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Appendix 5-B
Comparative Hydrographs – Chronic Lowering of Groundwater Levels Representative Monitoring Points

Appendix 5-B

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Figure 5-B-1 PET0036 Potential Representative Monitoring Point Hydrograph Evaluation

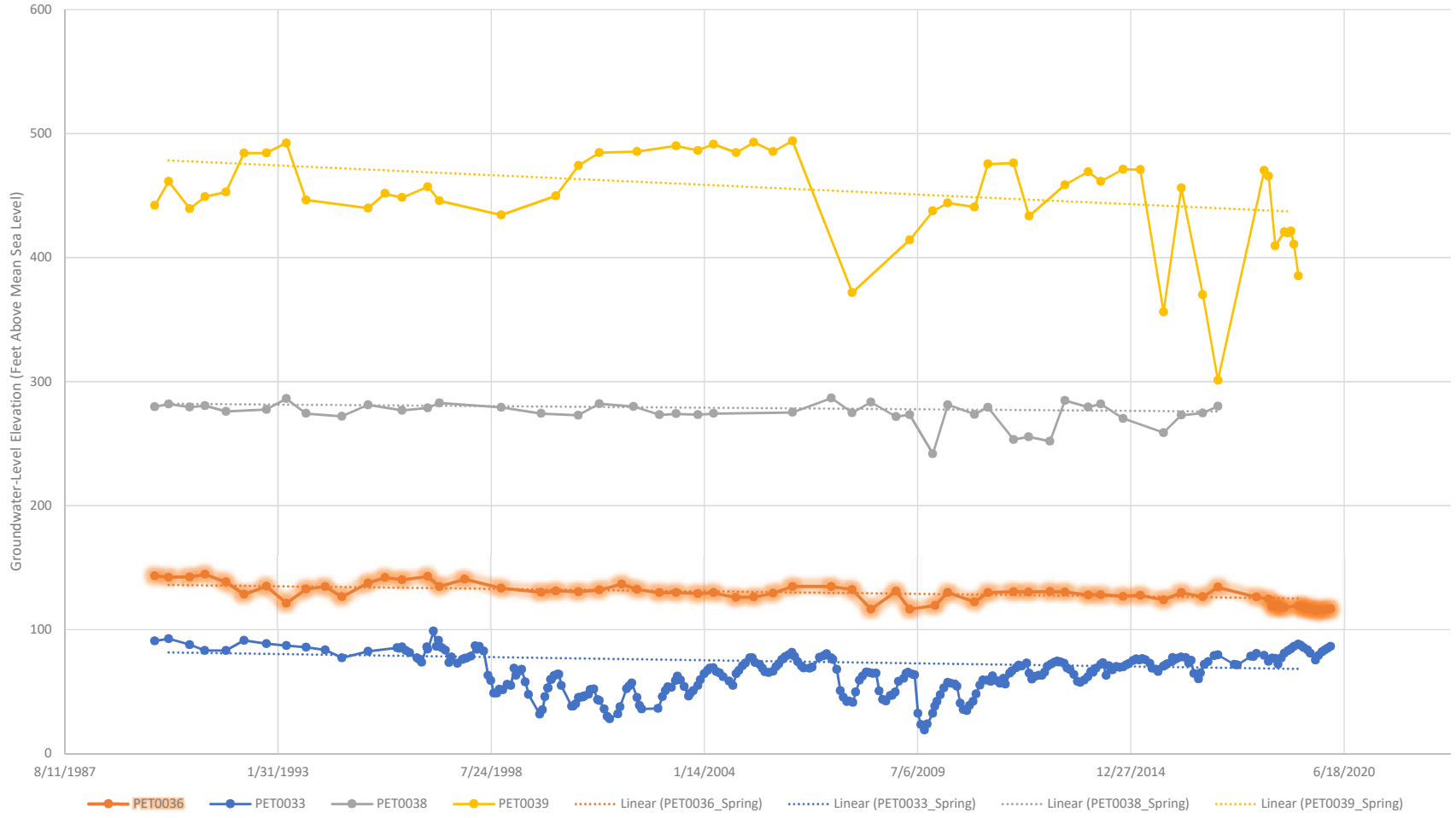
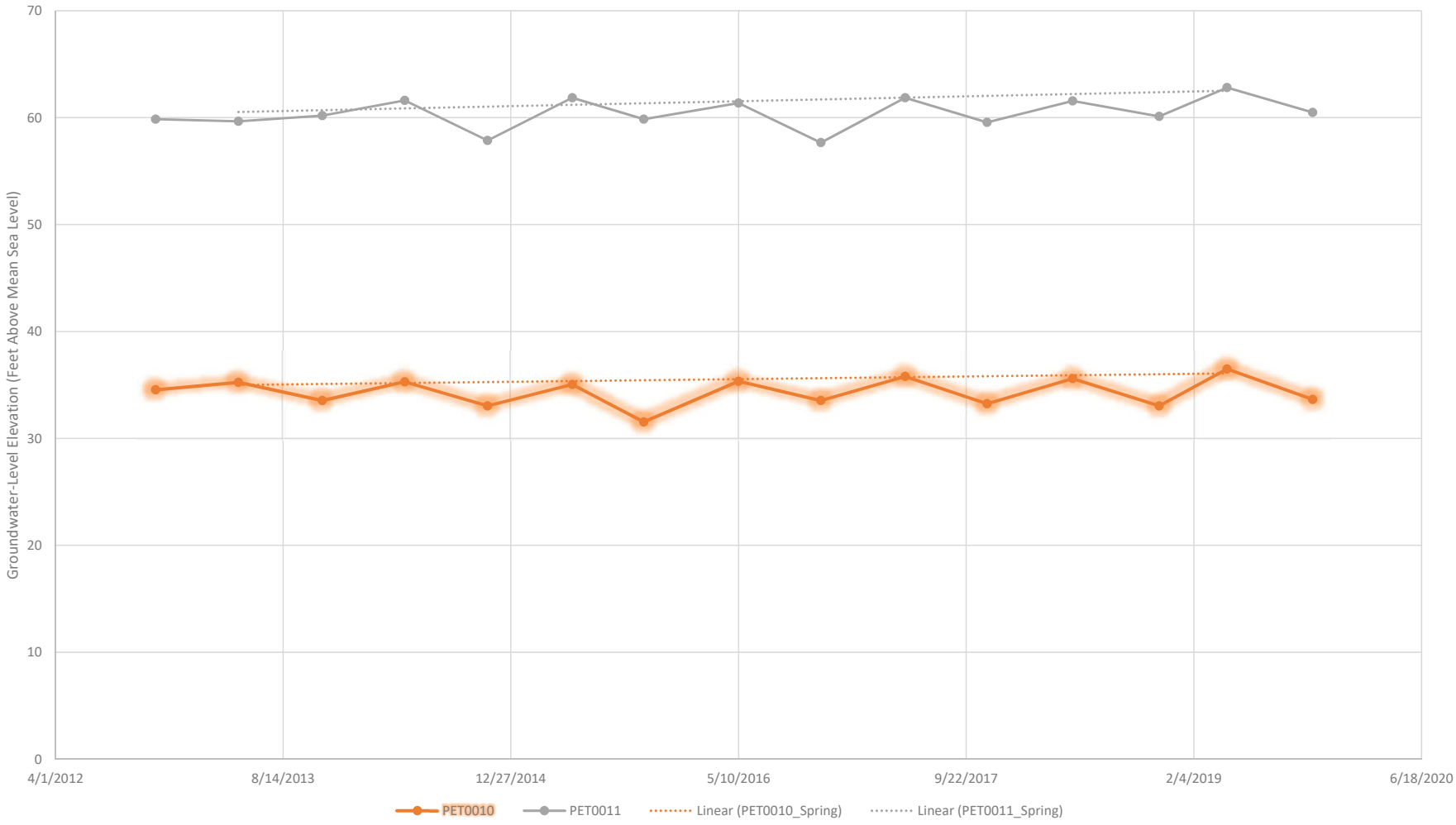


Figure 5-B-2 PET0010 Potential Representative Monitoring Point Hydrograph Evaluation



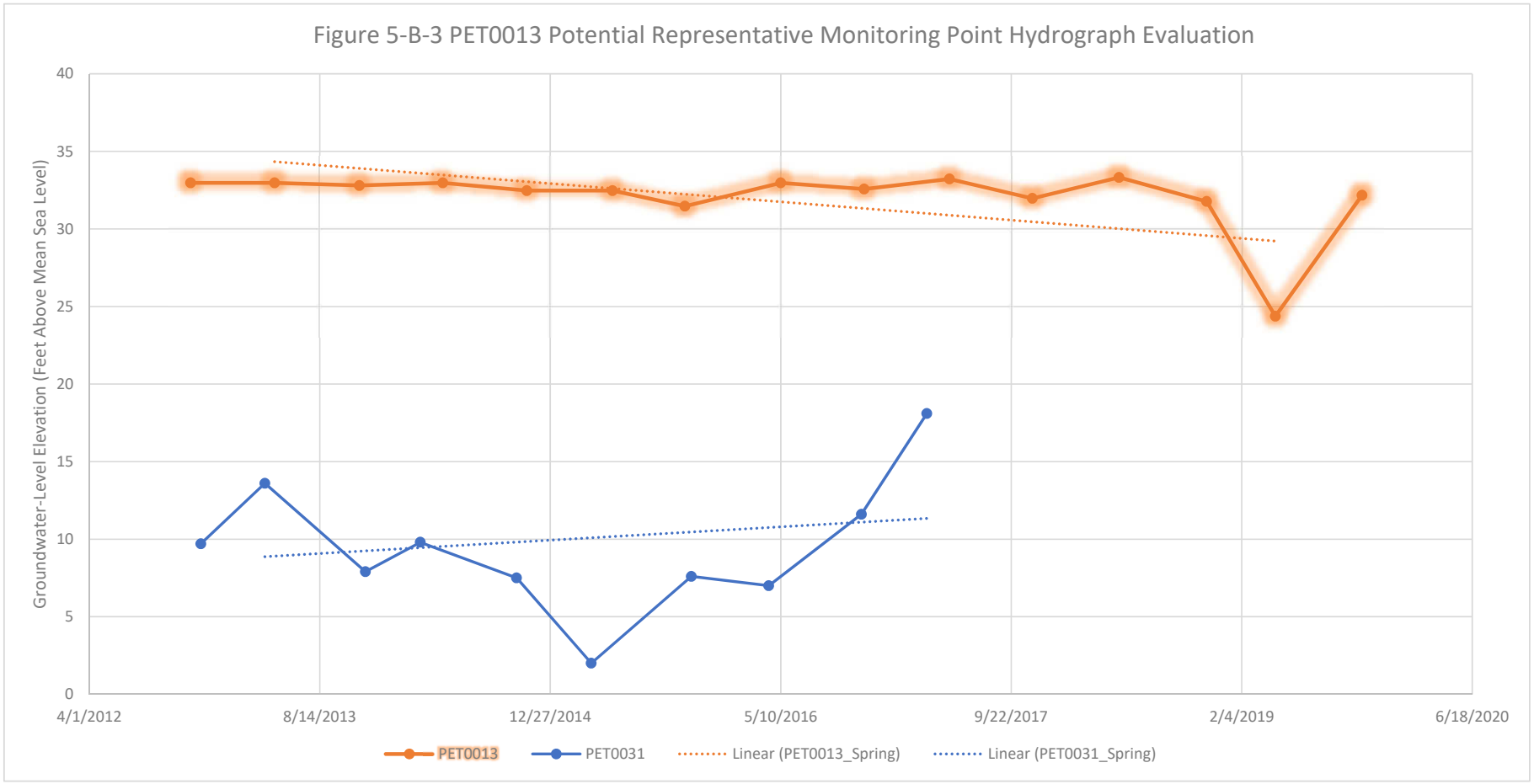


Figure 5-B-3 PET0013 Potential Representative Monitoring Point Hydrograph Evaluation
Groundwater-Level Elevation (Feet Above Mean Sea Level)
40
35
30
25
20
15
10
5
0
4/1/2012
8/14/2013
12/27/2014
5/10/2016
9/22/2017
2/4/2019
6/18/2020
PET0013
PET0031
Linear (PET0013_Spring)
Linear (PET0031_Spring)

Figure 5-B-4 PET0017 Potential Representative Monitoring Point Hydrograph Evaluation

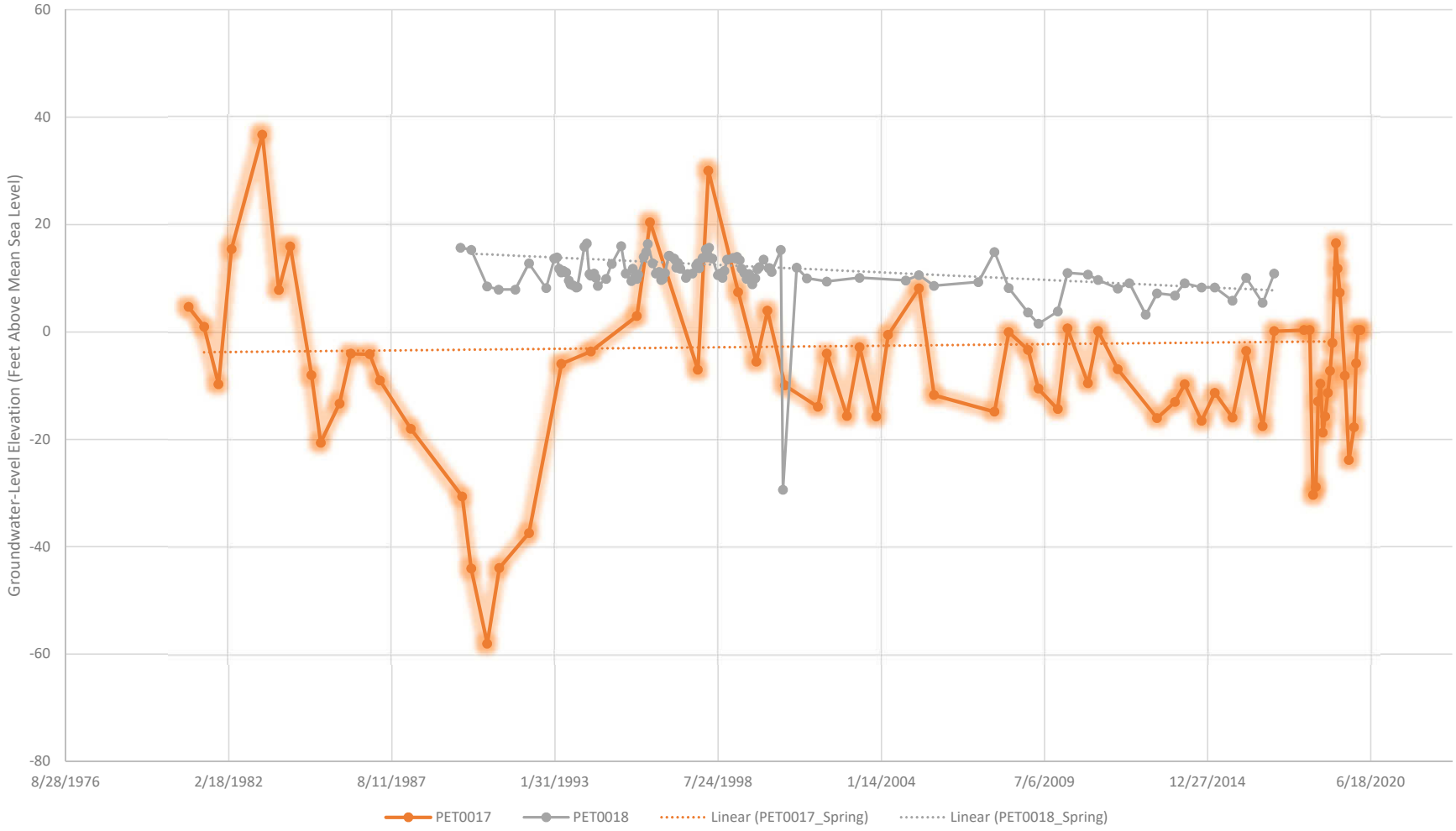
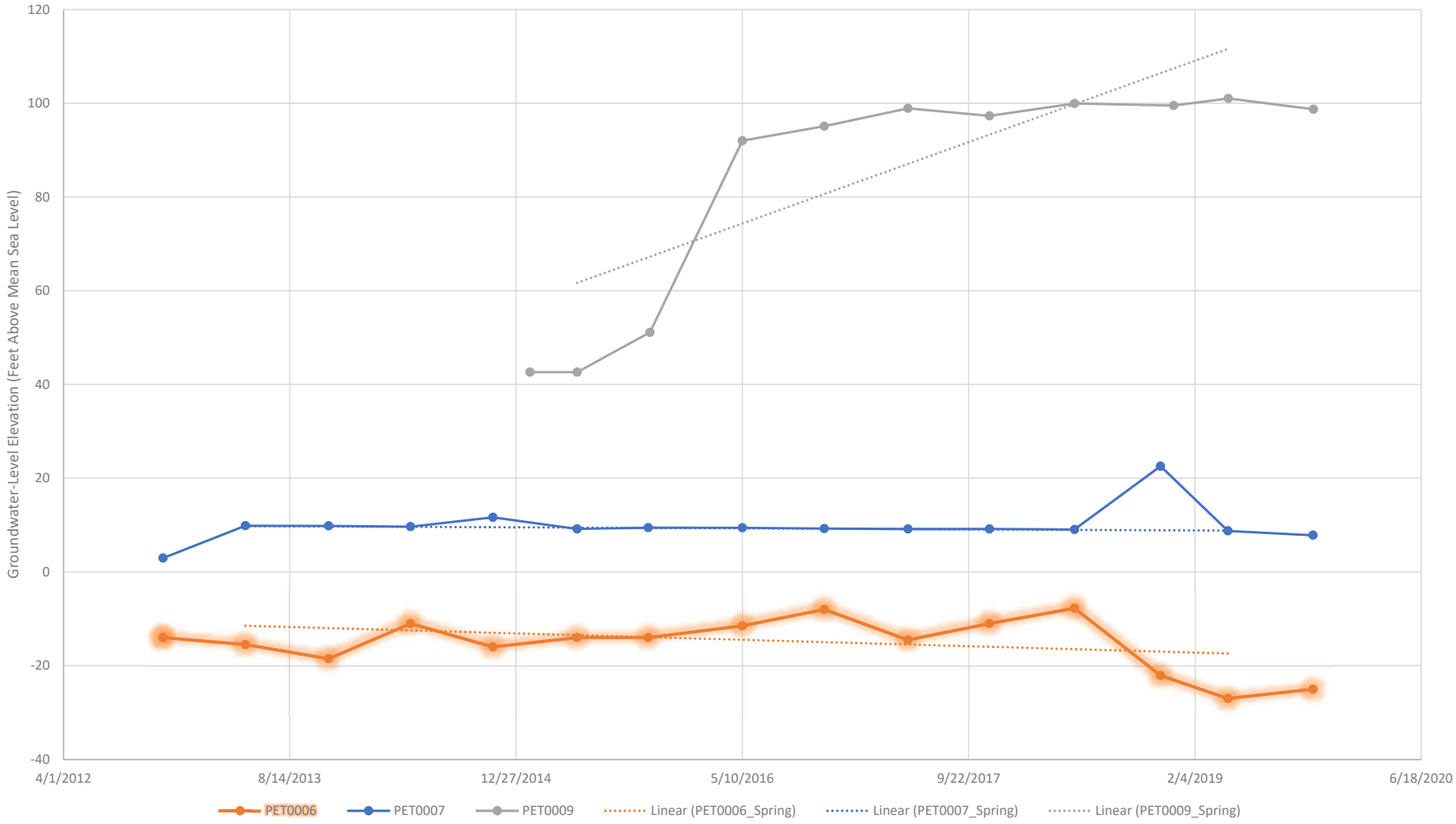


Figure 5-B-5 PET0006 Potential Representative Monitoring Point Hydrograph Evaluation



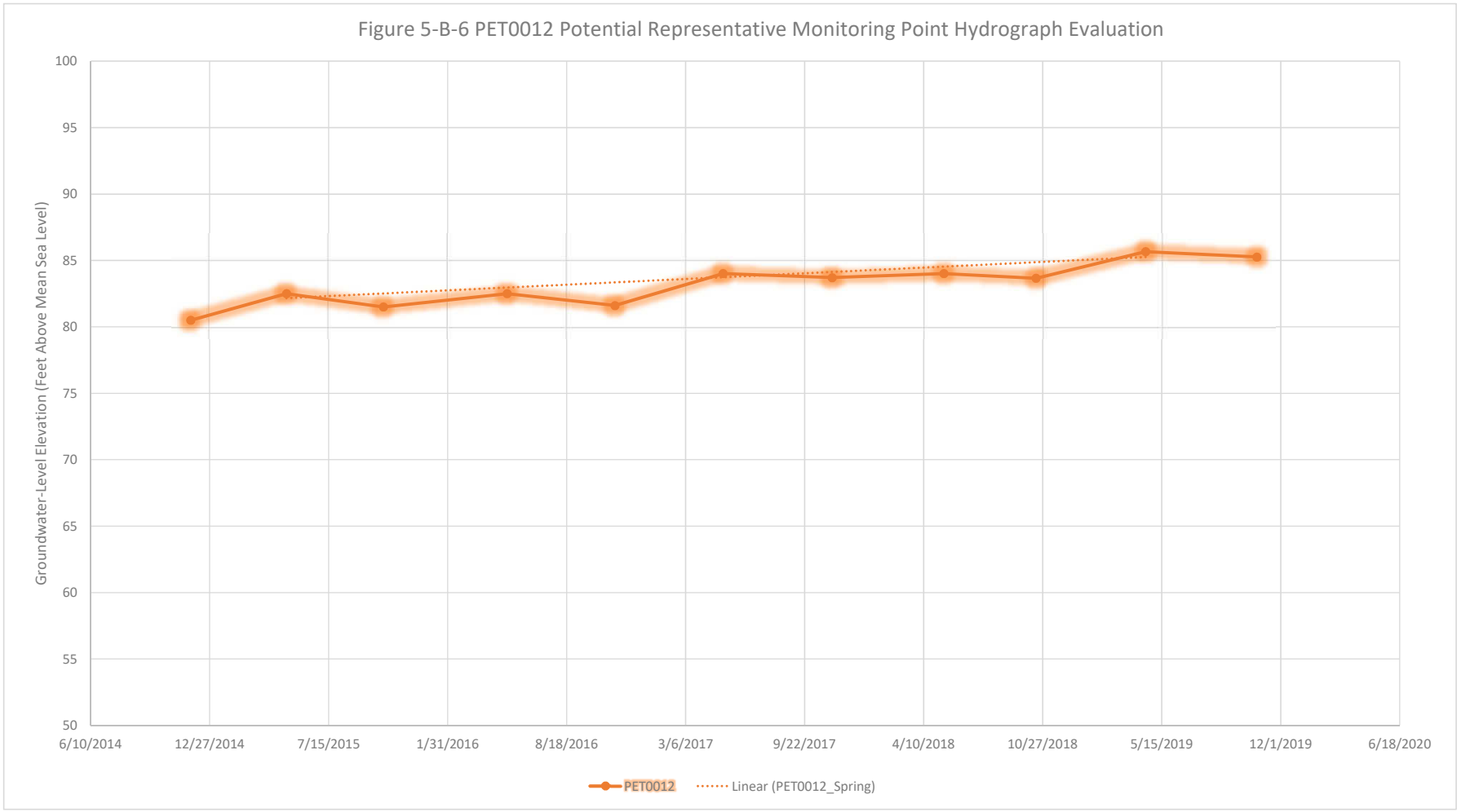


Figure 5-B-6 PET0012 Potential Representative Monitoring Point Hydrograph Evaluation
Groundwater-Level Elevation (Feet Above Mean Sea Level)
100
95
90
85
80
75
70
65
60
55
50
6/10/2014
12/27/2014
7/15/2015
1/31/2016
8/18/2016
3/6/2017
9/22/2017
4/10/2018
10/27/2018
5/15/2019
12/1/2019
6/18/2020
PET0012
Linear (PET0012_Spring)

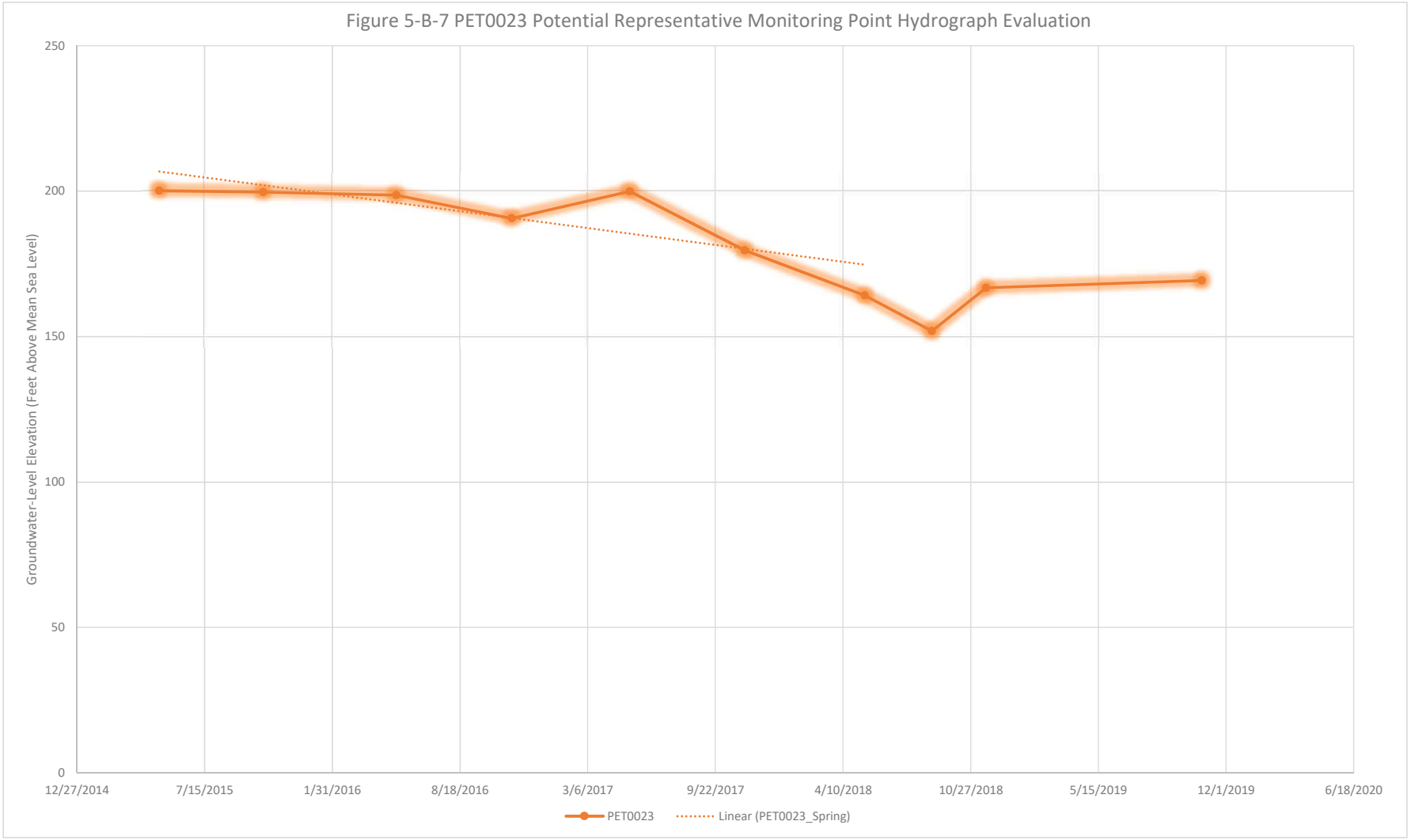
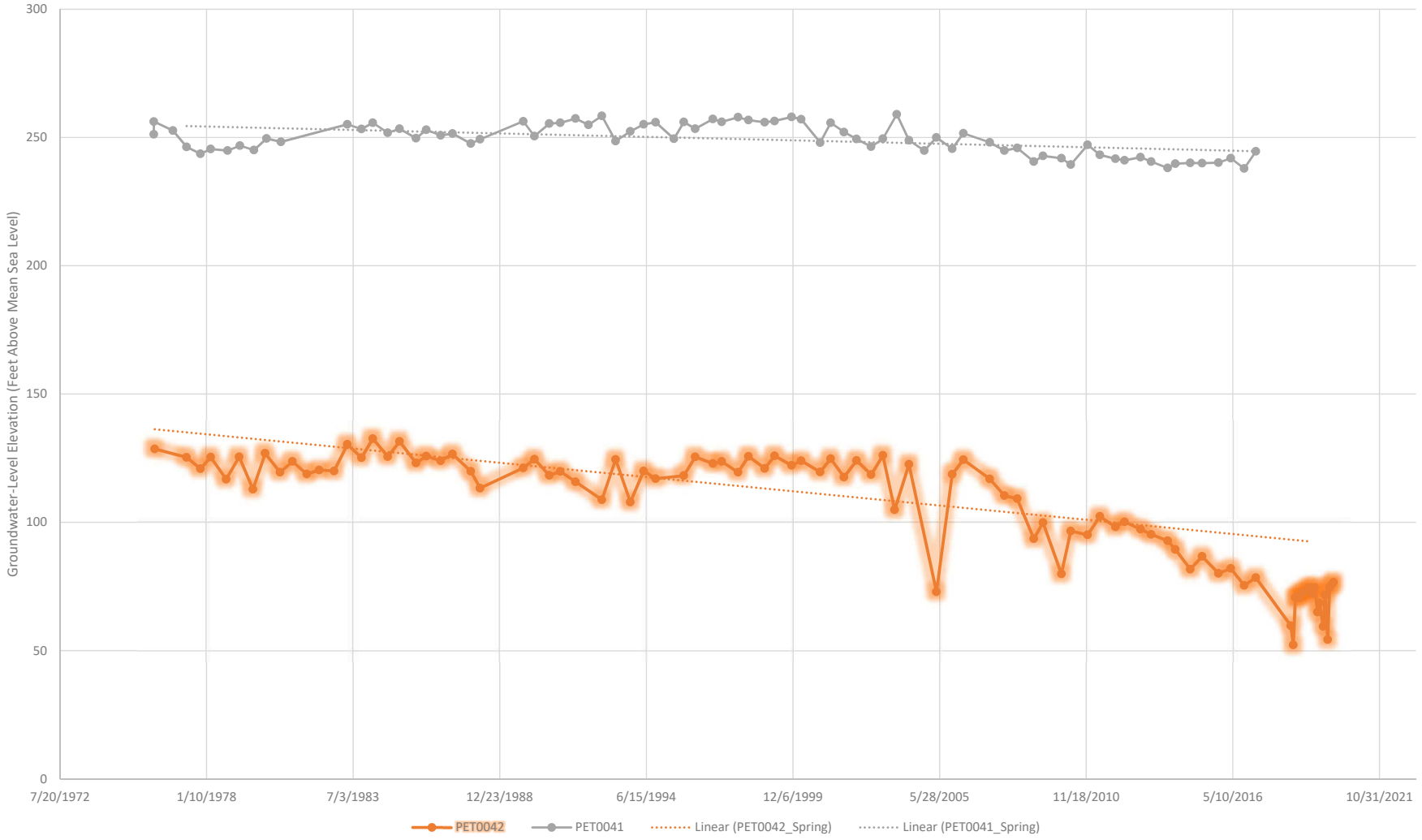
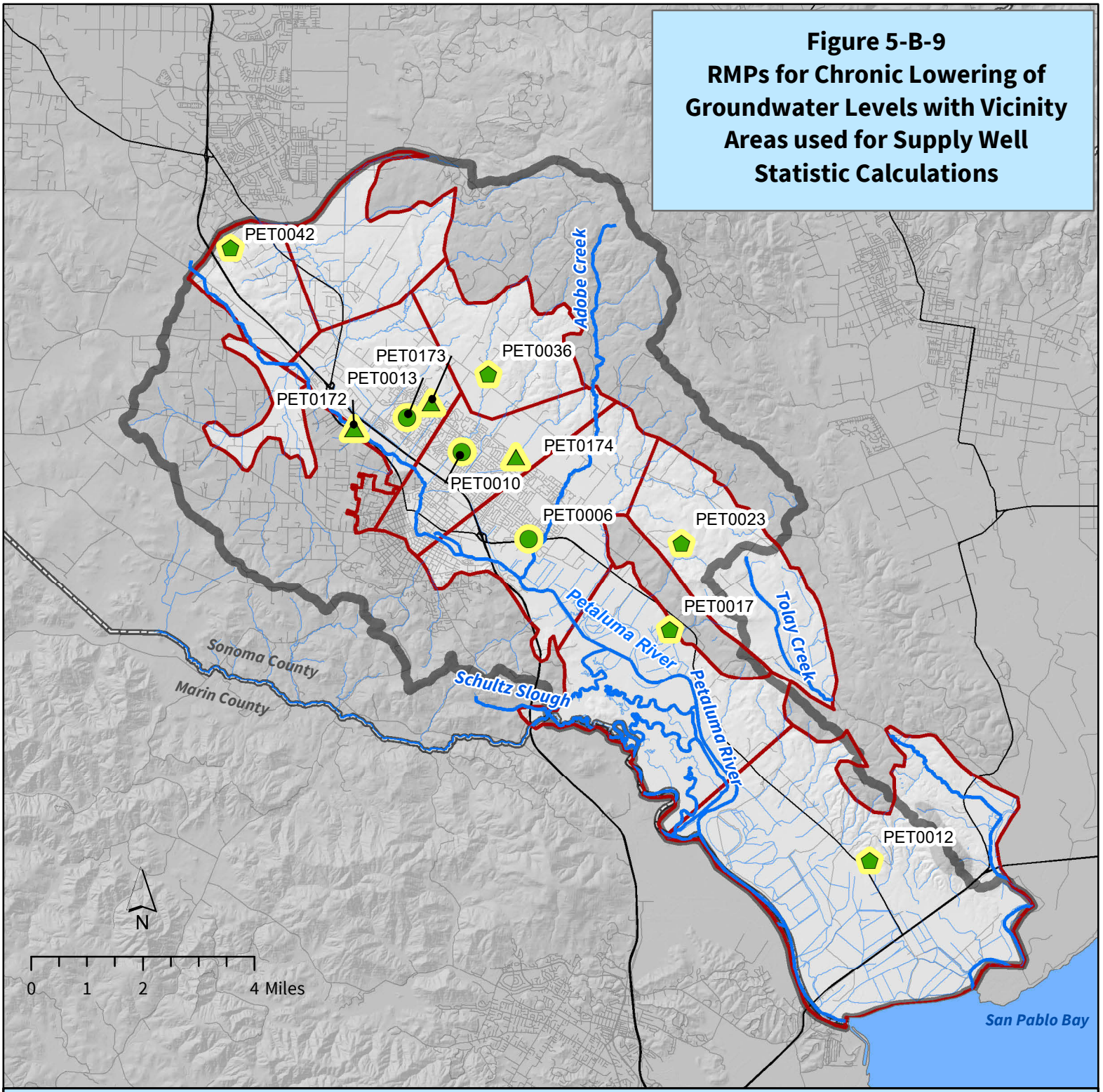


Figure 5-B-7 PET0023 Potential Representative Monitoring Point Hydrograph Evaluation
Groundwater-Level Elevation (Feet Above Mean Sea Level)
250
200
150
100
50
0
12/27/2014
7/15/2015
1/31/2016
8/18/2016
3/6/2017
9/22/2017
4/10/2018
10/27/2018
5/15/2019
12/1/2019
6/18/2020
PET0023
Linear (PET0023_Spring)

Figure 5-B-8 PET0042 Potential Representative Monitoring Point Hydrograph Evaluation





Filepath: T:\mbuttress\SGMA Monitoring Networks\Petaluma Valley\PET_GWL_RMPs.mxd Date prepared: 11/5/2021

Table 5-B-1
Representative Monitoring Points for Chronic Lowering of Groundwater Levels with Supply Well Statistics
Petaluma Valley Groundwater Basin

Data Management System ID						Data Record														
Station Name	Station Number	Type of Well	Well Depth (ft BTOC)	Screened Interval(s) (ft BTOC)	Current Monitoring Frequency	From	Until	Addditional Information	TOC Elevation* (ft MSL)	BOC Elevation* (ft MSL)	Well Owner	Well Screened in Single Aquifer?	Total Supply Wells in Vicinity Area[1]	Shallowest Supply Well in Vicinity Area (ft BGS)	98th Percentile Shallowest Supply Well in Vicinity Area (ft BGS)[2]	98th Percentile Shallowest Well Elev. at RMP (ft MSL)	95th Percentile Shallowest Supply Well in Vicinity Area (ft BGS)[2]	95th Percentile Shallowest Well Elev. at RMP (ft MSL)	90th Percentile Shallowest Supply Well in Vicinity Area (ft BGS)[2]	90th Percentile Shallowest Well at RMP (ft MSL)	Average Depth of Supply Wells in Vicinity Area (ft BGS)[2]
PET0012	381531N1224876W001	Observation	276	75-275	Semi-Annually	11/25/2014	10/15/2020	Sears Point	132.5	-143.5	Private	Yes	85	27	120	12.50	130	2.50	157	-24.50	369
PET0017	382117N1225556W001	Supply	180	140-180	Monthly	10/13/1980	12/9/2020		51.93	-128.1	Private	Yes	43	39	60	-8.07	93	-41.07	130	-78.07	267
PET0023	382342N1225525W001	Supply	370	30-370	Semi-Annually	5/5/2015	10/15/2020	Cardinaux	237.17	-132.8	Private	Yes	25	155	200	37.17	230	7.17	248	-10.83	483
PET0006	381402N1223610W001	Municipal	229	89-229	Semi-Annually	11/7/2012	10/15/2020	Casa de Arroyo	19.97	-209.0	City of Petaluma	Yes	67	34	53	-33.03	59	-39.03	80	-60.03	309
PET0174	PET-F06-01_Garfield	Observation	35.5	15-35	Hourly	11/26/2019	Present	East Washington Creek at Garfield Dr.	65.95	30.45	PVGSA	Yes	91	34	58	7.95	60	5.95	75	-9.05	228
PET0010	381522N1223733W001	Municipal	425	305-382	Semi-Annually	11/7/2012	10/15/2020	Tahola	49.04	-376.0	City of Petaluma	Yes				-8.96		-10.96		-25.96	
PET0036	382766N1226179W001	Supply	177	158-177	Monthly	12/1/1989	12/9/2020	05N07W15K002M	158.24	-18.8	Private	Yes	64	30	100	58.24	106	52.24	158	0.24	350
PET0172	PET-D06-01_Corona	Observation	40.5	20-40	Hourly	11/25/2019	Present	Petaluma River at Old Cornona Rd	27.99	-12.51	PVGSA	Yes	227	35	54	-26.01	80	-52.01	100	-72.01	235
PET0173	PET-E05-01_Casella	Observation	45.5	35-45	Hourly	11/25/2019	Present	Capri Creek at Casella Way	60.97	15.47	PVGSA	Yes				6.97		-19.03		-39.03	
PET0013	381553N1223839W001	Municipal	562	52-538	Semi-Annually	11/7/2012	10/15/2020	Station 1401	42.47	-519.5	City of Petaluma	Yes				-11.53		-37.53		-57.53	
PET0042	383076N1227041W001	Supply	155	30-150	Monthly	2/3/1976	12/9/2020	05N08W02H001M	160	5.0	Private	Yes	237	65	92	68.00	108	52.00	155	5.00	257

Notes
ft BTOC - Feet Below Top of Casing
TOC Elevation - Top-of-Casing Elevation
BOC Elevation - Bottom-of-Casing Elevation
* - Accuracy of Well Casing Elevation Data Varies. Top-of-Casing Elevations to be Surveyed in Accordance with SGMA Requirements
ft MSL - Feet Above Mean Sea Level
ft BGS - Feet Below Ground Surface
1: Only Wells with Known Total Depth Used in Calculations. This Represents Only a Subset of All Supply Wells in the Subbasin
2: Statistics Calculated Using Only Supply Wells With Total Depths of 40 Feet or Greater
SCWA - Sonoma County Water Agency
PVGSA - Petaluma Valley Groundwater Sustainability Agency