucaipa Valley Water District

Salinity and Nutrient Management Plan for the Beaumont Management Zone, San Timoteo Management Zone and the Yucaipa Management Zone

October 29, 2015

Prepared by:

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Background

As part of the development of the 2004 Salt Management Plan, several agencies proposed alternative, less stringent TDS and nitrate-nitrogen objectives for specific groundwater management zones. Management zones are intended to be distinct groundwater units from a groundwater flow and water quality perspective. In general, the established groundwater management zone boundaries are consistent with groundwater flow regimes and include well-defined areas of recharge and discharge. The intent was to accommodate efficient water and wastewater management programs, including the increased use of recycled water. These proposals were based on the requirements of the State's antidegradation policy (State Board Resolution No. 68-16) and Water Code Section 13241, including economics, and the need to use recycled water. Because the less stringent objectives would allow for a lowering of water quality, the agencies recommending them were required to demonstrate that their proposed objectives would protect beneficial uses and that water quality consistent with the maximum benefit of the people of the state would be maintained. Thus, the objectives were termed "maximum benefit" water quality objectives. Among the agencies that proposed "maximum benefit" objectives for their underlying management zones were the Yucaipa Valley Water District (YVWD), the City of Beaumont, and members of the San Timoteo Watershed Management Authority (STWMA).

YVWD provides both drinking water service, recycled water service, and sewer collection and treatment services within its service area. The service area consists primarily of residential homes, with some commercial and light industry. As a result of widespread septic system failures in the 1960' and 1970's, a sewer moratorium was placed on much of the Yucaipa Valley, which now includes the City of Yucaipa and portions of unincorporated San Bernardino County and the City of Calimesa and portions of unincorporated Riverside County. Collection sewers were installed in most of the Yucaipa Valley by 1986, although there are still portions within both Cities and Counties that are on septic systems. The sewer treatment plant with secondary treatment began operation in October 1986, and underwent expansions and treatment updates in 1992 and 2008 to now provide Title 22 tertiary treated effluent. Desalting facilities were added in 2013.

The Yucaipa Valley Wochholz Regional Water Reclamation Facility ("WRWRF") NPDES discharge permit allows the facility to treat 8.0 million gallons per day (MGD), peak flow of 10.0 MGD and can be expanded to 12.0 MGD.

The WRWRF effluent meets Title 22 Water Recycling Criteria as defined in the CCR for unrestricted reuse (California, 2001). Two recycled water customers currently receive recycled effluent from the WRWRF. Excess treated effluent is discharged to the San Timoteo Creek at Reach 3, which is tributary to Reach 5 of Santa Ana River. The treatment facility includes influent screening, grit removal, primary clarifiers, pre-anoxic basins for denitrification, integrated fixed film activated sludge (IIFAS) system for nitrification followed by secondary clarification and tertiary treatment consisting of microfiltration, ultraviolet light (UV) disinfection, and reverse osmosis.

The reverse osmosis treatment process was added to the WRWRF in 2013 upon completion of the Yucaipa Valley Regional brineline. The Yucaipa Valley Regional brineline connects the WRWRF to the Santa Ana Watershed's Project Authority's Inland Empire Brine Line (IEBL), formerly known as the Santa Ana Regional Inceptor (SARI) and allows for the conveyance of reverse osmosis concentrate for treatment by Orange County Sanitation District. The reverse osmosis permeate is recombined with the WRWRF microfiltration effluent as a permitted diluent to meet TDS objectives for the Beaumont Management Zone, the Yucaipa Management Zone,

and the San Timoteo Management Zone as specified in the Santa Ana Region Basin Plan and the permits issued to the Yucaipa Valley Water District.

Recycled water produced by the Yucaipa Valley Water District will be reused within the District's sphere of influence for landscape irrigation and groundwater recharge and within the Beaumont-Cherry Valley Water District service area and the Bunker Hill Basin at a future date. The Yucaipa Valley Water District has established the goal of eliminating or reducing WWTP effluent discharge to the unlined reach of San Timoteo Creek by 2020. Whole or partial removal of discharge from the unlined reach of the San Timoteo Creek would improve the quality of groundwater in the San Timoteo Management Zone and supplement recycled water supplies available for reuse elsewhere in the service area, which is an objective of the RWQCB's Basin Plan Amendment and is a maximum benefit for the Management Zones in the Upper Santa Ana Watershed.

YVWD plans to increase recycled water usage in the region which provides the following benefits to the watershed:

- Provides an immediate alternate water supply for residential, business, industrial and institutional customers, thus releasing a like amount of local water resource for use during statewide drought emergencies.
- Conserves groundwater and surface water that would otherwise be used for irrigation use.
- Provides a reliable and drought proof water supply source.
- Provides an alternative to sewer discharge into the tributaries of the Santa Ana River and meets the Clean Water Act goal of zero discharge.

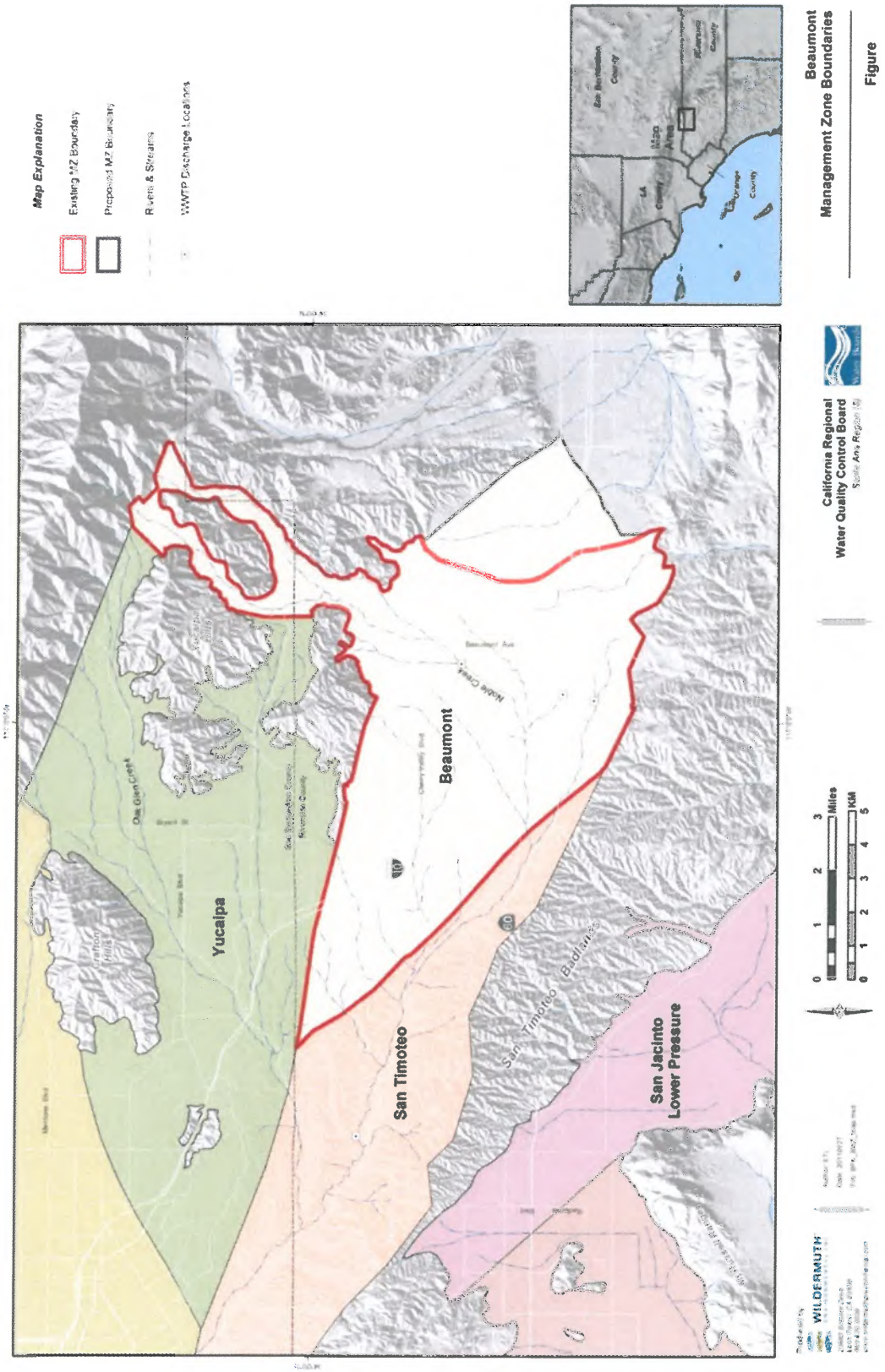
The San Timoteo Watershed Management Authority (STWMA) was formed in January 2001 by the Beaumont Cherry Valley Water District (BCVWD), the City of Beaumont, the South Mesa Water Company and Yucaipa Valley Water District (YVWD). STWMA formed a stakeholder group to develop a watershed scale water resources management program that would provide a safe and reliable water supply for all water users in the watershed. On June 26, 2002, STWMA submitted a proposal to establish "maximum benefit" objectives for TDS and nitrate-nitrogen for the Beaumont, San Timoteo and Yucaipa groundwater management zones, to accommodate water resource management projects, including the recharge of stormwater, imported State Project Water (SWP) and recycled water. On January 23, 2003, YVWD submitted a separate maximum benefit proposal for the Yucaipa and the San Timoteo Management Zones. The Regional Board adopted the maximum benefit proposals in 2004 as part of the larger salt and nutrient management plan update (Resolution R8-2004-0001). This included specific implementation commitments designed to comply with antidegradation policy requirements. The affected management zones are shown below and the maximum benefit and the antidegradation TDS and TIN objectives for the Yucaipa, San Timoteo, and the Beaumont Basin are shown in Table 1.

Table 1

Maximum Benefit TDS/TIN Limits

Groundwater Management Zone	TDS (mg/L) (10-yr volume weighted running average)	TIN (mg/L) (12-month flow weighted running average)
Maximum Benefit Limitations		
San Timoteo	400	5.0
Yucaipa	370	5.0
Beaumont	330	5.0
Antidegradation Limitations		
San Timoteo	300	2.7
Yucaipa	320	4.2
Beaumont	230	1.5

Source: RWQCB, 2007


Map Explanation
Existing MZ Boundary
Proposed MZ Boundary
Rivers & Streams
WWTP Discharge Locations
Beaumont
Yucaipa
San Timoteo
San Jacinto
Lower Pressure
Beaumont
Management Zone Boundaries
Figure
California Regional
Water Quality Control Board
Miles
KM

Salinity Management Plan for the Yucaipa Management Zone

Both "antidegradation" and "maximum benefit" objective for total dissolved solids (TDS) and nitrate-nitrogen (TIN) are specified for the Yucaipa Management Zone. The application of the "maximum benefit" objectives for the Yucaipa Management Zone is contingent on the implementation of a specific watershed scale water resources management plan by YVWD. YVWD provides both potable water service, recycled water service, and wastewater collection and treatment services within this service area. The "maximum benefit" objectives allow the management plan to be implemented. The plan supports and guides the responsible water management into the future. The plan includes recharge of high quality imported water, use of recycled water for landscape irrigation, recharge, and construction grading, and import of State Water Project (SWP) water into the Yucaipa Valley Regional Water Filtration Facility (YVRWFF) for potable water delivery to customers to reduce local groundwater pumping.

The Yucaipa Valley Water District has been and remains the sole agency responsible to implement the maximum benefit commitments in the Yucaipa Management Zone. Since the adoption of the maximum benefit management plan for the Yucaipa Management Zone, YVWD has been successfully implementing the maximum benefit commitments specified in Table 5-9a. YVWD has been conducting surface water and groundwater monitoring and reporting on schedule, contributing financially to the Basin Monitoring Program Task Force (BMPTF) to update the wasteload allocation model and the re-computation of the ambient quality of the groundwater management zones, and has upgraded the District's waste water treatment plant for nitrogen removal. YVWD has been proactive in salt management activities within its service area.

In 2008, the YVWD Board adopted Resolution No. 11-2008, which identified pollution prevention measures that the District will implement to eliminate pollution sources contributing to salinity in excess of the TDS objectives, such as requirements for new development to connect to sewers, a dry sewer collection system in anticipation of new development, and a sewer septic offset program.

Should the Regional Board make a finding that the lowering of water quality associated with the maximum benefit TDS and nitrate-nitrogen water quality objectives that are higher than historical water quality (the antidegradation objectives) is not of maximum benefit to the people of California, the YVWD will take the actions listed below to mitigate the excess salt loading above the antidegradation water quality objectives.

Basin Management Activities

The Yucaipa Management Zone consists of multiple subbasins of varying water groundwater quality and quantity. The basins are used and managed to varying extents by the Yucaipa Valley Water District, South Mesa Mutual Water Company, Western Heights Mutual Water Company, the City of Redlands, Oak Glen Mutual Water Company, and individual overlying property owners. In conjunction with the South Mesa Mutual Water Company, Western Heights Mutual Water Company, the City of Redlands, and the Regional State Project water contractors San Bernardino Valley Municipal Water District and the San Gorgonio Pass Water Agency, YVWD is participating in various basin studies and groundwater management plans for the Yucaipa Basin. YVWD is currently participating in the Yucaipa Basin Recharge Study, one of which objectives would be the determination of best locations for future recharge of stormwater, imported SWP water, and recycled water. YVWD also has initiated a cooperative efforts with the other water purveyors to manage the groundwater within the Yucaipa Basin, as directed by the Sustainable Groundwater Management Act. As a partner and facilitator in managing the Yucaipa Groundwater Basin,

YVWD will develop long term water quality monitoring programs for those subbasins it controls and can recommend water quality programs for the purveyors controlling other subbasins within the Yucaipa Management Zone. YVWD will continue to participate in basin studies that promote better understanding of the Yucaipa Groundwater Basin and the effects of recharge, to include recycled water, on the water quality within subbasins and cumulatively for the entire Yucaipa Groundwater Basin.

YVWD will continue monitoring and, in consultation with the RWQCB-SAR staff, accelerate such sampling if necessary.

Basin Water Quality Sampling and Monitoring

YVWD currently performs annual water quality sampling for water quality including TDS and TIN for the Yucaipa groundwater basin. YVWD is also investigating strategies for monitoring and predicting long term water quality improvements as a result of high quality imported and recycled water recharge within the Yucaipa Management Zone.

Stormwater Recharge Basins and Groundwater Recharge

The Yucaipa Valley Water District (District) has partnered with Yucaipa City and the San Bernardino County Flood Control District in the construction and operation of various flood control/water recharge facilities, with plans for future partnering at appropriate locations. The District partnered in the construction of the Oak Glen Flood Control and Water Recharge Basins and actively participate in the maintenance and operation of the basins in recharging water to the Yucaipa Basins. The District has also purchased and spread over 16,000 ac-ft of low TDS State Water Project (SWP) water in the Wilson Creek Flood Control and Spreading basins over the past decade. The District has an active program including a funding mechanism to purchase low TDS SWP water when it is available and recharge it into the Yucaipa Management Zone groundwater basins to both increase the water storage in the management zone and also to maintain and lower the groundwater TDS.

The District also purchases SWP water for direct treatment and use as potable water, thereby reducing groundwater pumping of high quality groundwater by an equivalent amount. The potable water treatment consists of both microfiltration and blending with a portion receiving nanofiltration resulting in lower TDS water being delivered to customers, which results in lower TDS water being applied within the Yucaipa Management Zone.

YVWD will continue to participate in recharge of stormwater, high quality imported SWP water, and high quality recycled water when available.

Basin Monitoring program Task Force

YVWD has been an active member of the TDS/TIN task Force and its successor the Basin Monitoring program Task Force since its inception in the early 1990's and will continue to be an active participant.

Pretreatment Program and Reduction and Elimination of Self-Generating Water Softeners

YVWD maintains an active pretreatment program. There are various commercial and retail businesses and a few industrial facilities within the YVWD sewer service area. TDS is actively monitored for the small number of pretreatment permits issued by YVWD.

The YVWD currently prohibits self-generating water softeners under YVWD Ordinance No. 49-1998 Use of Public Sewers. Self-generating water softeners are those where salt is continuously added versus cartridge type water softeners which have the salt cartridge replace and the use cartridge is removed off-site to a regenerating facility. YVWD does not actively police the use of residential water softeners however due to the difficulty of identifying users. The District relies instead on public education for its customers. At this time, it is not believed that the number of self-generating water softeners is causing a significant problem. YVWD does include a salt mitigation fee in the water acquisition fee for all new potable water services.

YVWD continues to investigate new methods of monitoring waste flow quantities and quality to protect the WRWRF from treatment 'upsets" and, should TDS begin to be a problem, YVWD will explore options to identify sources of high TDS and methods to eliminate the problem. Under the District's pretreatment program, commercial and industrial customer could be prohibited from excess salt discharge, or charged additional costs for the additional desalting treatment required. For residential customer, one option is rebates to have customers remove self-generating water softeners, although this would appear to reward customers for violating the District's sewer ordinance. A more probable solution would be to identify the source and place a "salt surface" on the customer to cover the additional desalting treatment required.

Elimination of Onsite Septic Systems to reduce the nitrogen loading in the Yucaipa Management Zone

YVWD is developing a program to facilitate the extension of sewers to areas still served by septic systems and to facilitate the connection of customers currently on septic systems but "fronted" by a sewer collection main. The District has installed an interceptor sewer (Western Regional Interceptor) in the Dunlap Acres portion of the City of Yucaipa. The majority of this area is currently not sewered. A number of collector mains have also been installed. The District is investigating and developing an incentive plan to facilitate the connection of properties fronted by the interceptor and collector mains. In conjunction with the development of an incentive plan for properties to connect to sewer and abandon their septic systems, YVWD is developing a funding program to extend the sewer collection system to addition properties.

The District has prepared preliminary plans and costs and conducted polls and public hearings to determine the level of interest in the installation of collector sewers in various sections of the Cities of Yucaipa and Calimesa that are on septic systems.

The District also actively participates and promotes the Santa Ana Region Septic Tank Off-Set Program. These efforts will continue, and could be accelerated in the case of rising TDS levels in the Yucaipa Management Zone.

Reverse Osmosis and the Yucaipa Brineline

The Yucaipa Valley Water District completed construction of a brineline extension from the Inland Empire Brine Line (previously called Santa Ana Regional Interceptor) terminus in San Bernardino east through Loma Linda, Redlands, and San Timoteo Canyon to Live Oak Canyon and northerly up Live Oak Canyon to the District's WRWRF in Crow Canyon in Yucaipa. YVWD has also completed construction of RO facilities at its WRWRF. The District has obtained the required permits to operate these facilities and continues to purchase additional brineline capacity when available to provide for future expansion of the desalting facilities as needed. The District also has invested in denitrification facilities to allow additional denitrification treatment as needed in the future. As a result, should the District need to meet antidegradation objectives, YVWD retains

the capability to meet the antidegradation objectives if necessary. Additionally, YVWD continues to explore new methodology and options to meet future demands while protecting and improving existing resources.

Salinity Management Plan for the San Timoteo Management Zone

The WRWRF discharge permit allows the facility to treat 8.0 million gallons per day (MGD) and discharge Title 22 effluent to San Timoteo Creek at Reach 3. The permit allows up to 1.6 MGD to be discharged at the "maximum benefit" objectives of annual flow weighted average TDS concentration not to exceed 400 mg/l annual flow weighted average TIN concentration not to exceed 6.7 mg/l. For flows in excess of 1.6 MGD where maximum benefit is not demonstrated the annual flow weighted average TDS concentration shall not to exceed 300 mg/l and the annual flow weighted average TIN concentration shall not to exceed 3.6 mg/l.

Should the Regional Board make a finding that the lowering of water quality associated with the maximum benefit TDS and nitrate-nitrogen water quality objectives that are higher than historical water quality (the antidegradation objectives) is not of maximum benefit to the people of California, the YVWD will take the actions listed below to mitigate the excess salt loading above the antidegradation water quality objectives.

YVWD currently performs bi-weekly monitoring and water quality sampling of TDS and TIN for surface flows of San Timoteo Creek and annual water quality sampling for TDS and TIN for the San Timoteo groundwater basin above and below the YVWD WRWRF effluent discharge location into the San Timoteo Creek. YVWD will continue monitoring and, in consultation with the RWQCB-SAR staff, accelerate such sampling if necessary.

As stated above, YVWD will eliminate effluent discharge to the unlined reach of San Timoteo Creek. The use of recycled water in YVWD recycled water system will reduce or discontinue WRWRF discharge to the creek. YVWD has obtained the permits required to remove 100 percent of the WRWRF effluent from the Creek, subject to the maintenance of habitat as listed for the adaptive habitat management for the Habitat Monitoring Program for San Timoteo Creek. Whole or partial removal of discharge from the unlined reach of the San Timoteo Creek would improve the quality of groundwater in the San Timoteo Management Zone.

In the case whereby the WRWRF effluent from the San Timoteo Creek, YVWD would employ the desalting and denitrification facilities at the WRWRF and the Yucaipa brineline to discharge effluent at the antidegradation objectives of annual flow weighted average TDS concentration shall not to exceed 300 mg/l and annual flow weighted average TIN concentration shall not to exceed 3.6 mg/l.

Salinity Management Plan for the Beaumont Management Zone

A portion of the YUWD service area overlies the Beaumont Management Zone. Both "antidegradation" and "maximum benefit" objective for total dissolved solids (TDS) and nitrate-nitrogen (TIN) are specified for the Beaumont Management Zone. The application of the "maximum benefit" objectives for the Beaumont Management Zone is contingent on the implementation of a specific watershed scale water resources management plan by YVWD. YVWD provides both potable water service, recycled water service, and wastewater collection and treatment services within this service area. The "maximum benefit" objectives allow the management plan to be implemented. The plan supports and guides the responsible water management into the future. The plan includes recharge of high quality imported water, use of recycled water for landscape irrigation, recharge, and construction grading, and import of State

Water Project (SWP) water into the Yucaipa Valley Regional Water Filtration Facility (YVRWFF) for potable water delivery to customers to reduce local groundwater pumping.

Within this portion of YVWD's service area that overlies the Beaumont Basin, YVWD will take similar steps to those listed under the Yucaipa Basin Management Zone to reduce salinity and nitrate-nitrogen levels in the groundwater to meet the maximum benefit objectives, and in the case where the Regional Board make a finding that the lowering of water quality associated with the maximum benefit TDS and nitrate-nitrogen water quality objectives that are higher than historical water quality (the antidegradation objectives) is not of maximum benefit to the people of California, the YVWD will take the actions listed under the Yucaipa Management Zone to mitigate the excess salt loading above the antidegradation water quality objectives.

Attachment California Regional Water Quality Control Board
Santa Ana Region
Resolution No R8-2014-0005