

Appendix C Water Level Hydrographs

**APPENDIX C
WATER LEVEL HYDROGRAPHS**

LIST OF HYDROGRAPHS

Shallow Wells

ES-01	ES-02	ES-03	ES-04	ES-05	ES-06	ES-07	ES-08	ES-09	ES-10
ES-11	ES-12	ES-13	ES-14	ES-15	ES-16	ES-17	ES-18	ES-19	ES-20
ES-21	ES-22	ES-23	ES-24	ES-25	ES-26	ES-27	ES-28	ES-29	ES-30
ES-31	ES-32	HAR-02	HAR-03	HAR-04	HAR-09	HAR-11	HAR-12	HAR-13	HAR-14
HAR-15	HAR-27	HAR-28	HAR-29	HAR-30	HAR-31	HAR-32	HAR-33	HAR-34	PZ-035
PZ-059	PZ-060	PZ-070	PZ-074	PZ-076	PZ-077	PZ-078	PZ-089	PZ-095	PZ-097
PZ-108	PZ-123	PZ-124	RS-01	RS-02	RS-03	RS-04	RS-05	RS-06	RS-07
RS-08	RS-09	RS-10	RS-11	RS-12	RS-13	RS-14	RS-15	RS-16	RS-17
RS-18	RS-19	RS-20	RS-21	RS-22	RS-23	RS-24	RS-25	RS-27	RS-28
RS-29	RS-30	RS-31	RS-32	RS-33	RS-34	RS-54	SH-01	SH-02	SH-03
SH-04	SH-05	SH-06	SH-07	SH-08	SH-09	SH-10	SH-11		

Chatsworth Formation Wells

HAR-01	HAR-05	HAR-06	HAR-07	HAR-08	HAR-16	HAR-17	HAR-18	HAR-19	HAR-20
HAR-21	HAR-22	HAR-23	HAR-24	HAR-25	HAR-26	OS-24	OS-25	OS-26	RD-01
RD-02	RD-03	RD-04	RD-05A	RD-05B	RD-05C	RD-06	RD-07	RD-08	RD-09
RD-10	RD-11	RD-12	RD-13	RD-14	RD-15	RD-16	RD-17	RD-18	RD-19
RD-20	RD-21	RD-22	RD-23	RD-24	RD-26	RD-27	RD-29	RD-30	RD-31
RD-32	RD-33A	RD-33B	RD-33C	RD-34A	RD-34B	RD-34C	RD-35A	RD-35B	RD-36A
RD-36B	RD-36C	RD-36D	RD-37	RD-38A	RD-38B	RD-39A	RD-39B	RD-40	RD-41A
RD-41B	RD-41C	RD-42	RD-43A	RD-43B	RD-43C	RD-44	RD-45A	RD-45B	RD-45C
RD-46A	RD-46B	RD-47	RD-48A	RD-48B	RD-48C	RD-49A	RD-49B	RD-49C	RD-50
RD-51A	RD-51B	RD-51C	RD-52A	RD-52B	RD-52C	RD-53	RD-54A	RD-54B	RD-54C
RD-55A	RD-55B	RD-56A	RD-56B	RD-57	RD-58A	RD-58B	RD-58C	RD-59A	RD-59B
RD-59C	RD-60	RD-61	RD-62	RD-63	RD-64	RD-65	RD-66	RD-67	RD-68A
RD-68B	RD-69	RD-70	RD-71	RD-72	RD-73	RD-74	RD-75	RD-76	RD-77
RD-78	RD-80	RD-81	RD-82	RD-83	RD-84	RD-85	RD-86	RD-87	RD-88
RD-89	RD-90	RD-91	RD-92	RD-93	RD-94	RD-95	RD-96	RD-97	RD-98
RD-104	WS-04A	WS-05	WS-06	WS-07	WS-08	WS-09	WS-09A	WS-09B	WS-11
WS-12	WS-13	WS-14	WS-SP						

FLUTe System Wells

RD-21	RD-22	RD-33A	RD-50	RD-54A	RD-57	RD-65	RD-72
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Westbay System Wells

RD-31	OS-09R
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NOTES AND ABBREVIATIONS

ft MSL - feet above mean sea level

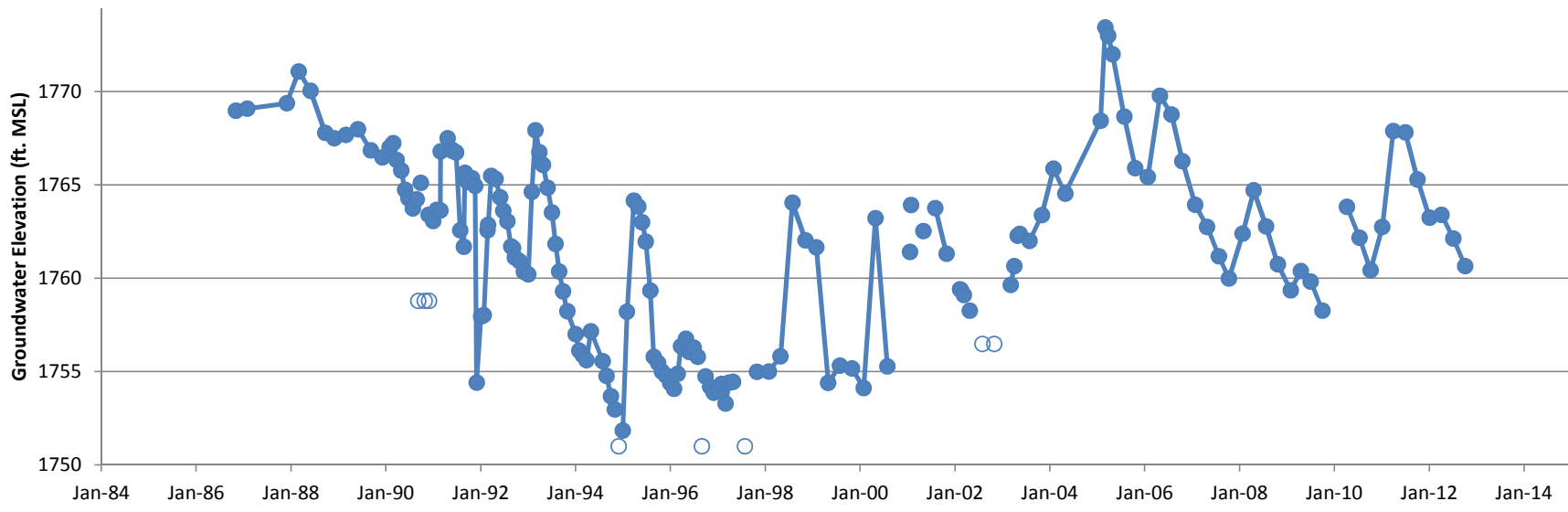
Hydrographs are provided for all water level monitoring program wells with water level data available. Data plotted on these hydrographs were downloaded from the Boeing Environmental Data Management System (BEDMS) with the exception of FLUTE and Westbay system hydrographs.

Groundwater elevations for measurements taken when wells were dry are plotted as the approximate elevation of the bottom of the screen interval or the total depth of the well for wells with no screened casing. Water level points may be plotted below the dry points in cases where water levels were measured below the bottom of the screen interval representing standing water in the bottom of the well and are not representative of water level in the formation.

When hydrostatic water elevations are unavailable due to artesian conditions observed at the well head, the measuring point elevation (MPE) is plotted.

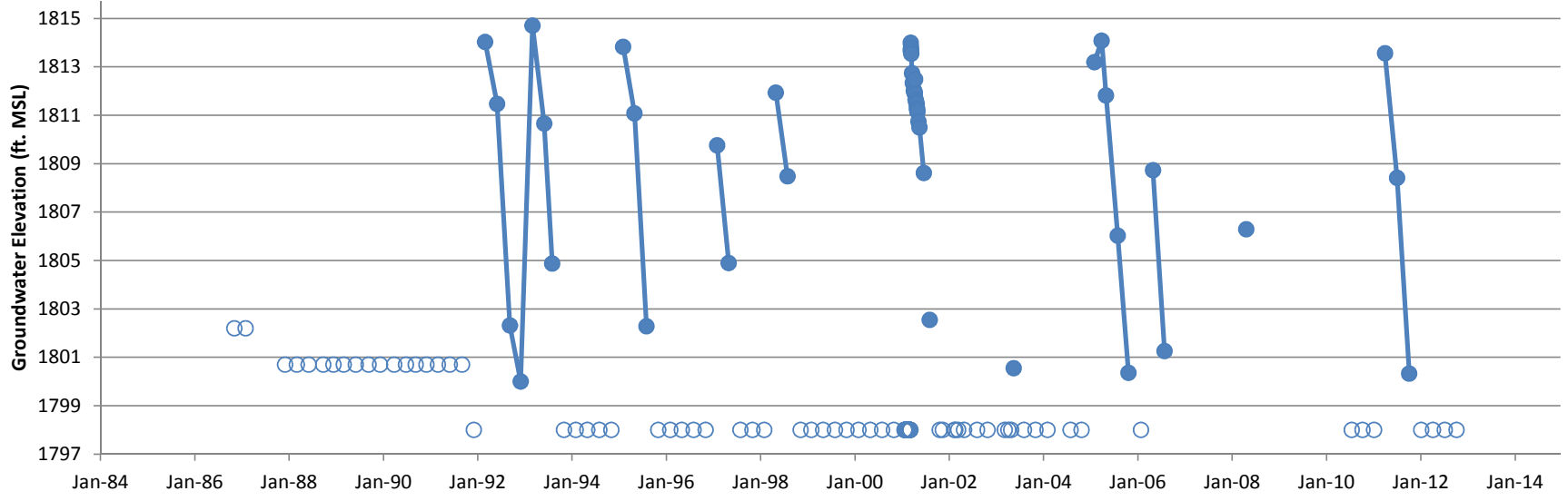
Water levels are not plotted on FLUTE hydrographs for ports that were consistently dry, were unverted, or had a consistently malfunctioning transducer.

SHALLOW WELLS



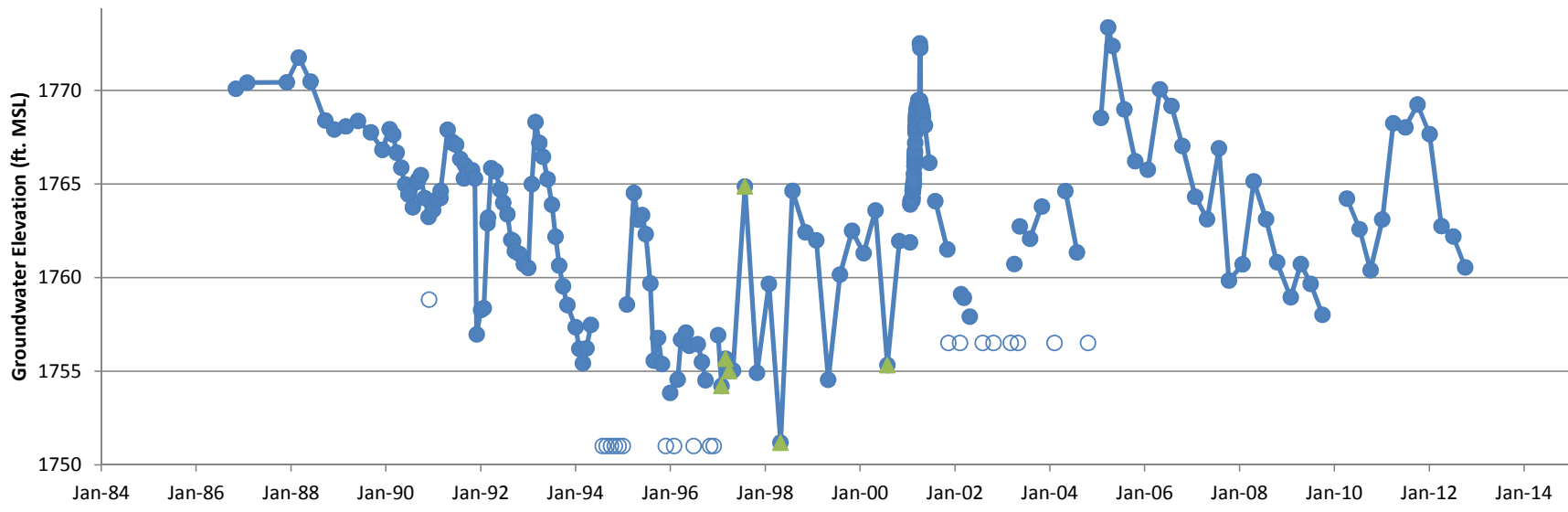
Hydrograph
Groundwater Extraction Well ES-01

—●— Groundwater Elevation ○ Dry ▲ Pumping



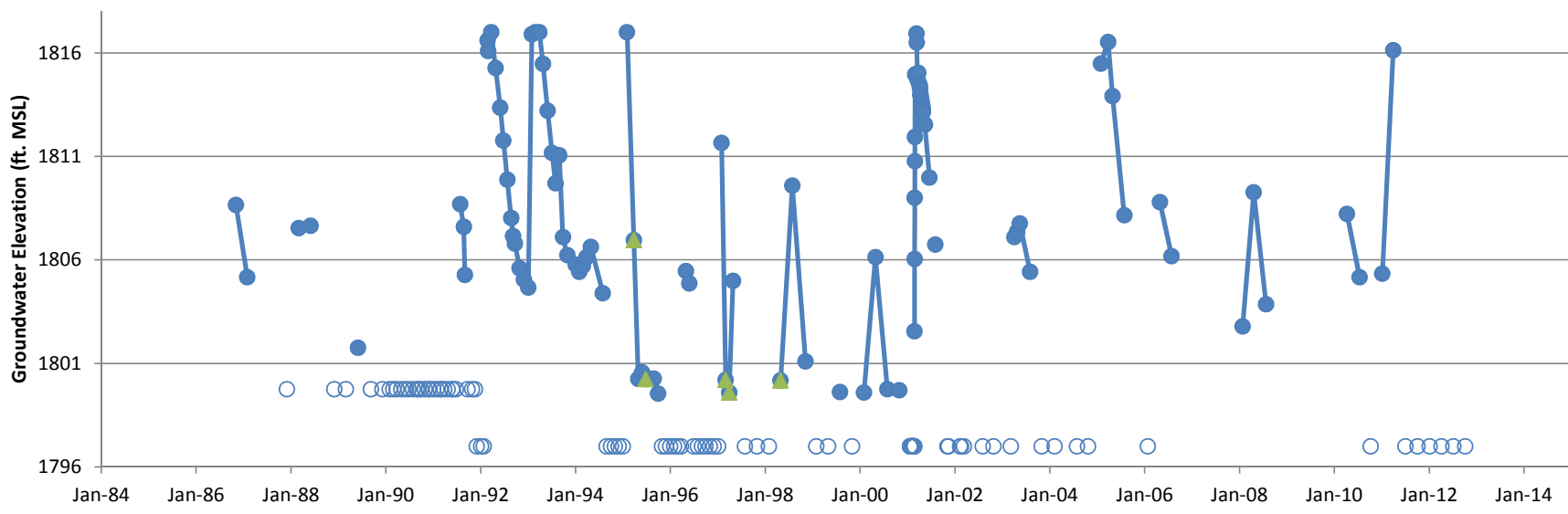
Hydrograph
Groundwater Monitoring Well ES-02

—●— Groundwater Elevation
 ○ Dry
 ▲ Pumping



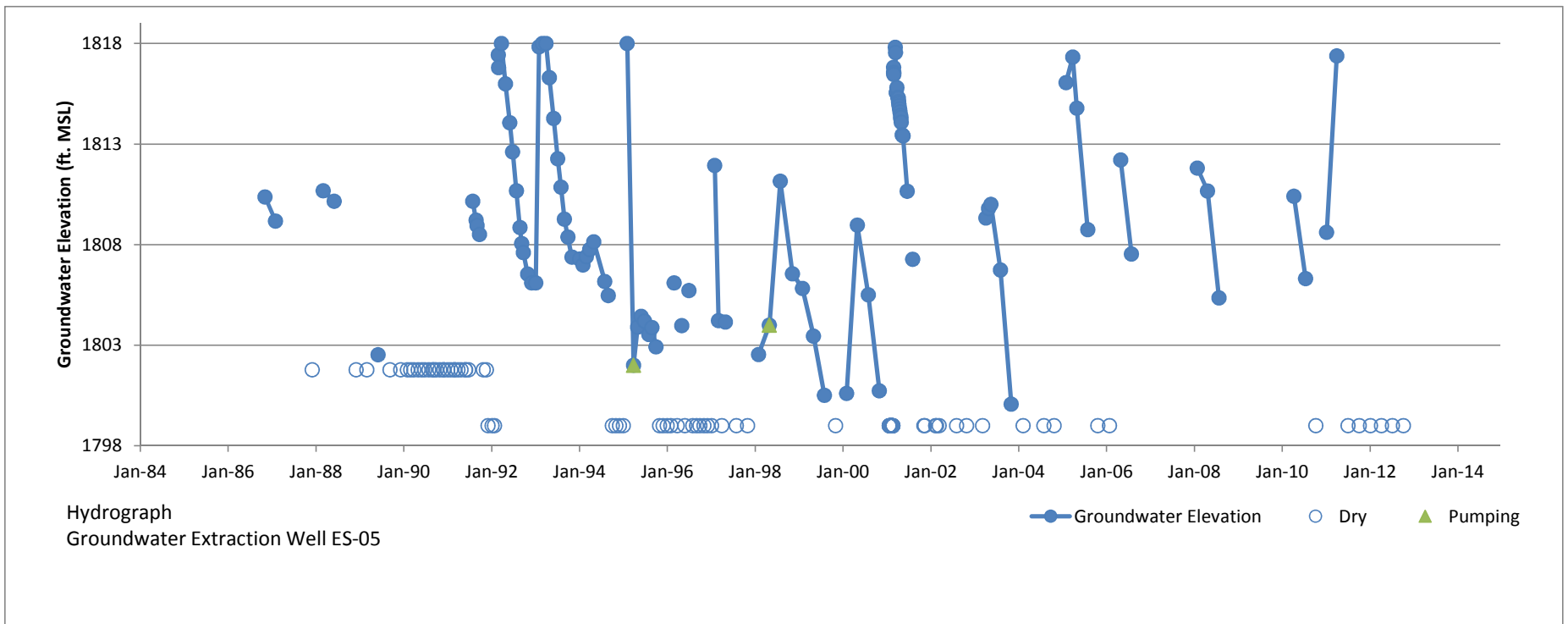
Hydrograph
Groundwater Extraction Well ES-03

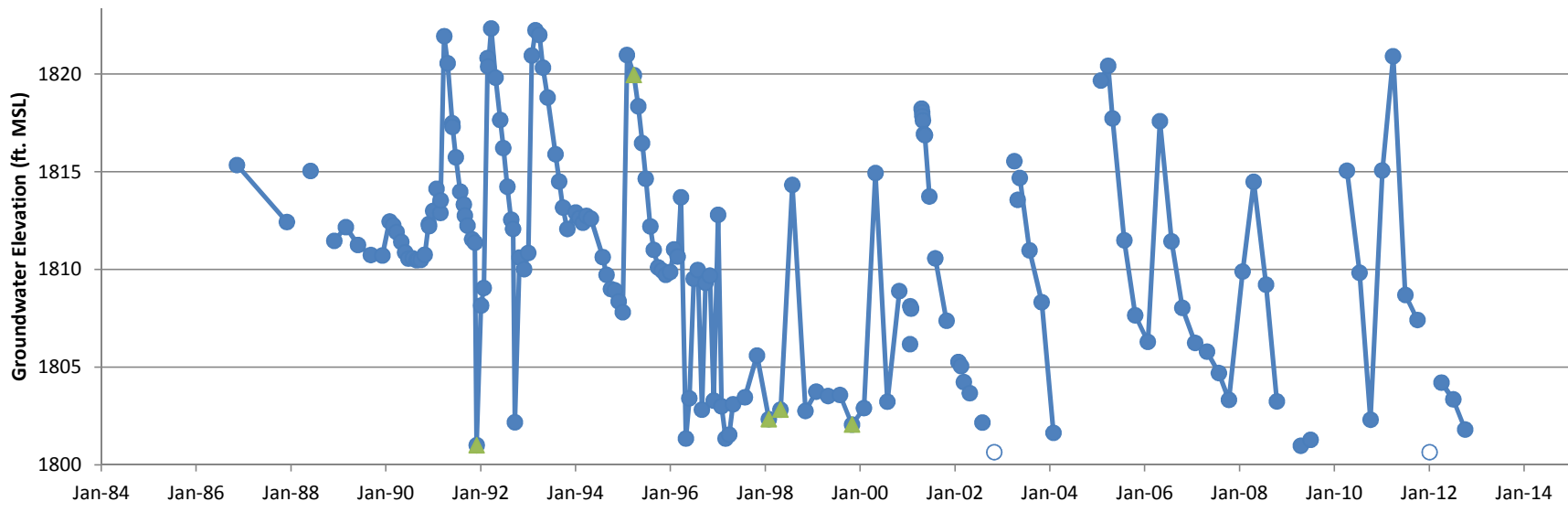
● Groundwater Elevation
 ○ Dry
 ▲ Pumping



Hydrograph
Groundwater Extraction Well ES-04

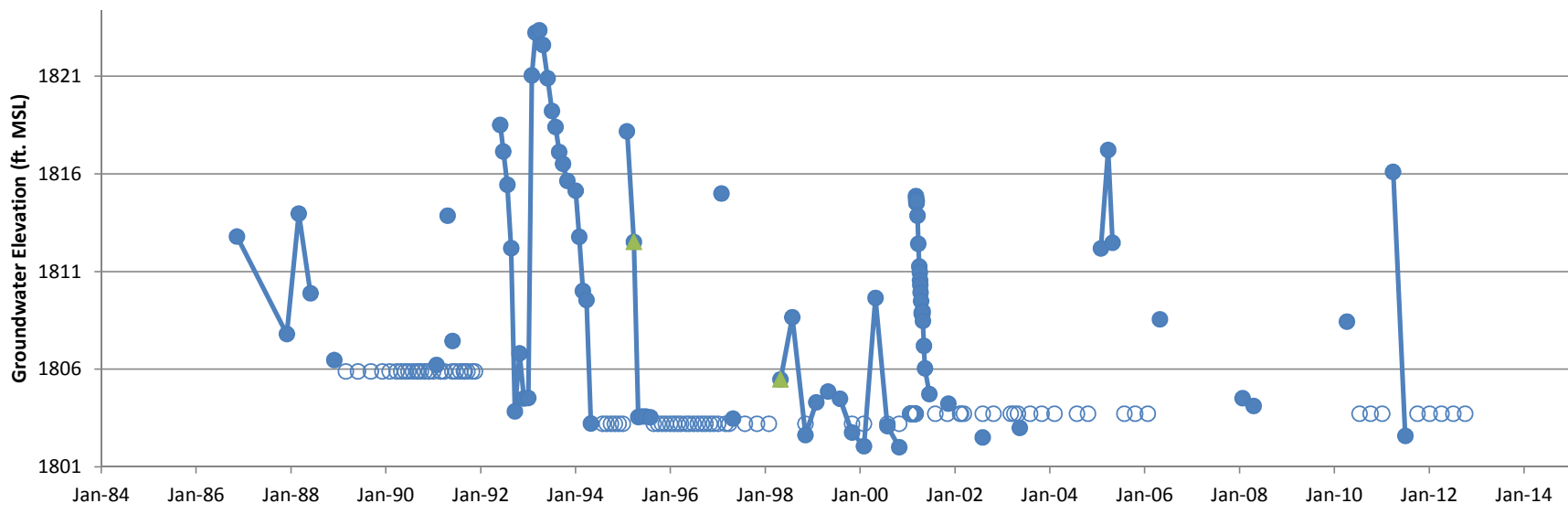
—●— Groundwater Elevation ○ Dry ▲ Pumping





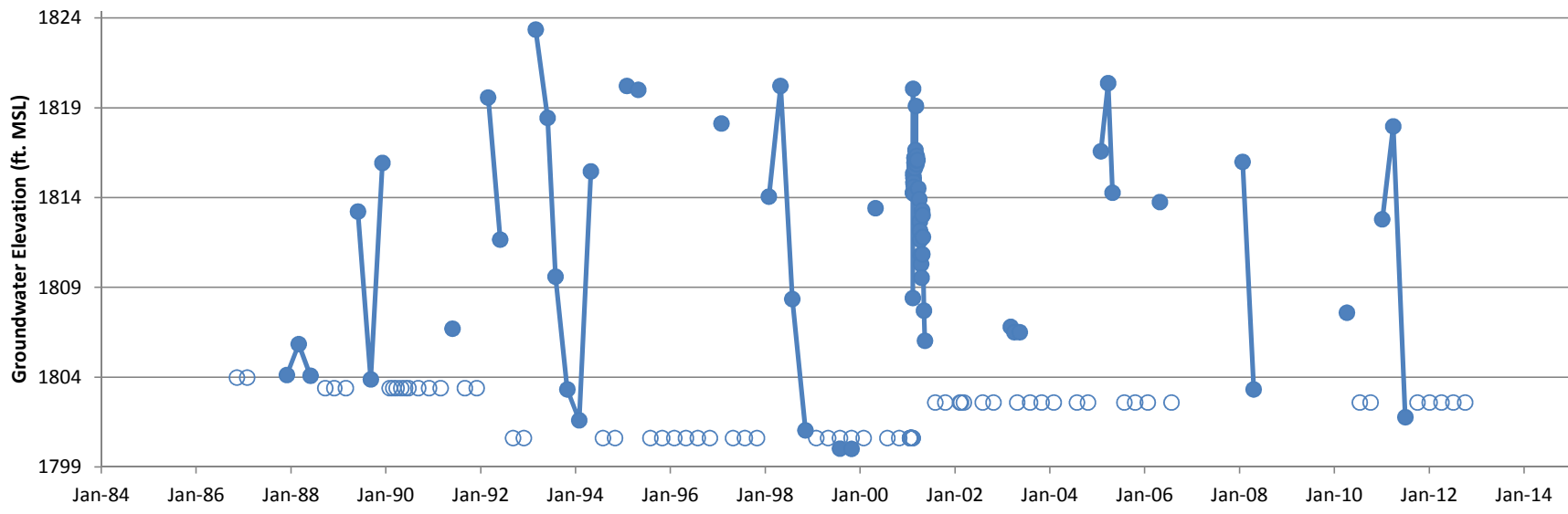
Hydrograph
Groundwater Extraction Well ES-06

—●— Groundwater Elevation ○ Dry ▲ Pumping



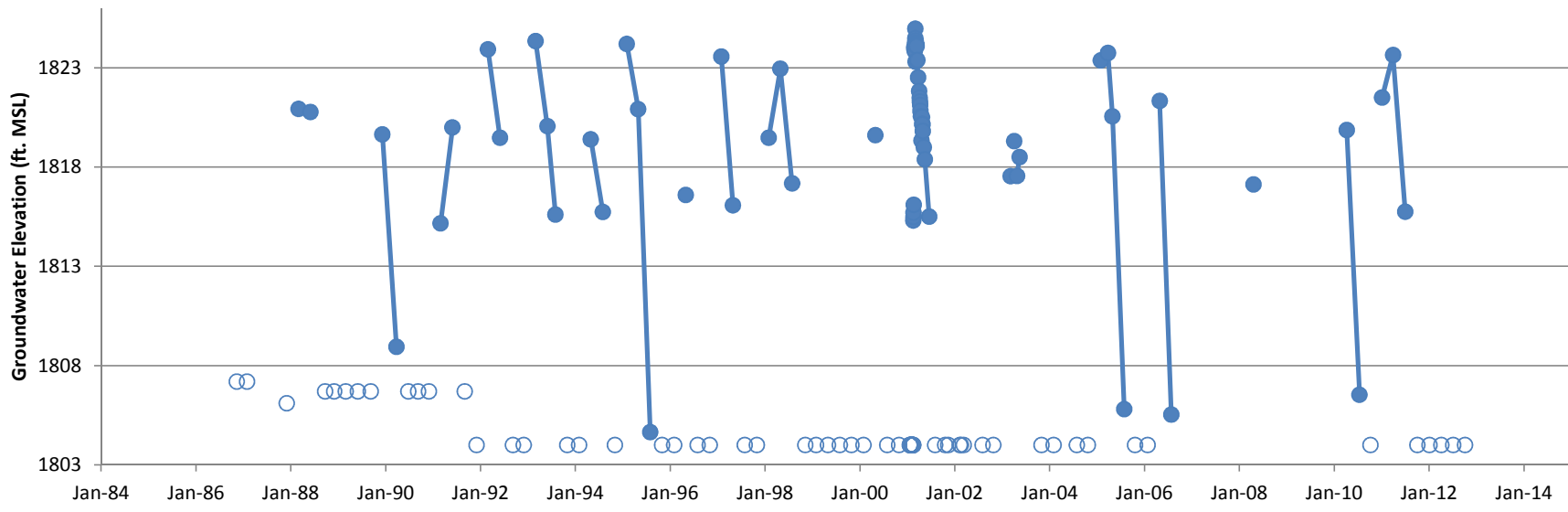
Hydrograph
Groundwater Extraction Well ES-07

—●— Groundwater Elevation
 ○ Dry
 ▲ Pumping



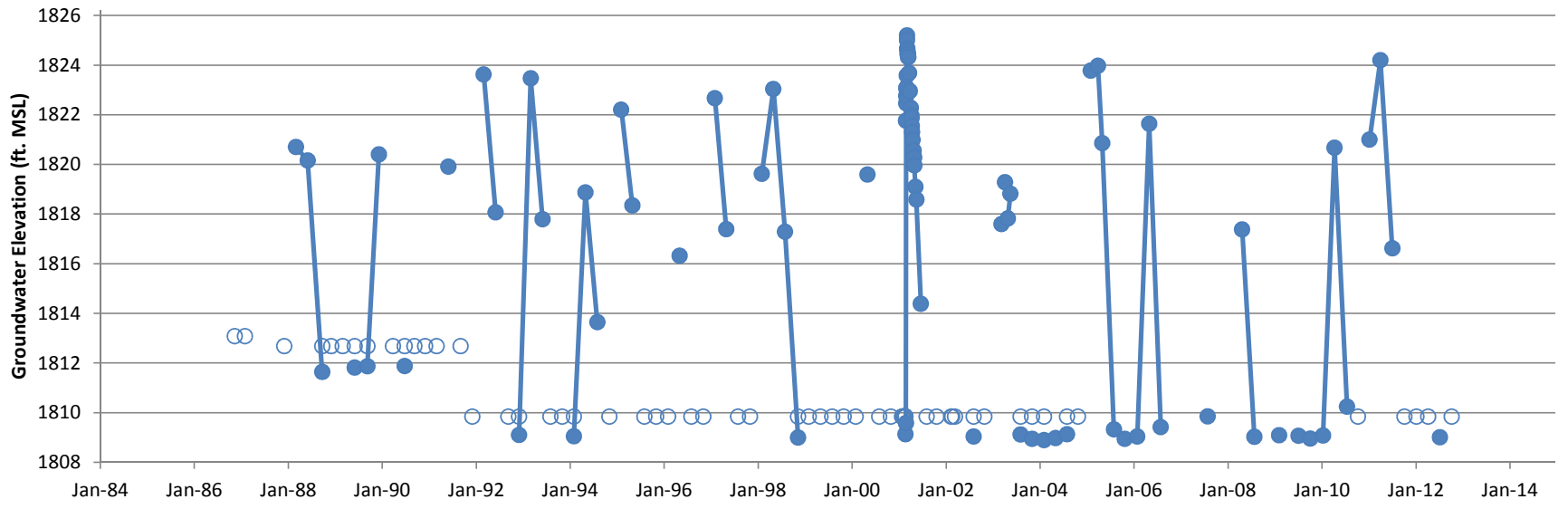
Hydrograph
Groundwater Monitoring Well ES-08

—●— Groundwater Elevation ○ Dry ▲ Pumping



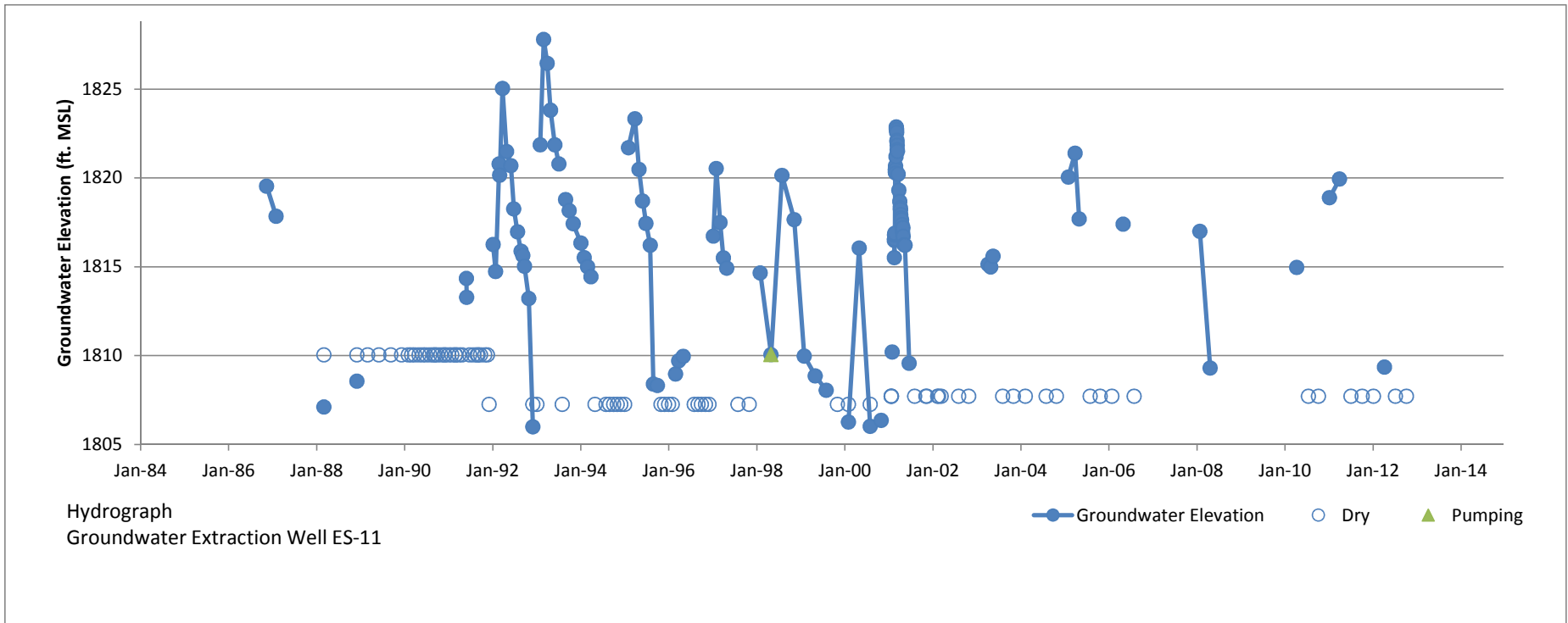
Hydrograph
Groundwater Monitoring Well ES-09

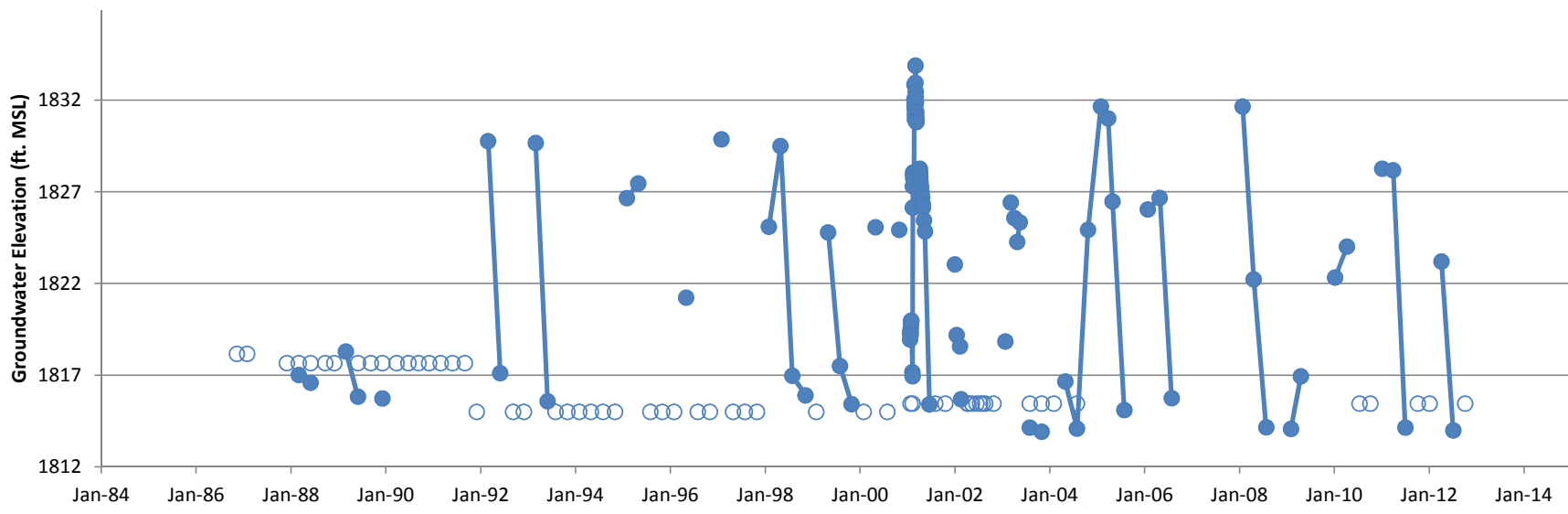
● Groundwater Elevation
 ○ Dry
 ▲ Pumping



Hydrograph
Groundwater Monitoring Well ES-10

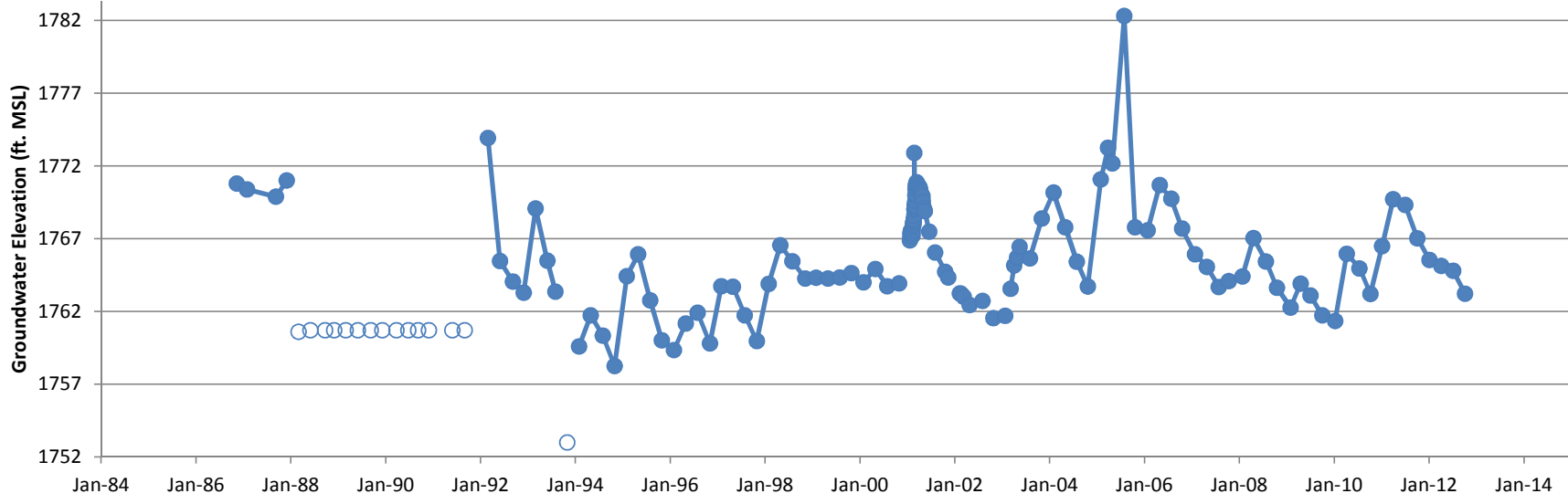
—●— Groundwater Elevation
 ○ Dry
 ▲ Pumping





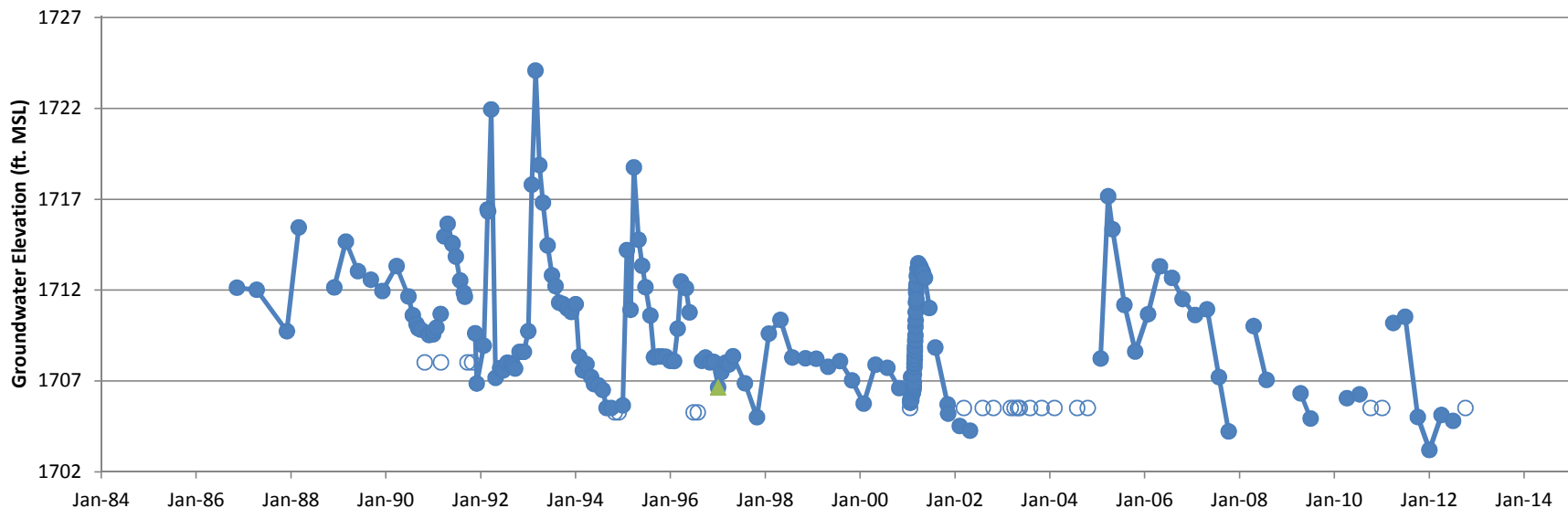
Hydrograph
Groundwater Monitoring Well ES-12

—●— Groundwater Elevation
 ○ Dry
 ▲ Pumping



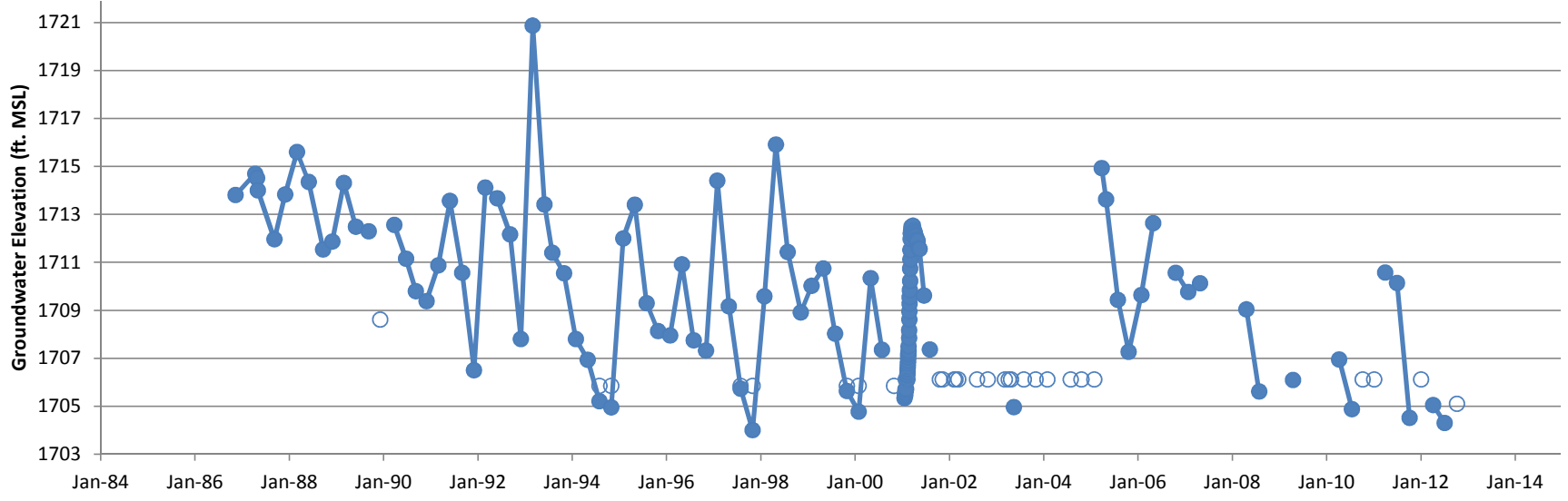
Hydrograph
Groundwater Monitoring Well ES-13

● Groundwater Elevation
 ○ Dry
 ▲ Pumping



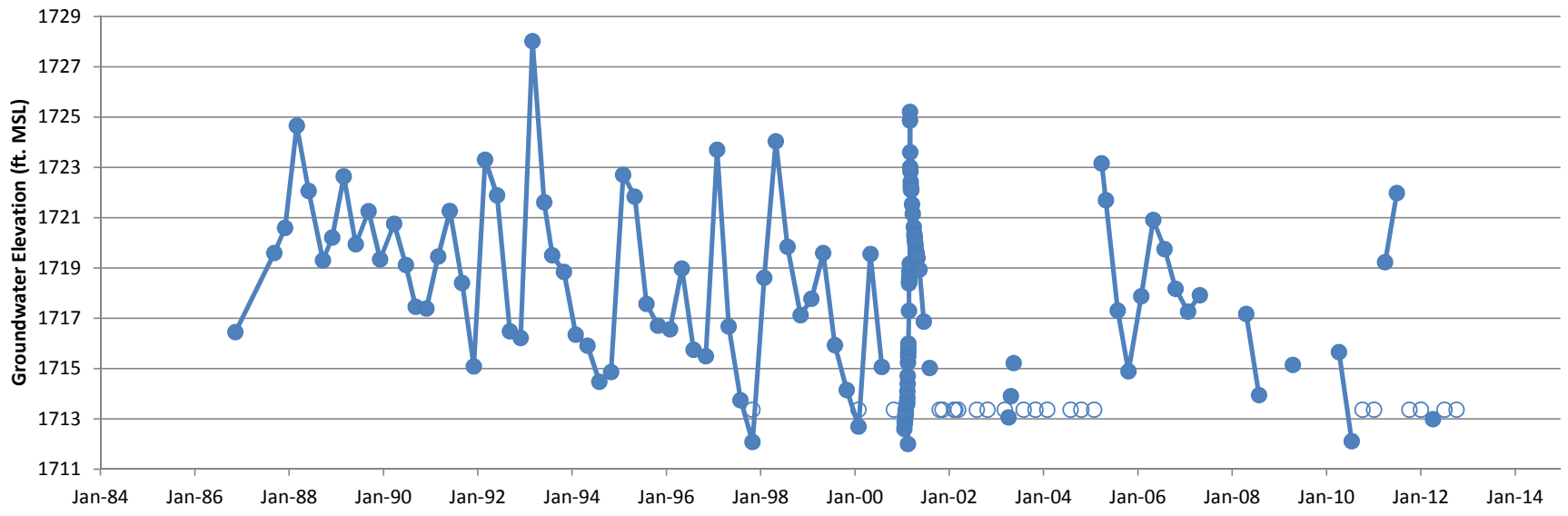
Hydrograph
Groundwater Extraction Well ES-14

—●— Groundwater Elevation ○ Dry ▲ Pumping



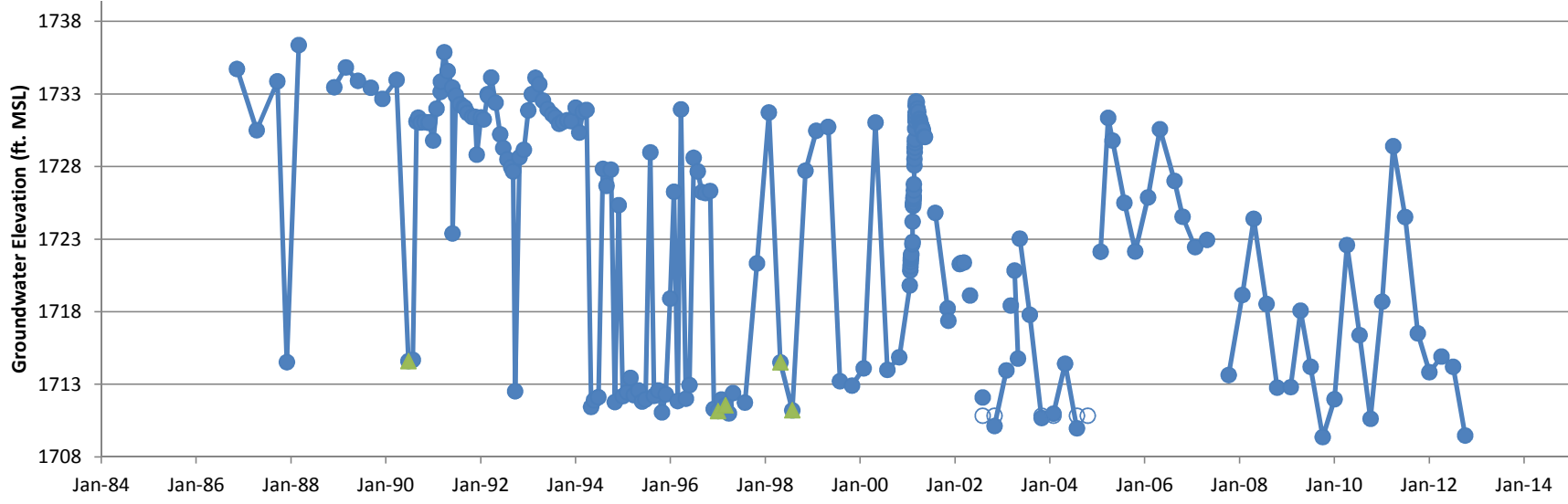
Hydrograph
Groundwater Monitoring Well ES-15

● Groundwater Elevation
 ○ Dry
 ▲ Pumping



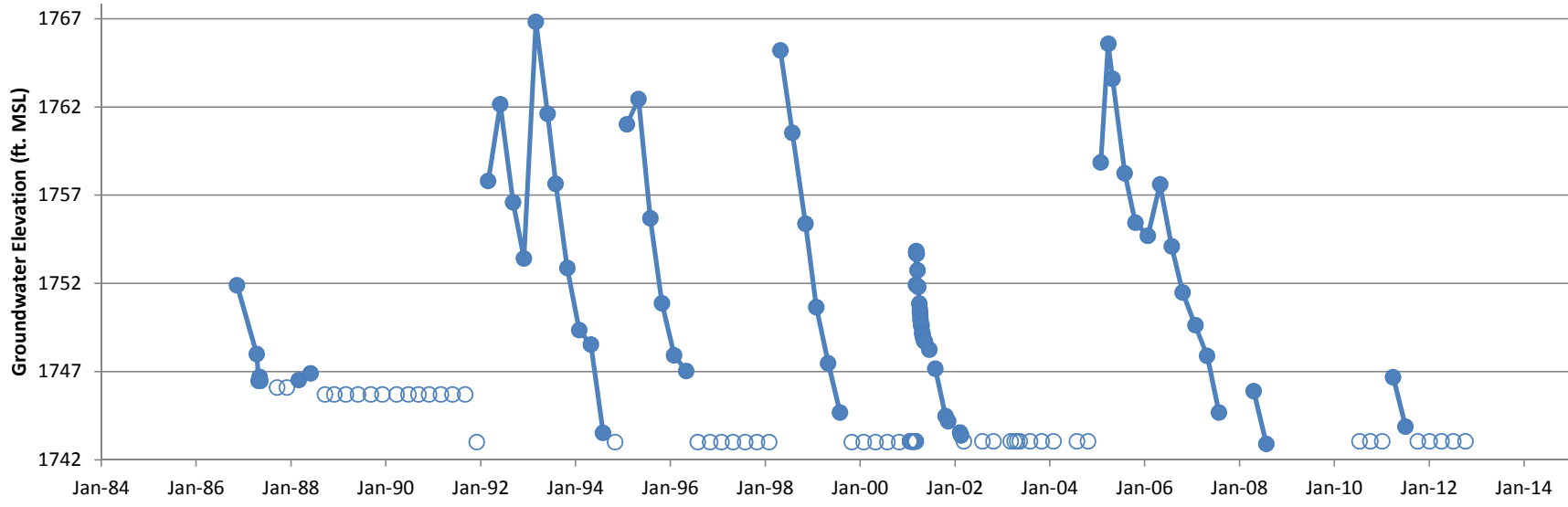
Hydrograph
Groundwater Monitoring Well ES-16

Groundwater Elevation Dry Pumping



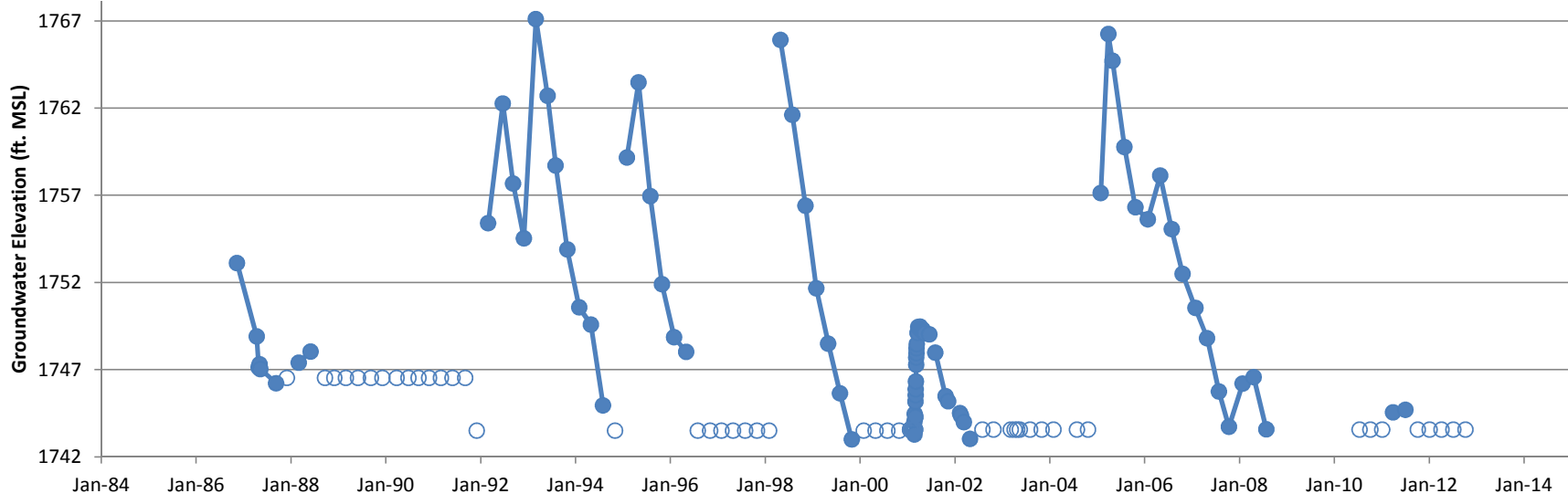
Hydrograph
Groundwater Extraction Well ES-17

—●— Groundwater Elevation ○ Dry ▲ Pumping



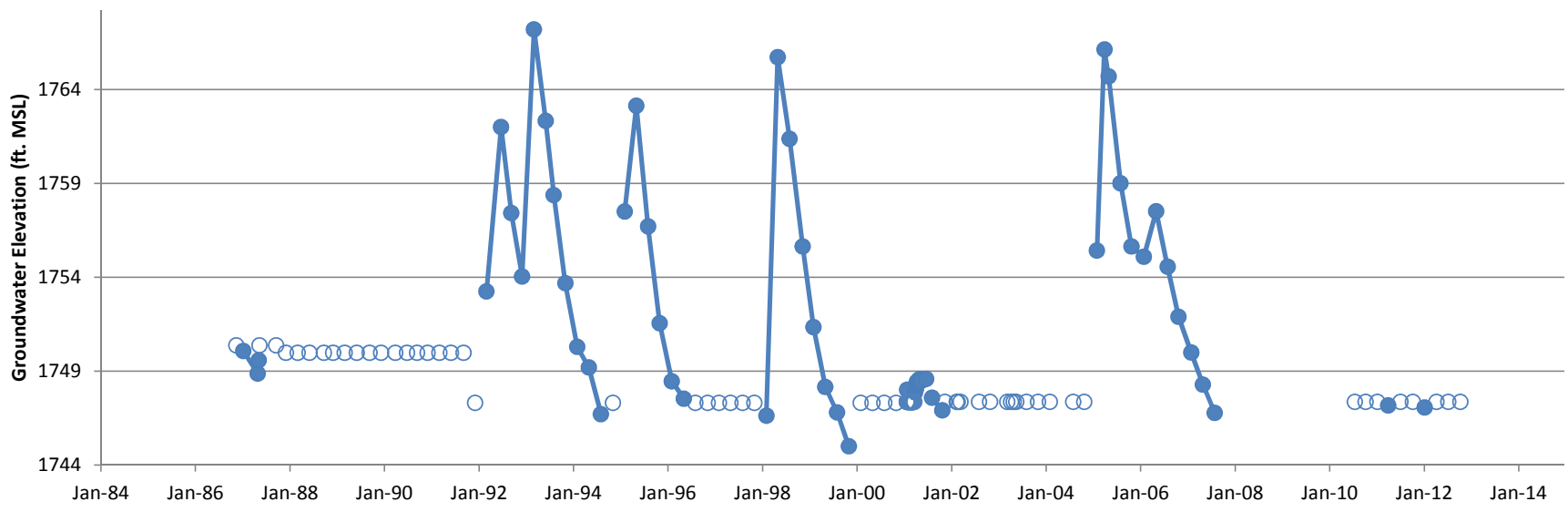
Hydrograph
Groundwater Monitoring Well ES-18

● Groundwater Elevation ○ Dry ▲ Pumping



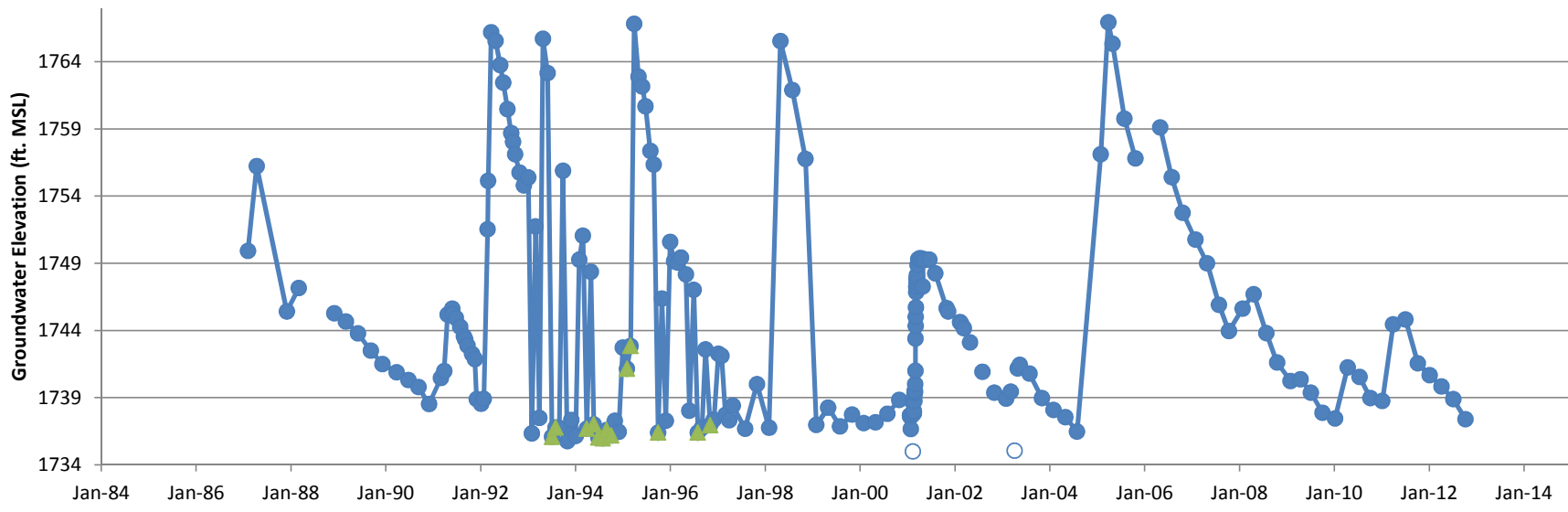
Hydrograph
Groundwater Monitoring Well ES-19

—●— Groundwater Elevation
 ○ Dry
 ▲ Pumping



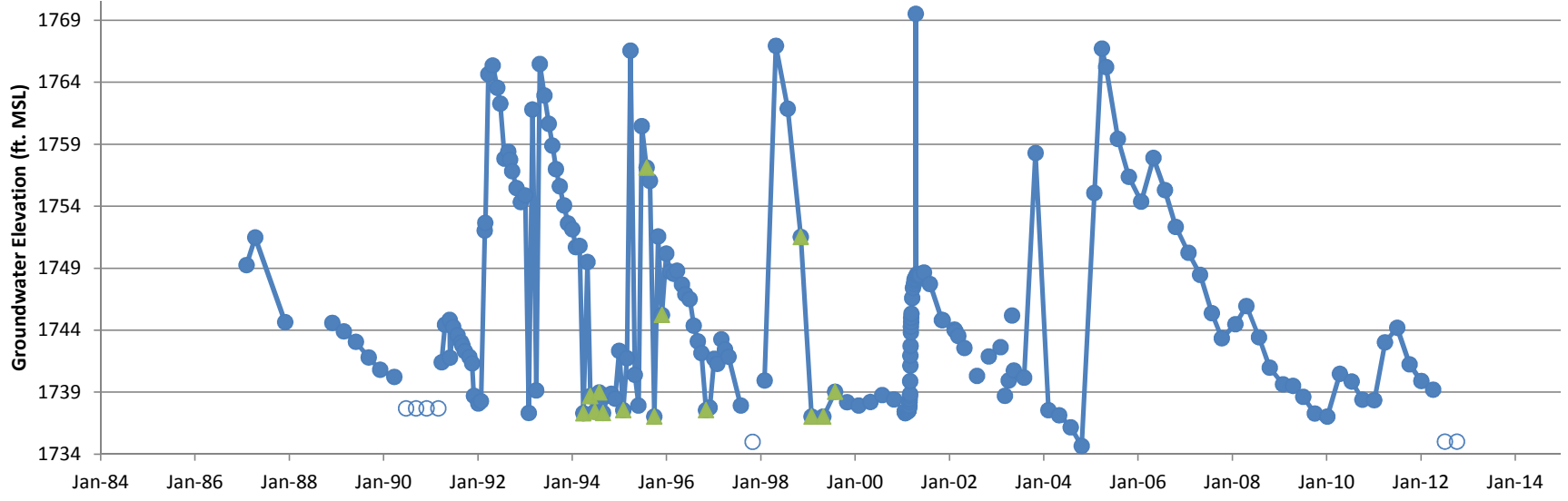
Hydrograph
Groundwater Monitoring Well ES-20

Groundwater Elevation Dry Pumping



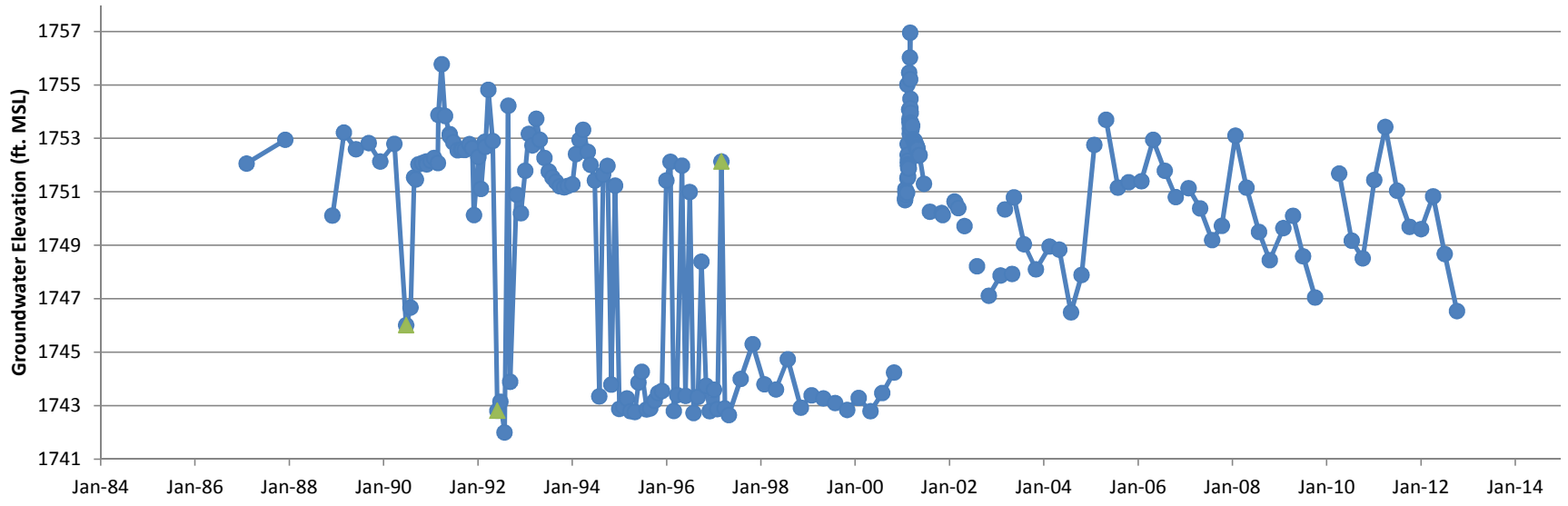
Hydrograph
Groundwater Extraction Well ES-21

—●— Groundwater Elevation ○ Dry ▲ Pumping



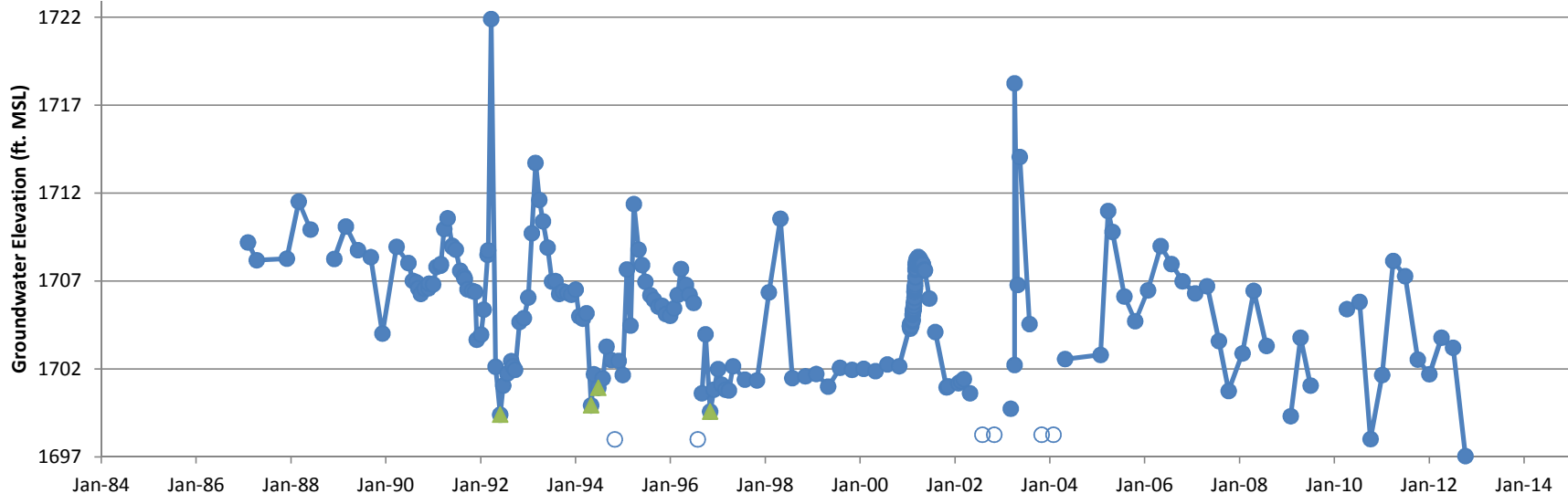
Hydrograph
Groundwater Extraction Well ES-22

Groundwater Elevation Dry Pumping



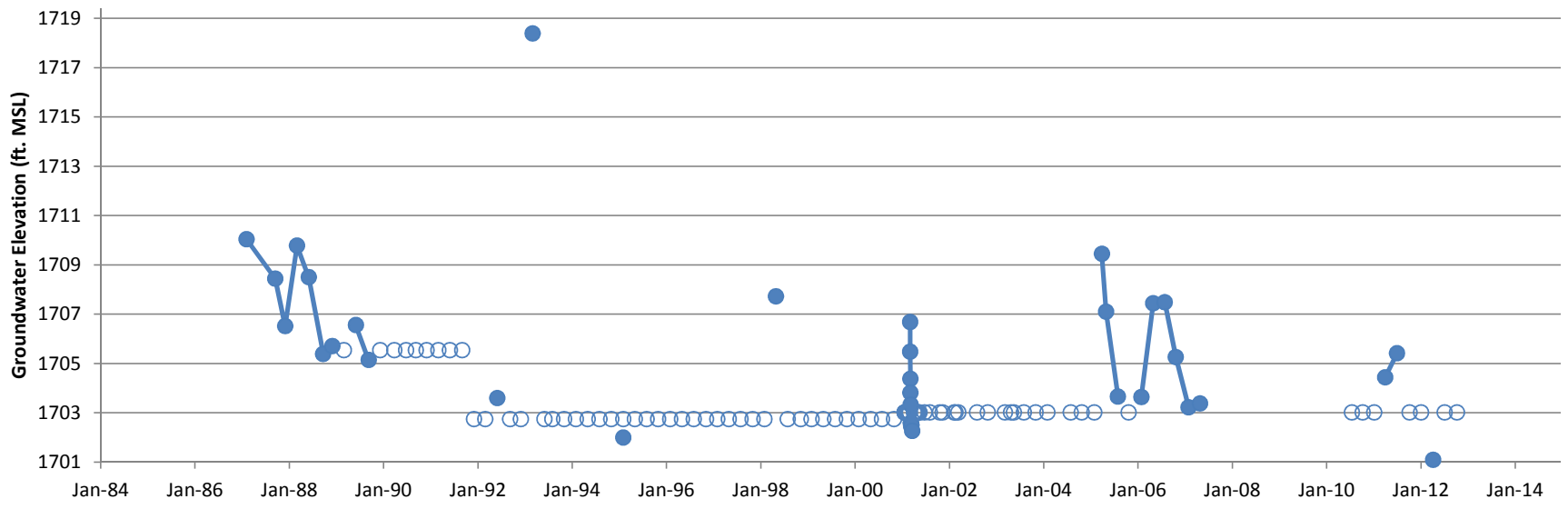
Hydrograph
Groundwater Extraction Well ES-23

—●— Groundwater Elevation ○ Dry ▲ Pumping



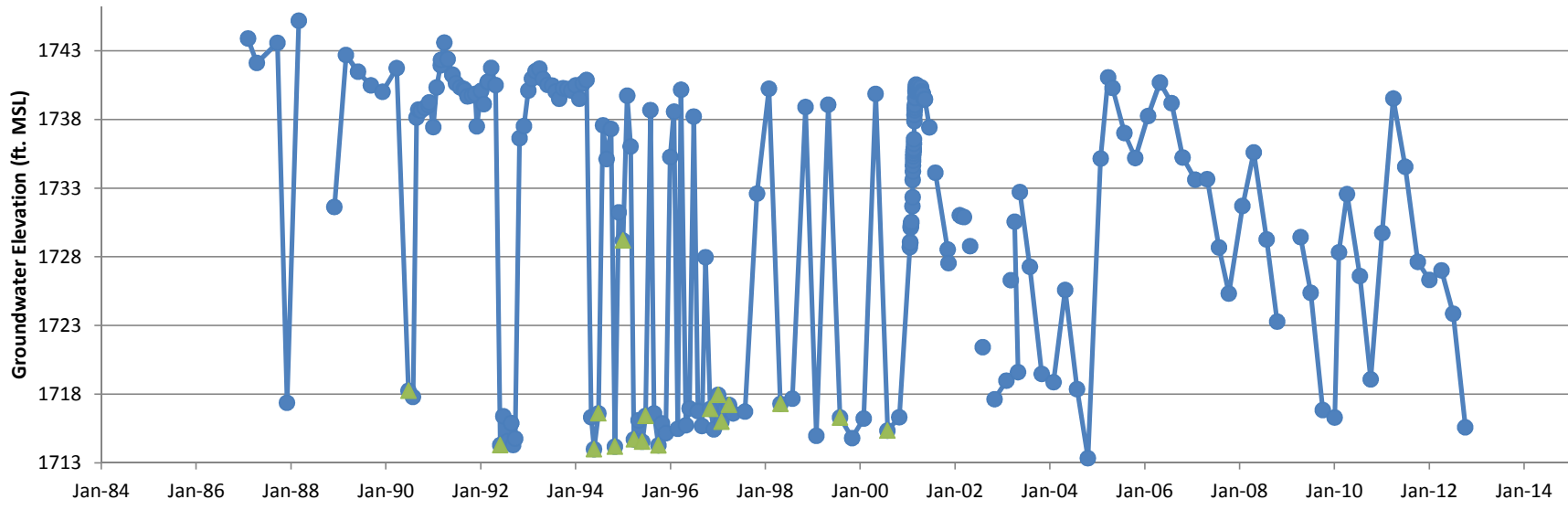
Hydrograph
Groundwater Extraction Well ES-24

—●— Groundwater Elevation
 ○ Dry
 ▲ Pumping



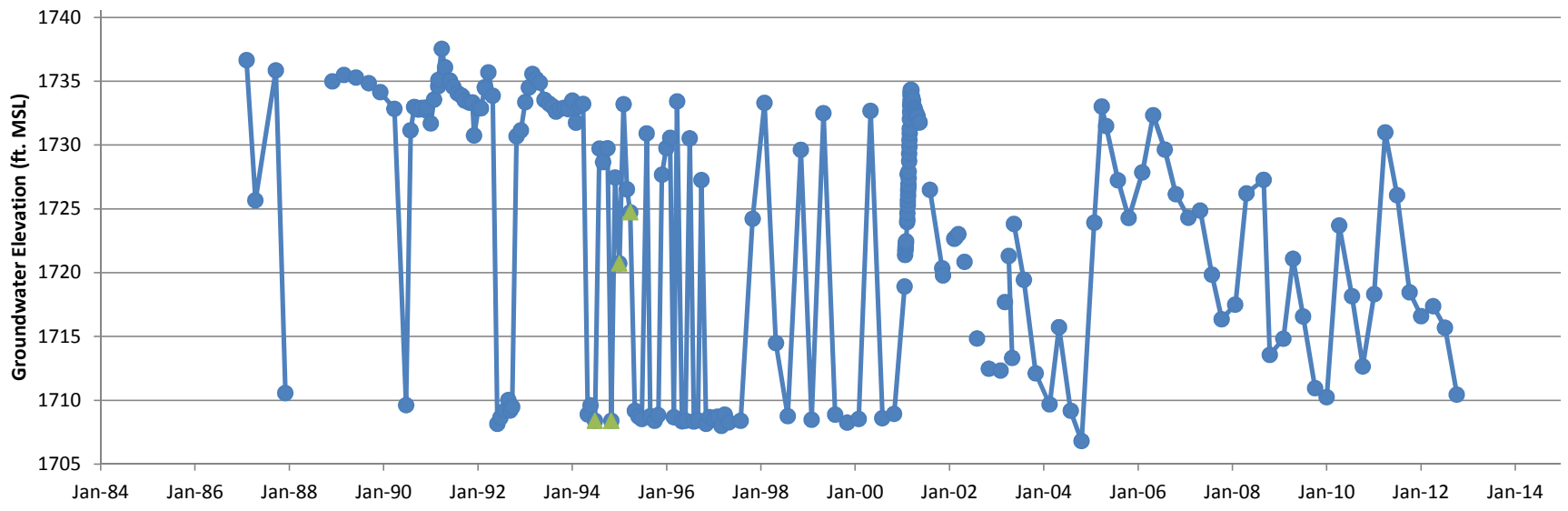
Hydrograph
Groundwater Monitoring Well ES-25

● Groundwater Elevation
 ○ Dry
 ▲ Pumping



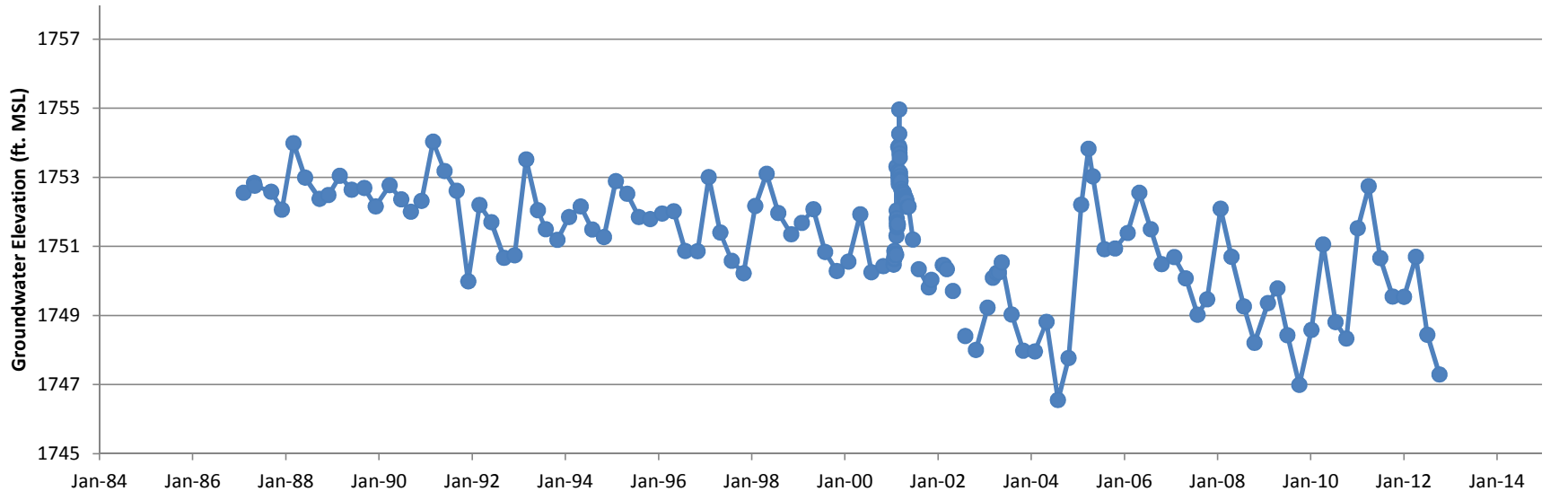
Hydrograph
Groundwater Extraction Well ES-26

—●— Groundwater Elevation ○ Dry ▲ Pumping



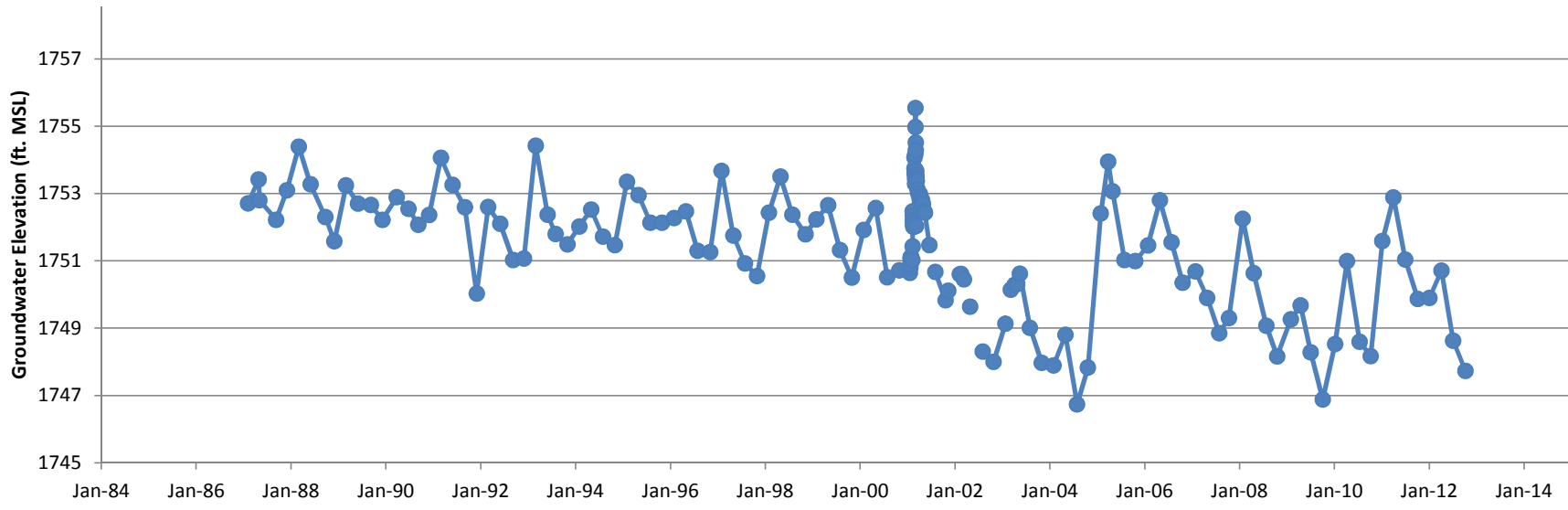
Hydrograph
Groundwater Extraction Well ES-27

Groundwater Elevation Dry Pumping



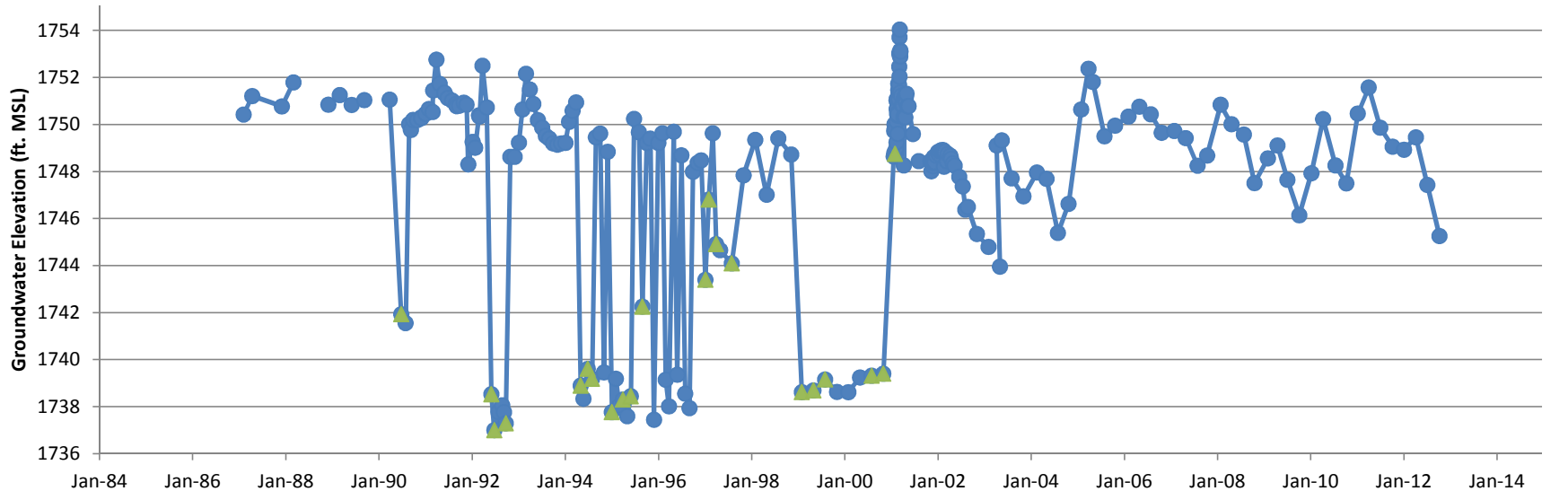
Hydrograph
Groundwater Monitoring Well ES-28

● Groundwater Elevation
 ○ Dry
 ▲ Pumping



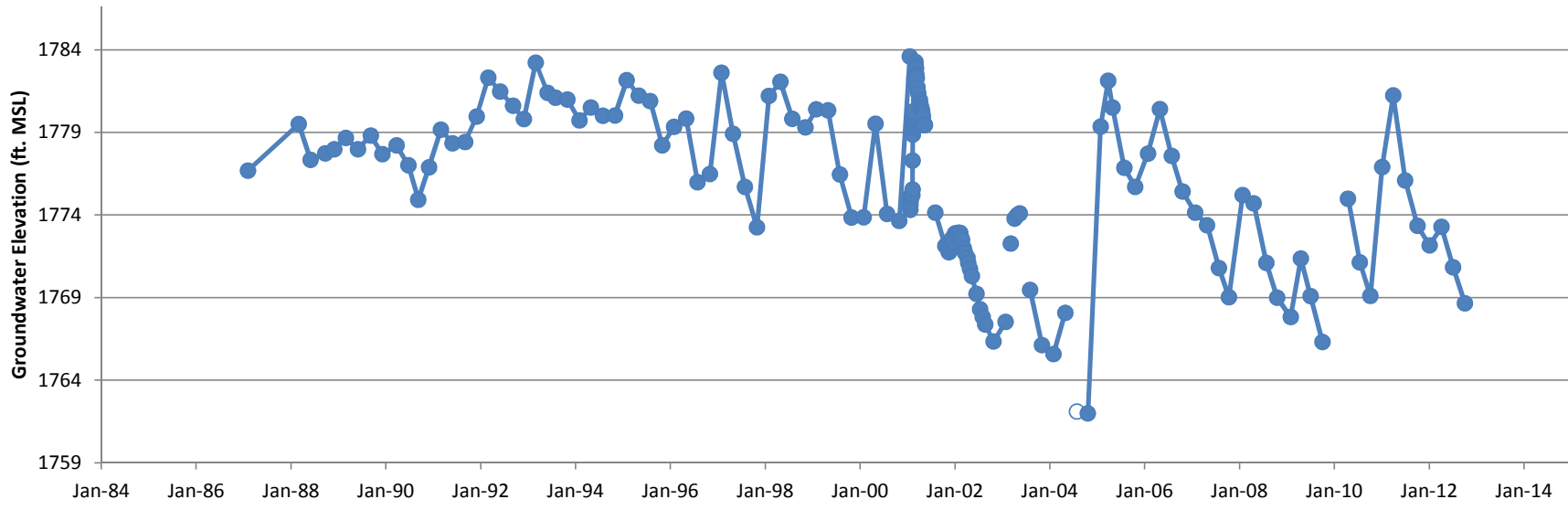
Hydrograph
Groundwater Monitoring Well ES-29

—●— Groundwater Elevation ○ Dry ▲ Pumping



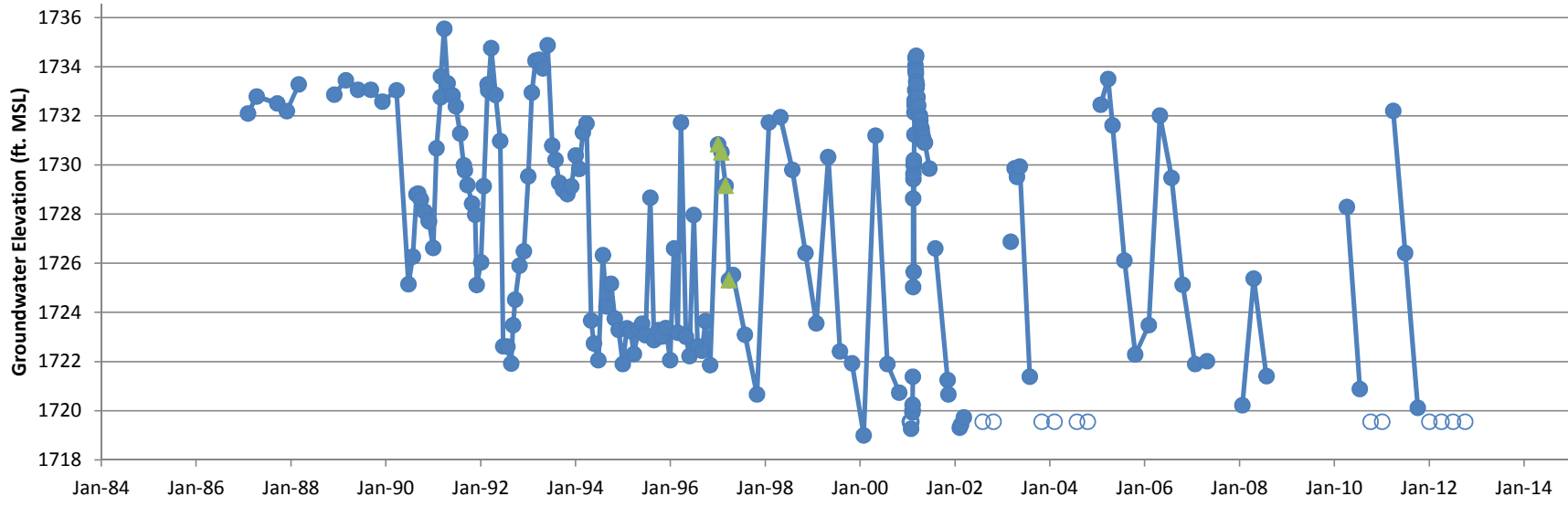
Hydrograph
Groundwater Extraction Well ES-30

● Groundwater Elevation
 ○ Dry
 ▲ Pumping



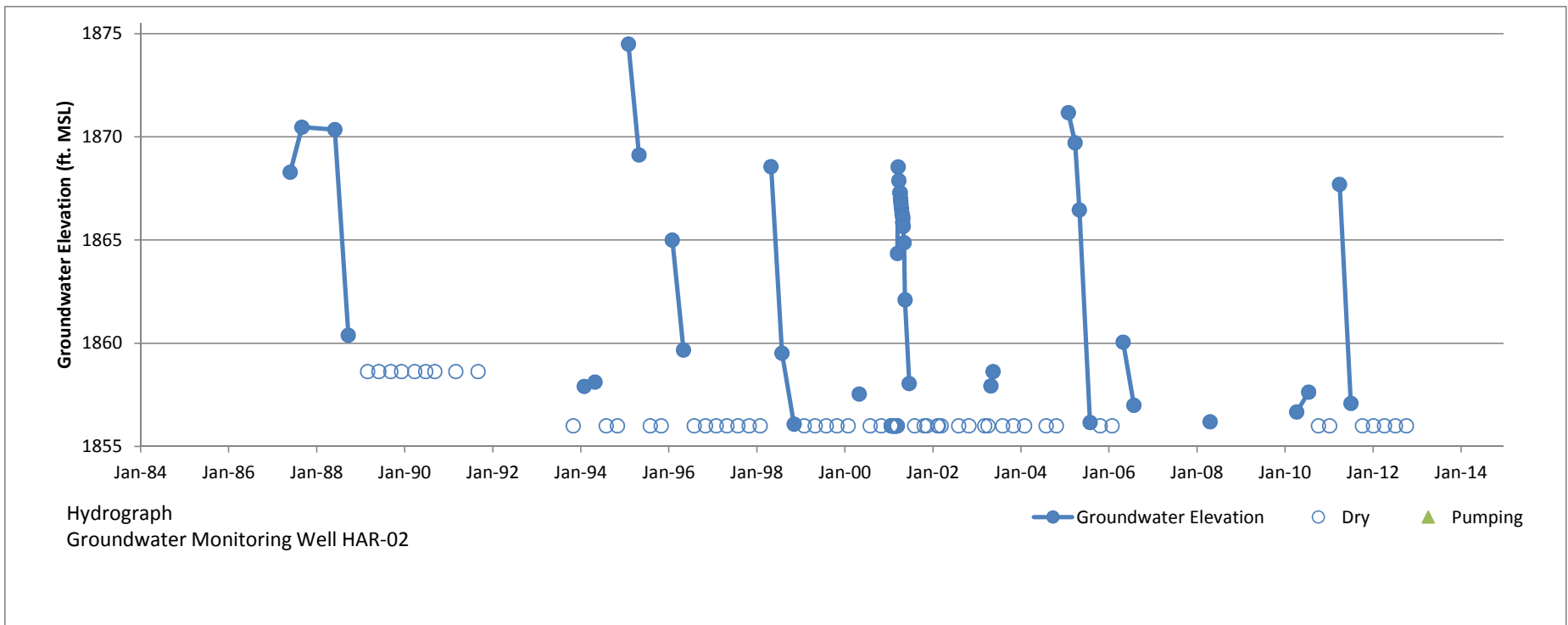
Hydrograph
Groundwater Monitoring Well ES-31

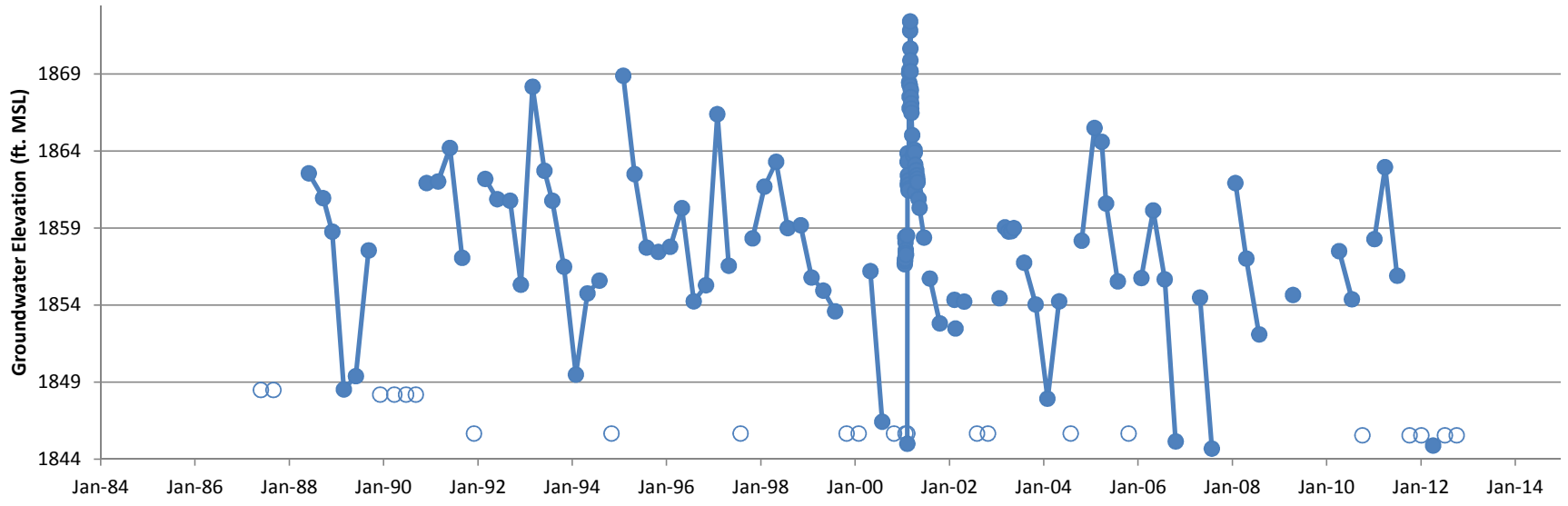
—●— Groundwater Elevation ○ Dry ▲ Pumping



Hydrograph
Groundwater Extraction Well ES-32

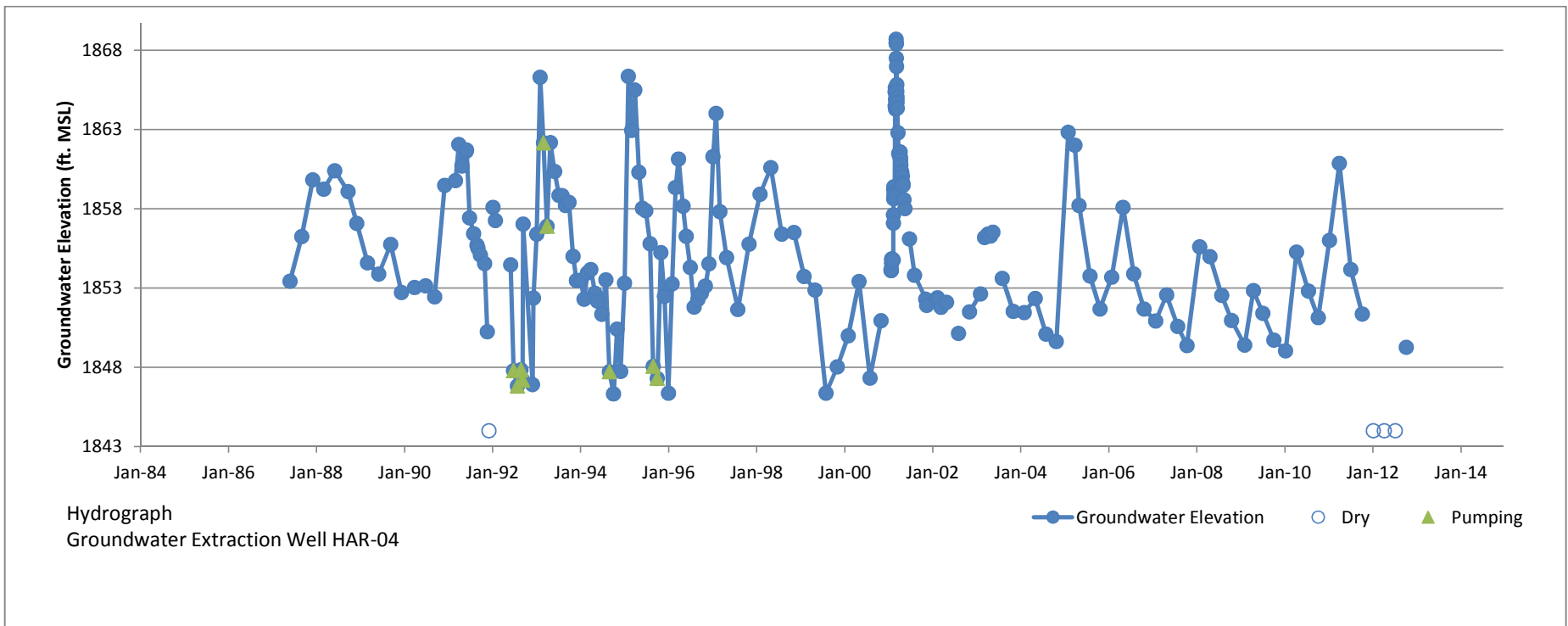
—●— Groundwater Elevation ○ Dry ▲ Pumping

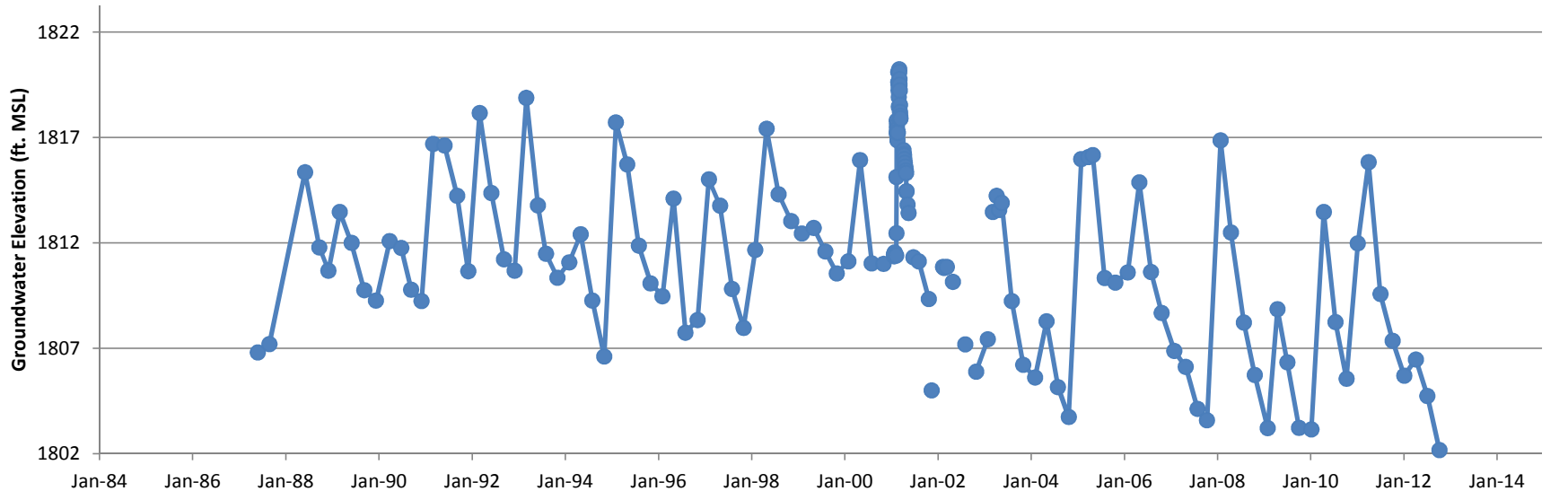




Hydrograph
Groundwater Monitoring Well HAR-03

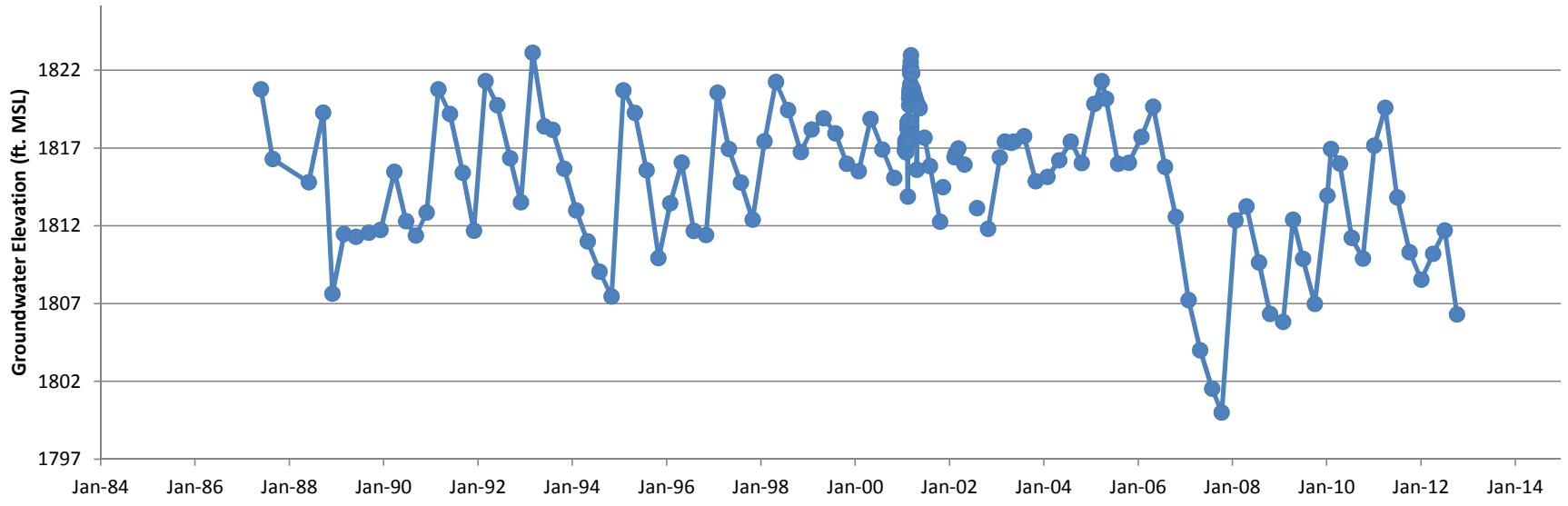
—●— Groundwater Elevation ○ Dry ▲ Pumping





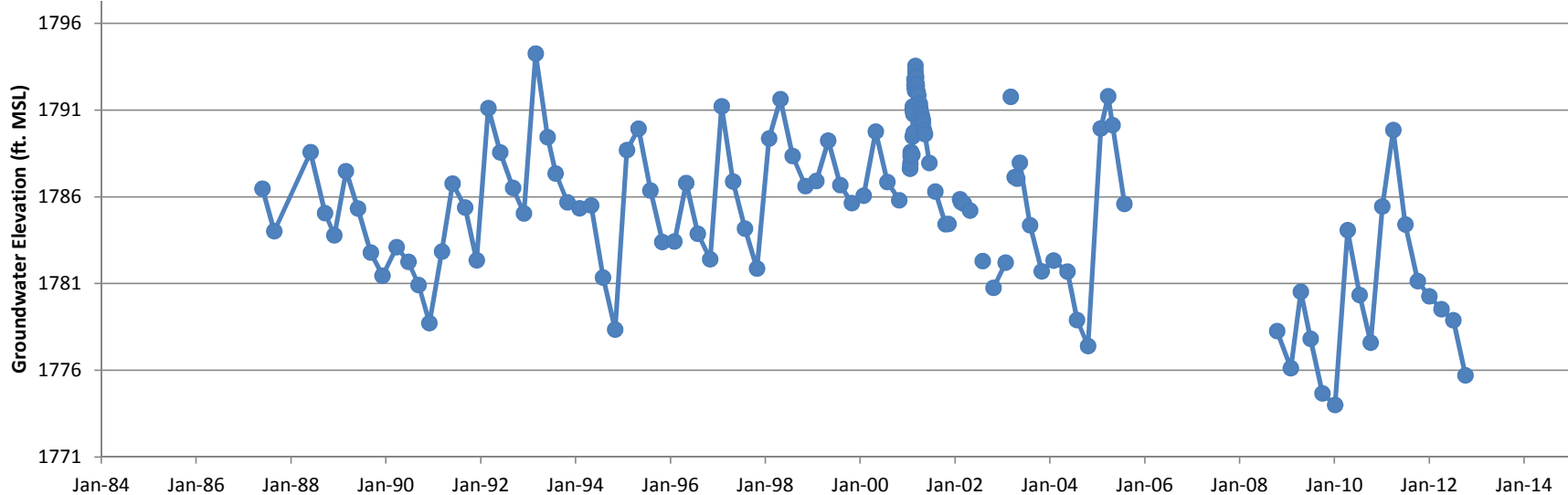
Hydrograph
Groundwater Monitoring Well HAR-09

—●— Groundwater Elevation ○ Dry ▲ Pumping



Hydrograph
Groundwater Monitoring Well HAR-11

● Groundwater Elevation
 ○ Dry
 ▲ Pumping

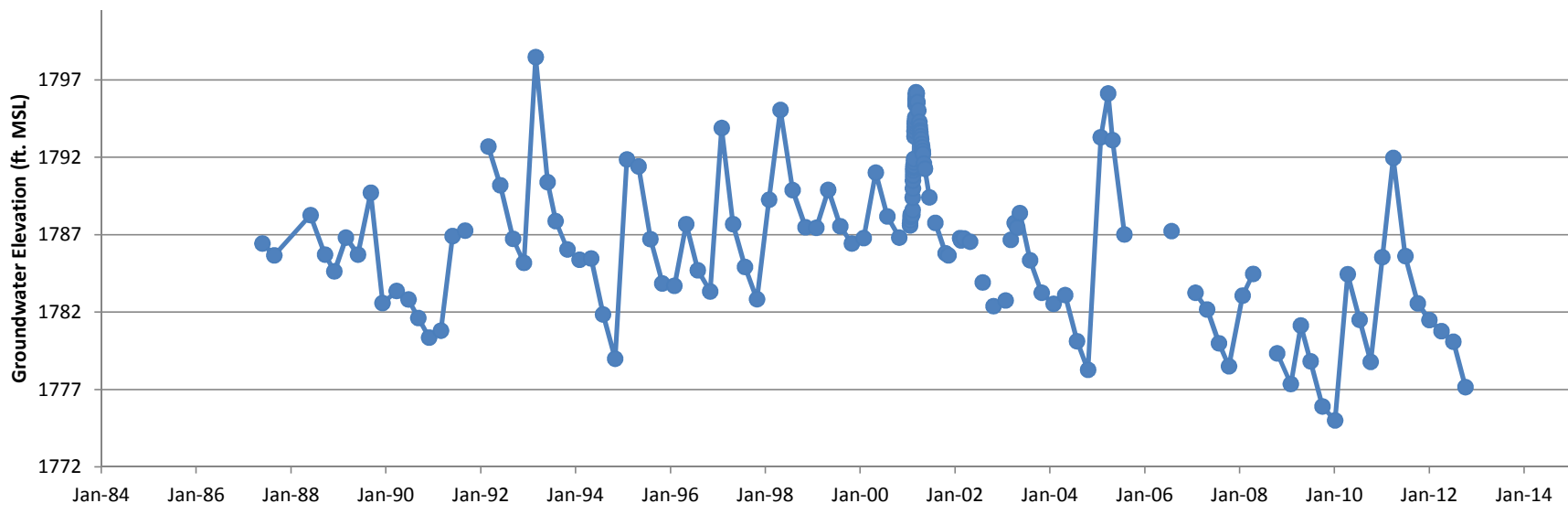


Hydrograph

Groundwater Monitoring Well HAR-12

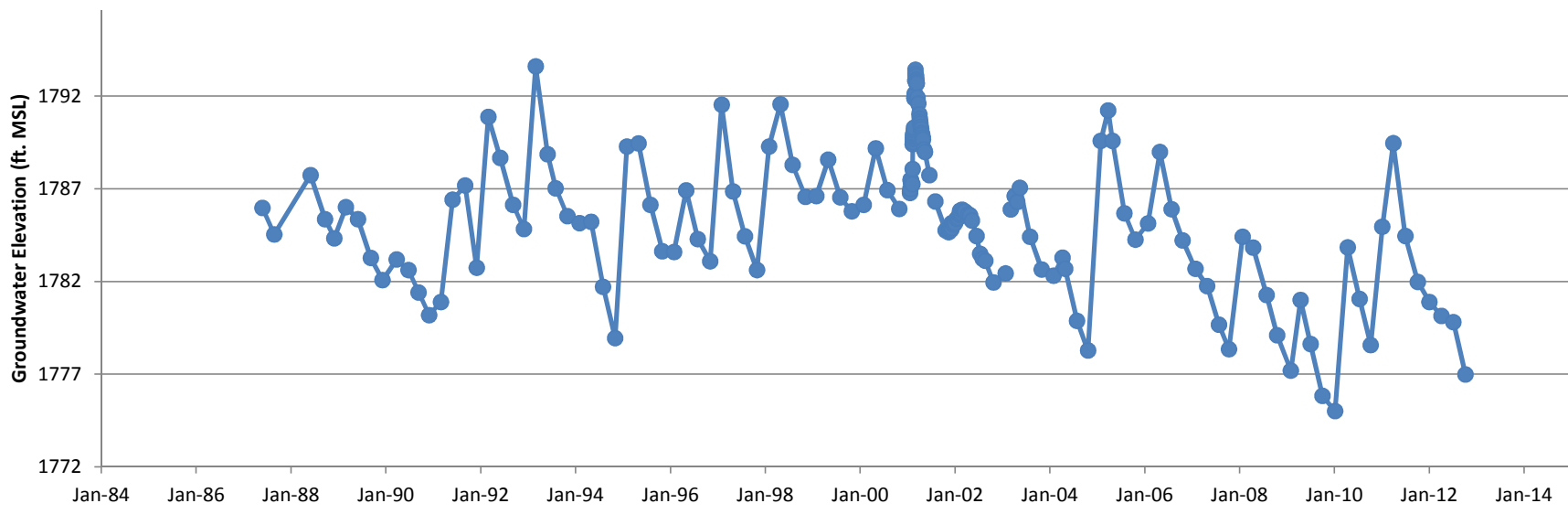
The well's plastic casing melted during the 2005 Topanga fire. The measuring point elevation has not been re-surveyed since the fire.

- Groundwater Elevation
- Dry
- ▲ Pumping



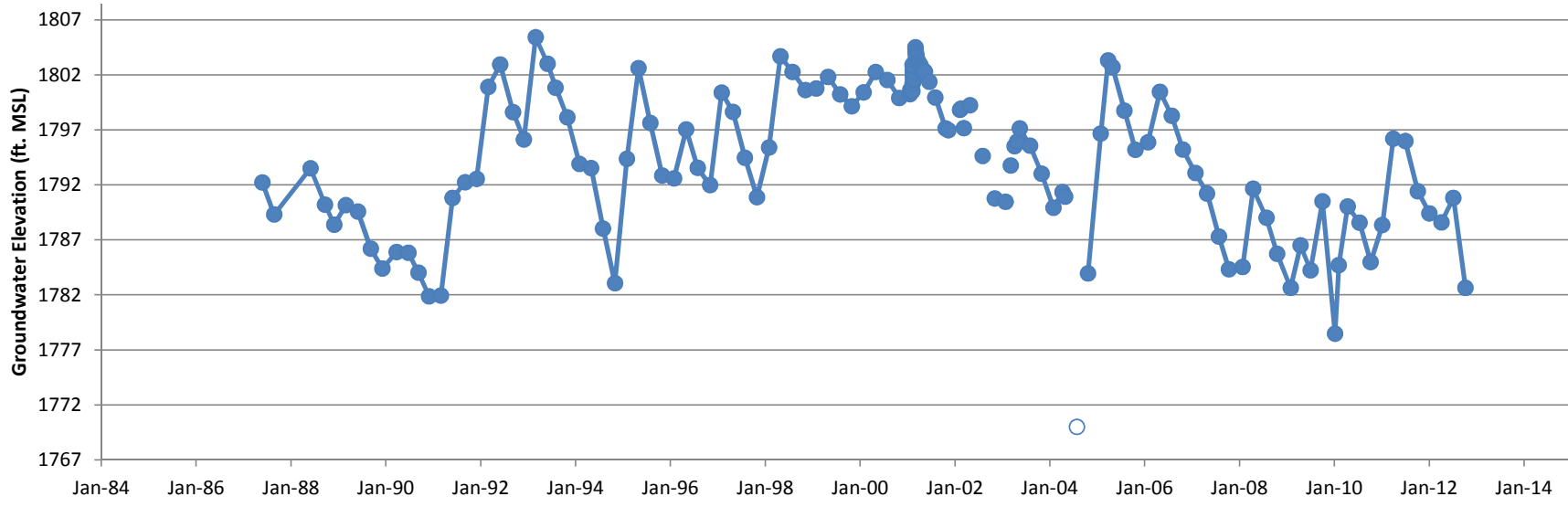
Hydrograph
Groundwater Monitoring Well HAR-13

● Groundwater Elevation
 ○ Dry
 ▲ Pumping



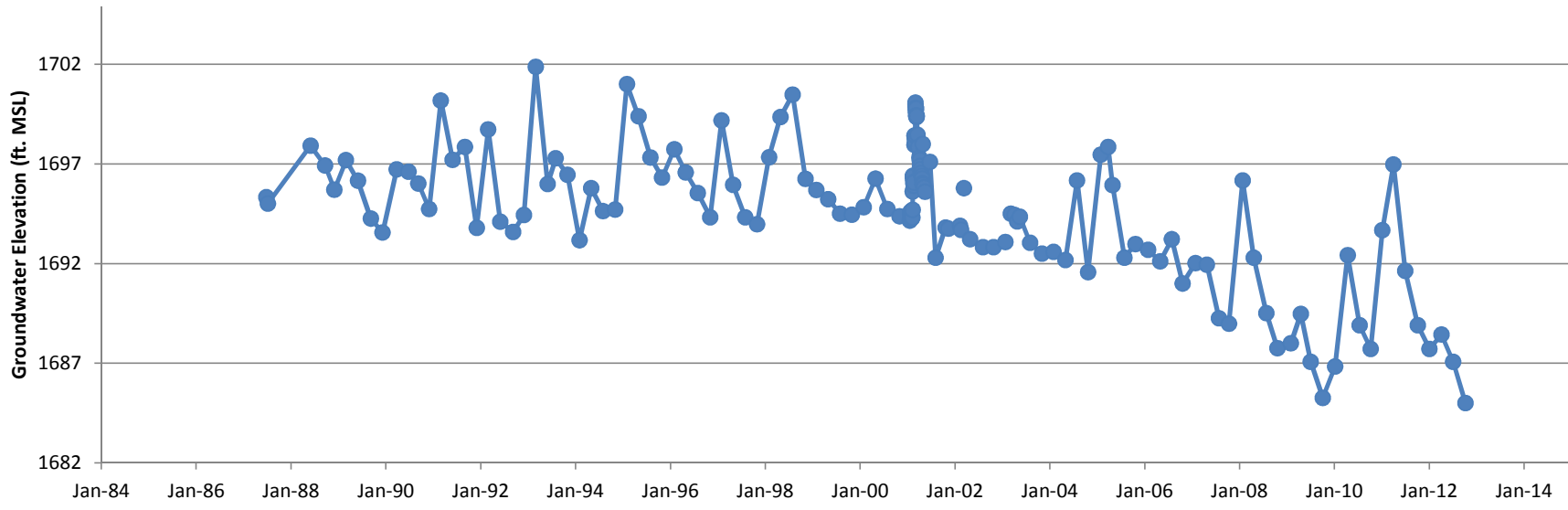
Hydrograph
Groundwater Monitoring Well HAR-14

● Groundwater Elevation ○ Dry ▲ Pumping



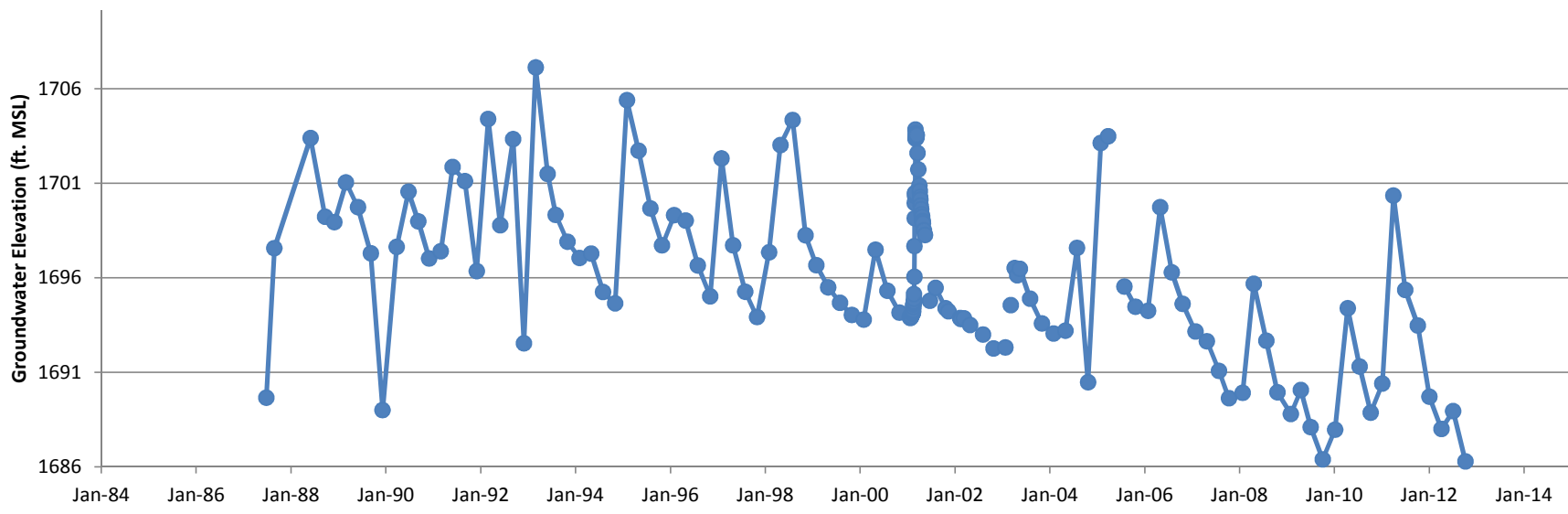
Hydrograph
Groundwater Monitoring Well HAR-15

● Groundwater Elevation ○ Dry ▲ Pumping



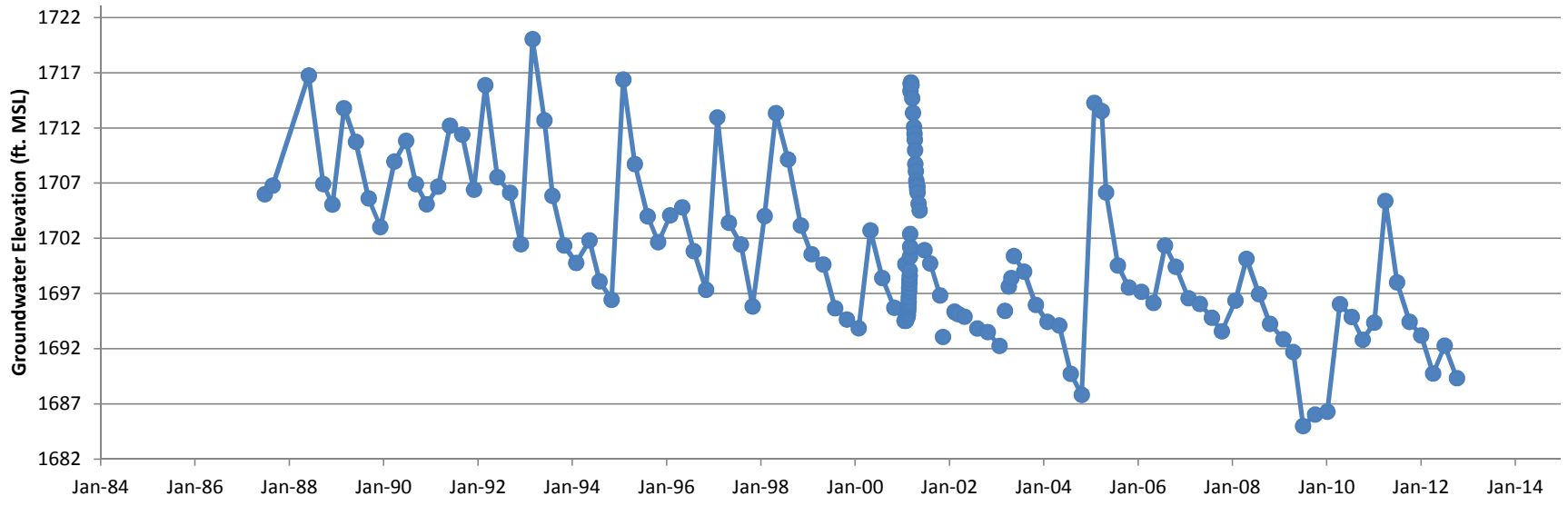
Hydrograph
Groundwater Monitoring Well HAR-27

—●— Groundwater Elevation ○ Dry ▲ Pumping



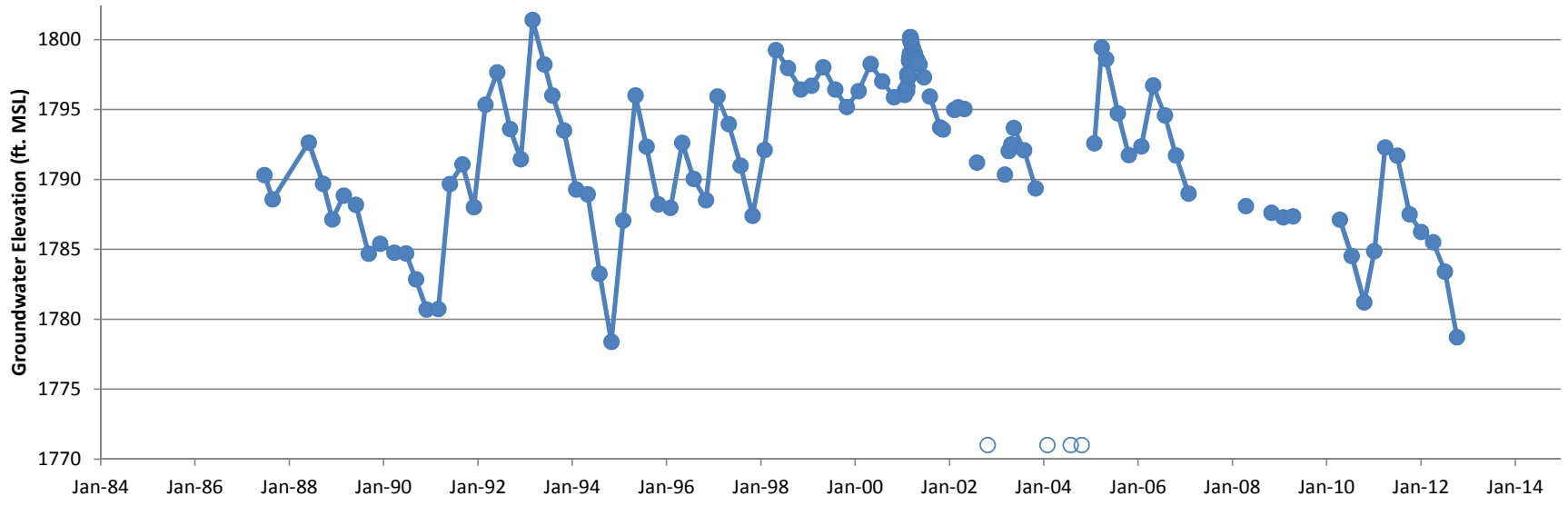
Hydrograph
Groundwater Monitoring Well HAR-28

—●— Groundwater Elevation ○ Dry ▲ Pumping



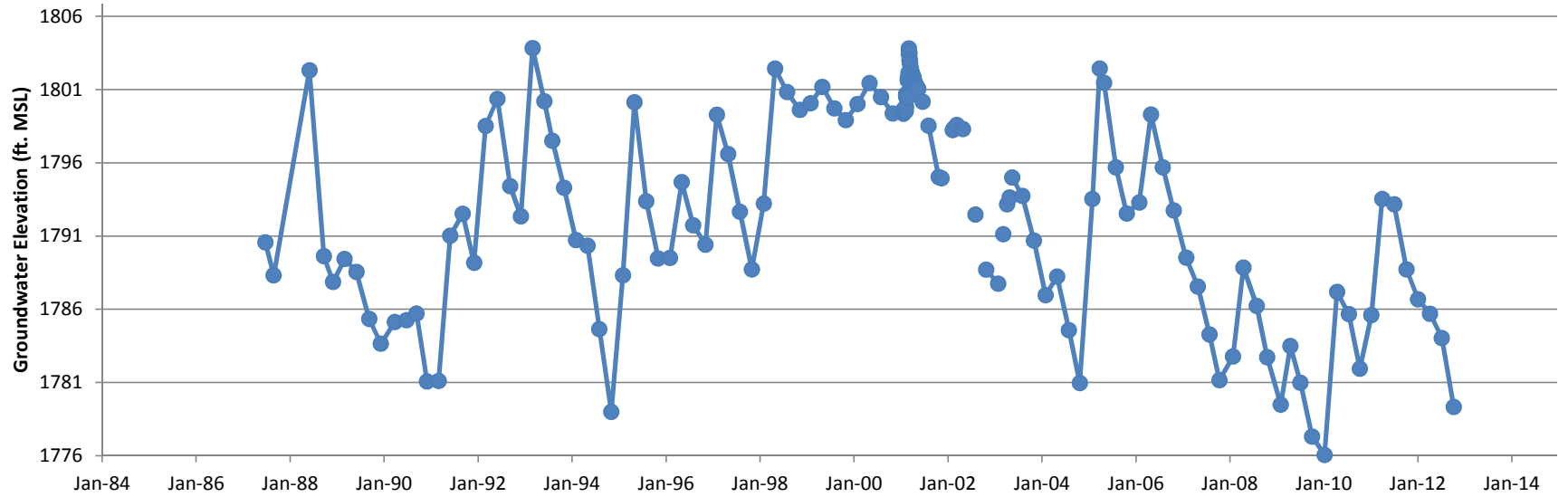
Hydrograph
Groundwater Monitoring Well HAR-29

Groundwater Elevation Dry Pumping



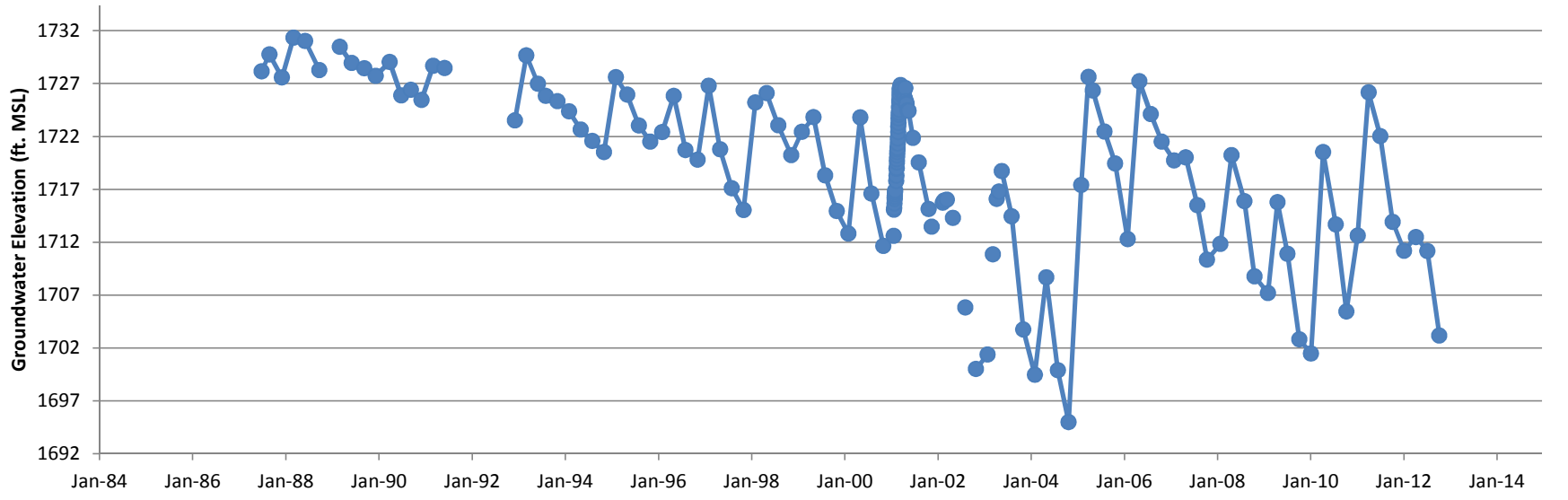
Hydrograph
Groundwater Monitoring Well HAR-30

● Groundwater Elevation
 ○ Dry
 ▲ Pumping



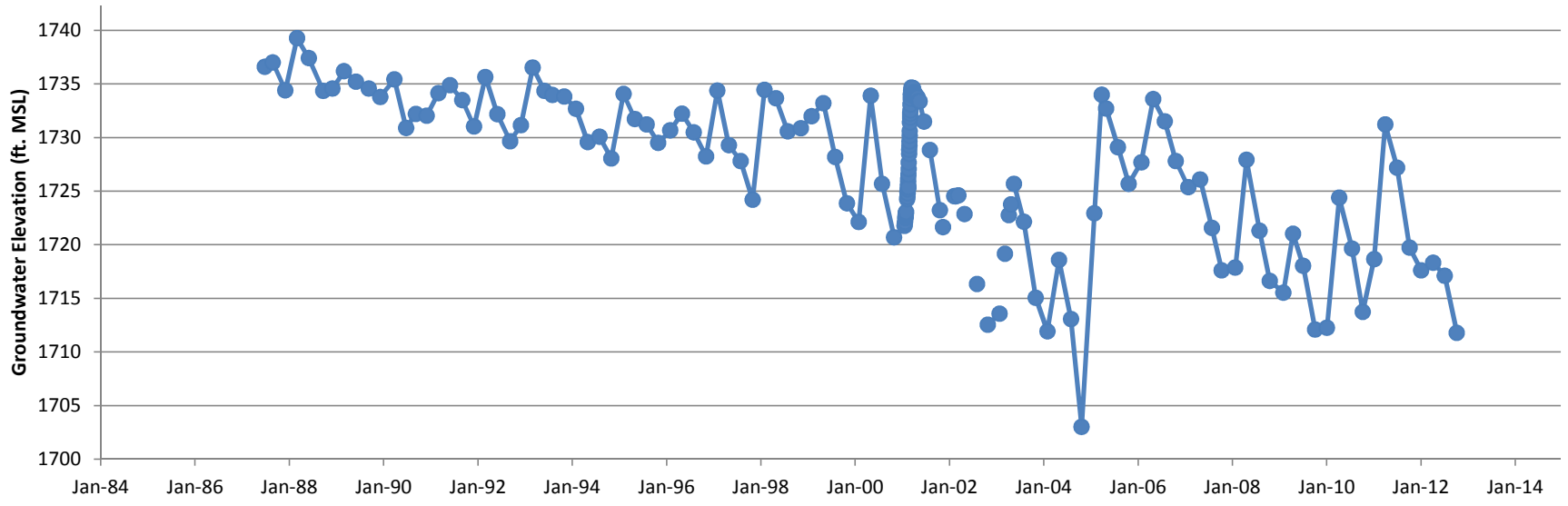
Hydrograph
Groundwater Monitoring Well HAR-31

—●— Groundwater Elevation ○ Dry ▲ Pumping



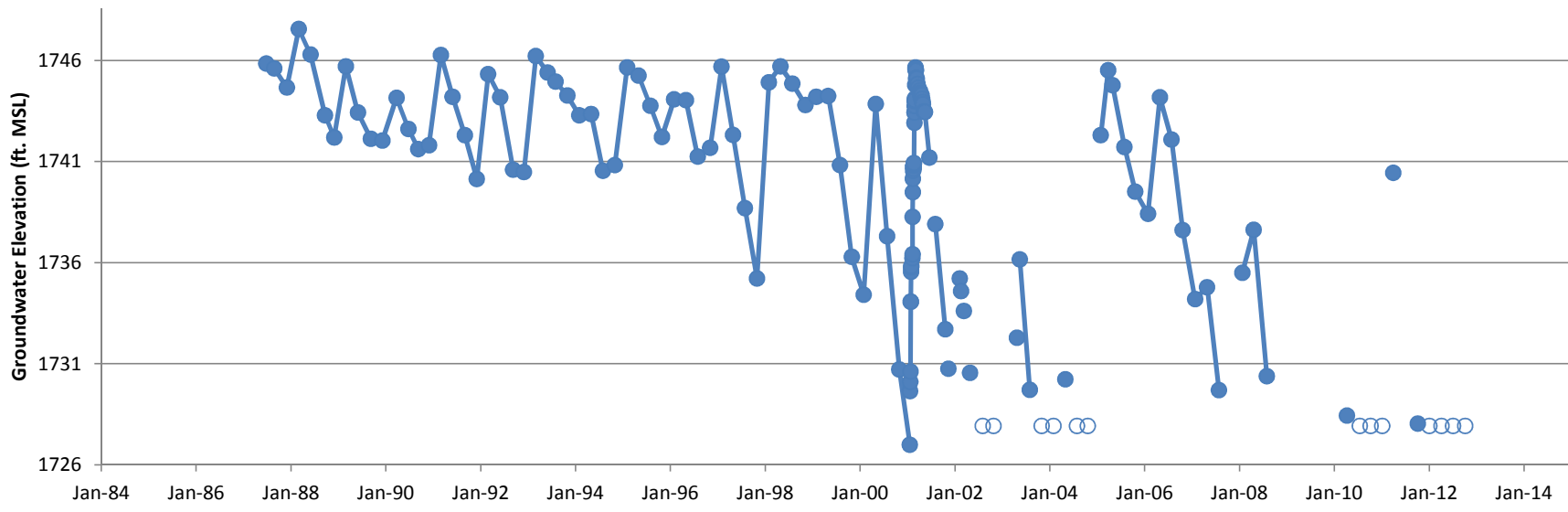
Hydrograph
Groundwater Monitoring Well HAR-32

● Groundwater Elevation
 Dry
 ▲ Pumping



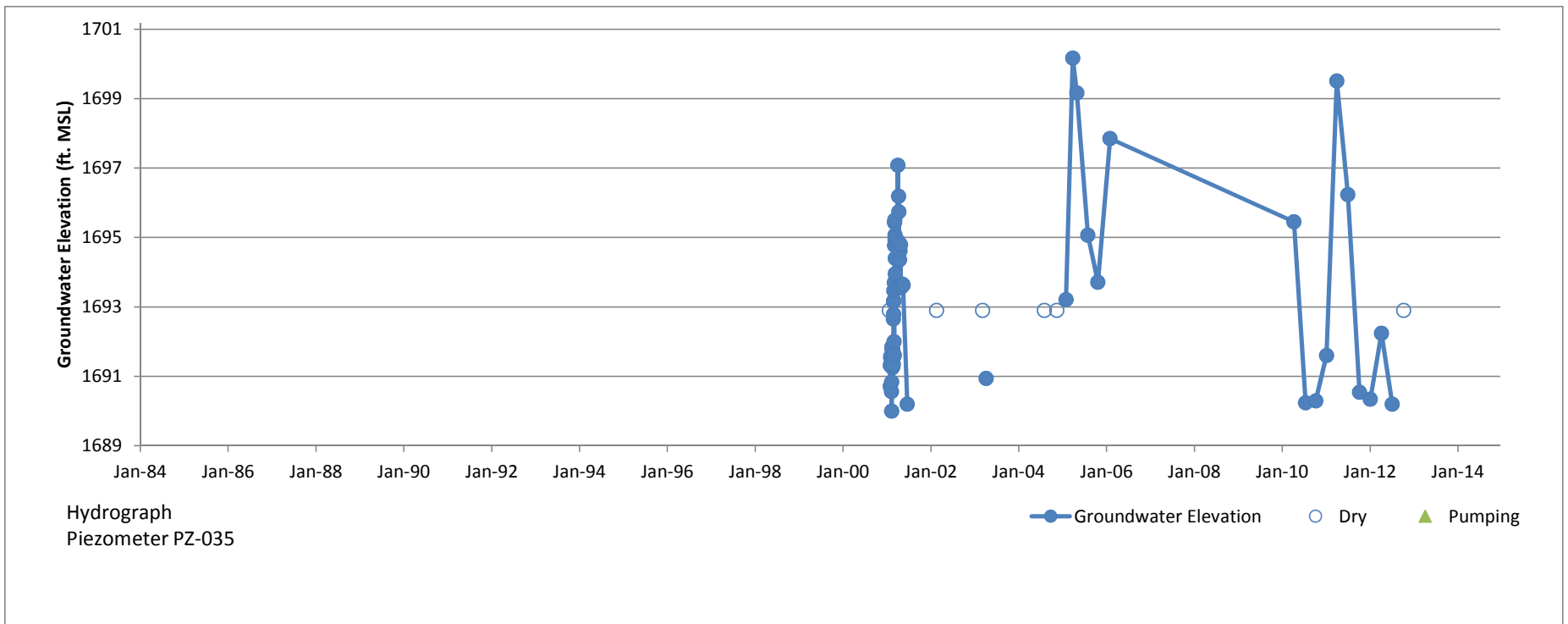
Hydrograph
Groundwater Monitoring Well HAR-33

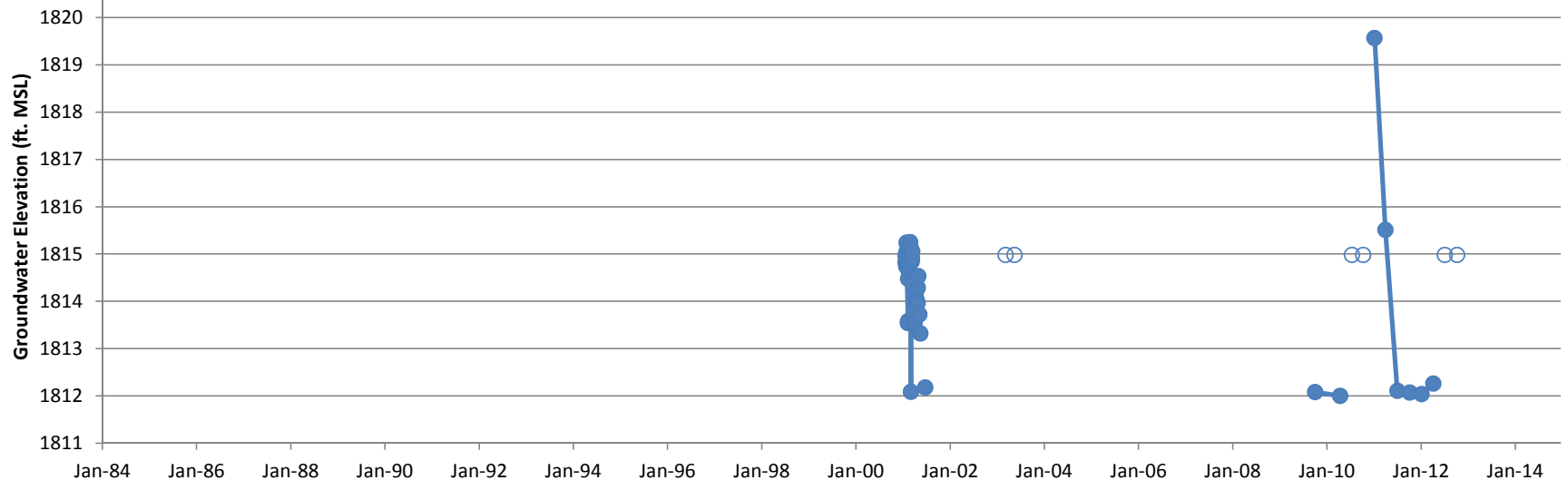
● Groundwater Elevation
 ○ Dry
 ▲ Pumping



Hydrograph
Groundwater Monitoring Well HAR-34

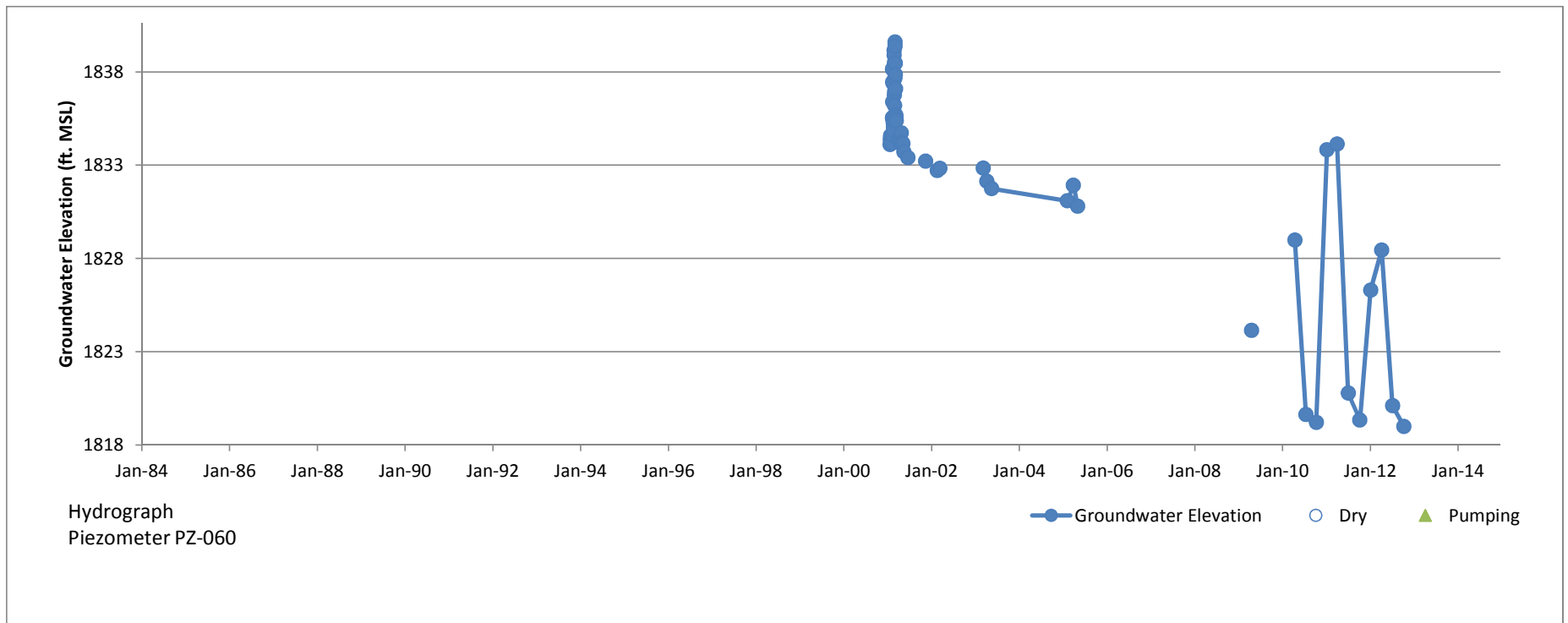
● Groundwater Elevation
 ○ Dry
 ▲ Pumping

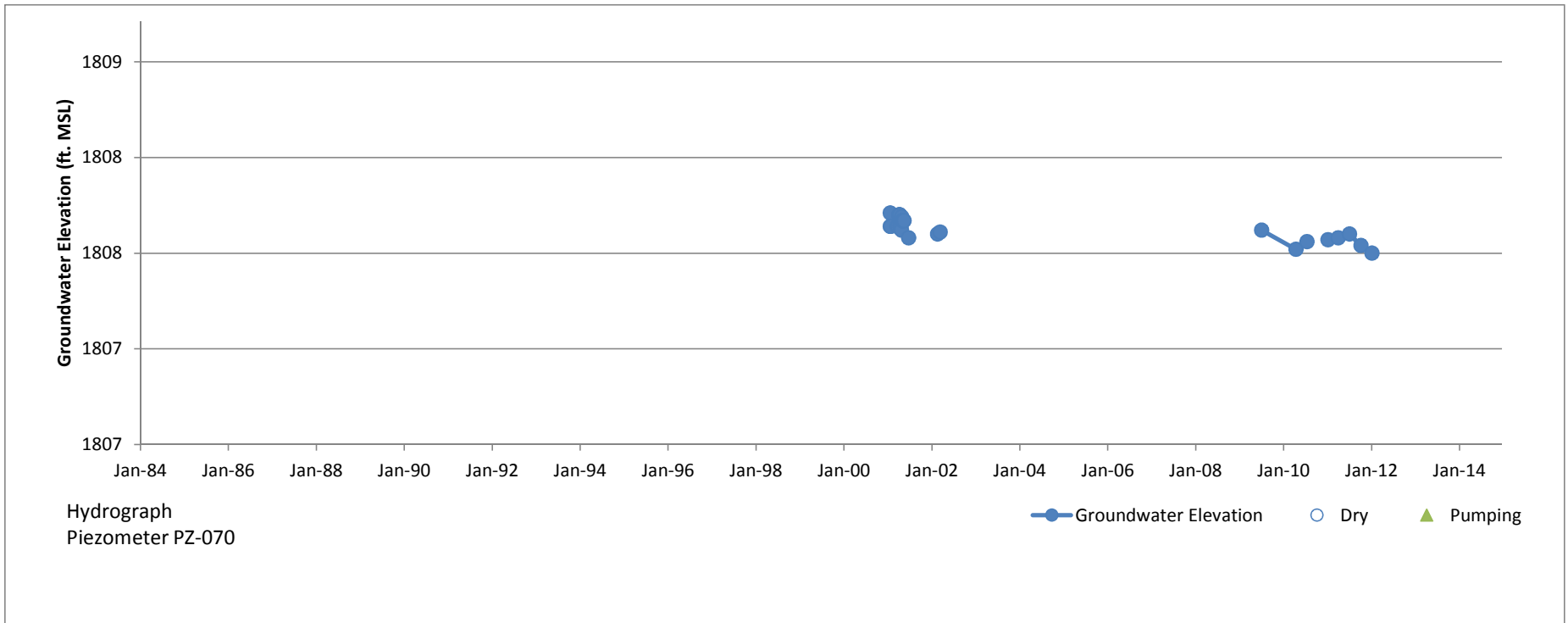


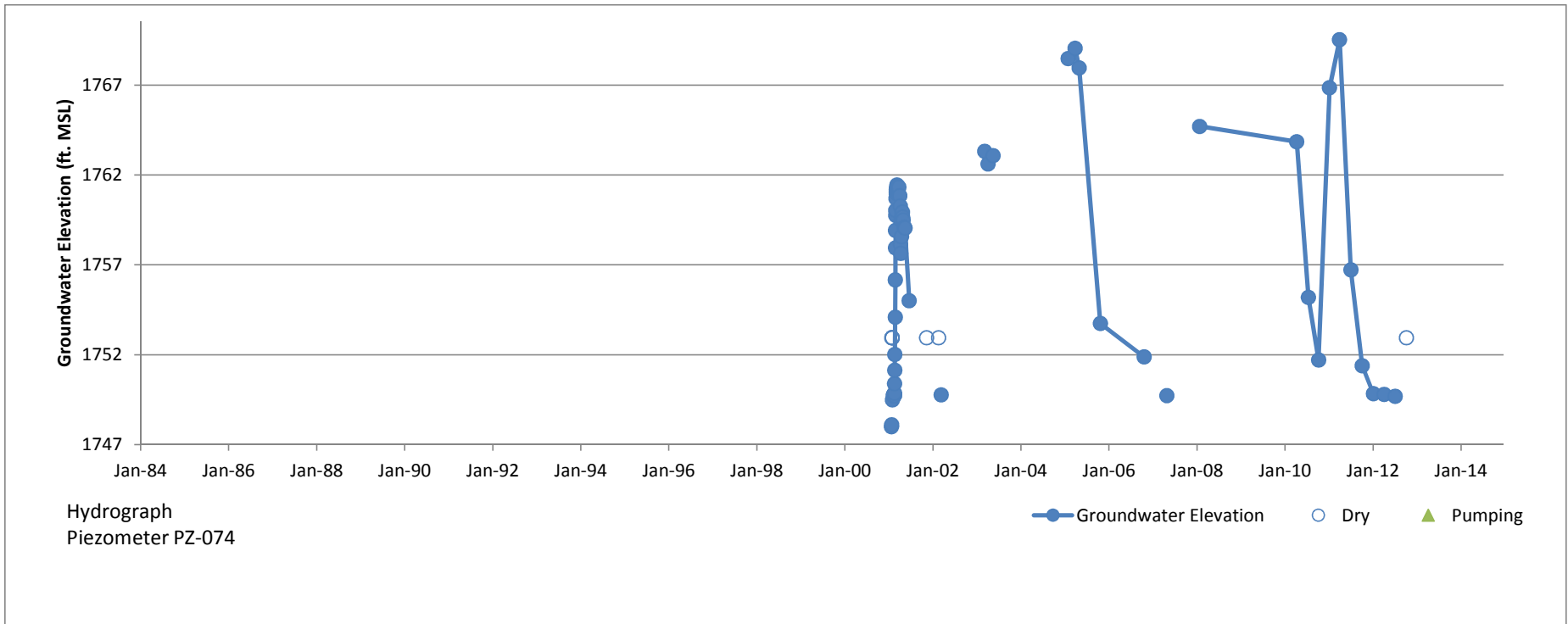


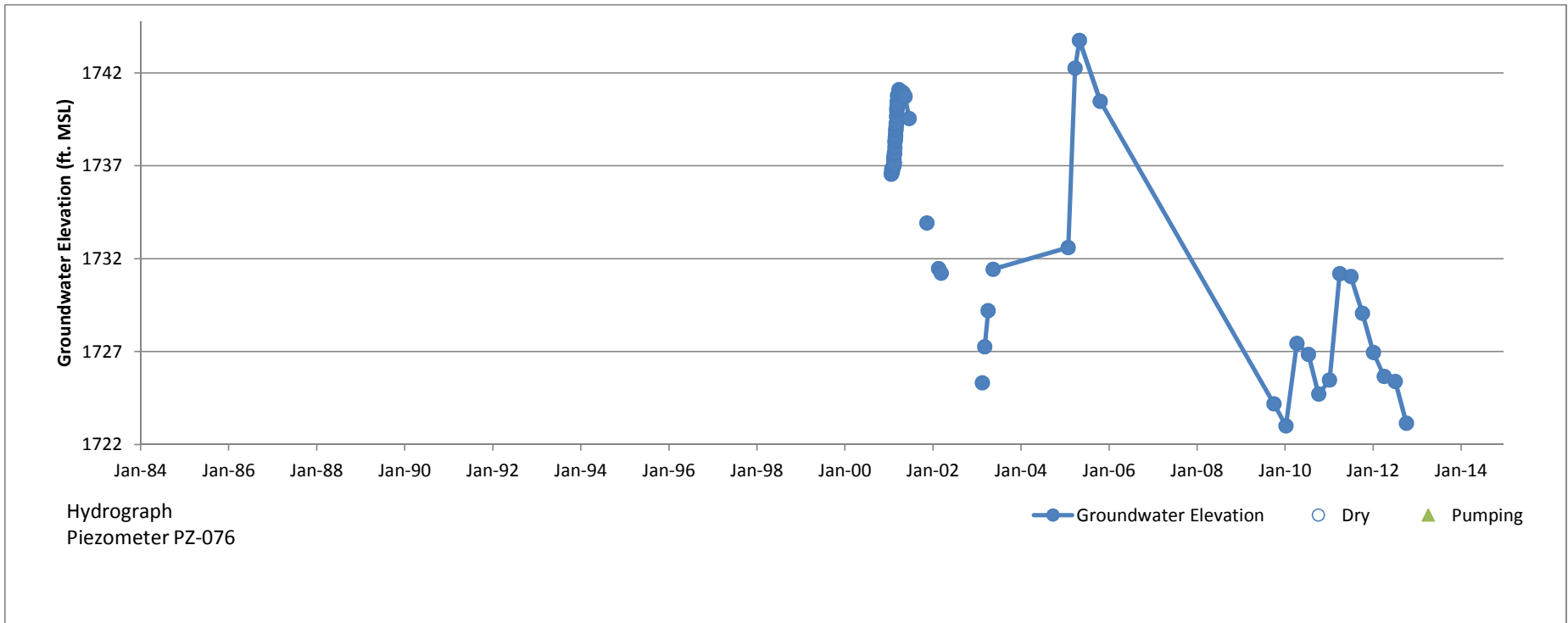
Hydrograph
Piezometer PZ-059

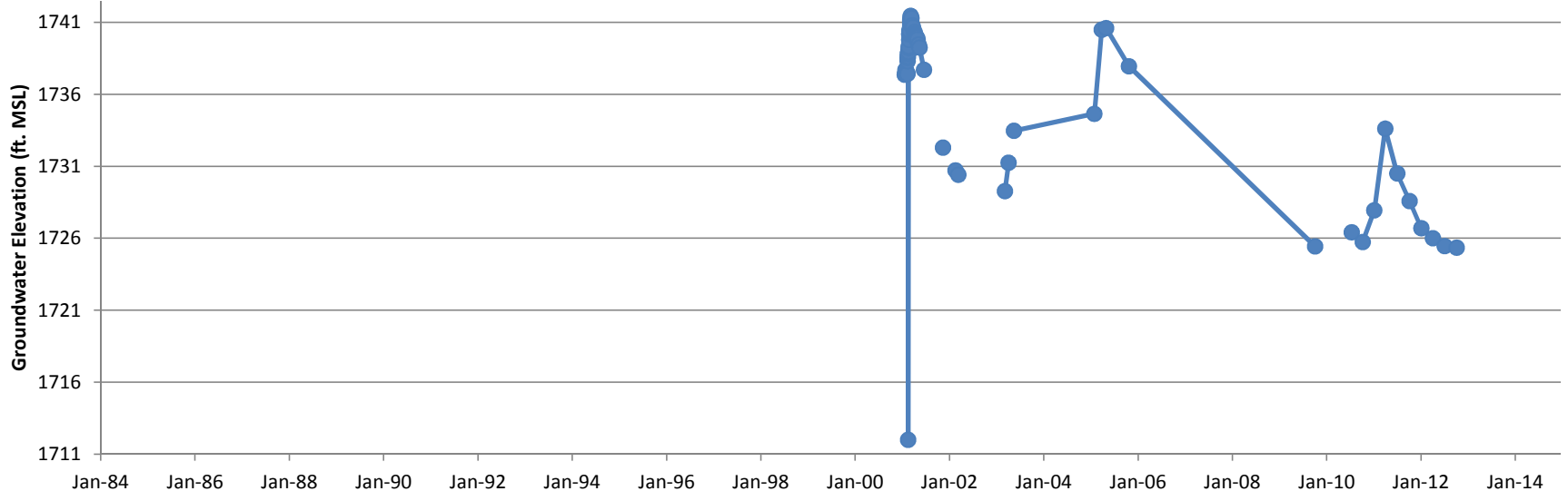
● Groundwater Elevation ○ Dry ▲ Pumping





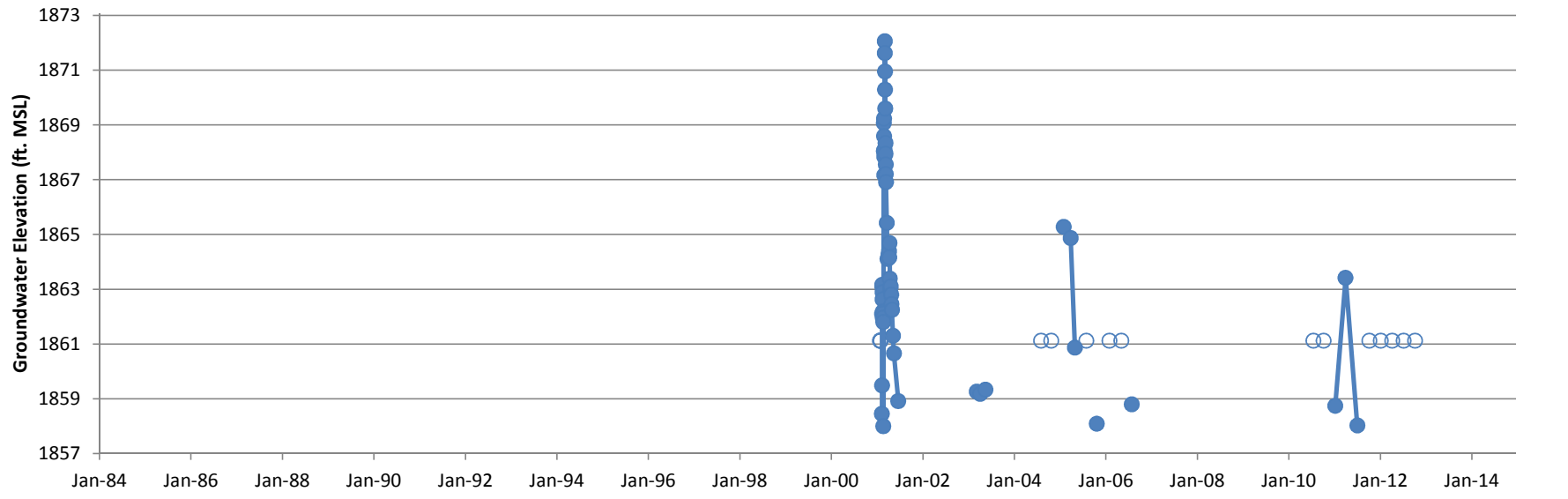






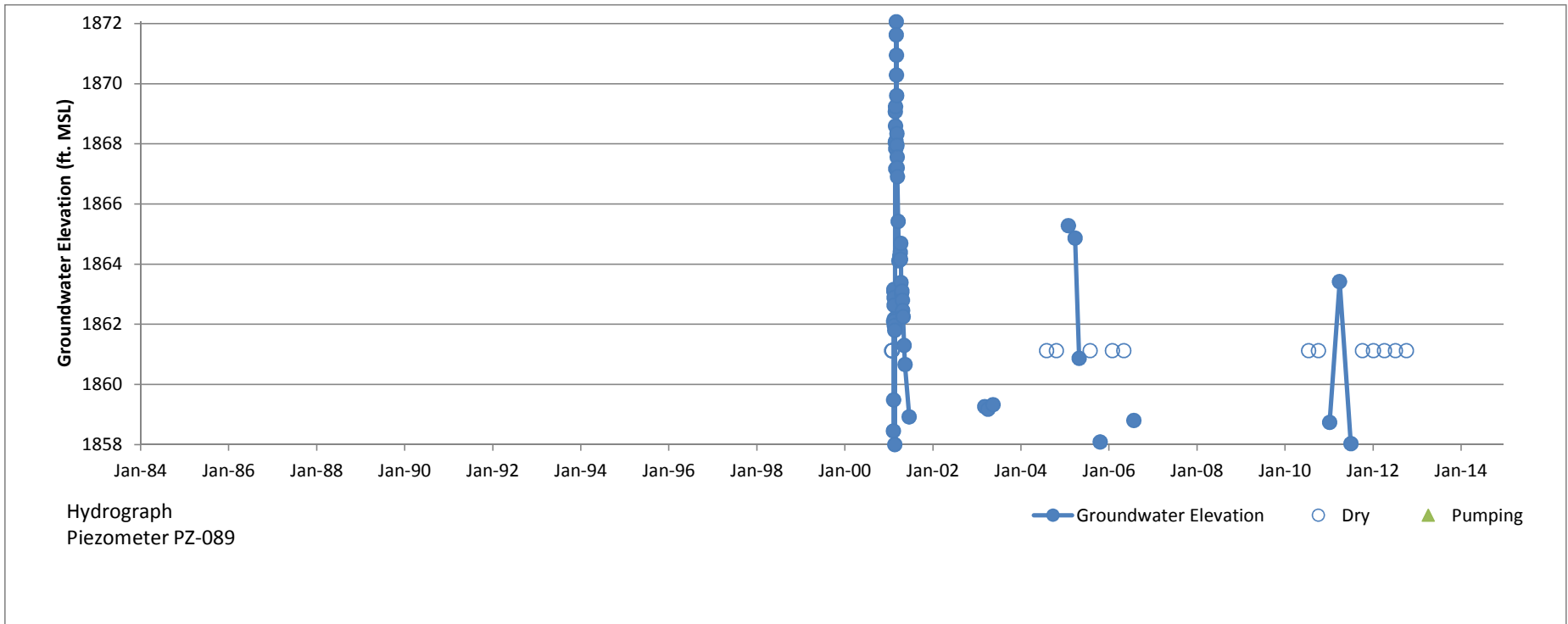
Hydrograph
Piezometer PZ-077

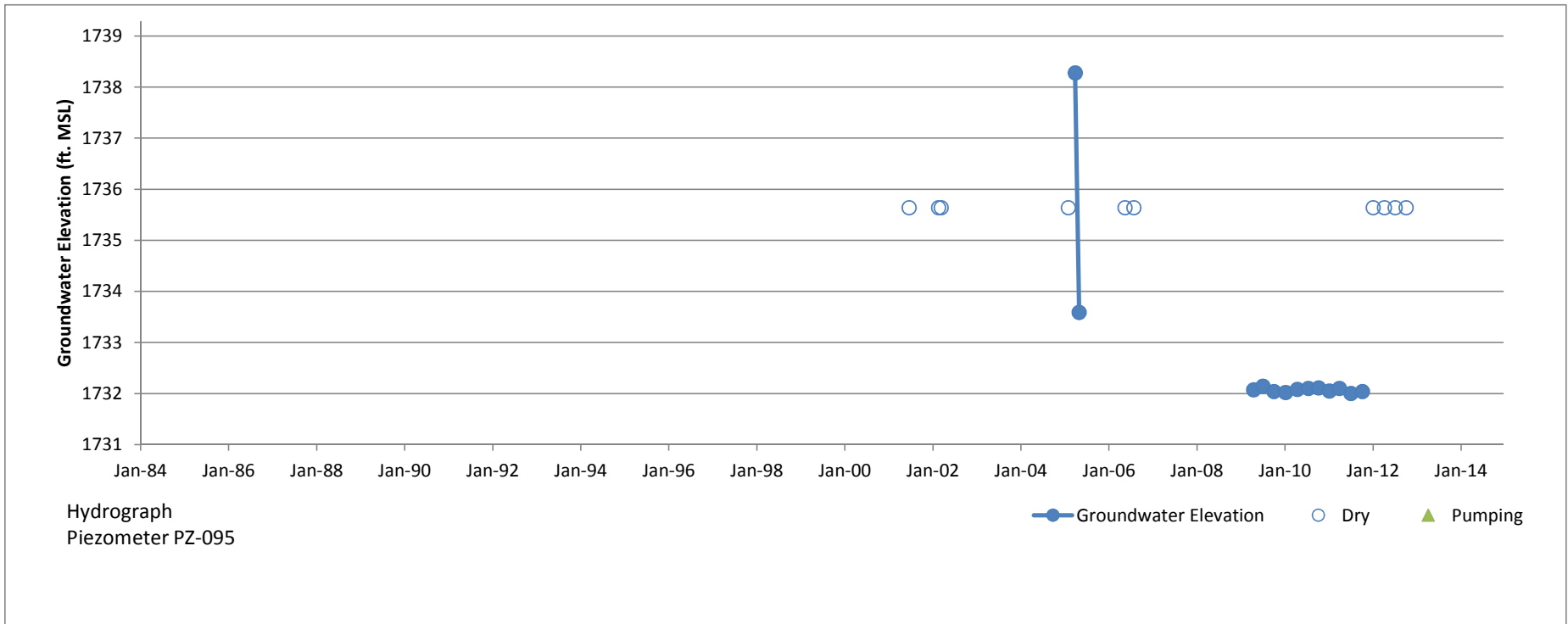
● Groundwater Elevation ○ Dry ▲ Pumping

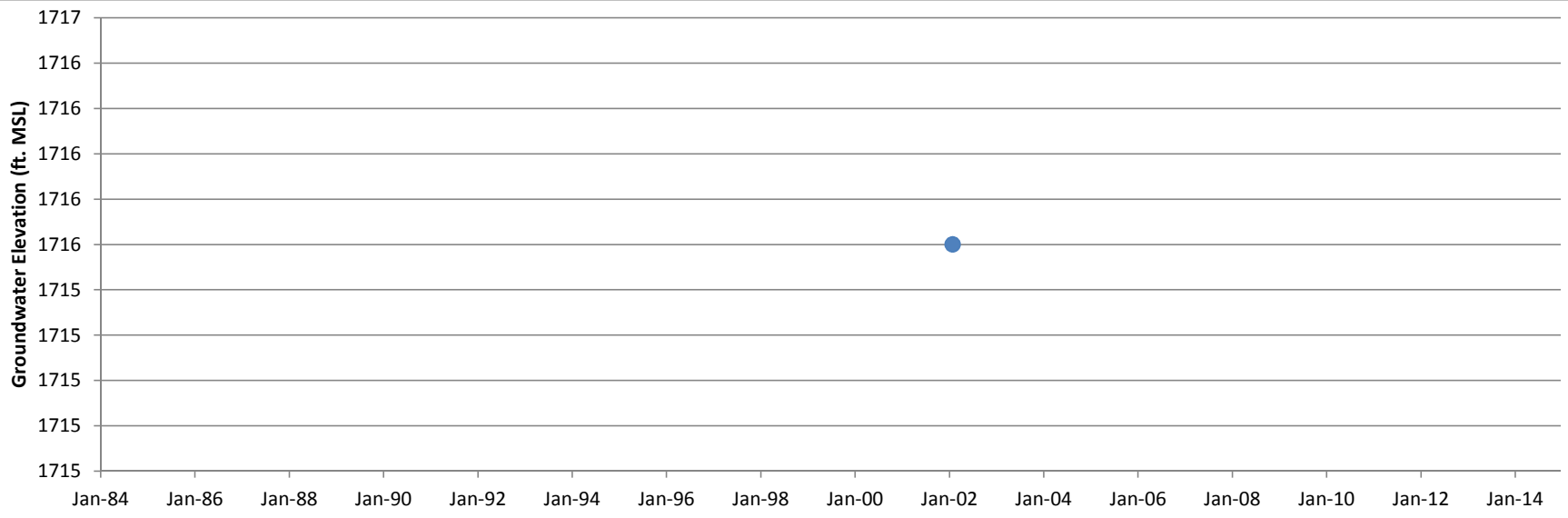


Hydrograph
Piezometer PZ-089

—●— Groundwater Elevation ○ Dry ▲ Pumping

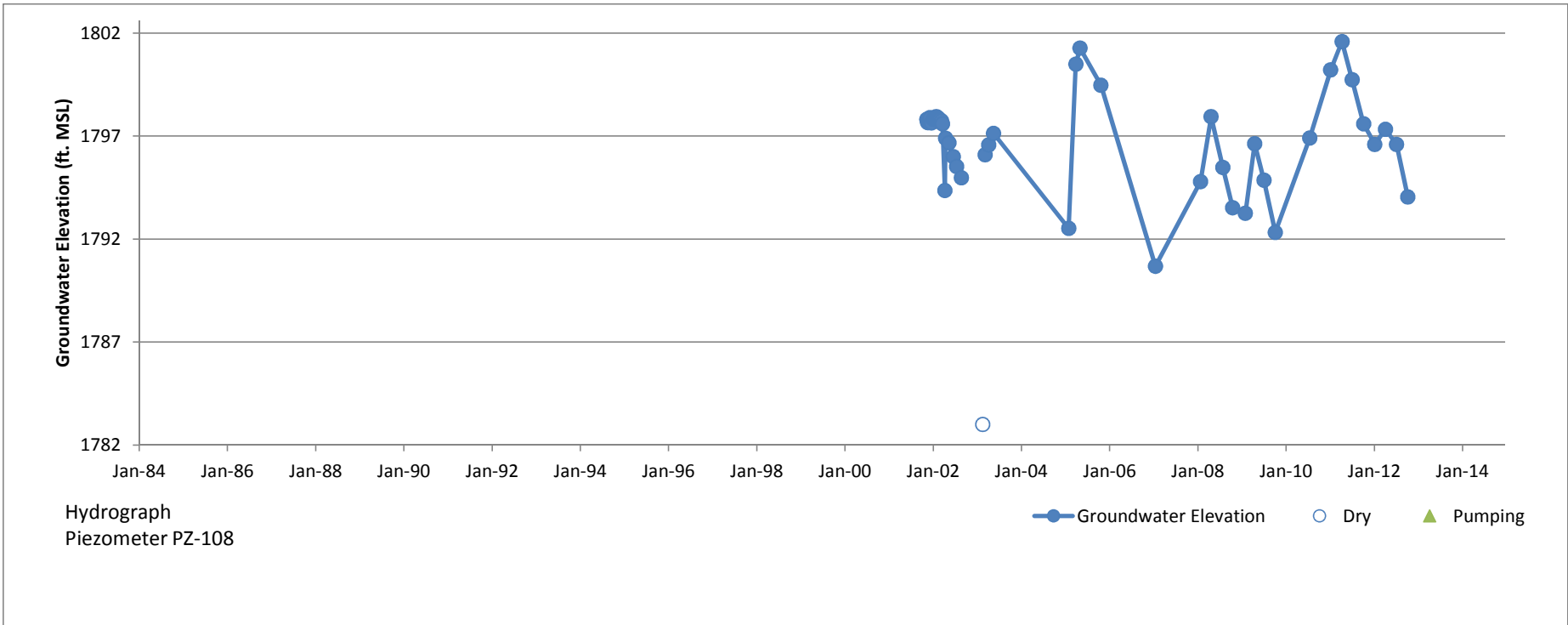


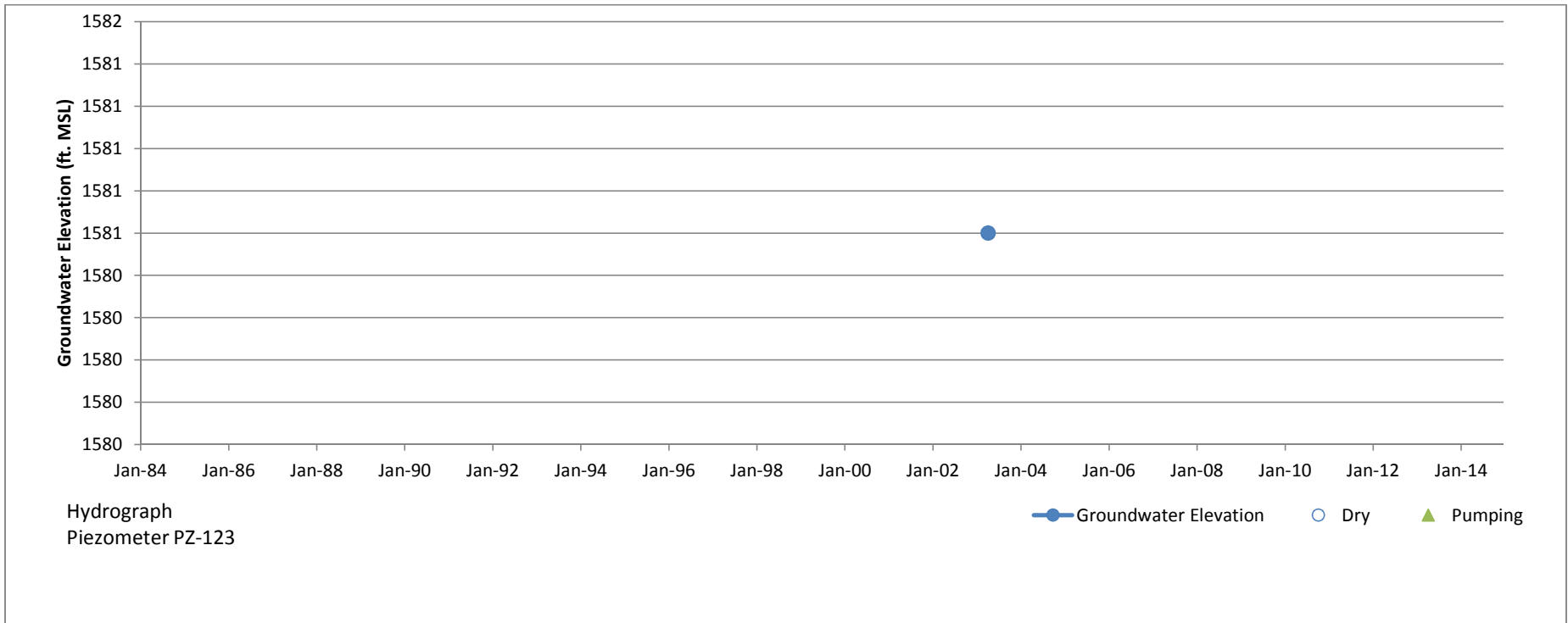


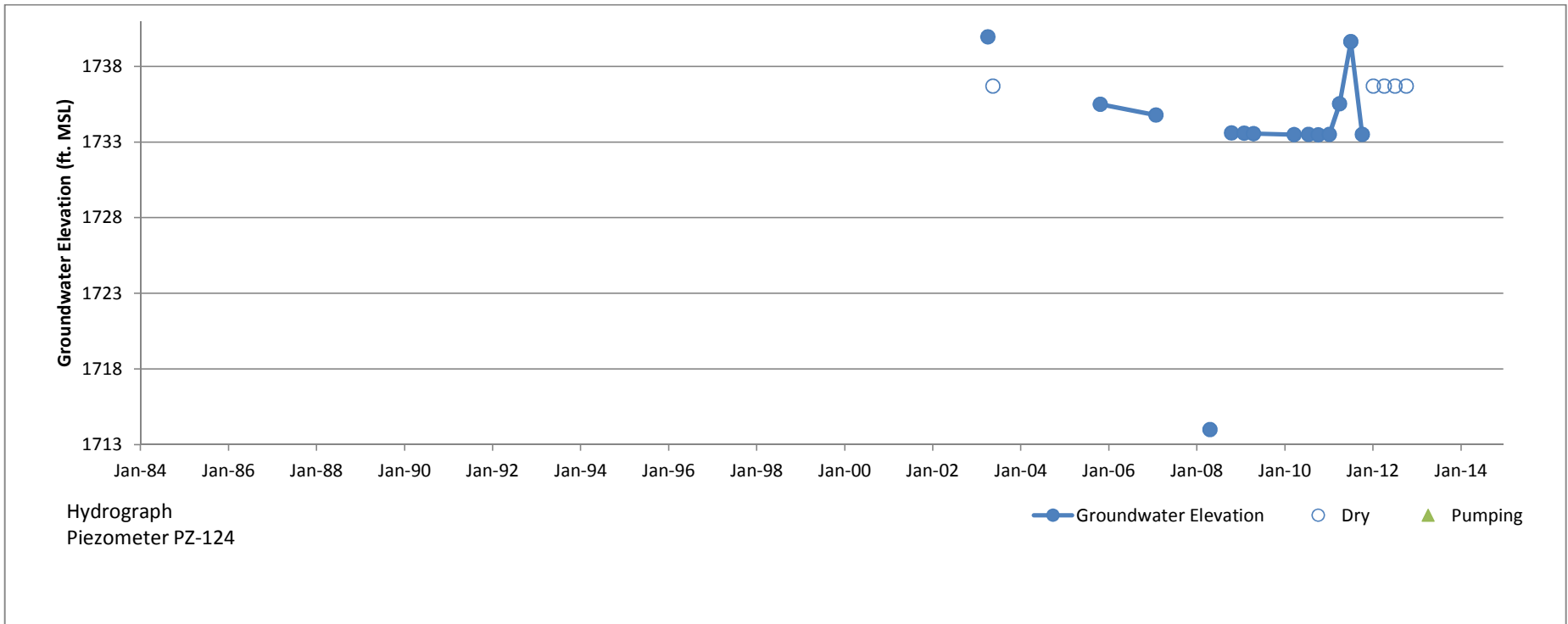


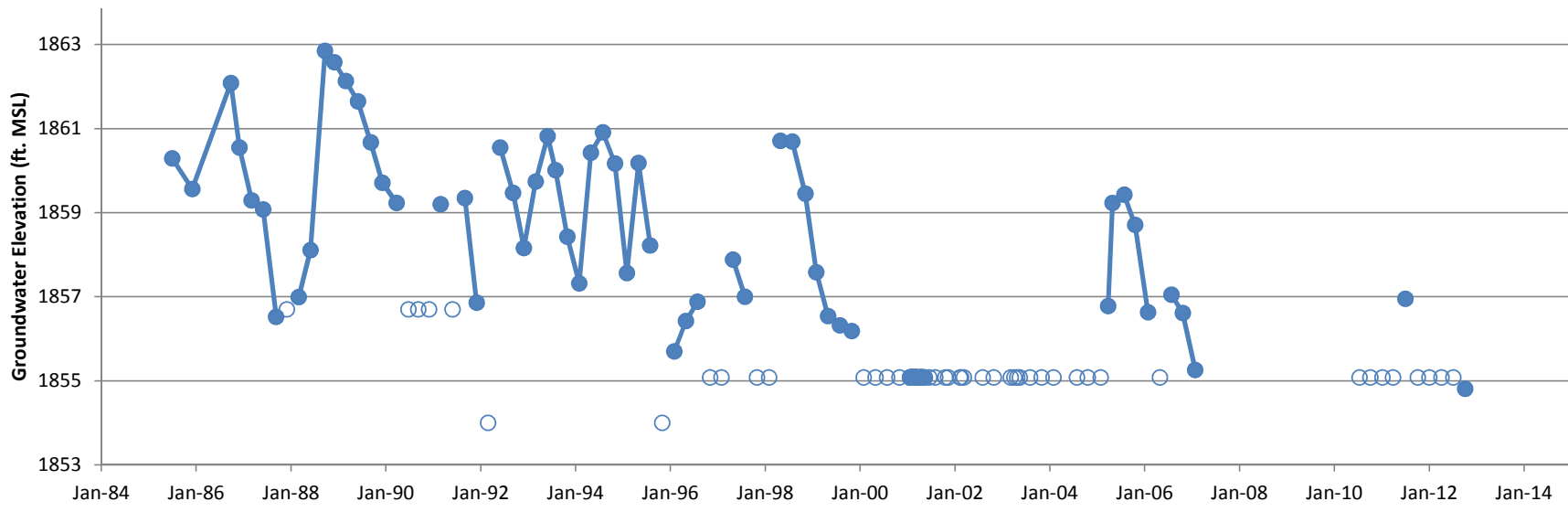
Hydrograph
Piezometer PZ-097

—●— Groundwater Elevation ○ Dry ▲ Pumping



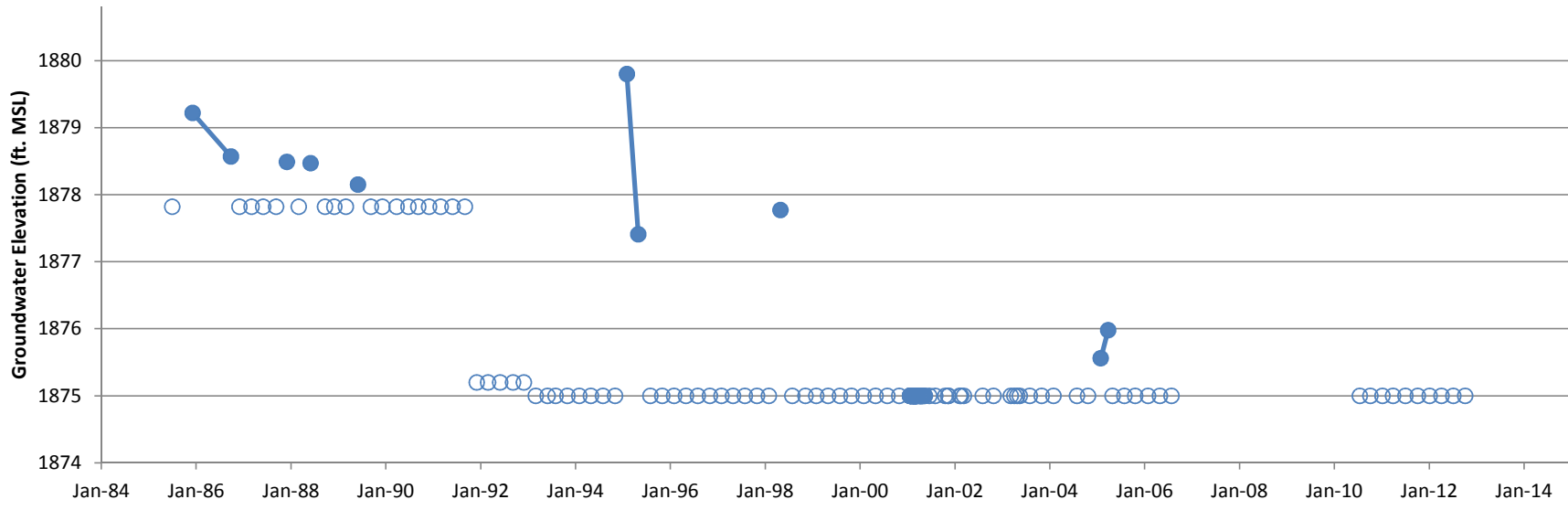






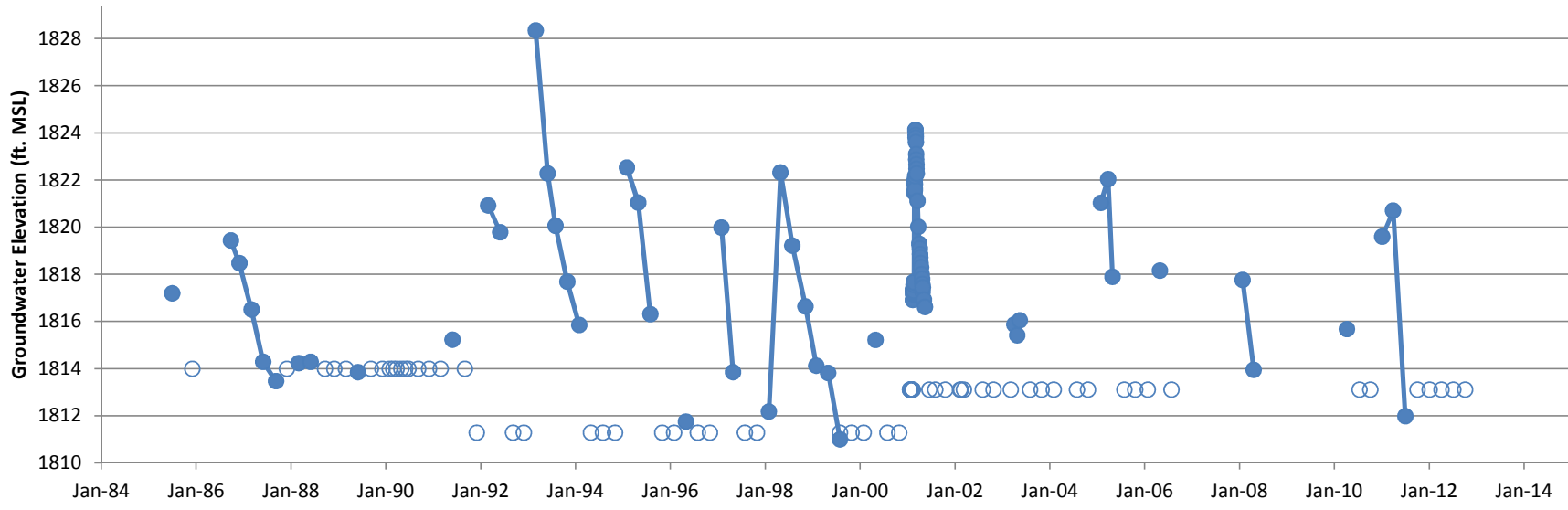
Hydrograph
Groundwater Monitoring Well RS-01

● Groundwater Elevation
 ○ Dry
 ▲ Pumping



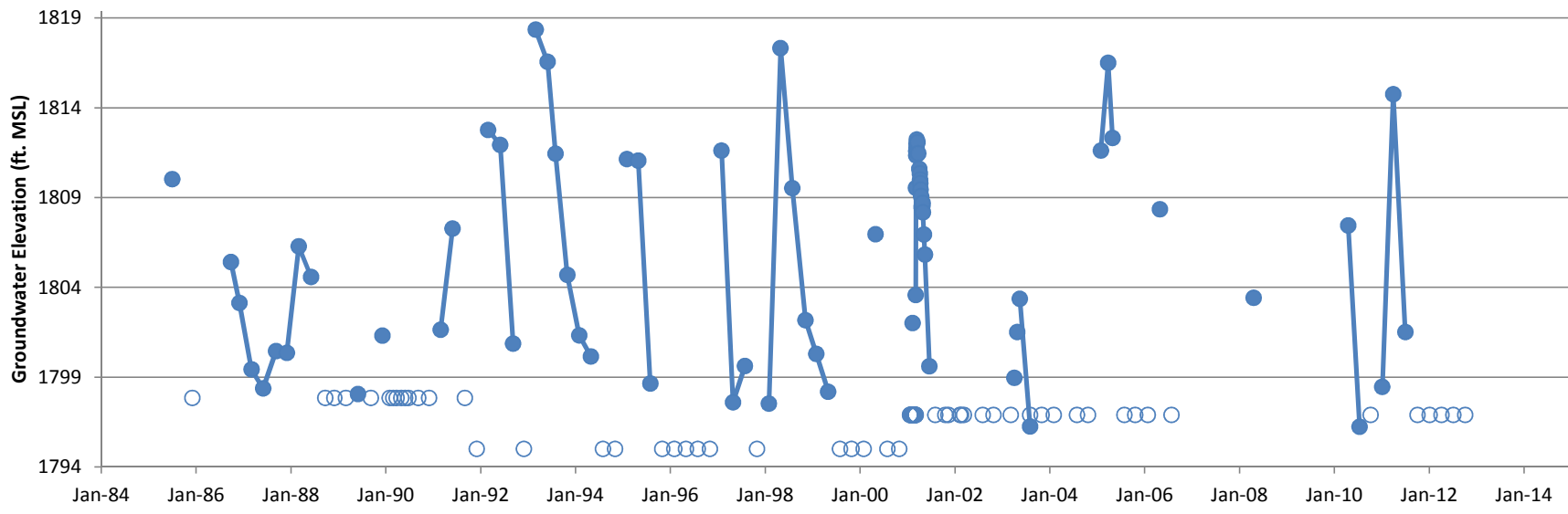
Hydrograph
Groundwater Monitoring Well RS-02

—●— Groundwater Elevation ○ Dry ▲ Pumping



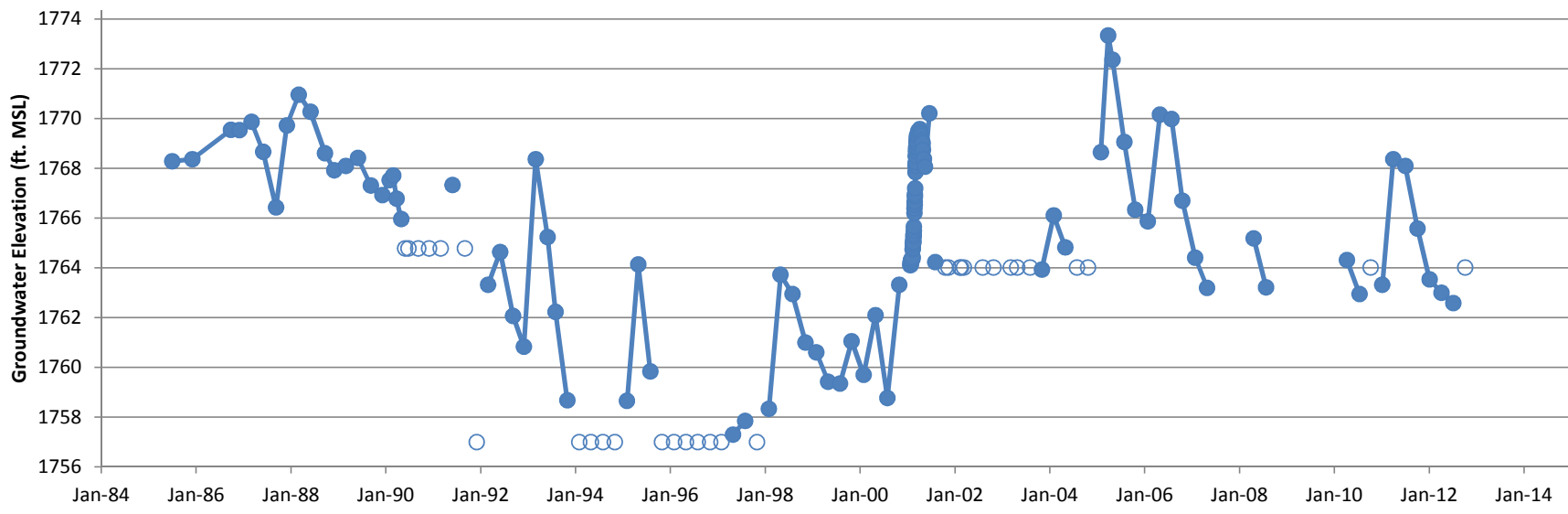
Hydrograph
Groundwater Monitoring Well RS-03

—●— Groundwater Elevation ○ Dry ▲ Pumping



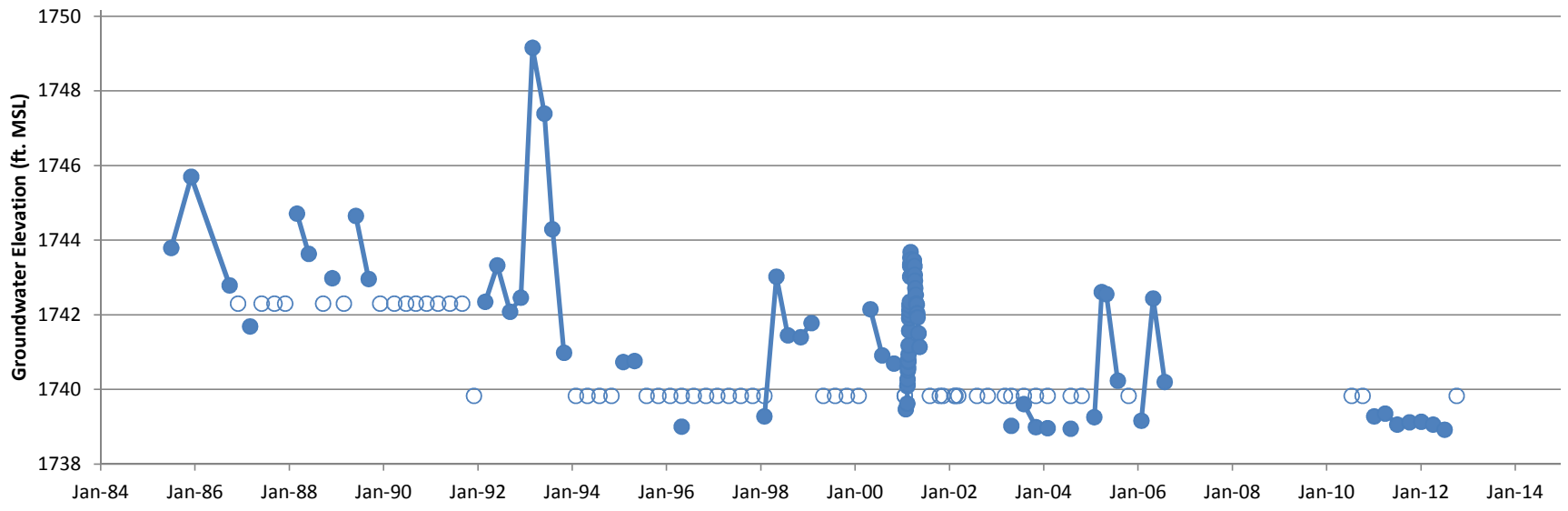
Hydrograph
Groundwater Monitoring Well RS-04

—●— Groundwater Elevation ○ Dry ▲ Pumping



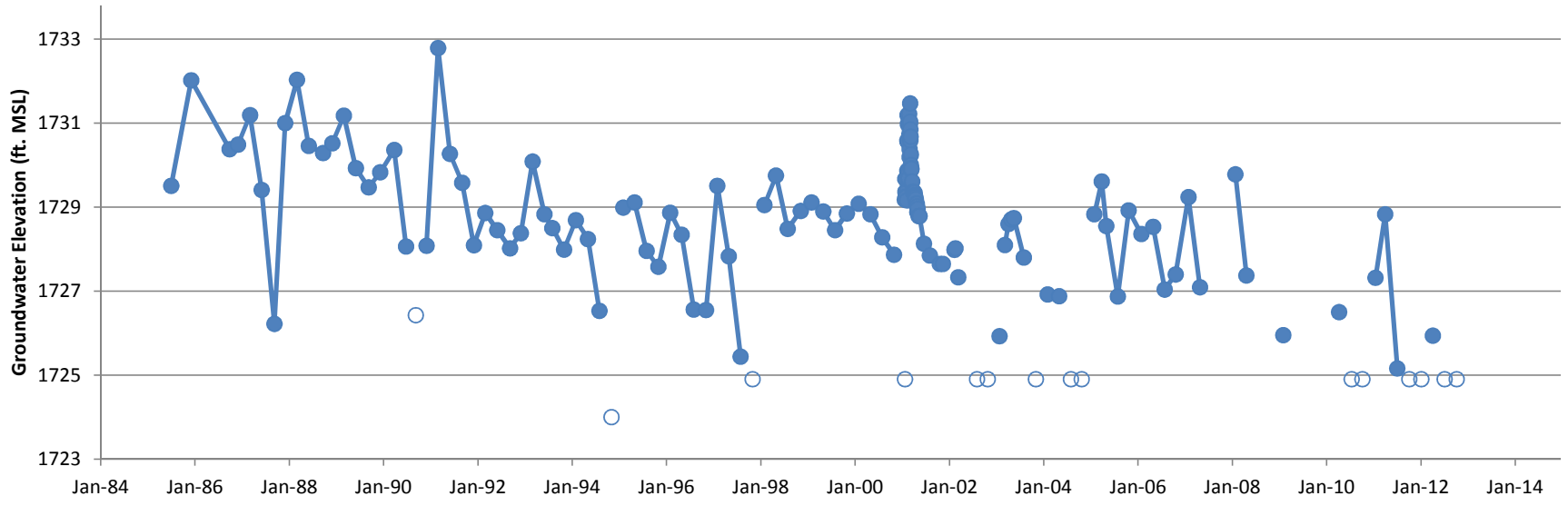
Hydrograph
Groundwater Monitoring Well RS-05

● Groundwater Elevation
 ○ Dry
 ▲ Pumping



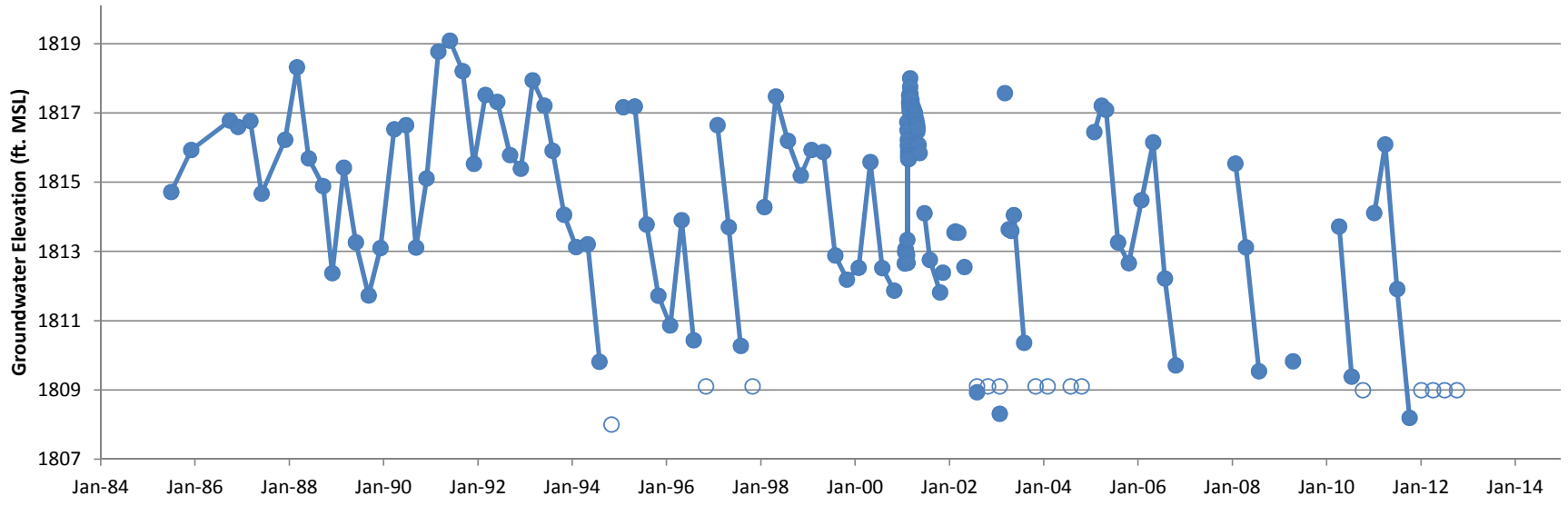
Hydrograph
Groundwater Monitoring Well RS-06

—●— Groundwater Elevation ○ Dry ▲ Pumping



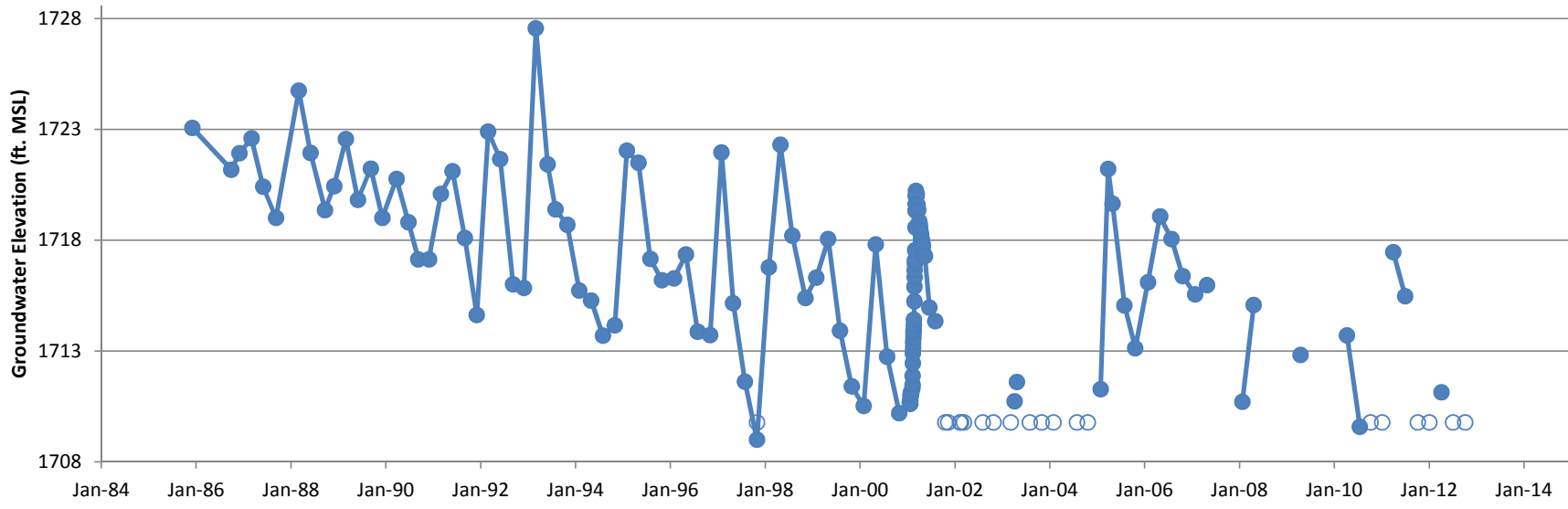
Hydrograph
Groundwater Monitoring Well RS-07

● Groundwater Elevation ○ Dry ▲ Pumping



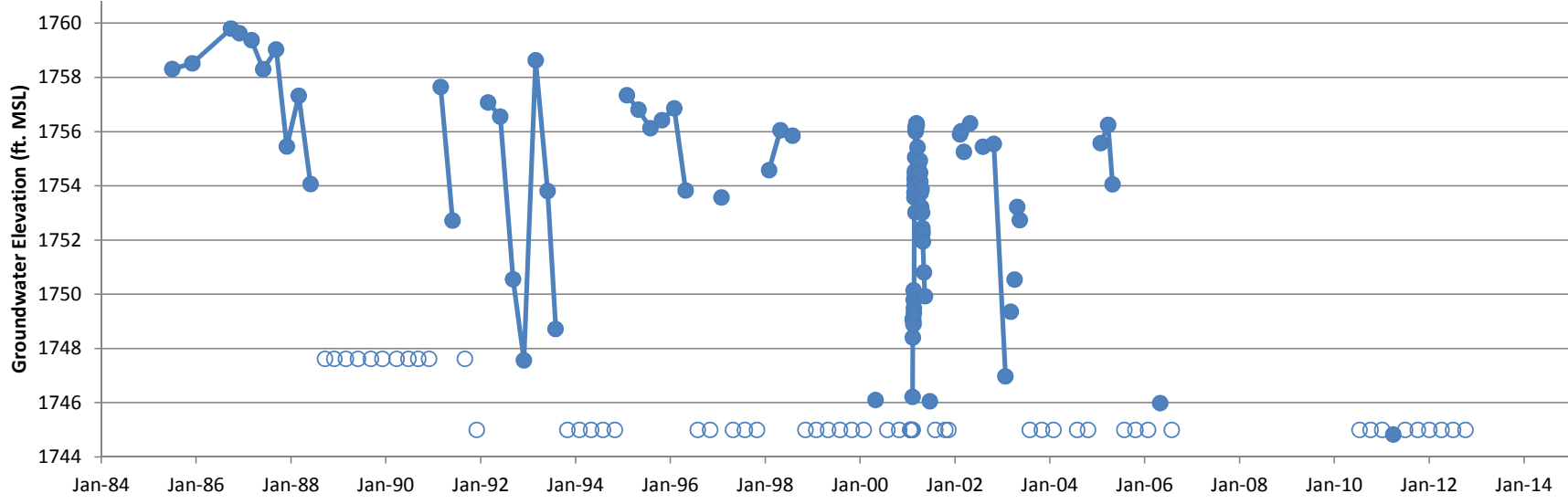
Hydrograph
Groundwater Monitoring Well RS-08

● Groundwater Elevation
 ○ Dry
 ▲ Pumping



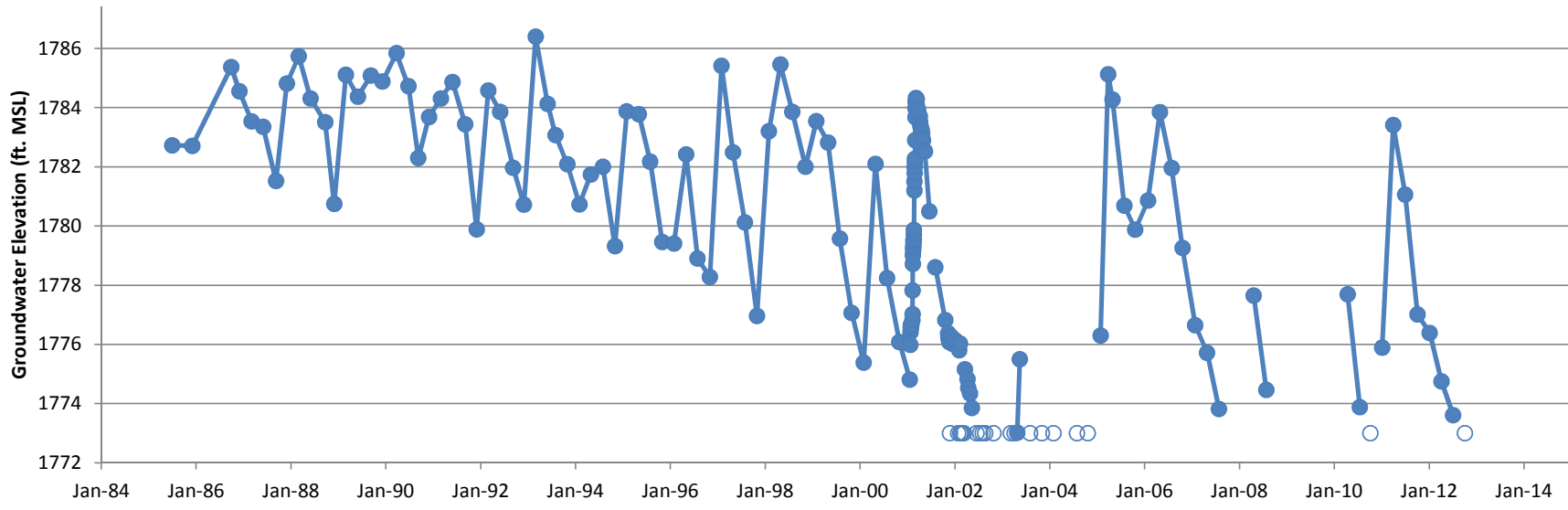
Hydrograph
Groundwater Monitoring Well RS-09

● Groundwater Elevation
 ○ Dry
 ▲ Pumping



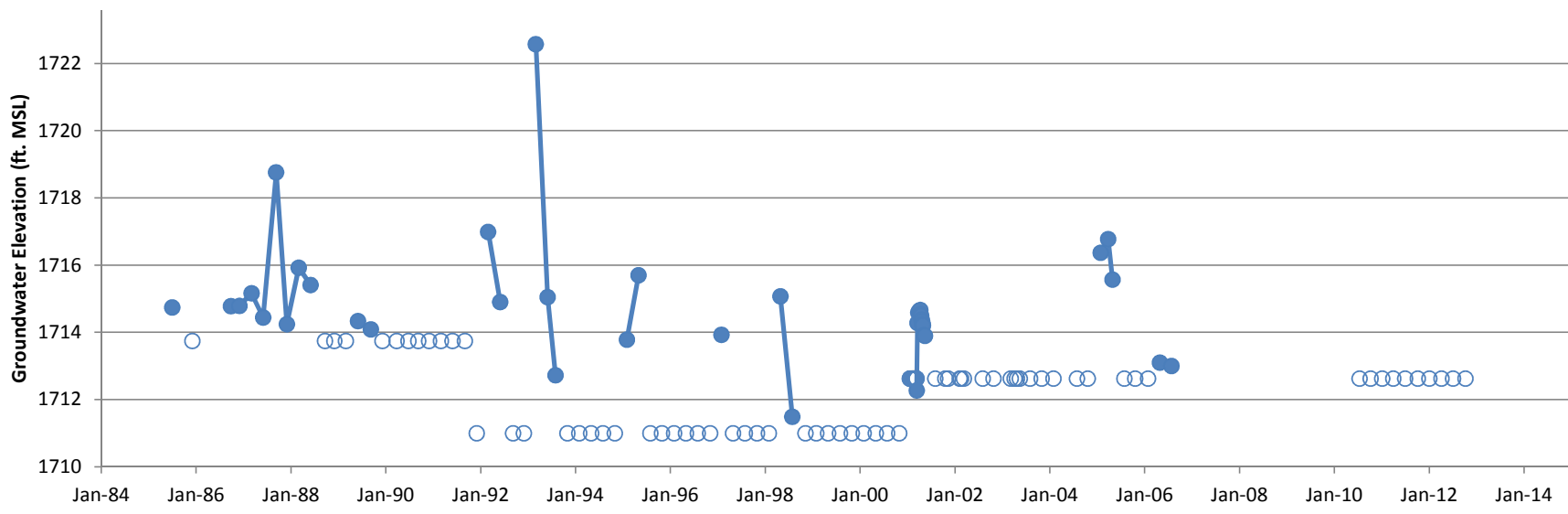
Hydrograph
Groundwater Monitoring Well RS-10

● Groundwater Elevation
 ○ Dry
 ▲ Pumping



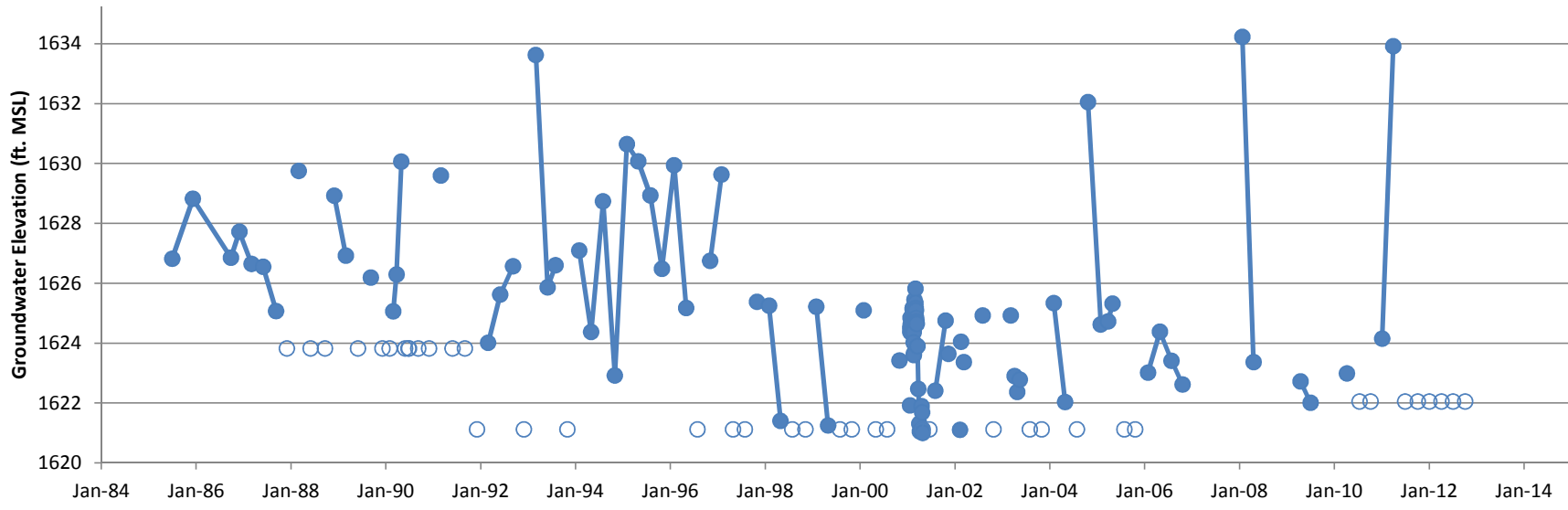
Hydrograph
Groundwater Monitoring Well RS-11

● Groundwater Elevation
 ○ Dry
 ▲ Pumping



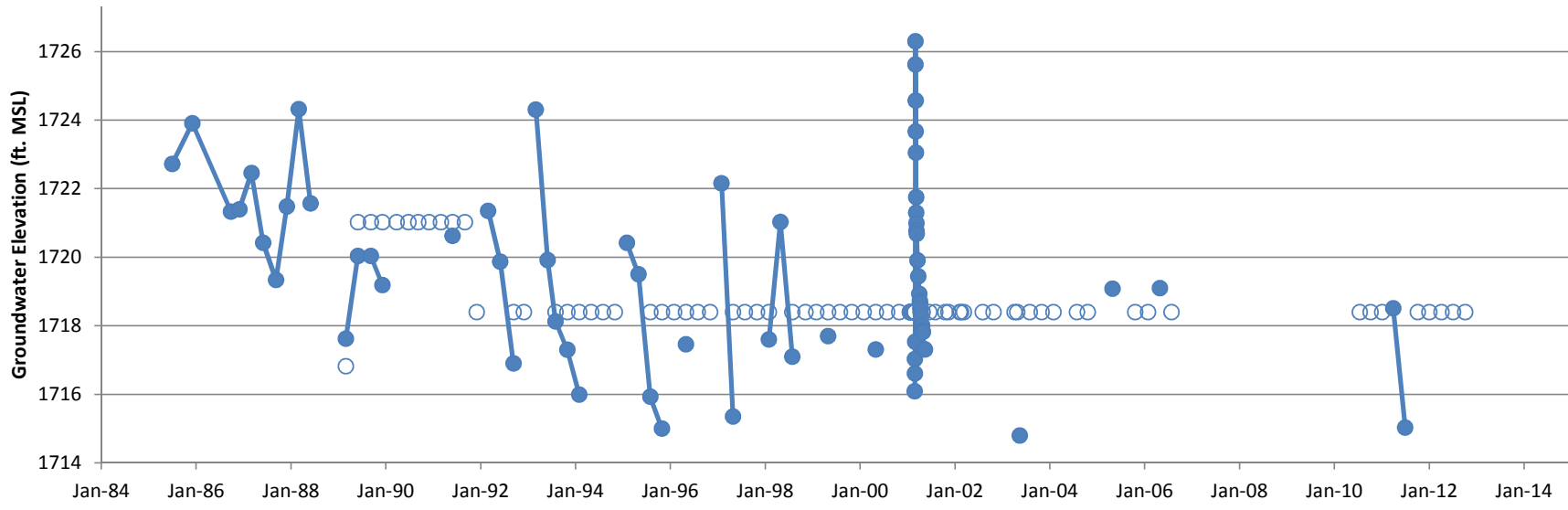
Hydrograph
Groundwater Monitoring Well RS-12

—●— Groundwater Elevation ○ Dry ▲ Pumping



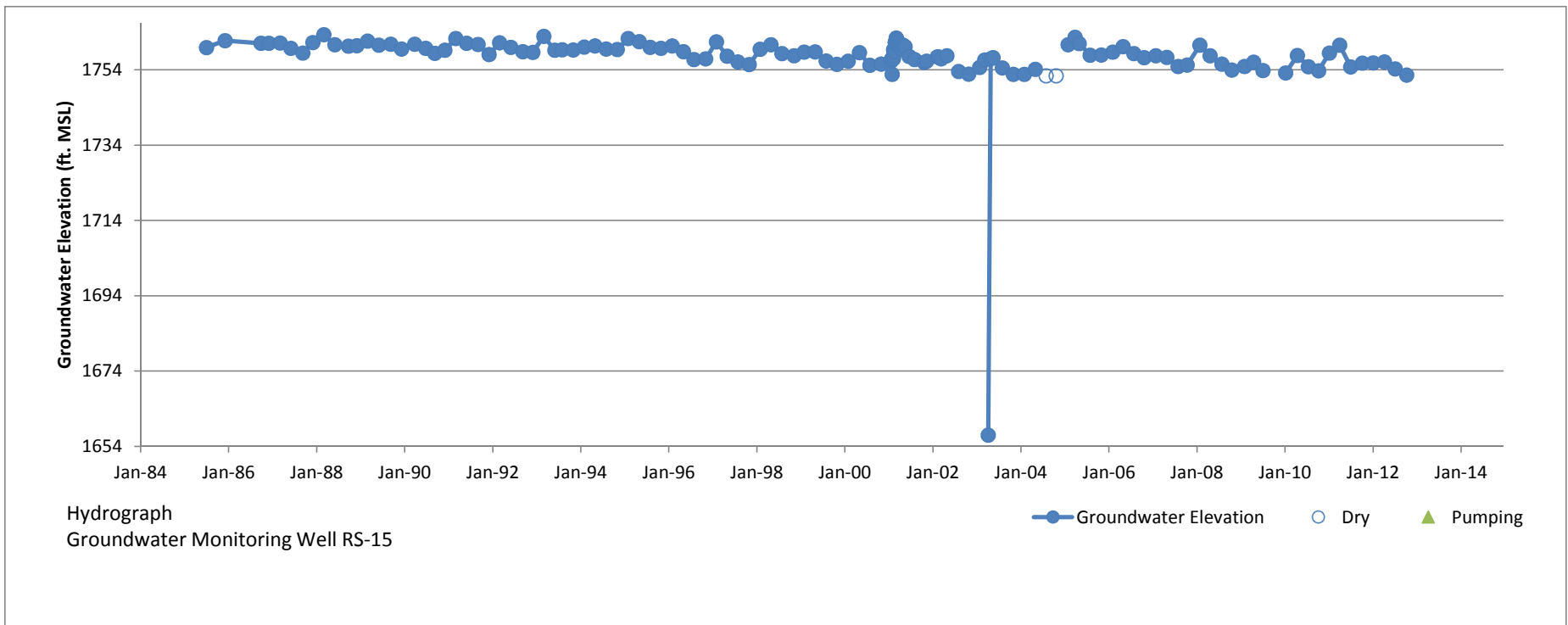
Hydrograph
Groundwater Monitoring Well RS-13

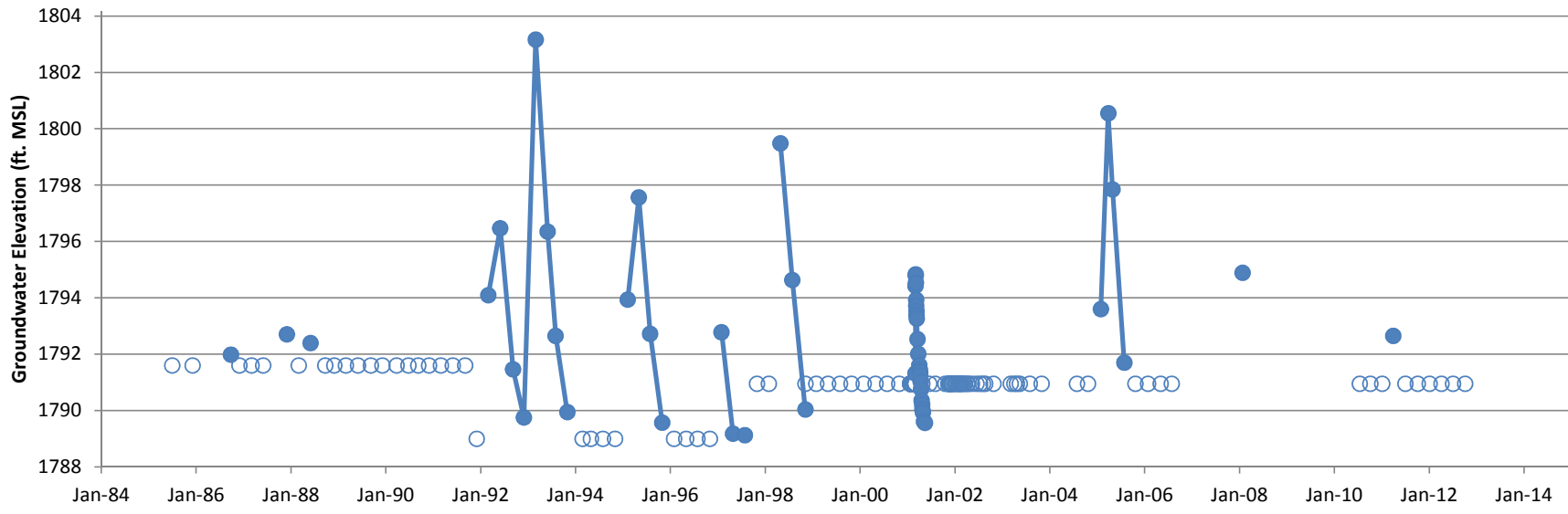
—●— Groundwater Elevation ○ Dry ▲ Pumping



Hydrograph
Groundwater Monitoring Well RS-14

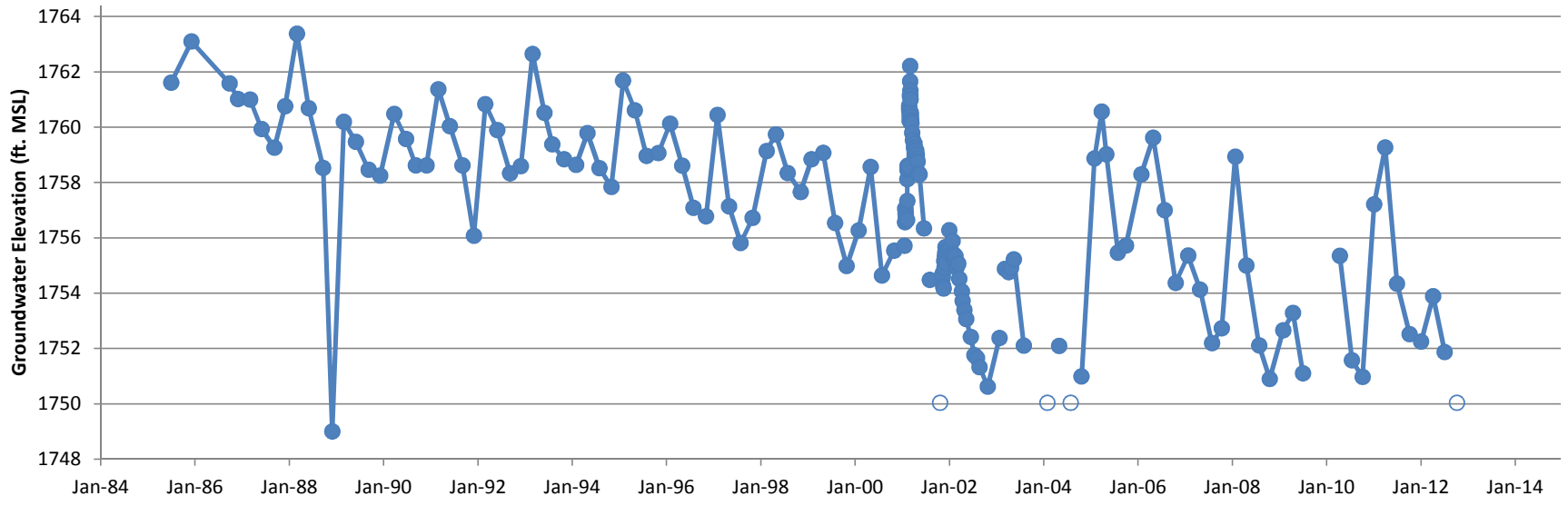
—●— Groundwater Elevation ○ Dry ▲ Pumping





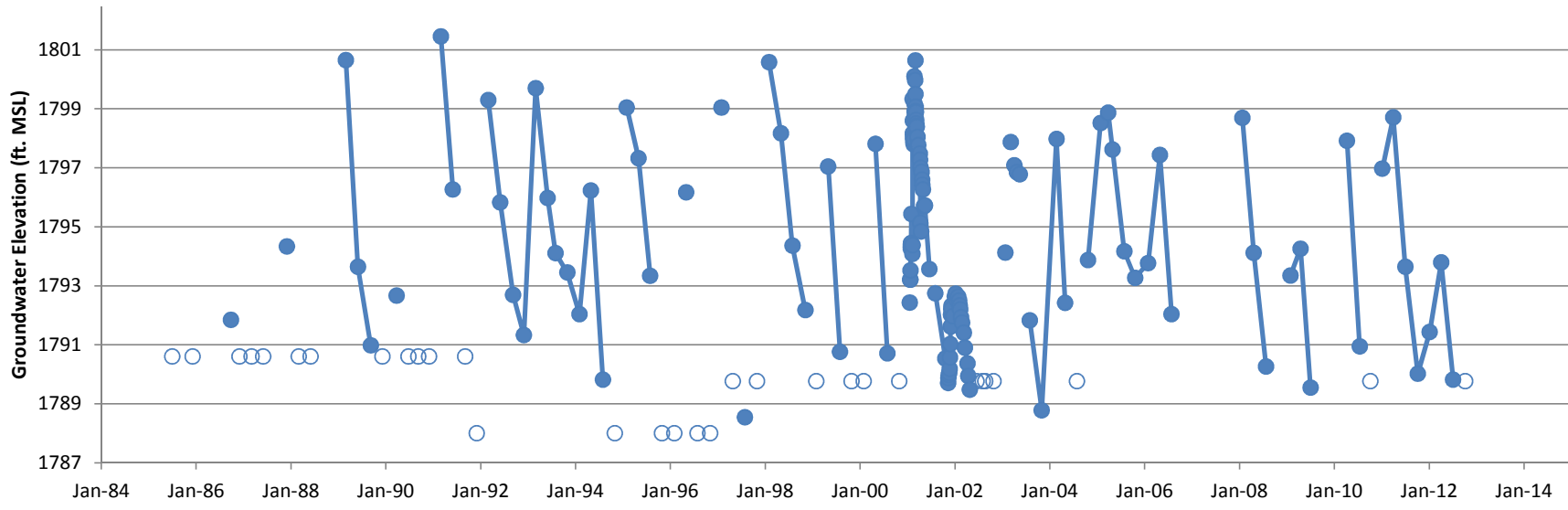
Hydrograph
Groundwater Monitoring Well RS-16

—●— Groundwater Elevation ○ Dry ▲ Pumping



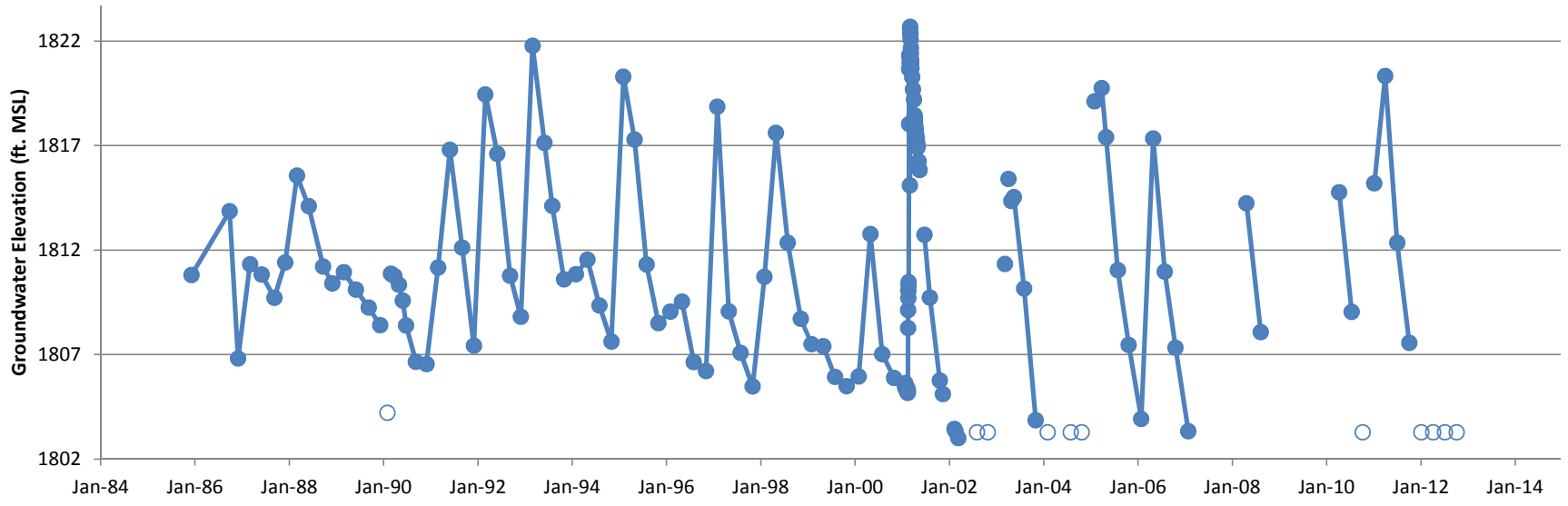
Hydrograph
Groundwater Monitoring Well RS-17

—●— Groundwater Elevation ○ Dry ▲ Pumping



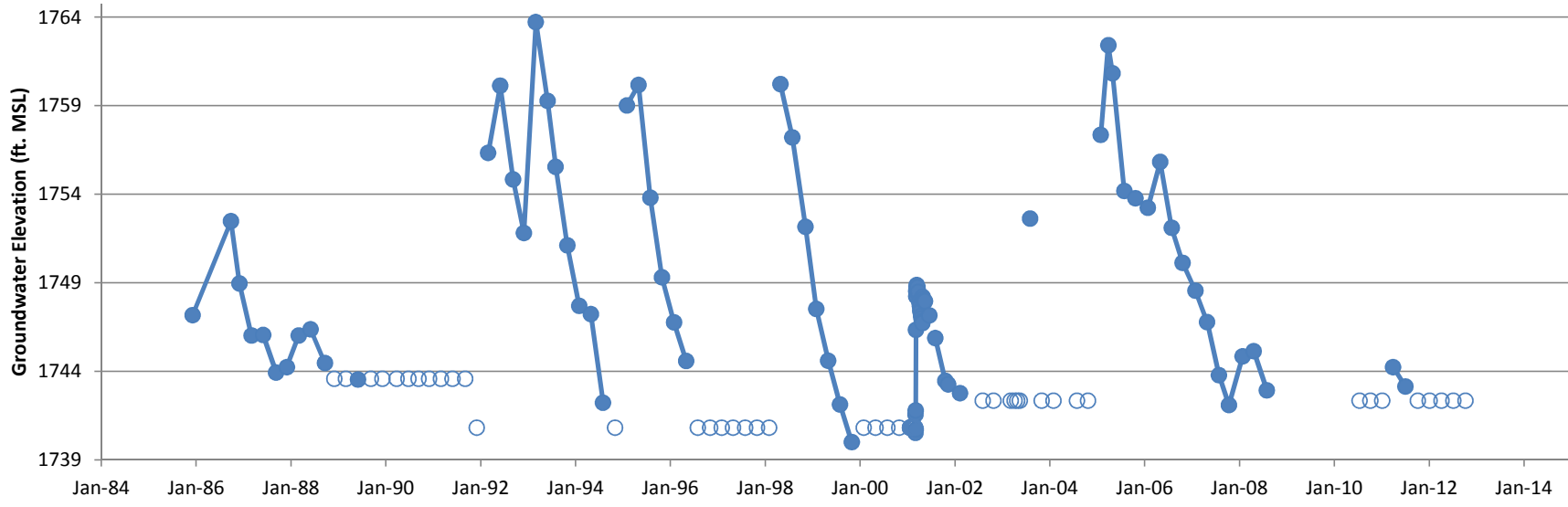
Hydrograph
Groundwater Monitoring Well RS-18

—●— Groundwater Elevation ○ Dry ▲ Pumping



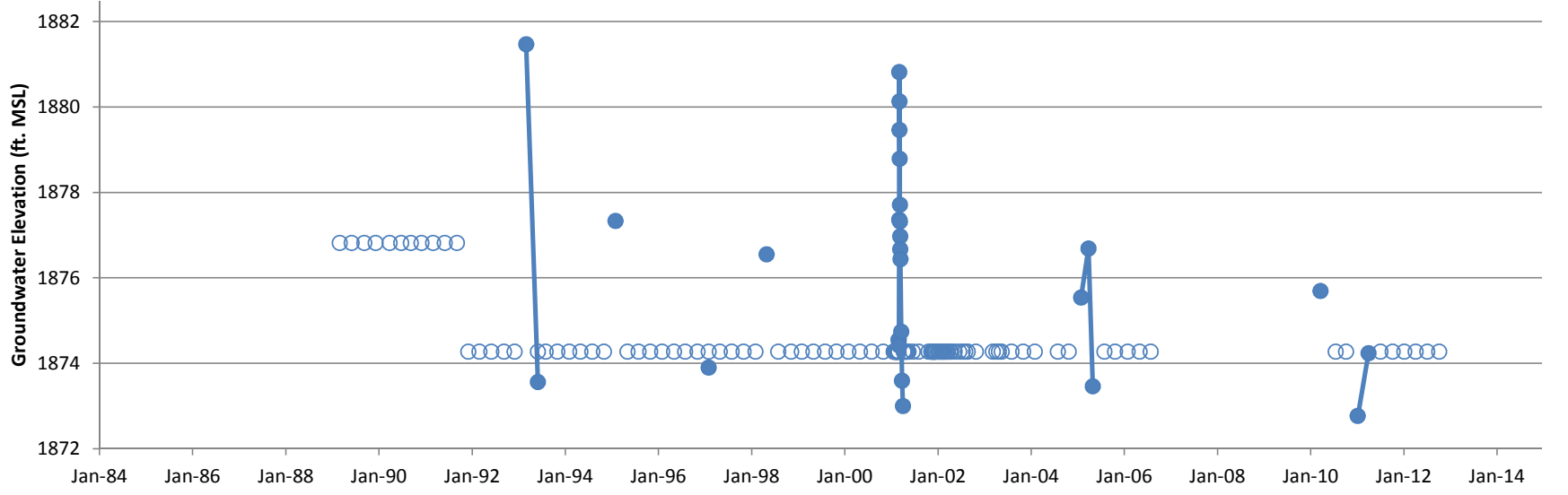
Hydrograph
Groundwater Monitoring Well RS-20

● Groundwater Elevation
 ○ Dry
 ▲ Pumping



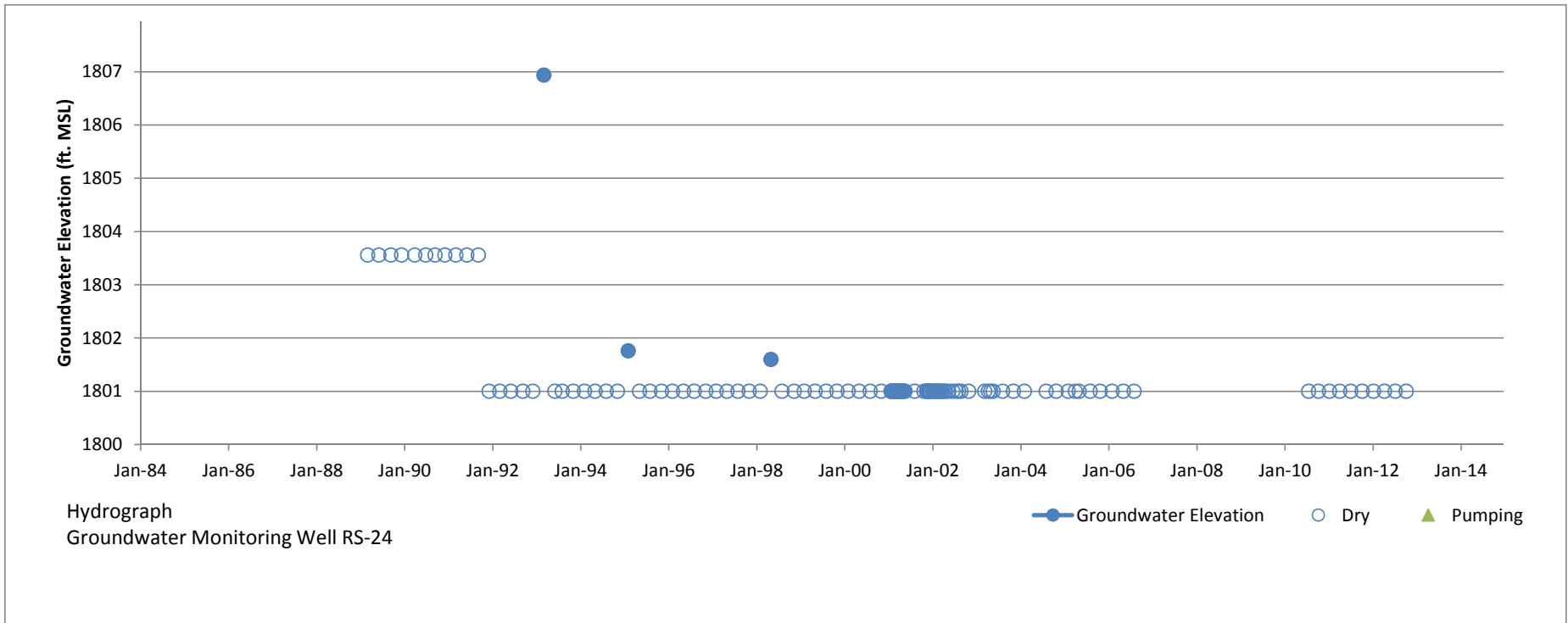
Hydrograph
Groundwater Monitoring Well RS-21

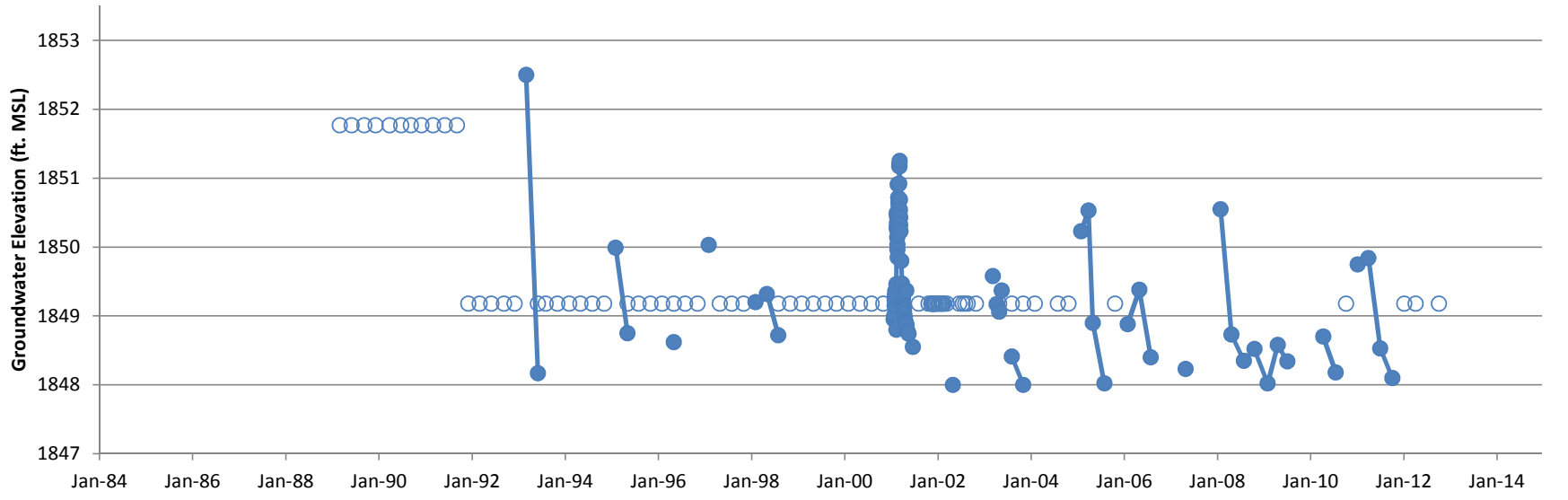
—●— Groundwater Elevation
 ○ Dry
 ▲ Pumping



Hydrograph
Groundwater Monitoring Well RS-23

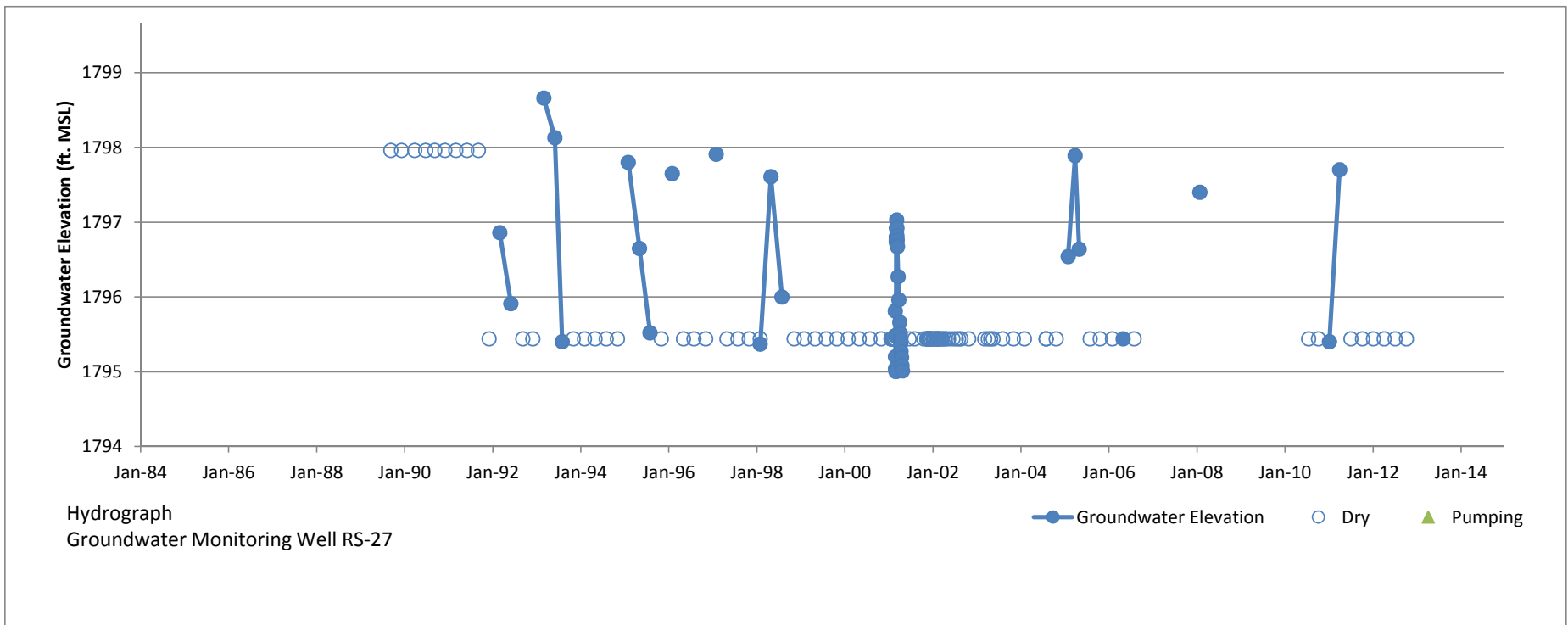
● Groundwater Elevation
 ○ Dry
 ▲ Pumping

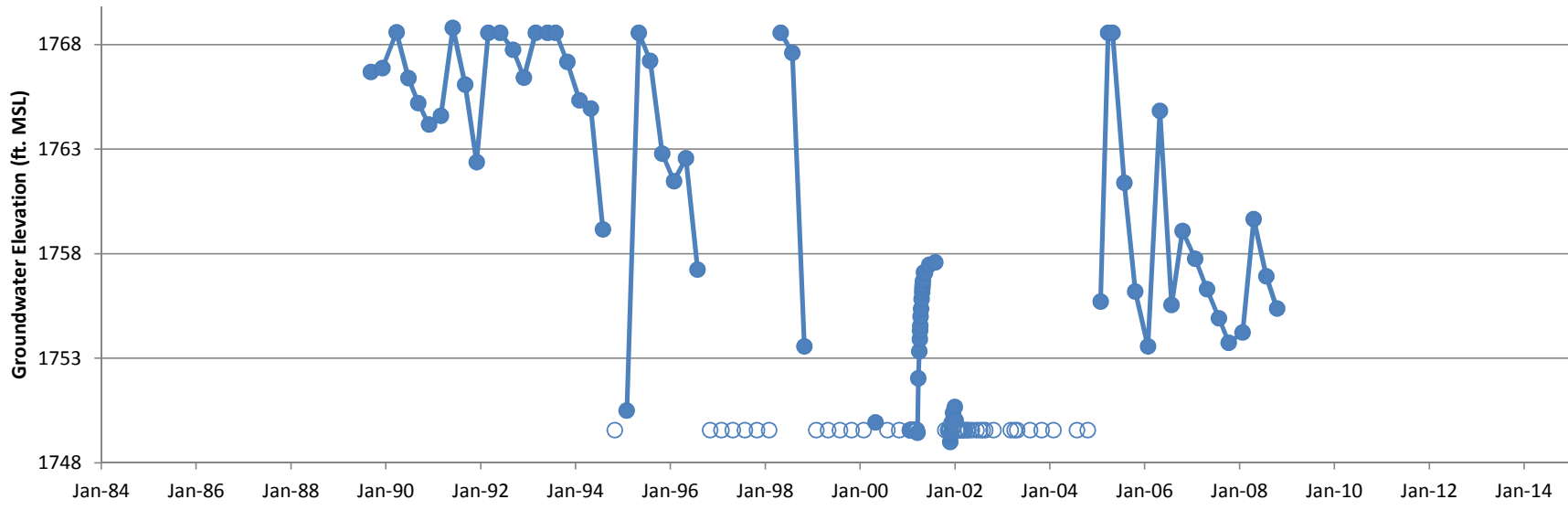




Hydrograph
Groundwater Monitoring Well RS-25

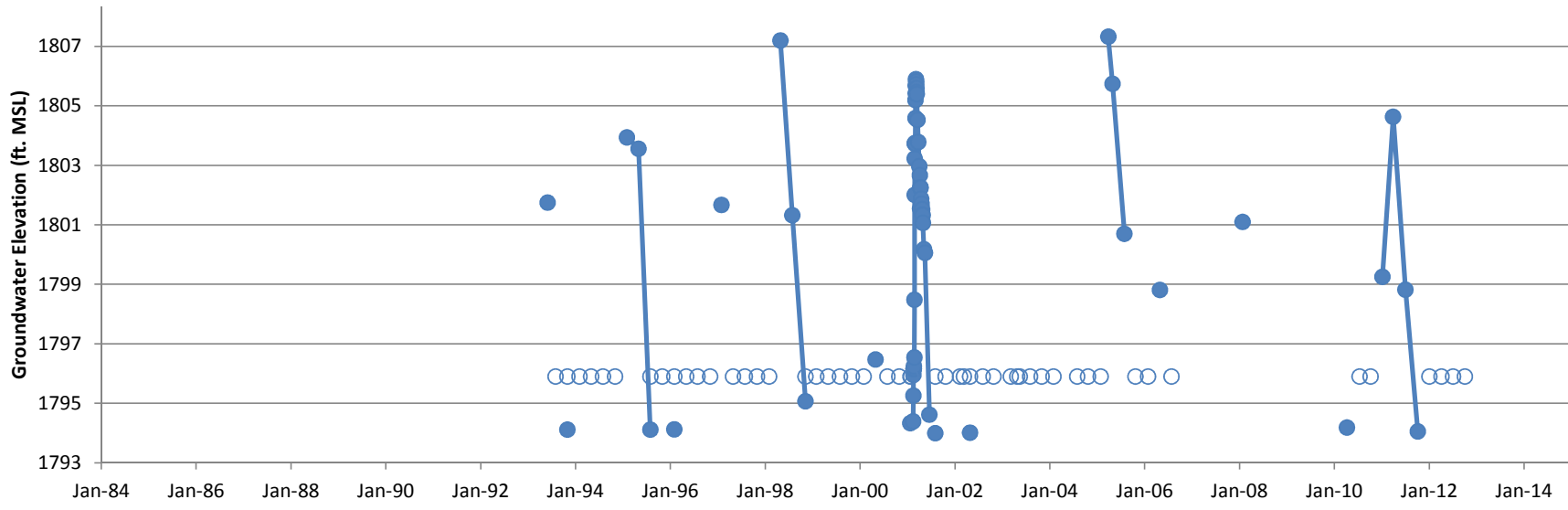
—●— Groundwater Elevation ○ Dry ▲ Pumping





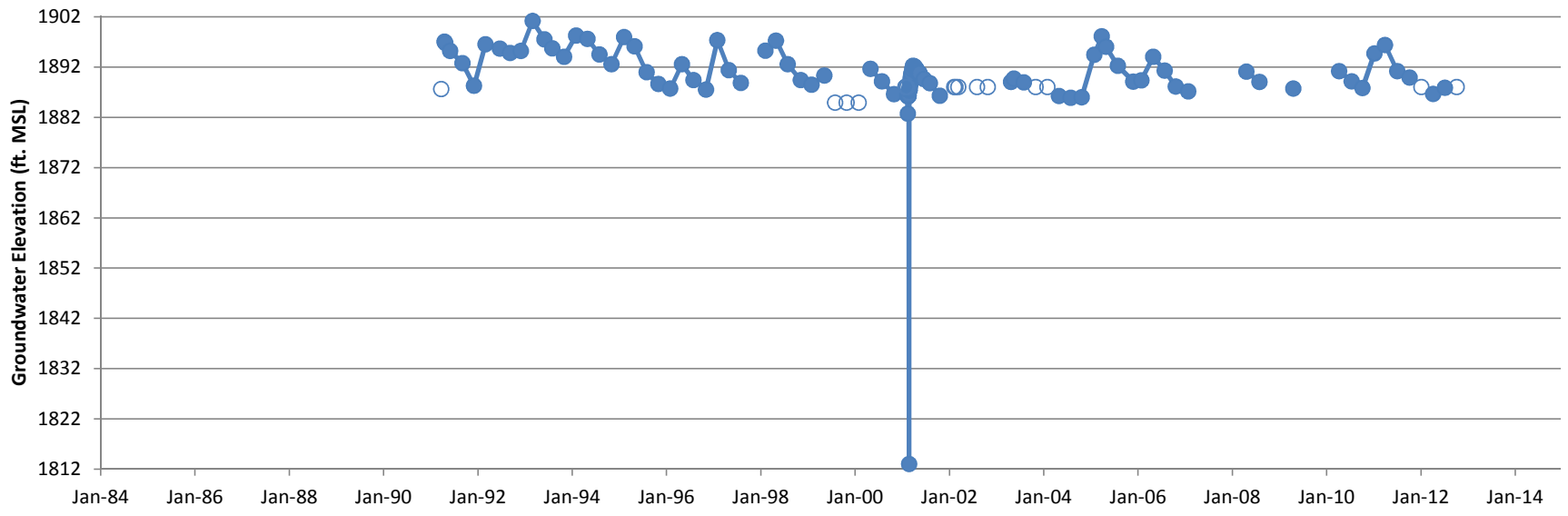
Hydrograph
Groundwater Monitoring Well RS-28

—●— Groundwater Elevation ○ Dry ▲ Pumping



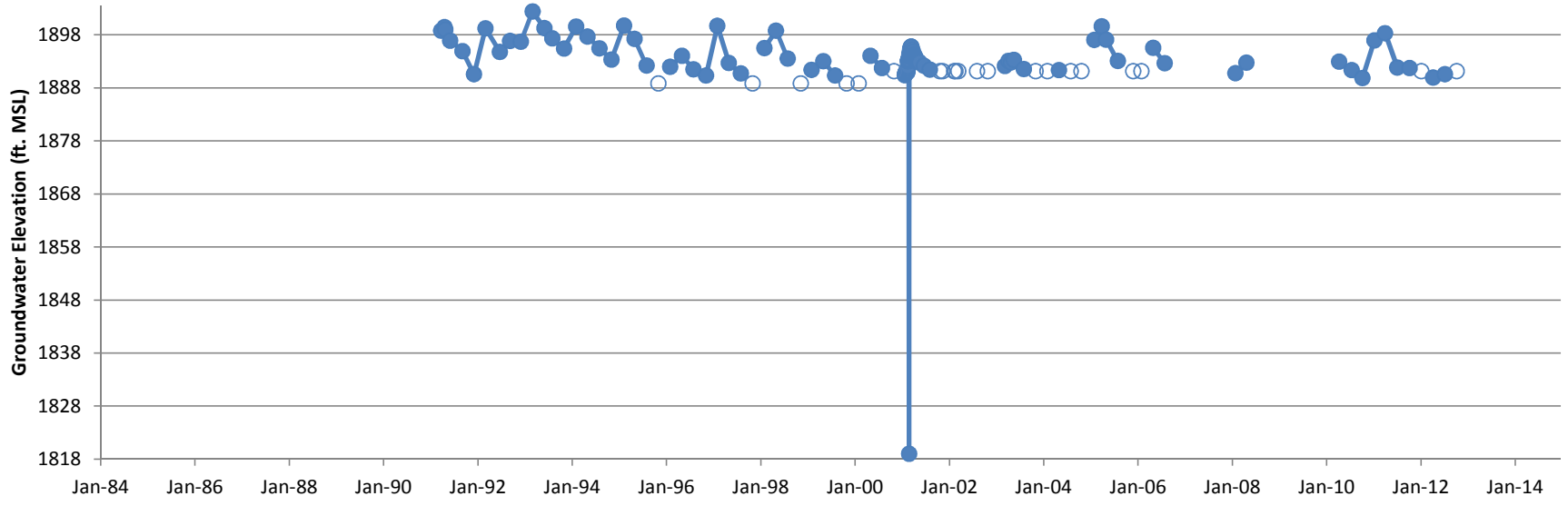
Hydrograph
Groundwater Monitoring Well RS-29

● Groundwater Elevation
 ○ Dry
 ▲ Pumping



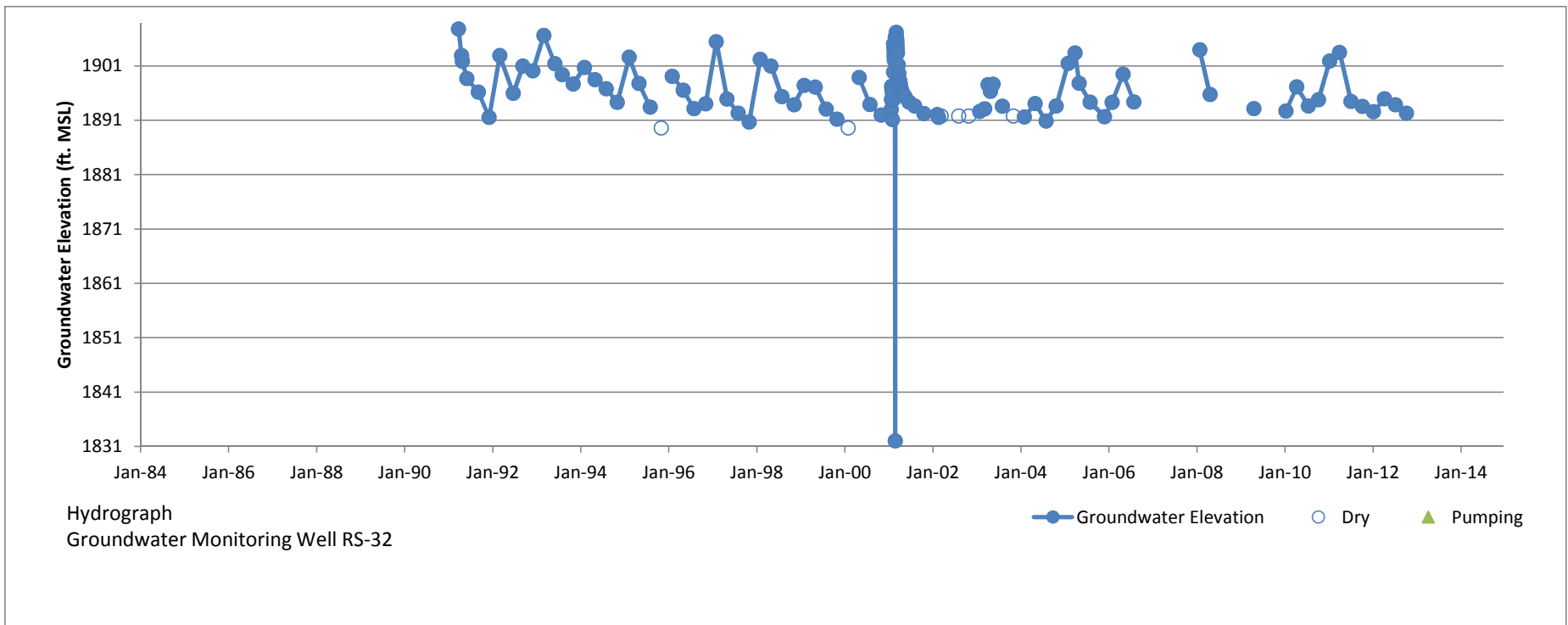
Hydrograph
Groundwater Monitoring Well RS-30

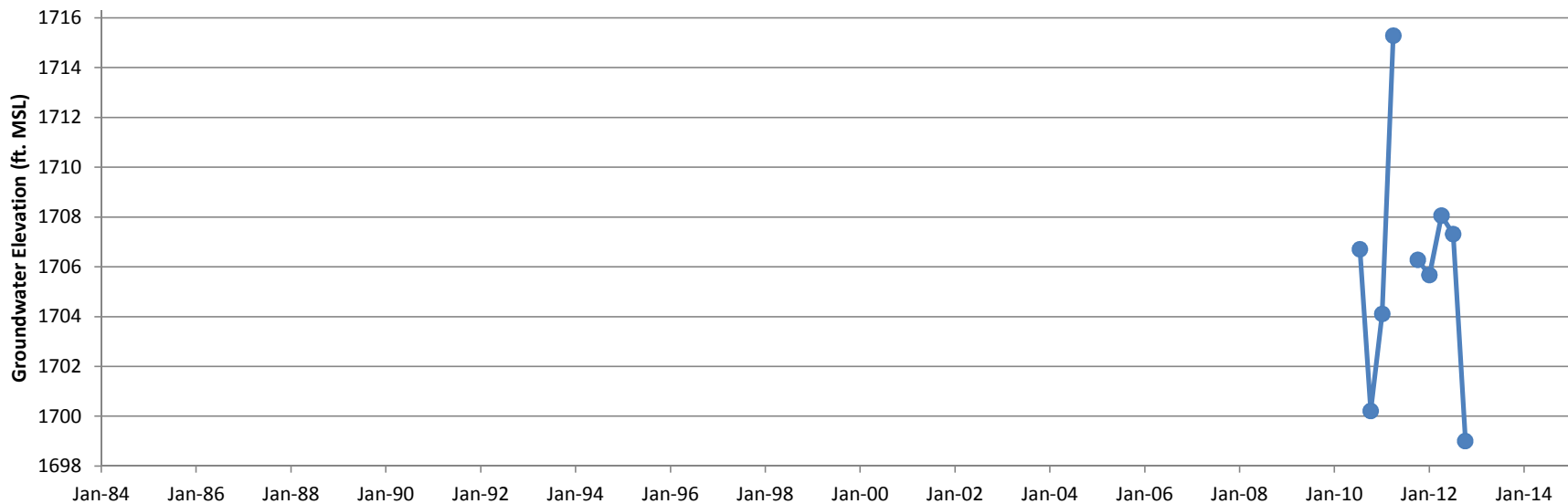
● Groundwater Elevation ○ Dry ▲ Pumping



Hydrograph
Groundwater Monitoring Well RS-31

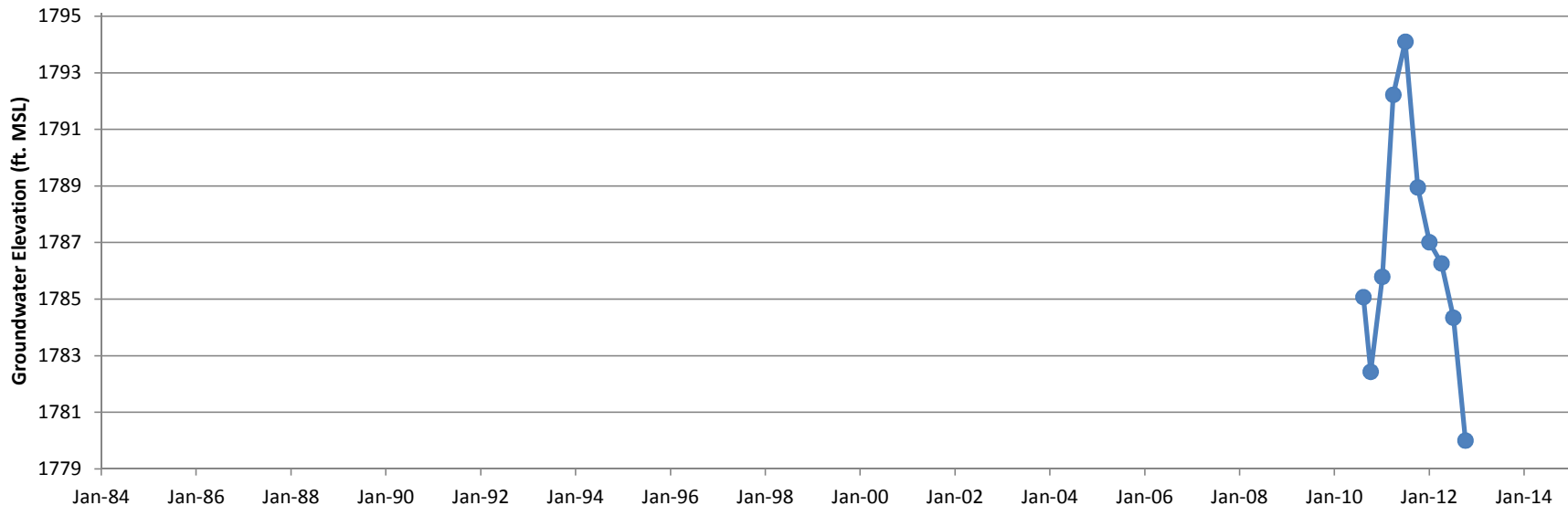
● Groundwater Elevation ○ Dry ▲ Pumping





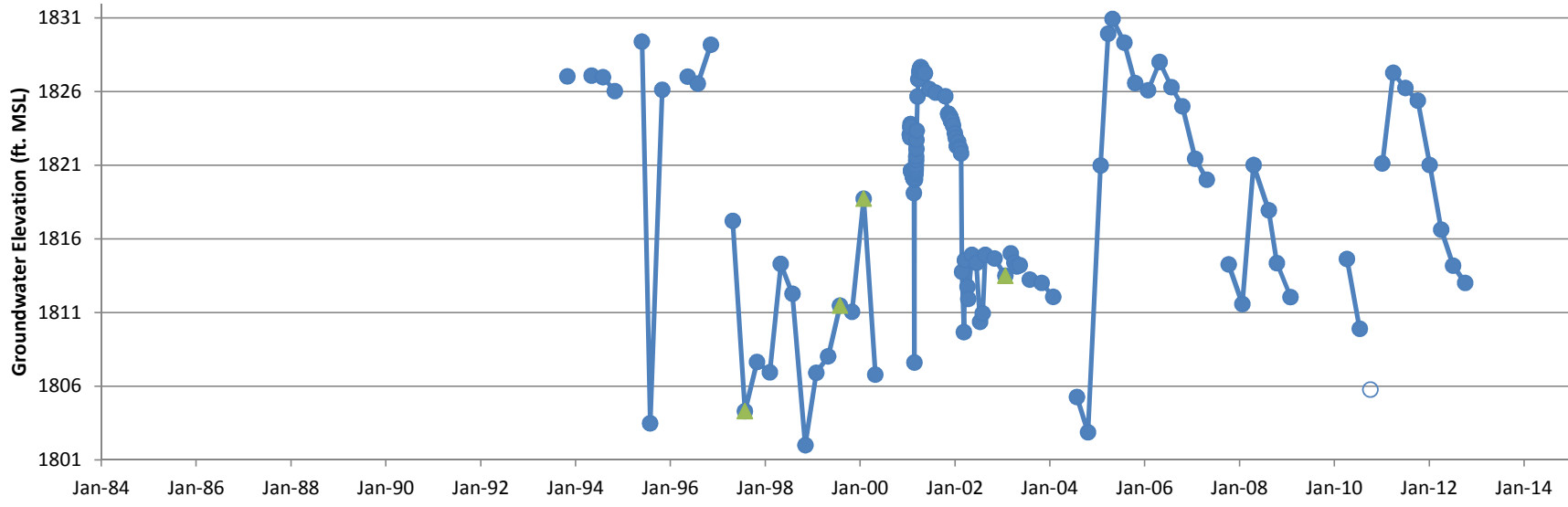
Hydrograph
Groundwater Monitoring Well RS-33

● Groundwater Elevation ○ Dry ▲ Pumping



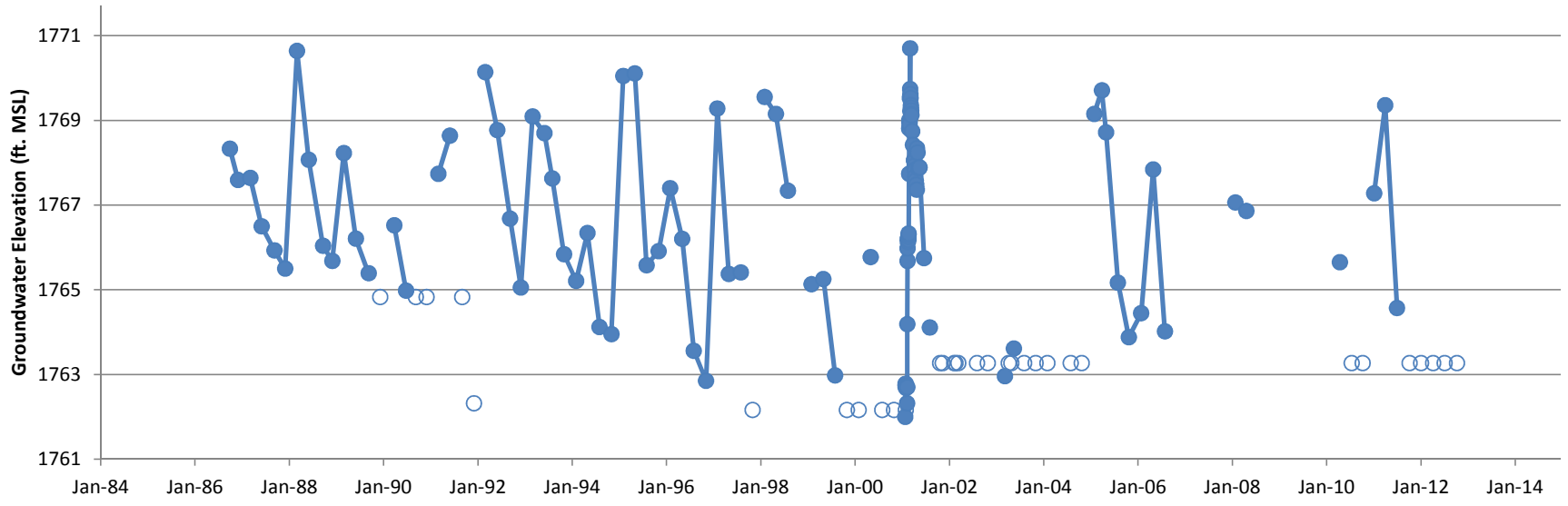
Hydrograph
Groundwater Monitoring Well RS-34

● Groundwater Elevation ○ Dry ▲ Pumping



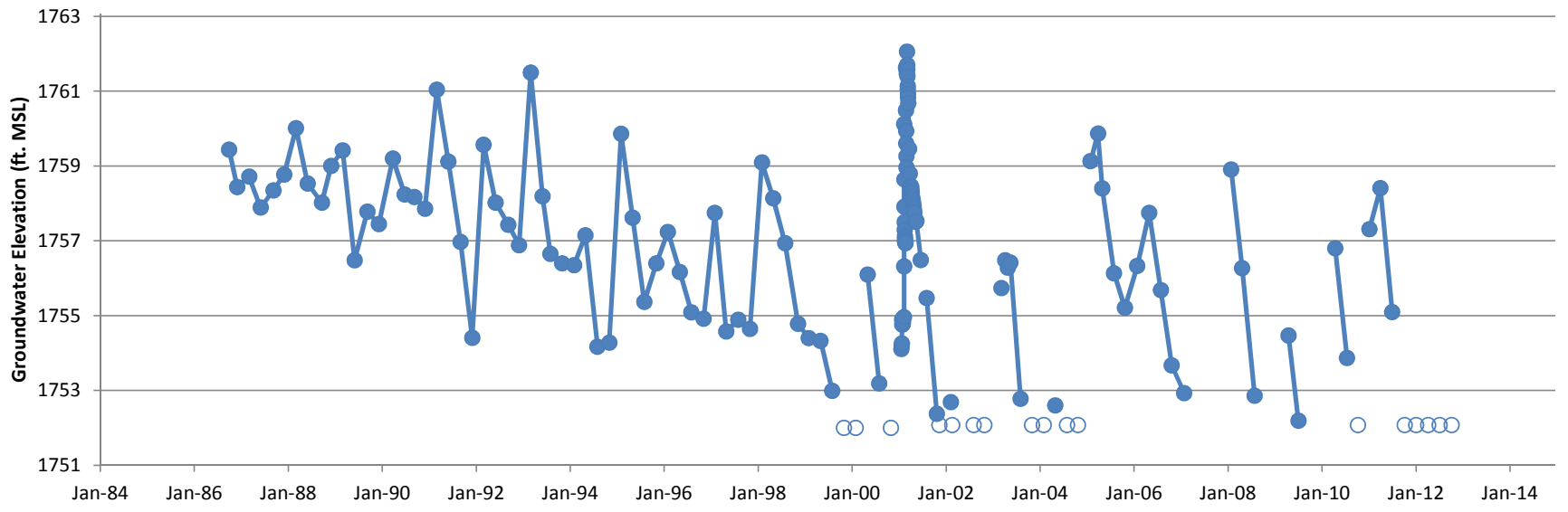
Hydrograph
Groundwater Monitoring Well RS-54

—●— Groundwater Elevation ○ Dry ▲ Pumping



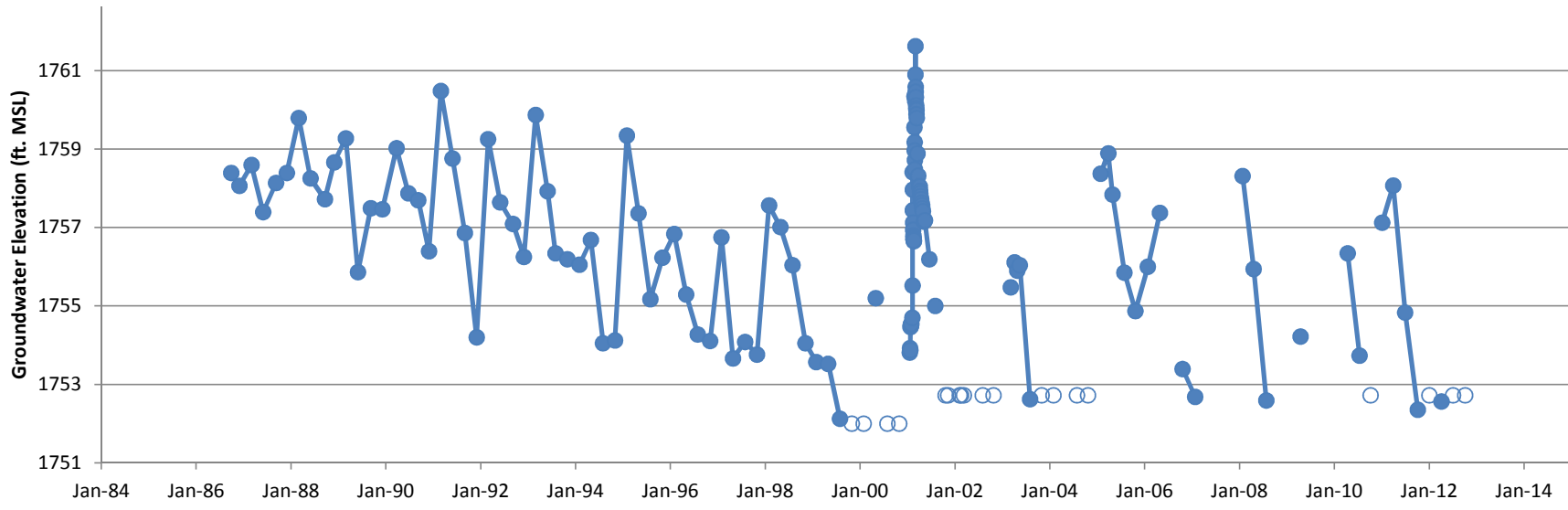
Hydrograph
Groundwater Monitoring Well SH-01

● Groundwater Elevation
 Dry
 ▲ Pumping



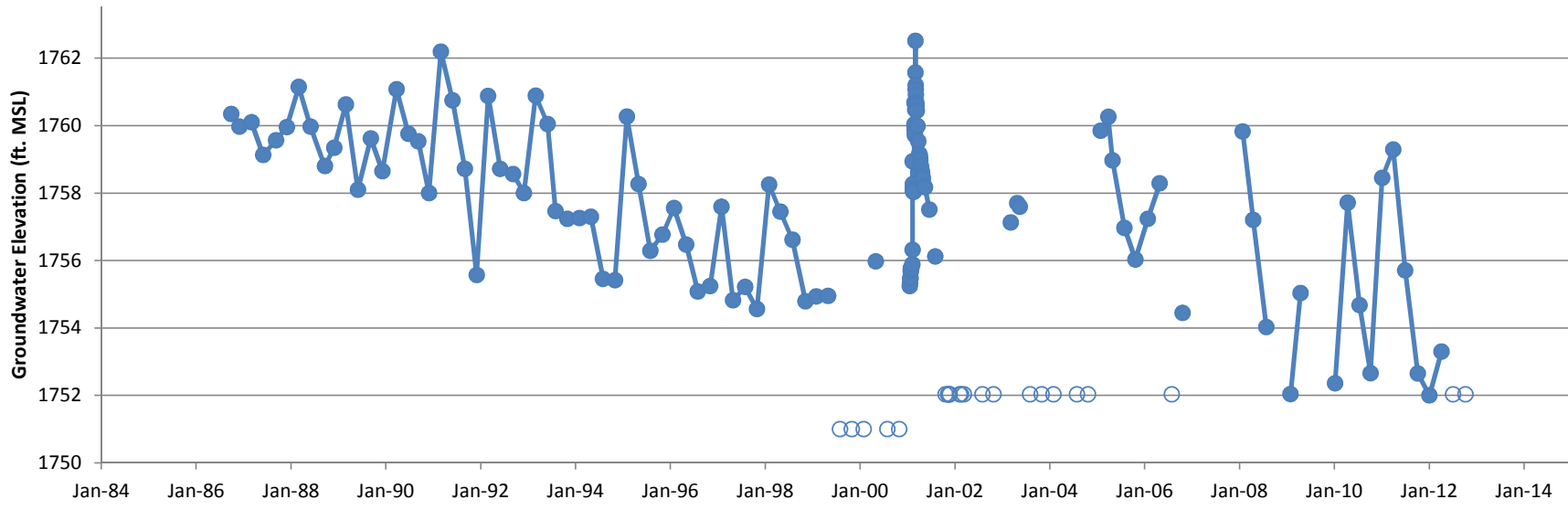
Hydrograph
Groundwater Monitoring Well SH-02

● Groundwater Elevation
 ○ Dry
 ▲ Pumping



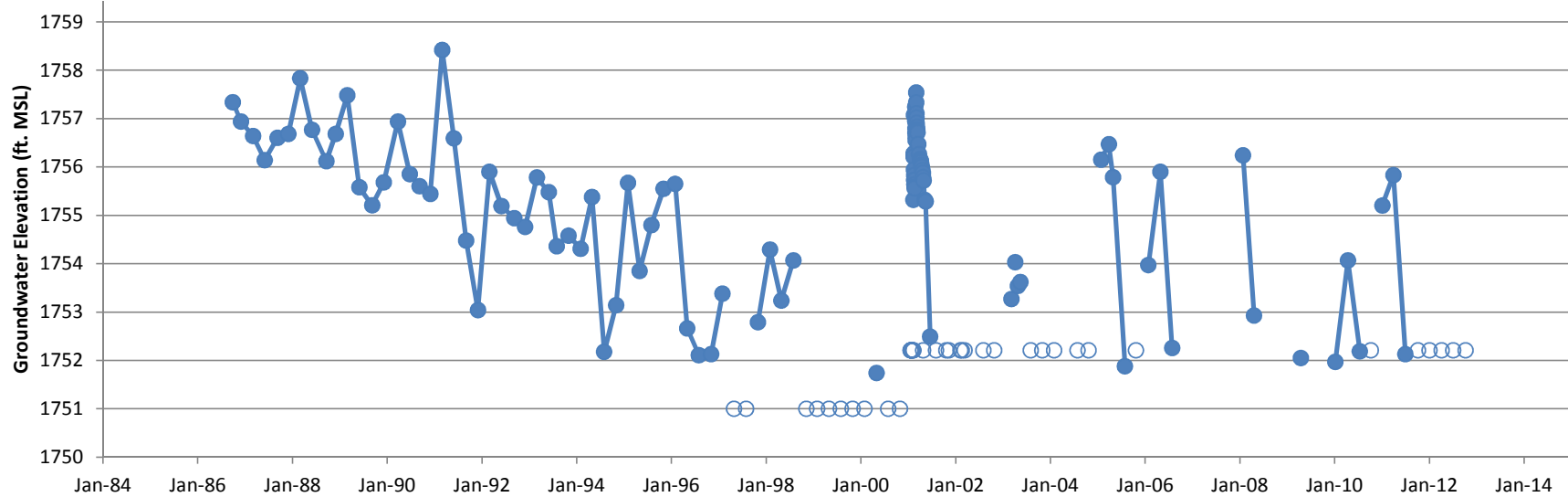
Hydrograph
Groundwater Monitoring Well SH-03

● Groundwater Elevation
 ○ Dry
 ▲ Pumping



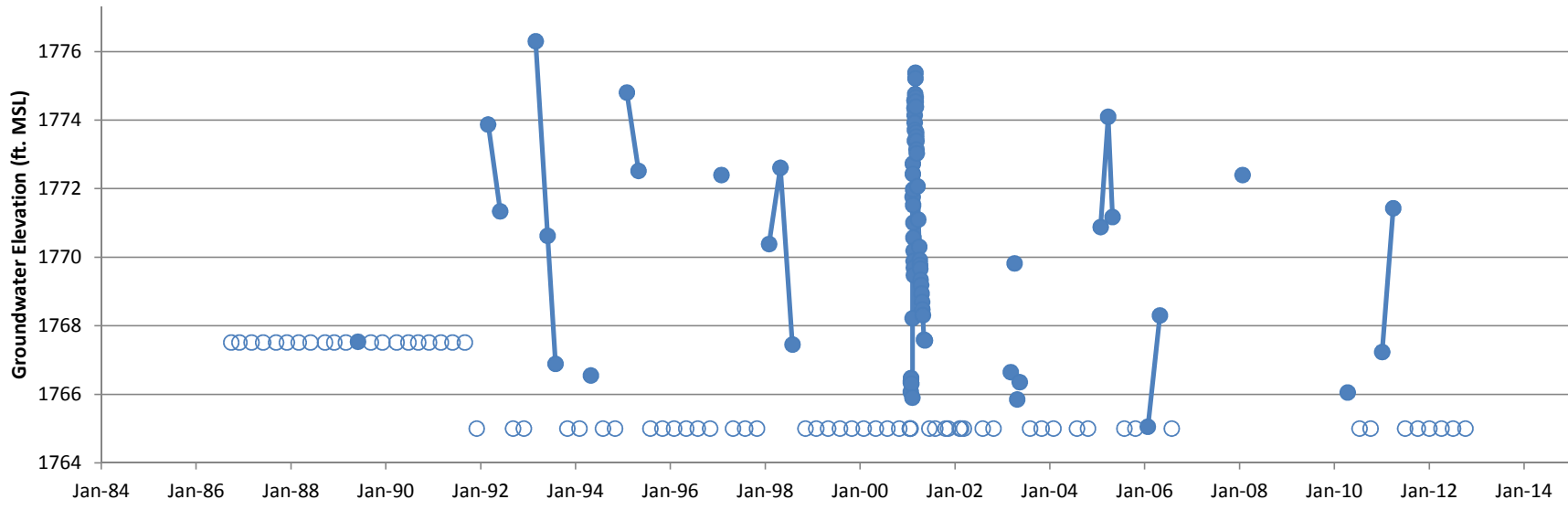
Hydrograph
Groundwater Monitoring Well SH-04

—●— Groundwater Elevation ○ Dry ▲ Pumping



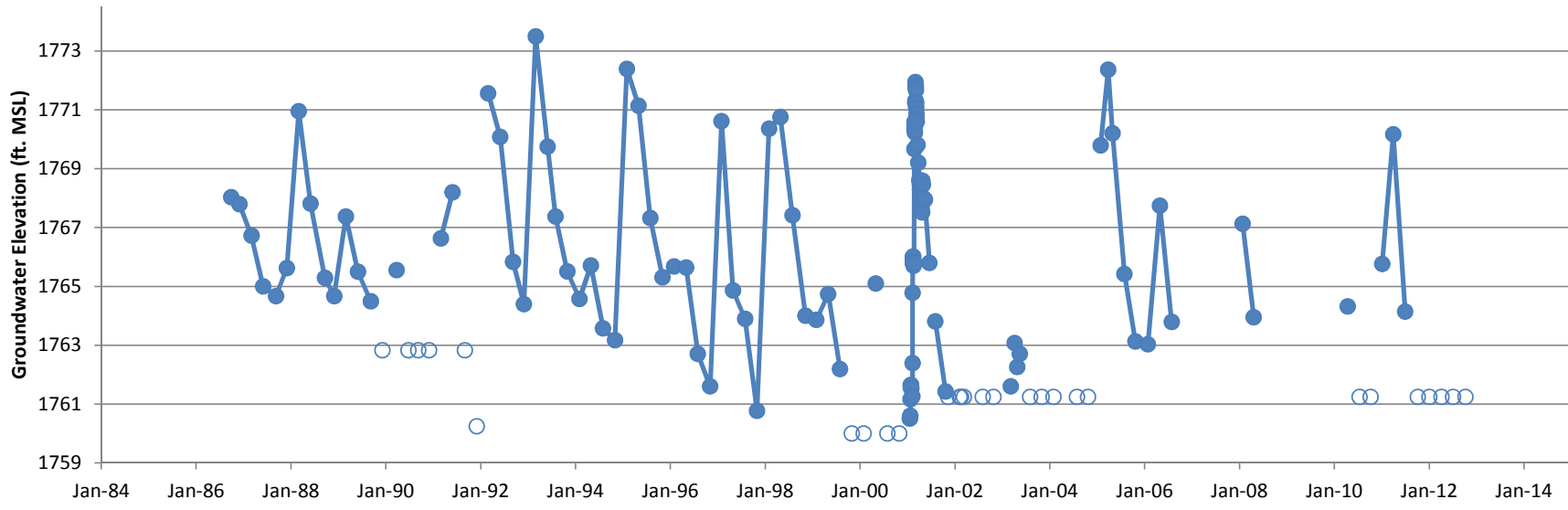
Hydrograph
Groundwater Monitoring Well SH-05

—●— Groundwater Elevation ○ Dry ▲ Pumping



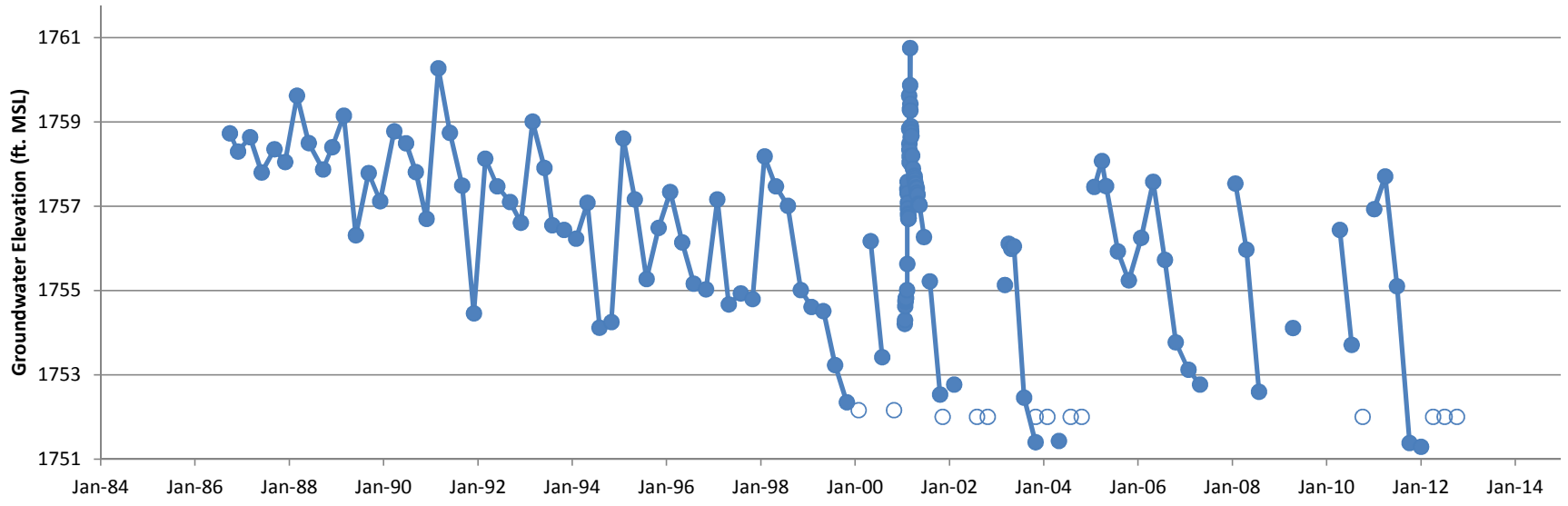
Hydrograph
Groundwater Monitoring Well SH-06

—●— Groundwater Elevation ○ Dry ▲ Pumping



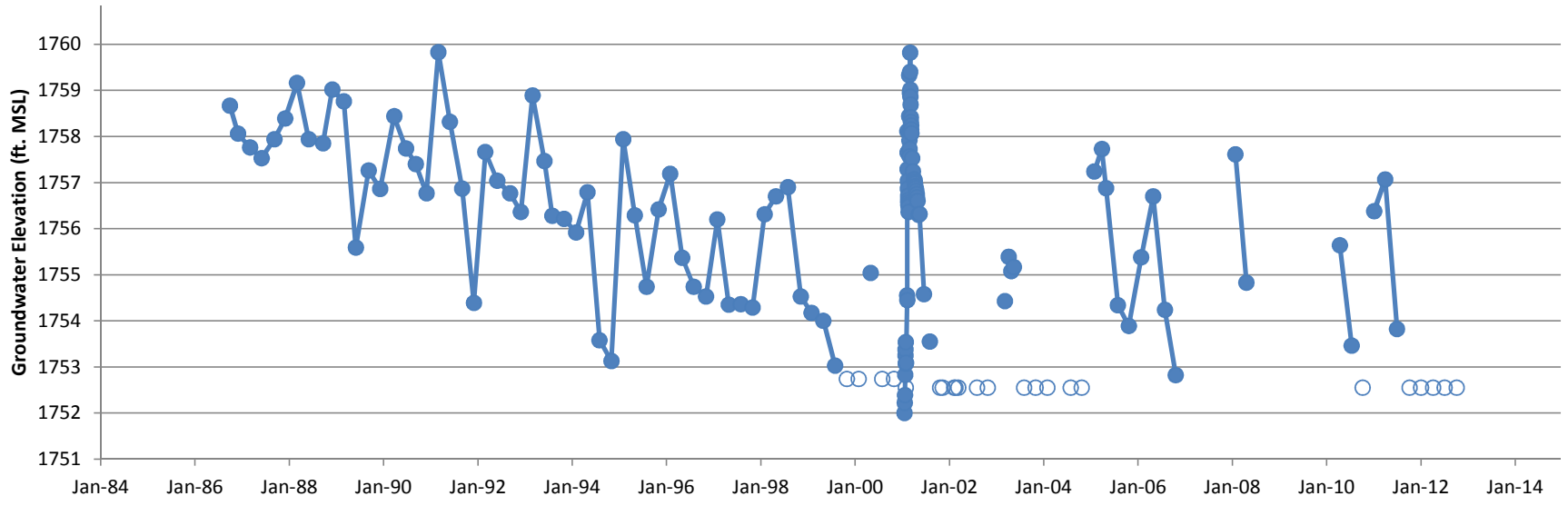
Hydrograph
Groundwater Monitoring Well SH-07

● Groundwater Elevation
 ○ Dry
 ▲ Pumping



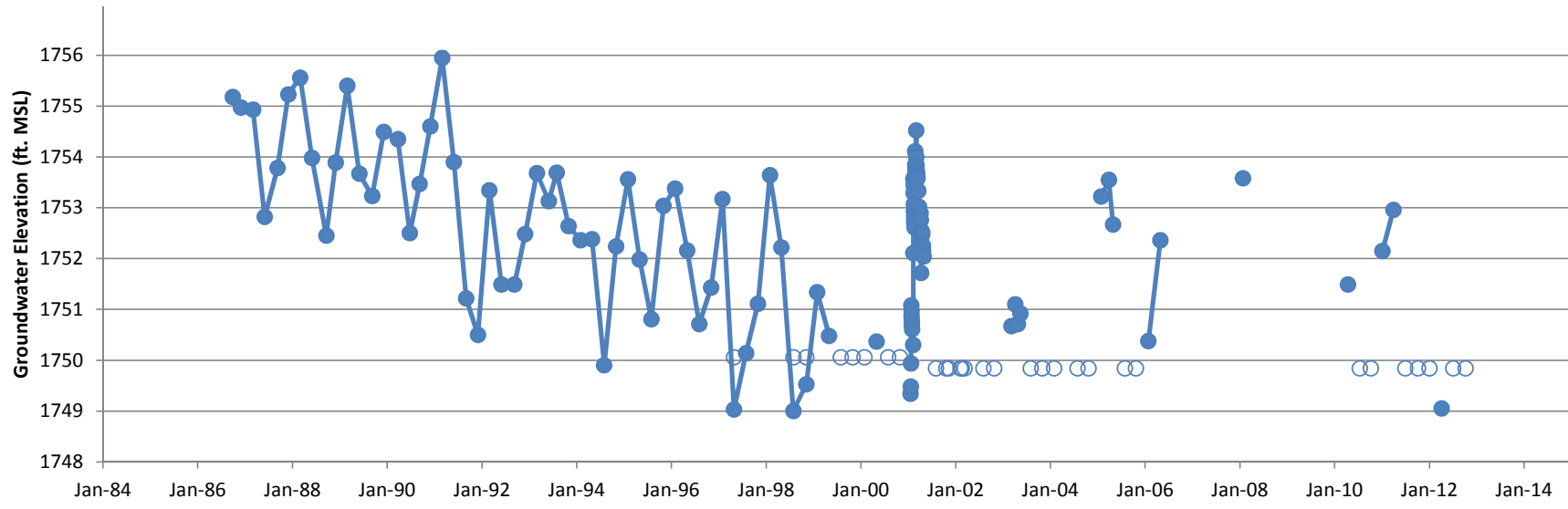
Hydrograph
Groundwater Monitoring Well SH-08

—●— Groundwater Elevation
 ○ Dry
 ▲ Pumping



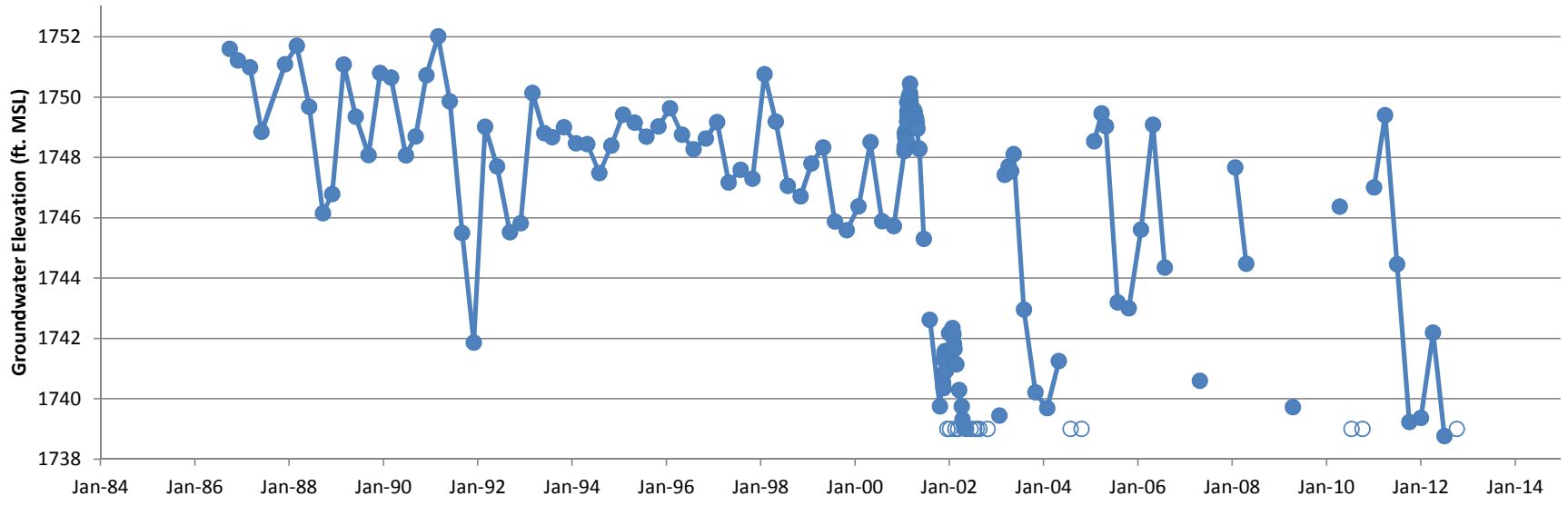
Hydrograph
Groundwater Monitoring Well SH-09

—●— Groundwater Elevation
 ○ Dry
 ▲ Pumping



Hydrograph
Groundwater Monitoring Well SH-10

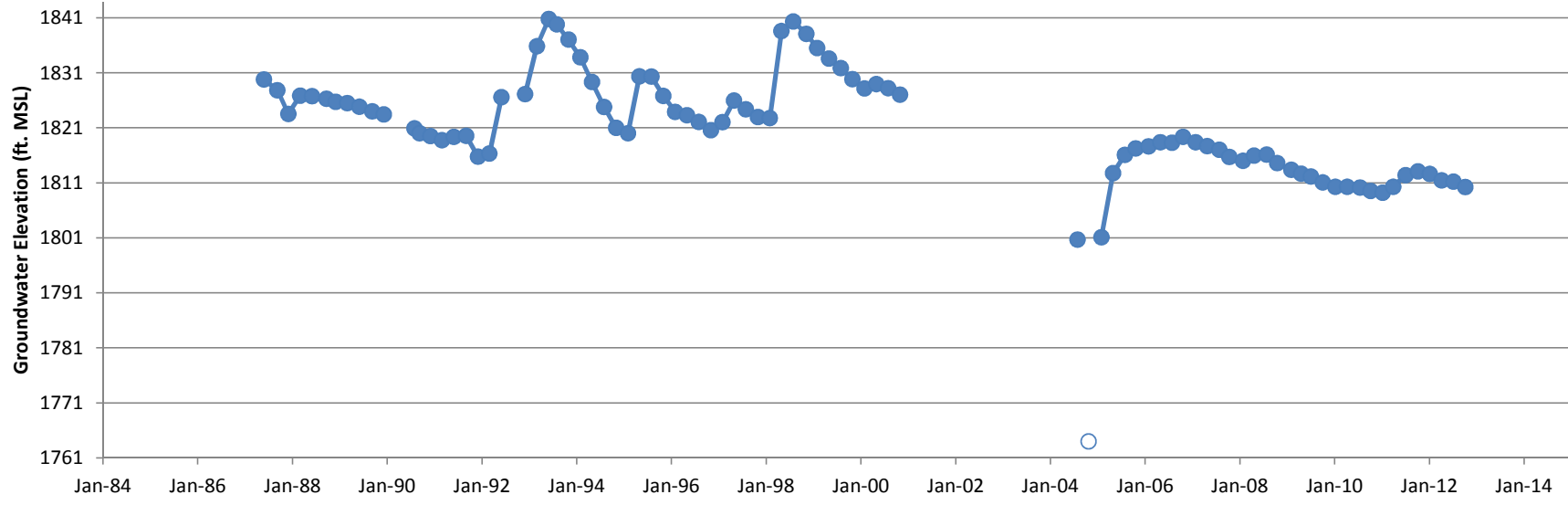
- Groundwater Elevation
- Dry
- ▲ Pumping



Hydrograph
Groundwater Monitoring Well SH-11

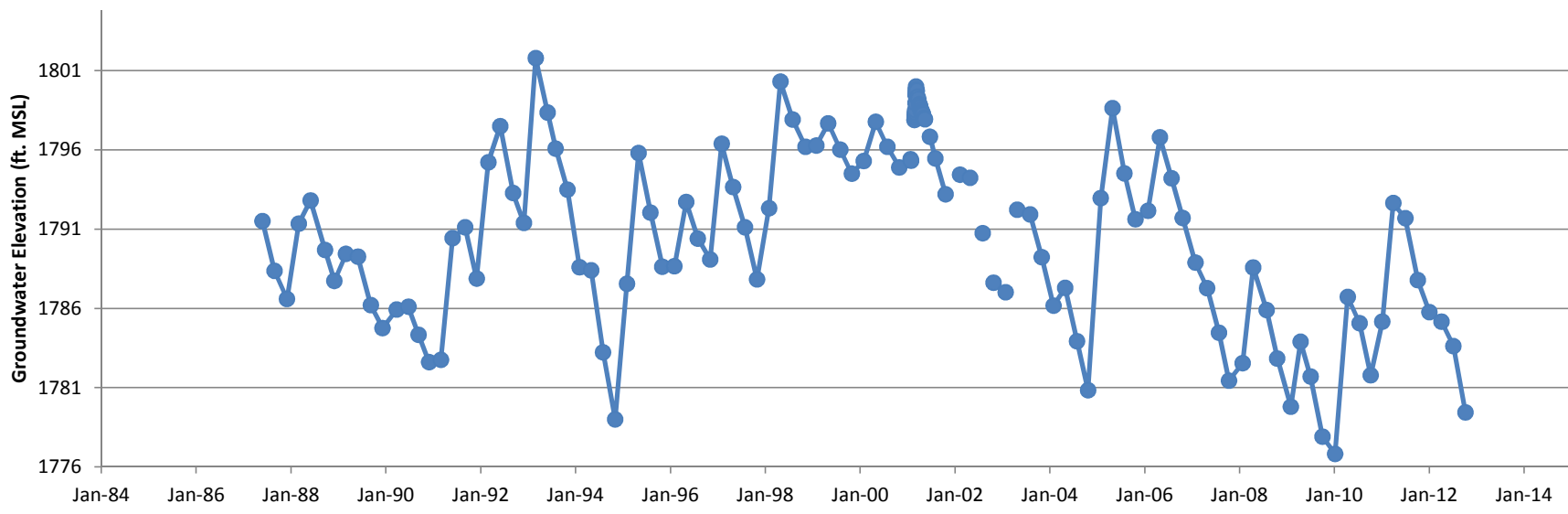
● Groundwater Elevation ○ Dry ▲ Pumping

CHATSWORTH FORMATION WELLS



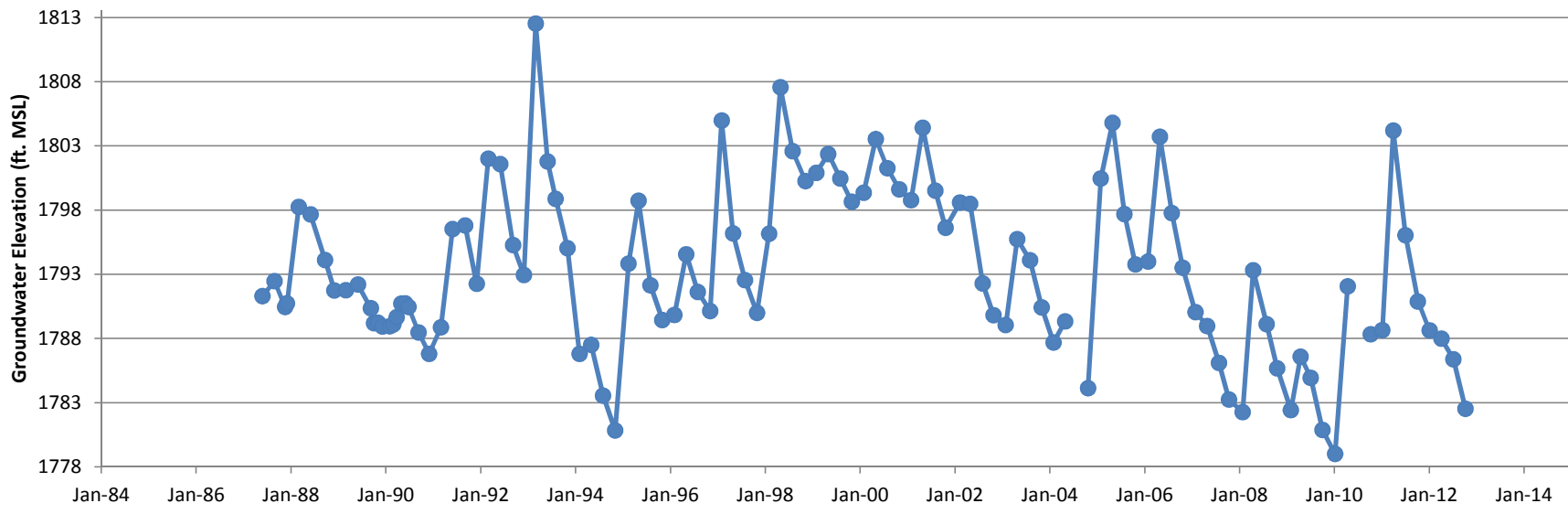
Hydrograph
Groundwater Monitoring Well HAR-01
FLUTE installed in well 03/08/01 through 07/26/04.

—●— Groundwater Elevation ○ Dry ▲ Pumping



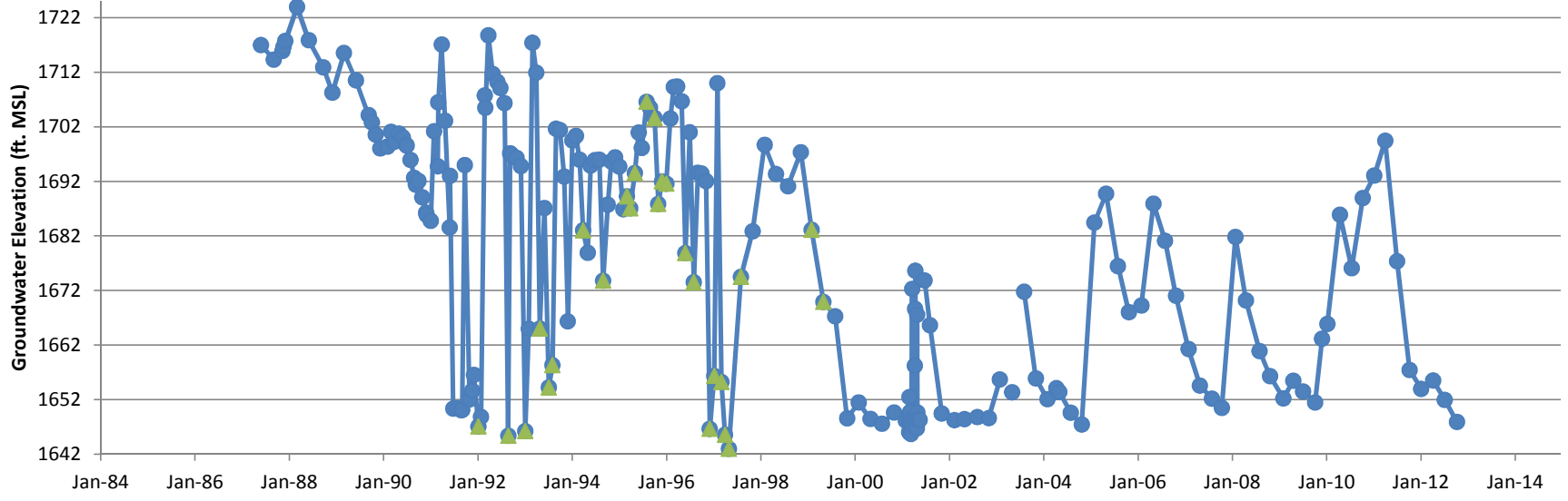
Hydrograph
Groundwater Monitoring Well HAR-05

● Groundwater Elevation ○ Dry ▲ Pumping



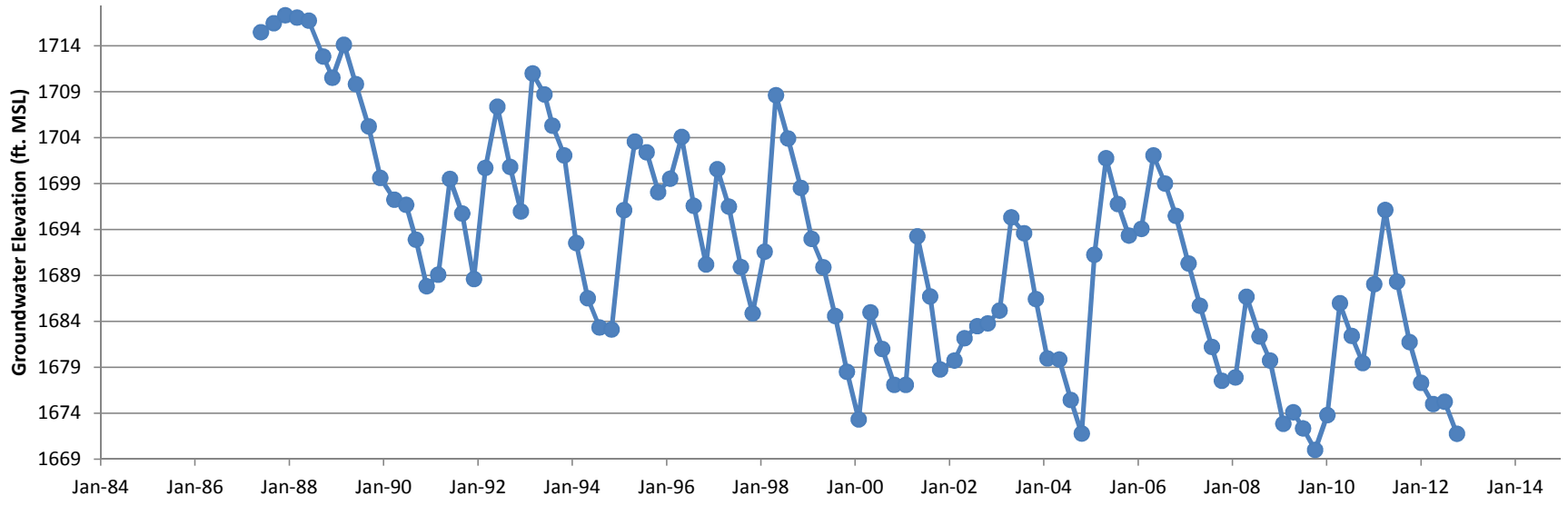
Hydrograph
Groundwater Monitoring Well HAR-06

● Groundwater Elevation
 ○ Dry
 ▲ Pumping



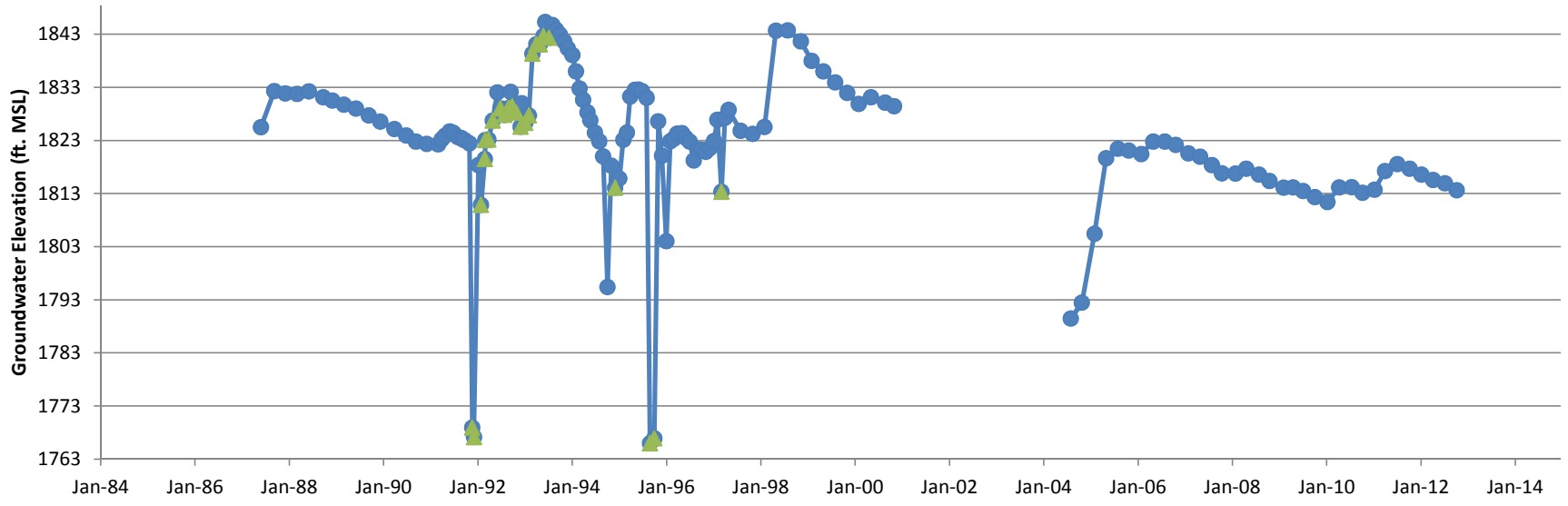
Hydrograph
Groundwater Extraction Well HAR-07

—●— Groundwater Elevation ○ Dry ▲ Pumping



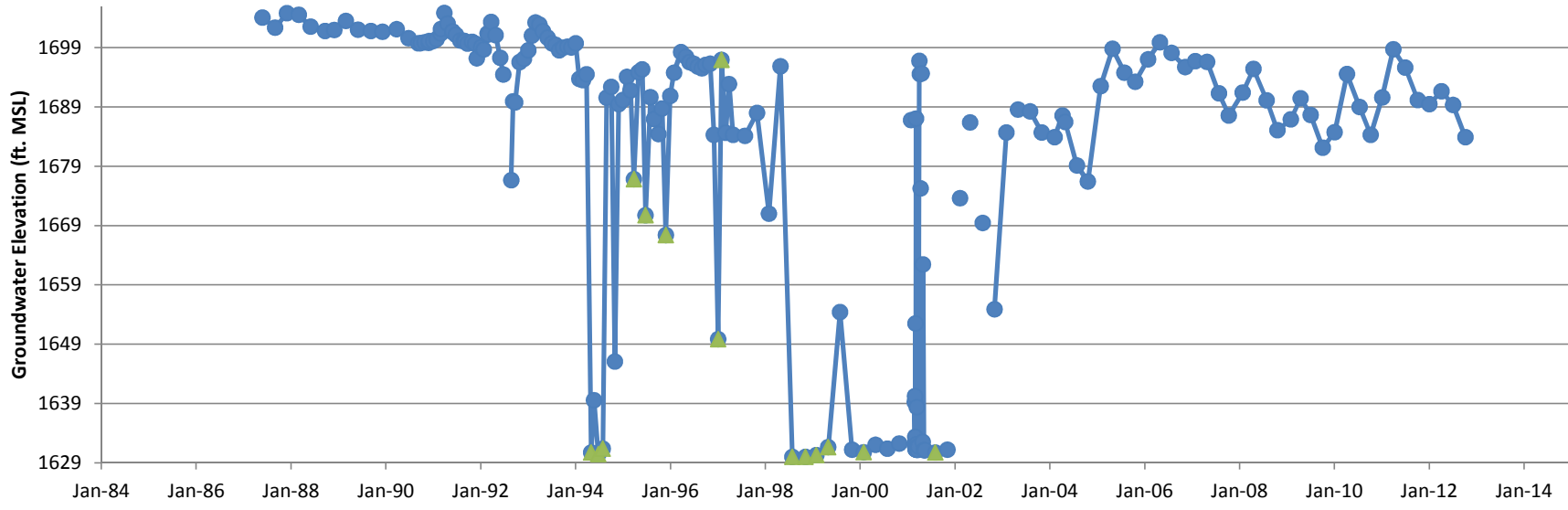
Hydrograph
Groundwater Monitoring Well HAR-08

● Groundwater Elevation ○ Dry ▲ Pumping



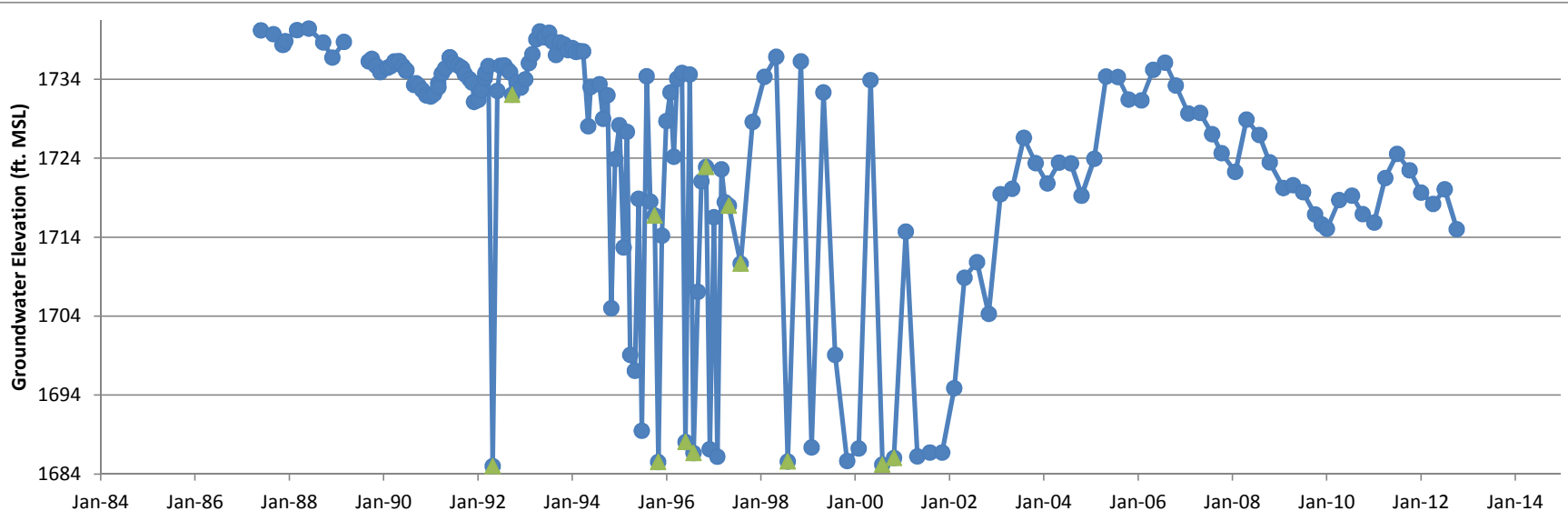
Hydrograph
 Groundwater Extraction Well HAR-16
 FLUTE installed in well on 06/19/01 through 07/26/04.

● Groundwater Elevation
 ○ Dry
 ▲ Pumping



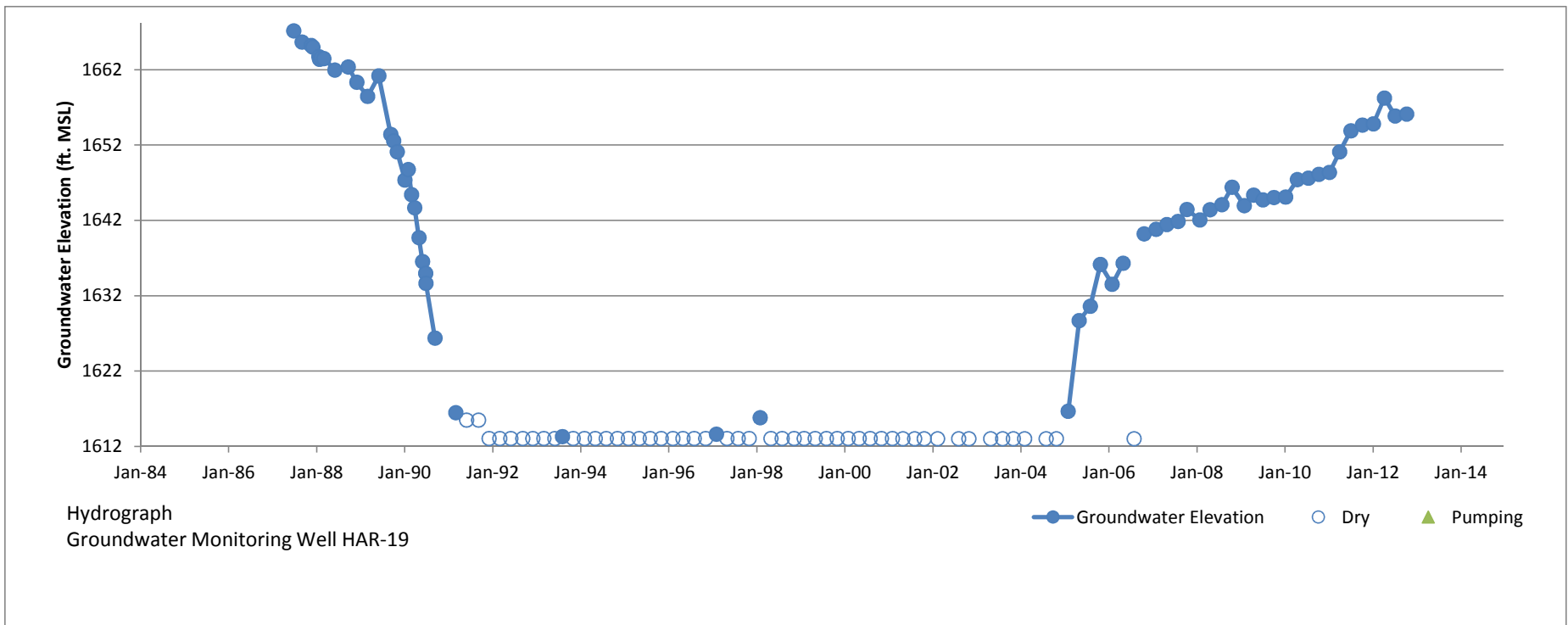
Hydrograph
Groundwater Extraction Well HAR-17

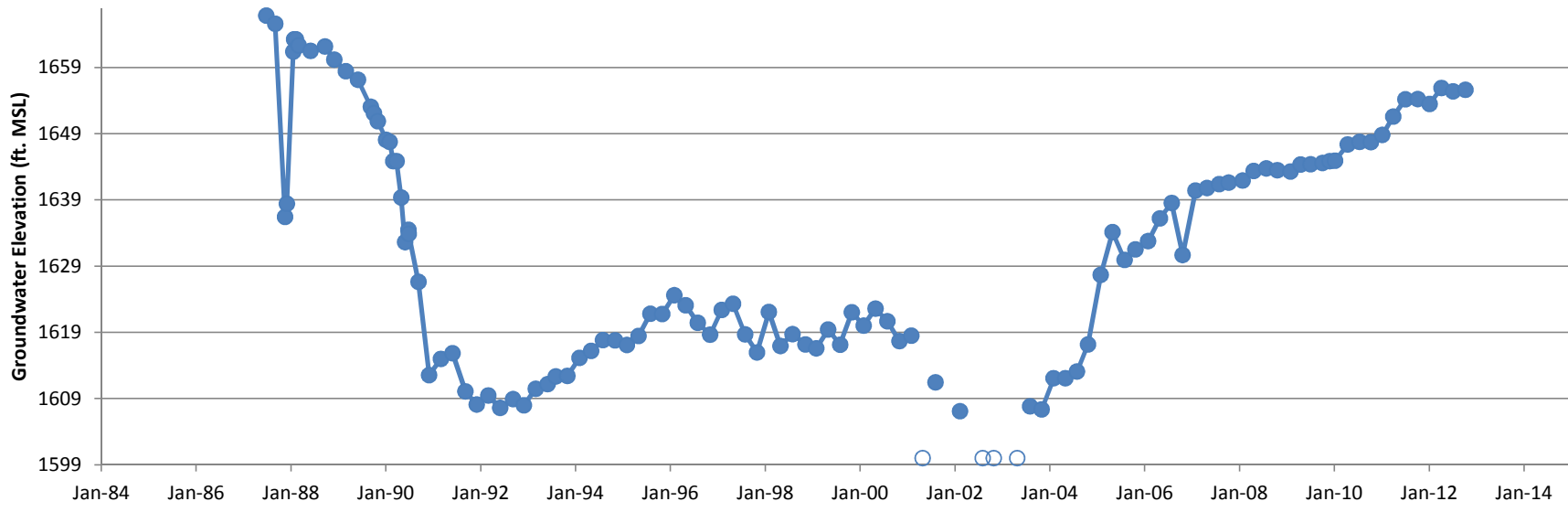
—●— Groundwater Elevation ○ Dry ▲ Pumping



Hydrograph
Groundwater Extraction Well HAR-18

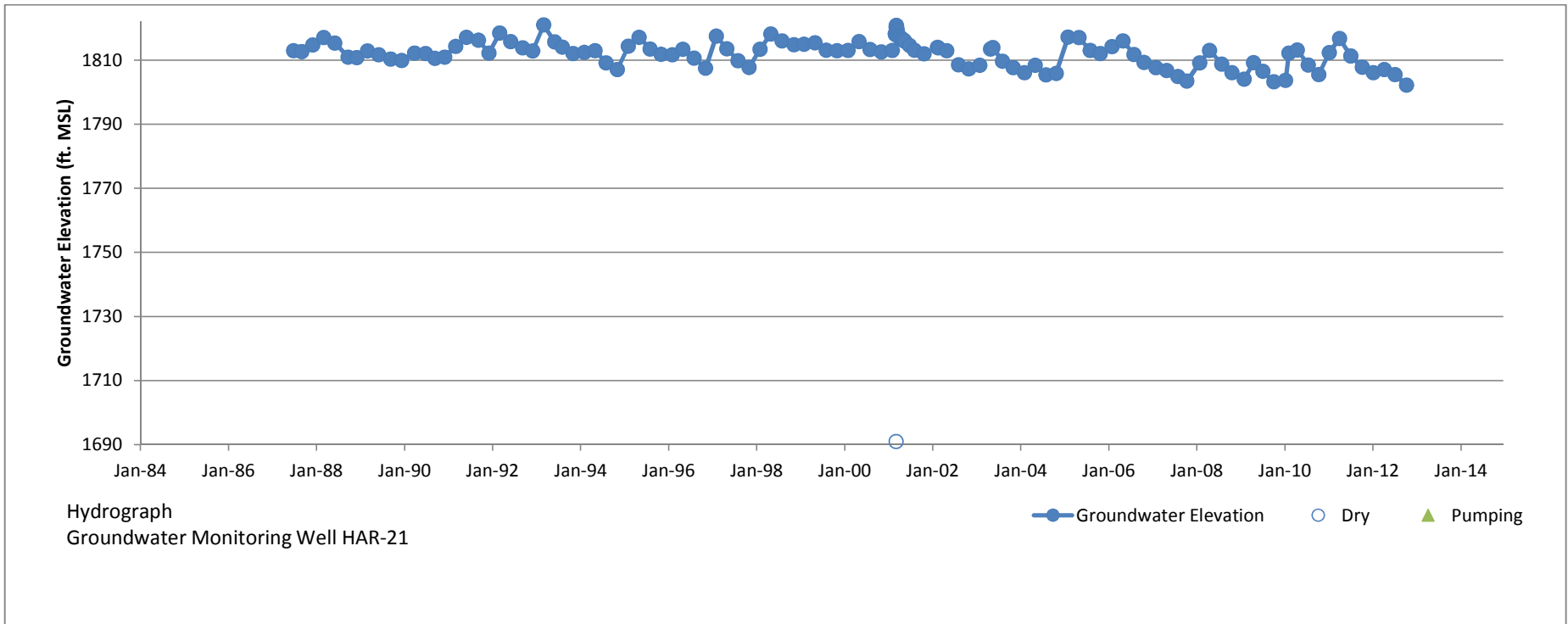
● Groundwater Elevation ○ Dry ▲ Pumping

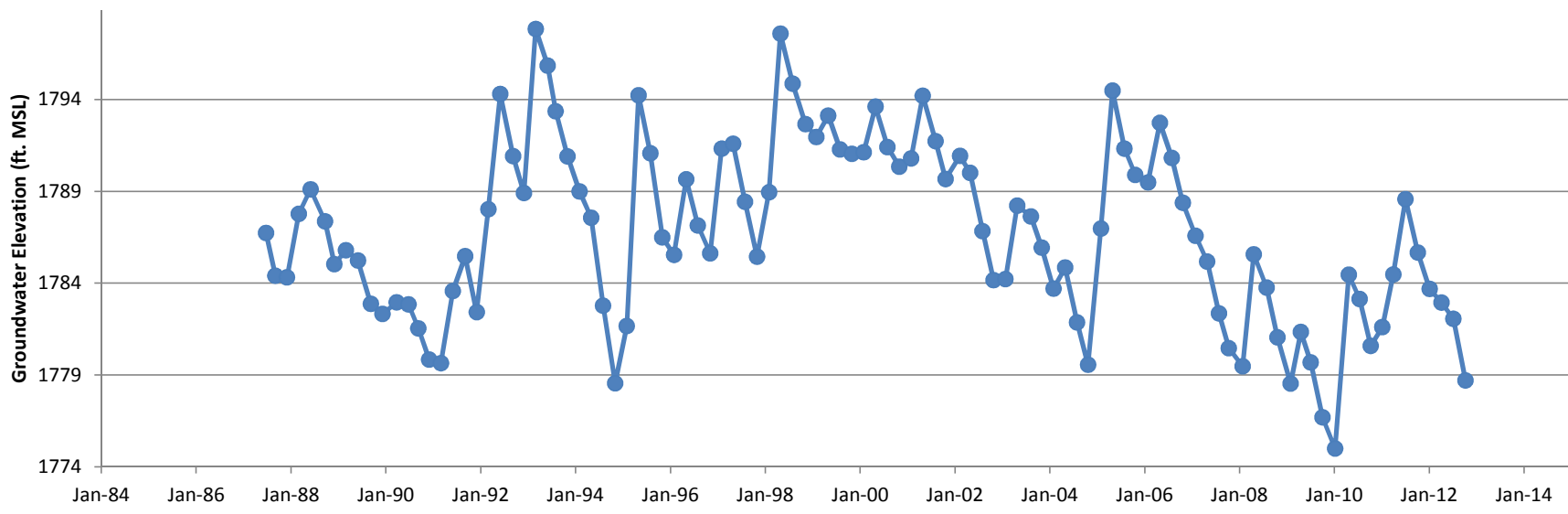




Hydrograph
Groundwater Monitoring Well HAR-20

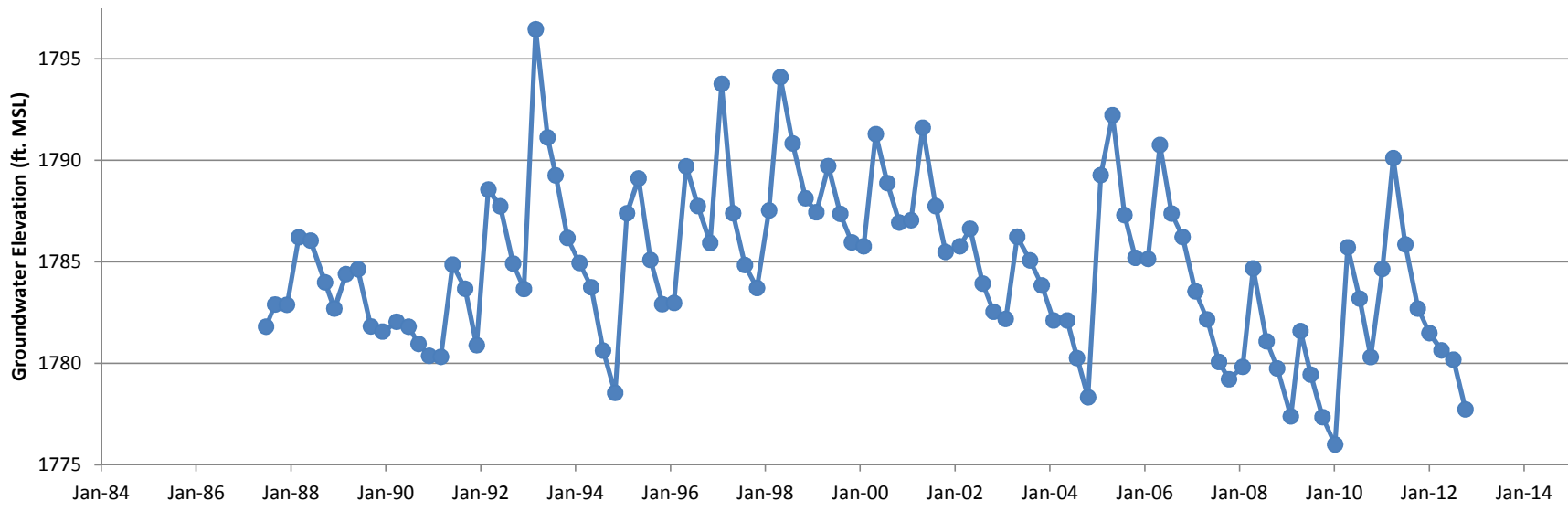
—●— Groundwater Elevation ○ Dry ▲ Pumping





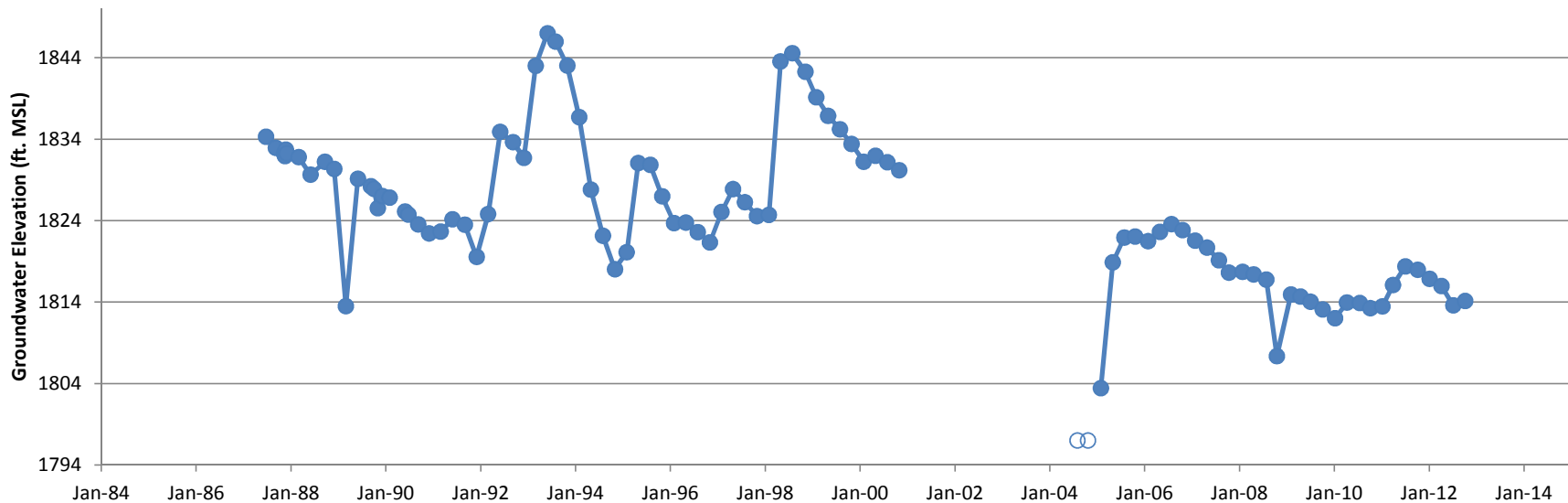
Hydrograph
Groundwater Monitoring Well HAR-22

● Groundwater Elevation
 ○ Dry
 ▲ Pumping



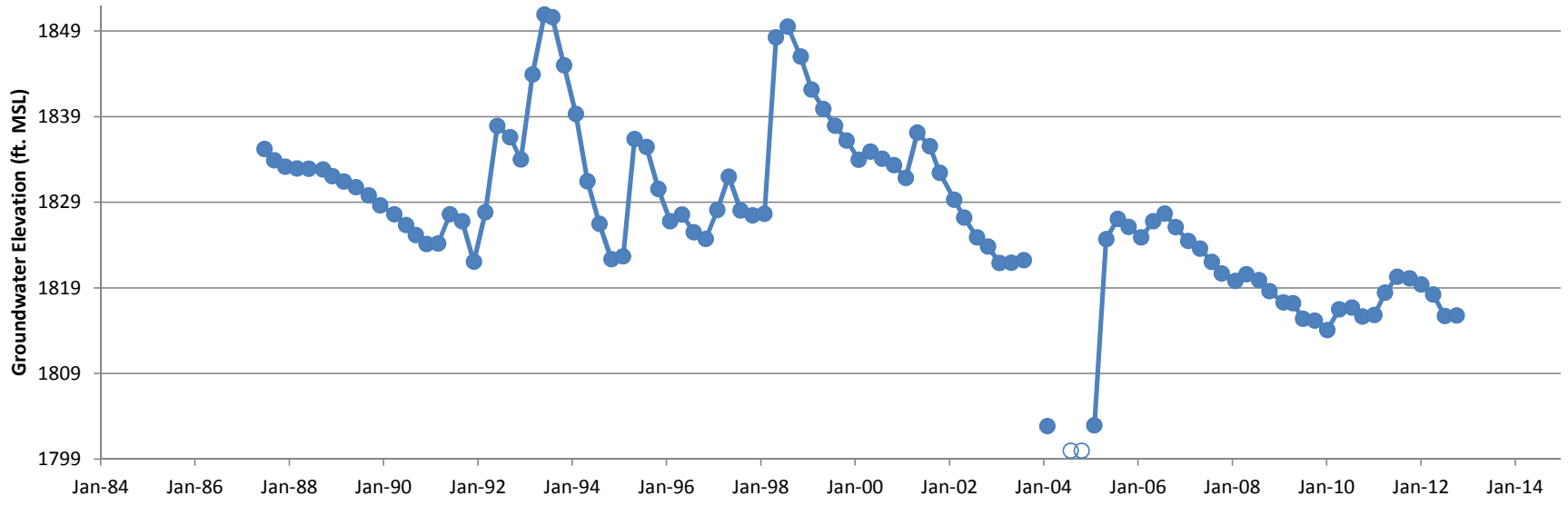
Hydrograph
Groundwater Monitoring Well HAR-23

● Groundwater Elevation ○ Dry ▲ Pumping



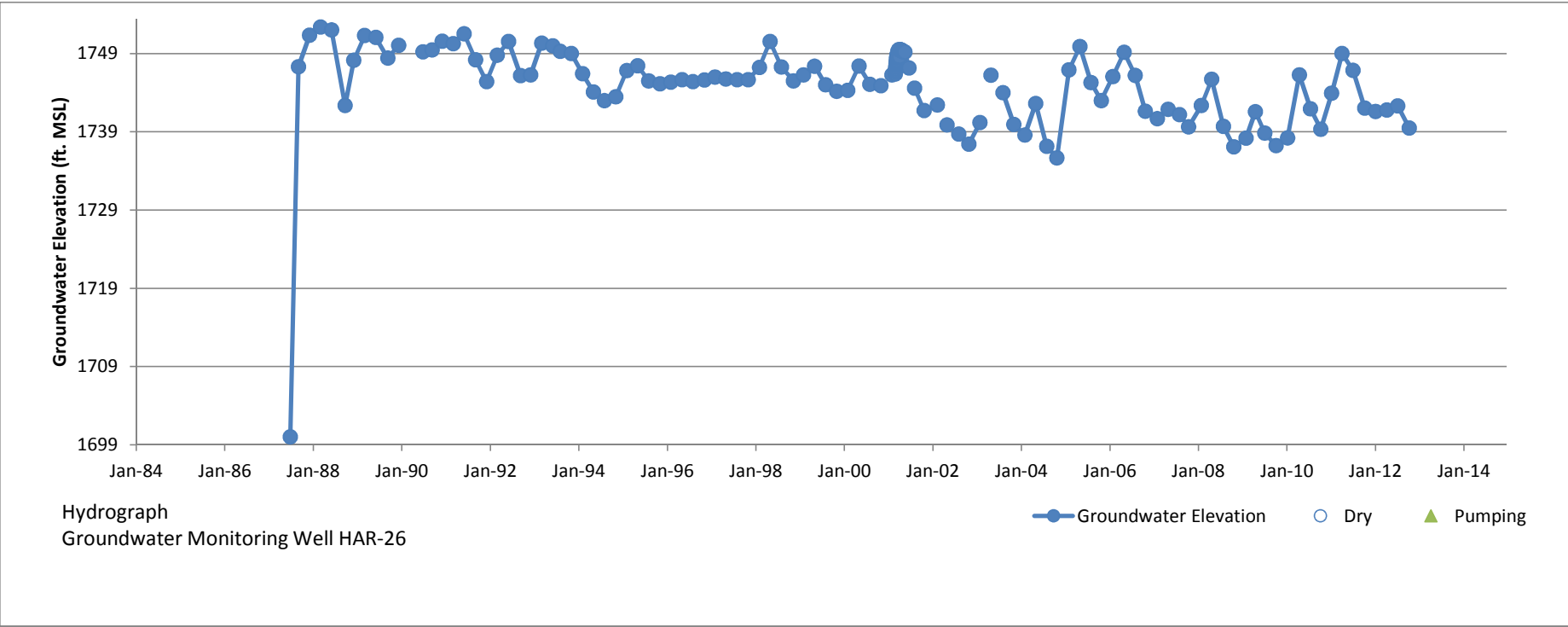
Hydrograph
 Groundwater Monitoring Well HAR-24
 FLUTE installed in well 04/06/01 through 07/26/04.

● Groundwater Elevation
 ○ Dry
 ▲ Pumping



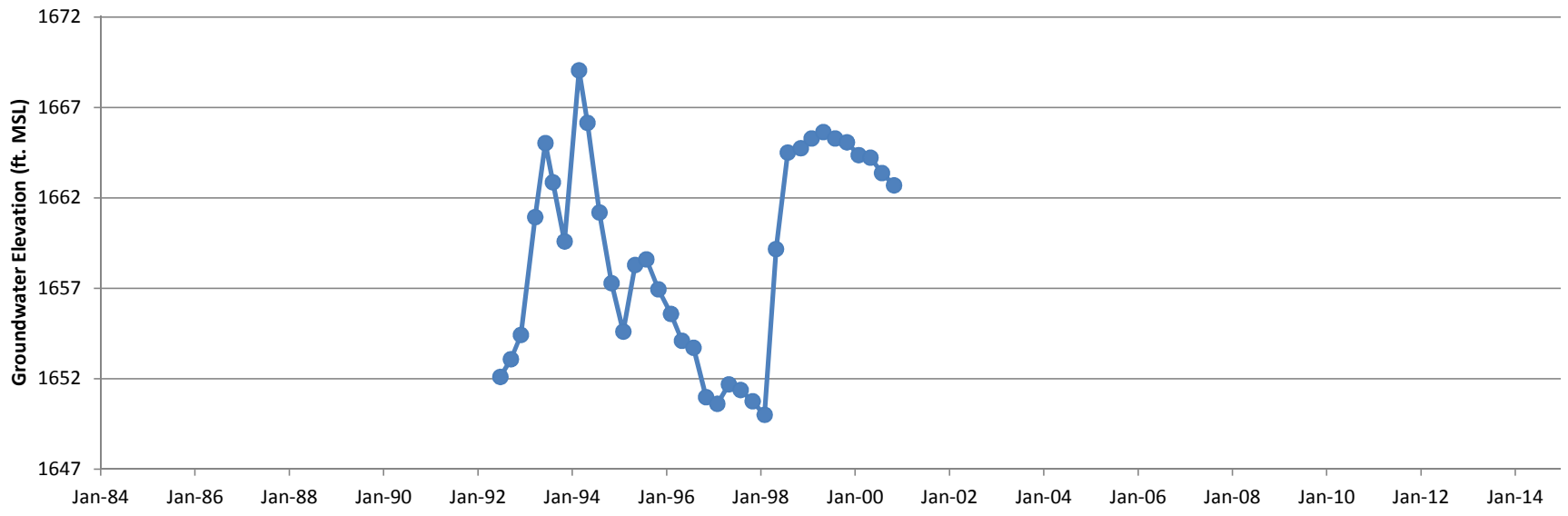
Hydrograph
Groundwater Monitoring Well HAR-25

● Groundwater Elevation
 ○ Dry
 ▲ Pumping



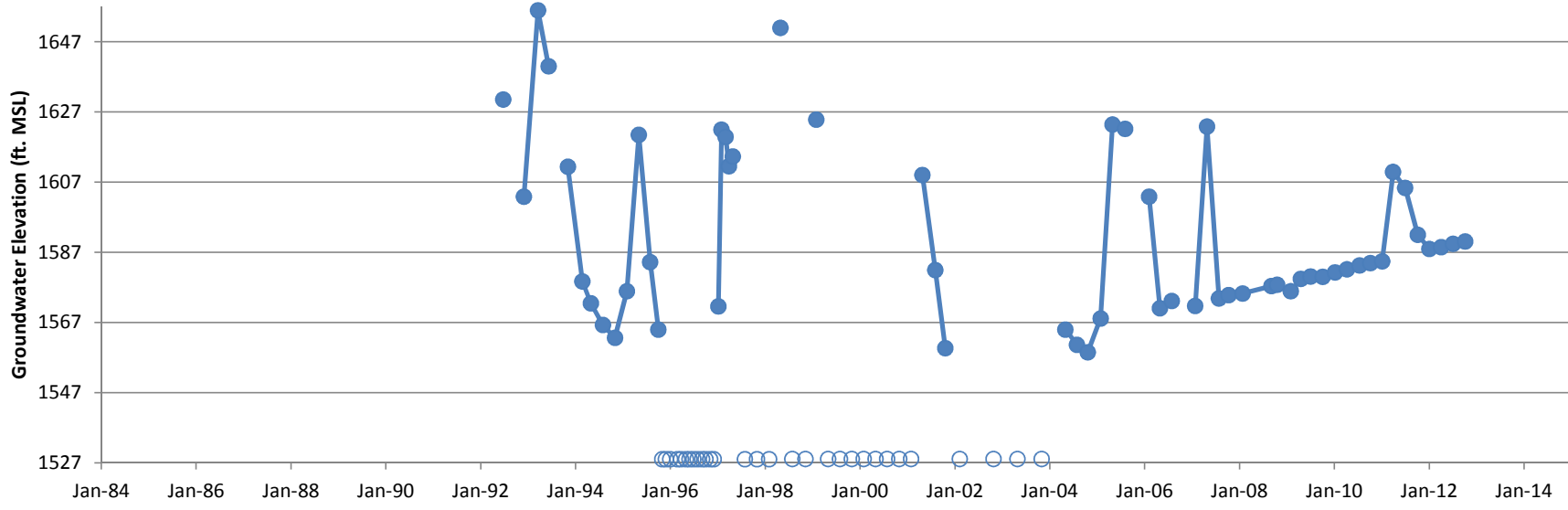
Hydrograph
Groundwater Monitoring Well HAR-26

—●— Groundwater Elevation ○ Dry ▲ Pumping



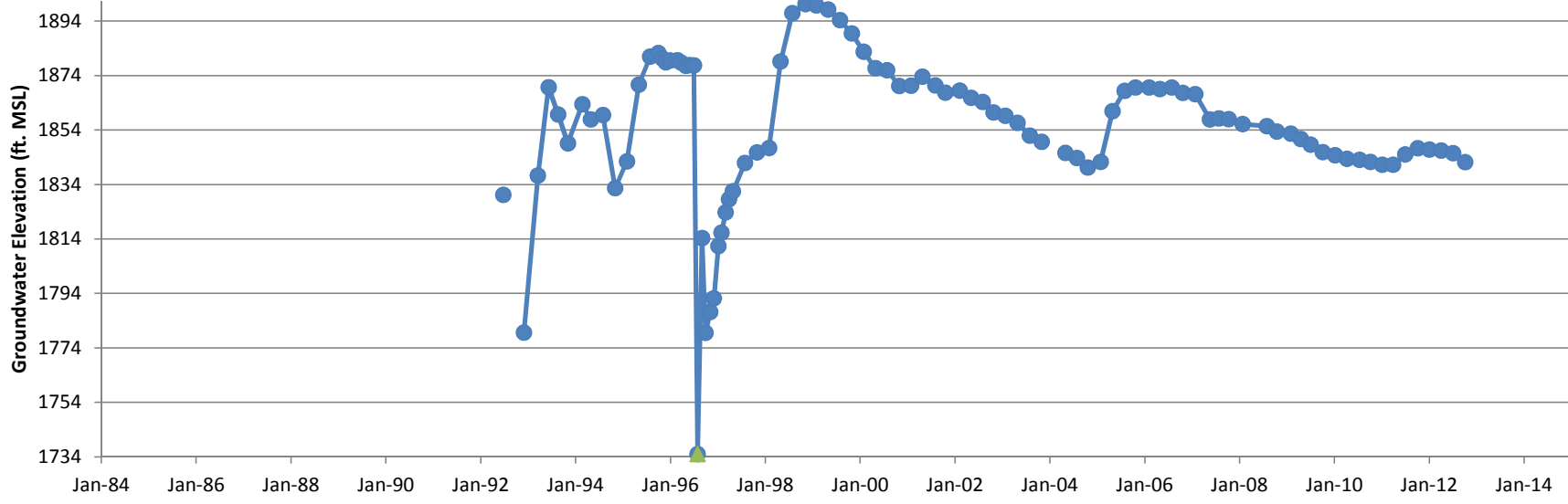
Hydrograph
 Groundwater Monitoring Well OS-24
 FLUTe installed in well on 07/09/01. The FLUTe system has been partially removed.

● Groundwater Elevation ○ Dry ▲ Pumping



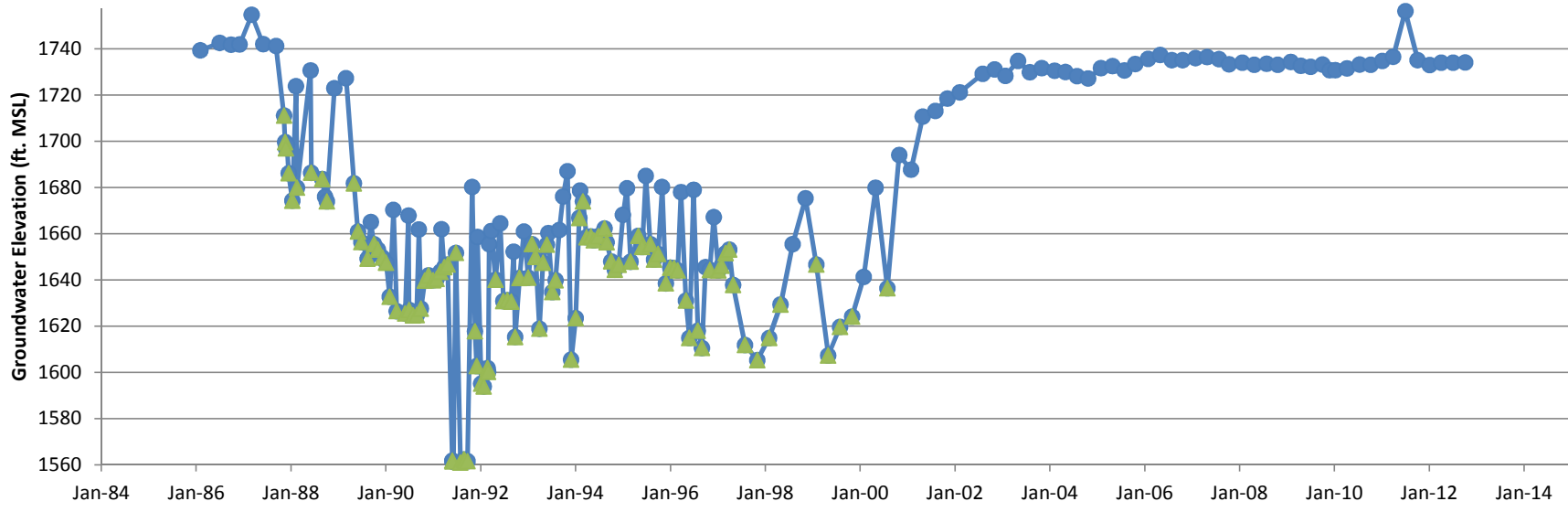
Hydrograph
Groundwater Monitoring Well OS-25

● Groundwater Elevation
 ○ Dry
 ▲ Pumping



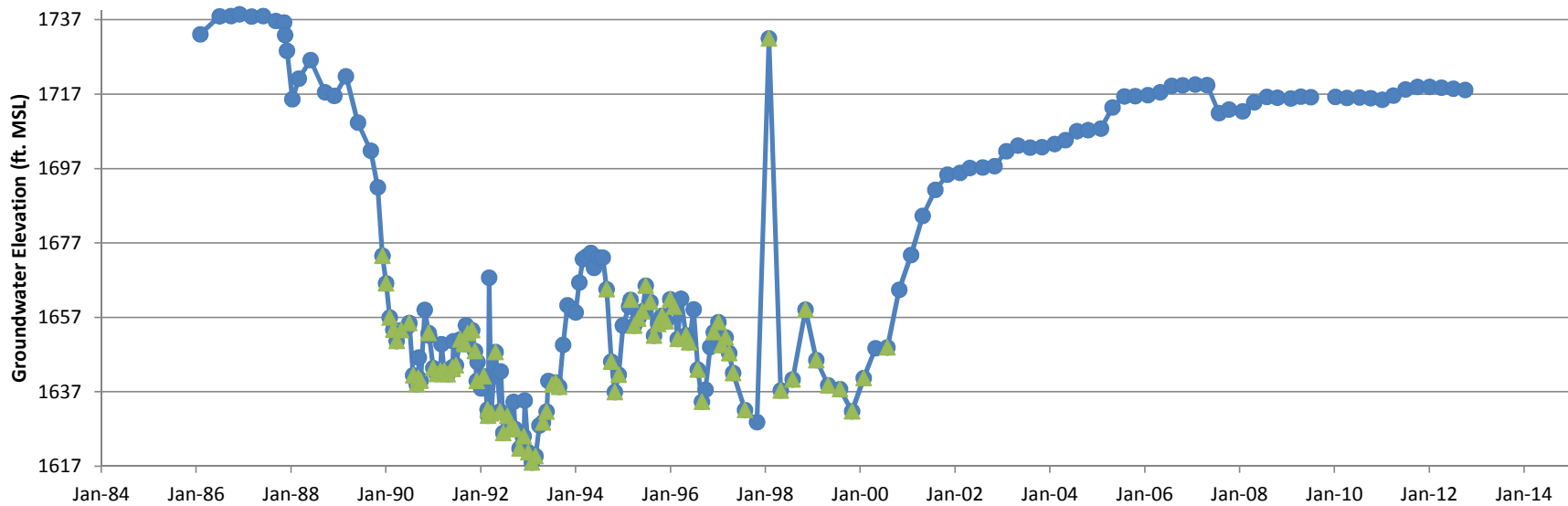
Hydrograph
Groundwater Monitoring Well OS-26

● Groundwater Elevation ○ Dry ▲ Pumping



Hydrograph
Groundwater Extraction Well RD-01

● Groundwater Elevation
 ○ Dry
 ▲ Pumping

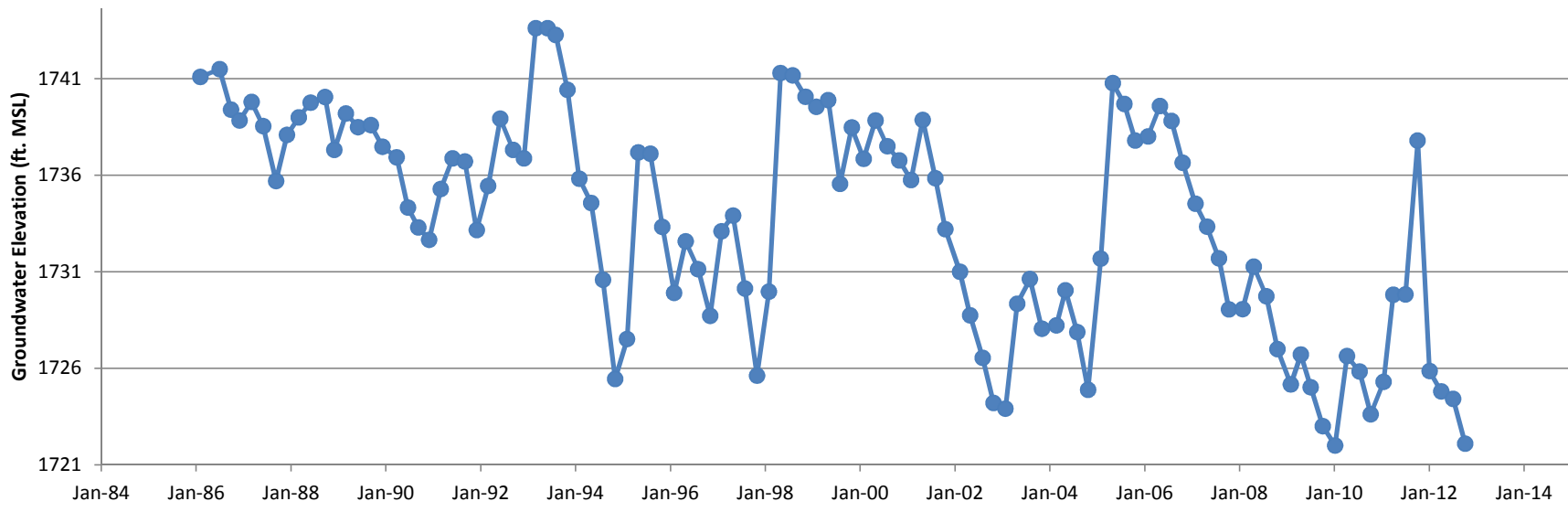


Hydrograph

Groundwater Extraction Well RD-02

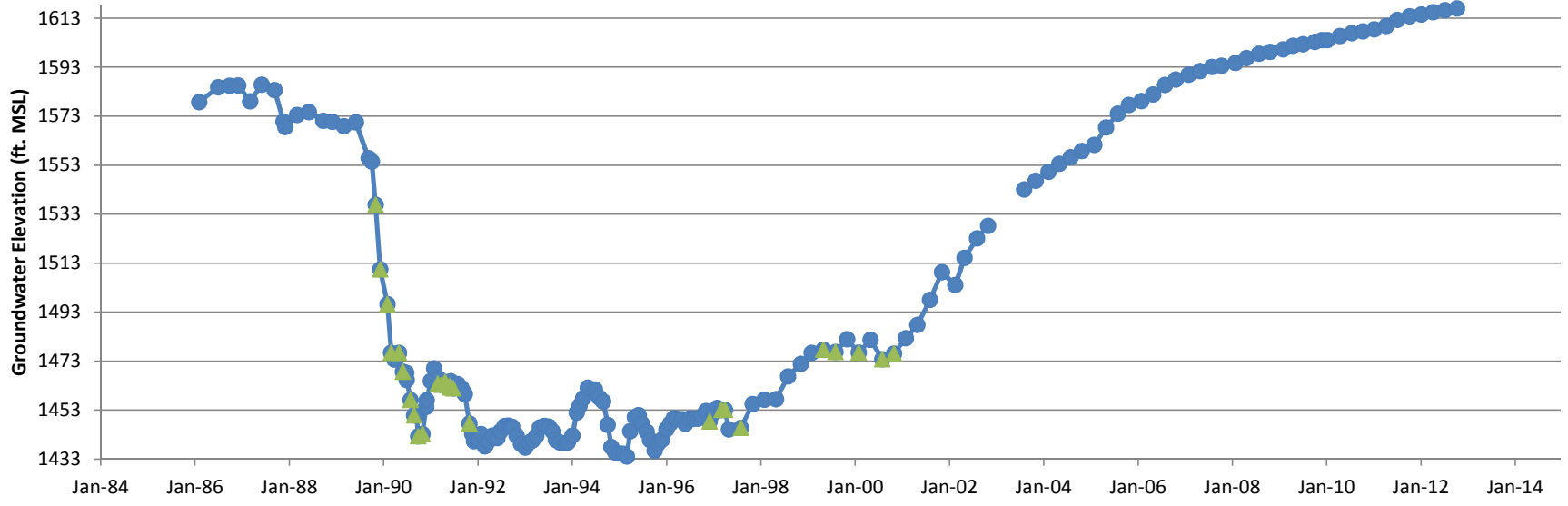
February 1998 field notes provided inconclusive data on the anomalously high pumping water level measurement.

● Groundwater Elevation ○ Dry ▲ Pumping



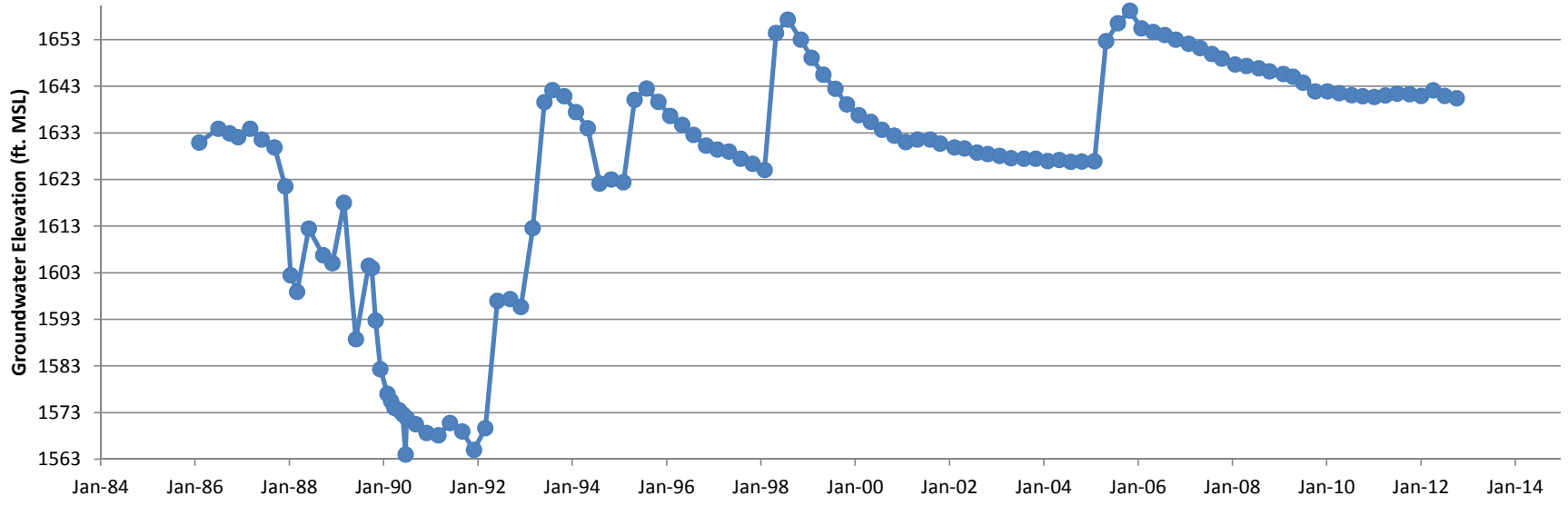
Hydrograph
Groundwater Monitoring Well RD-03

—●— Groundwater Elevation ○ Dry ▲ Pumping



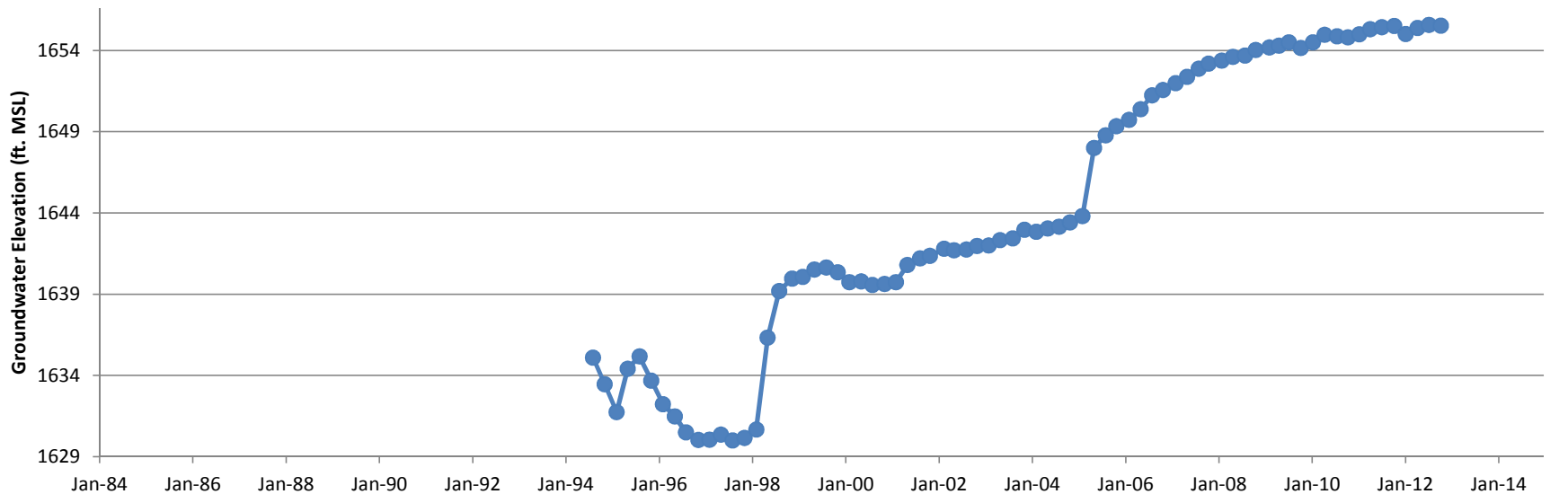
Hydrograph
Groundwater Extraction Well RD-04

● Groundwater Elevation ○ Dry ▲ Pumping



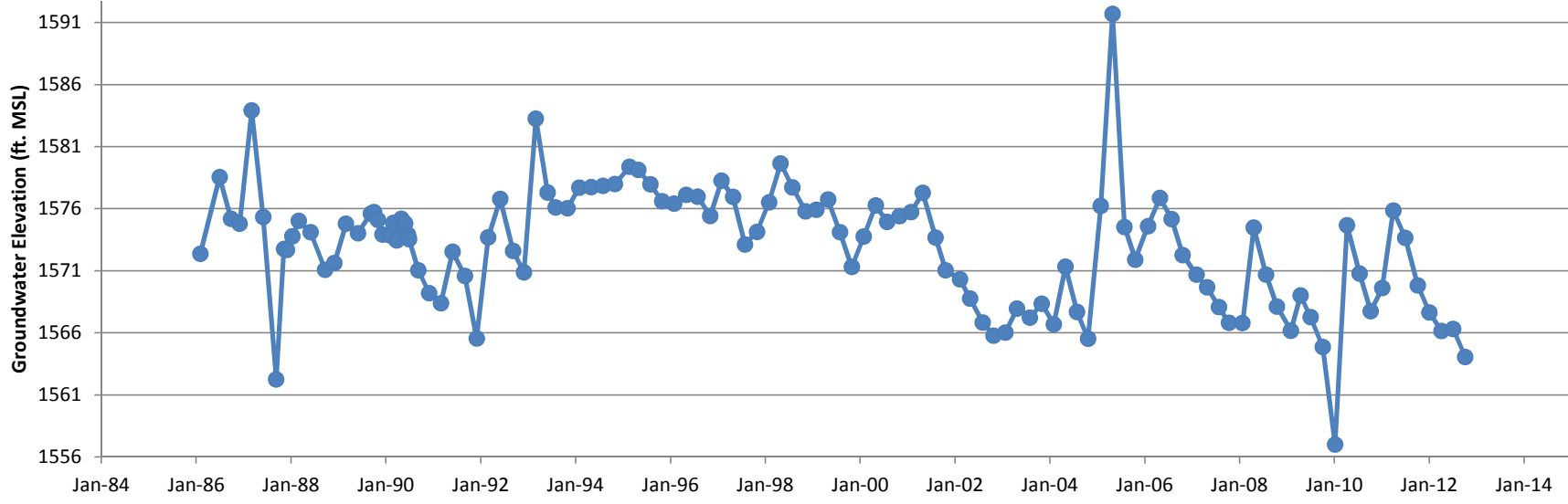
Hydrograph
 Groundwater Monitoring Well RD-05B
 Well known as RD-05 prior to 05/93

● Groundwater Elevation
 ○ Dry
 ▲ Pumping



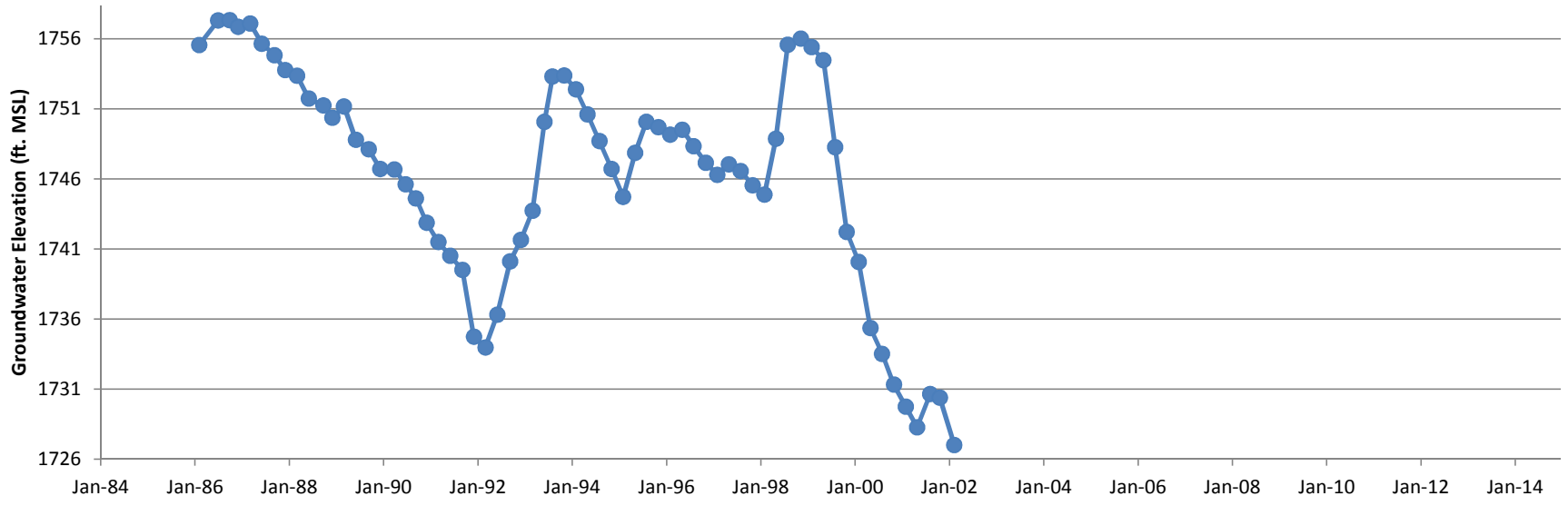
Hydrograph
Groundwater Monitoring Well RD-05C

● Groundwater Elevation ○ Dry ▲ Pumping



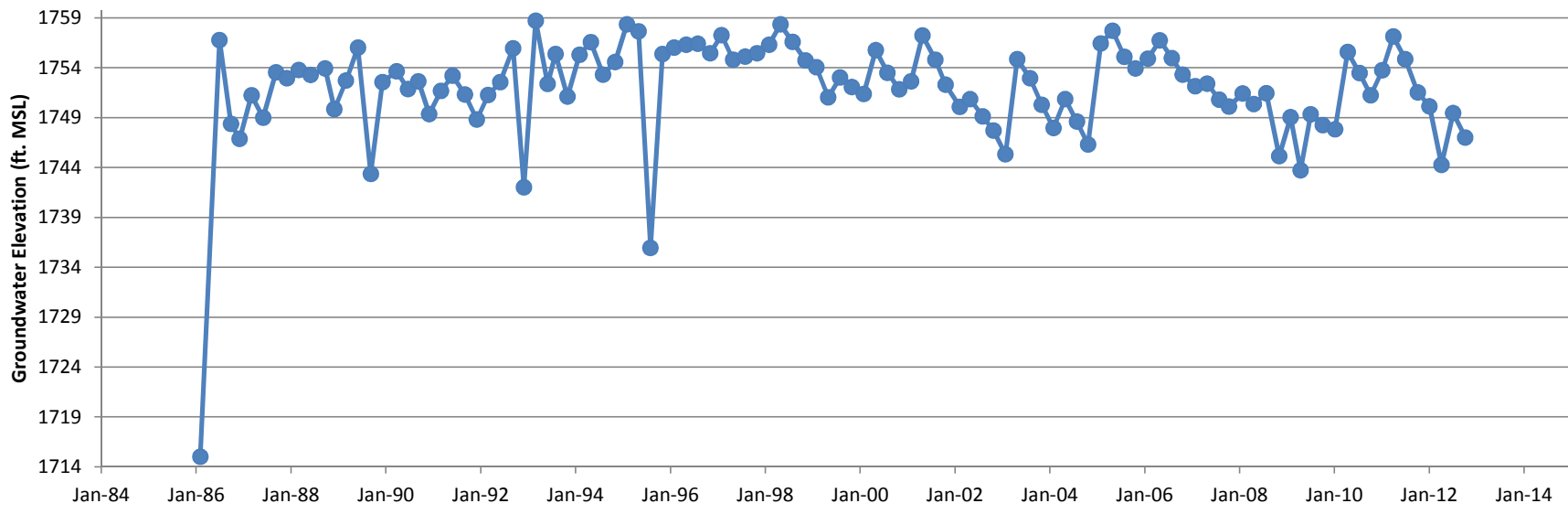
Hydrograph
Groundwater Monitoring Well RD-06

● Groundwater Elevation ○ Dry ▲ Pumping



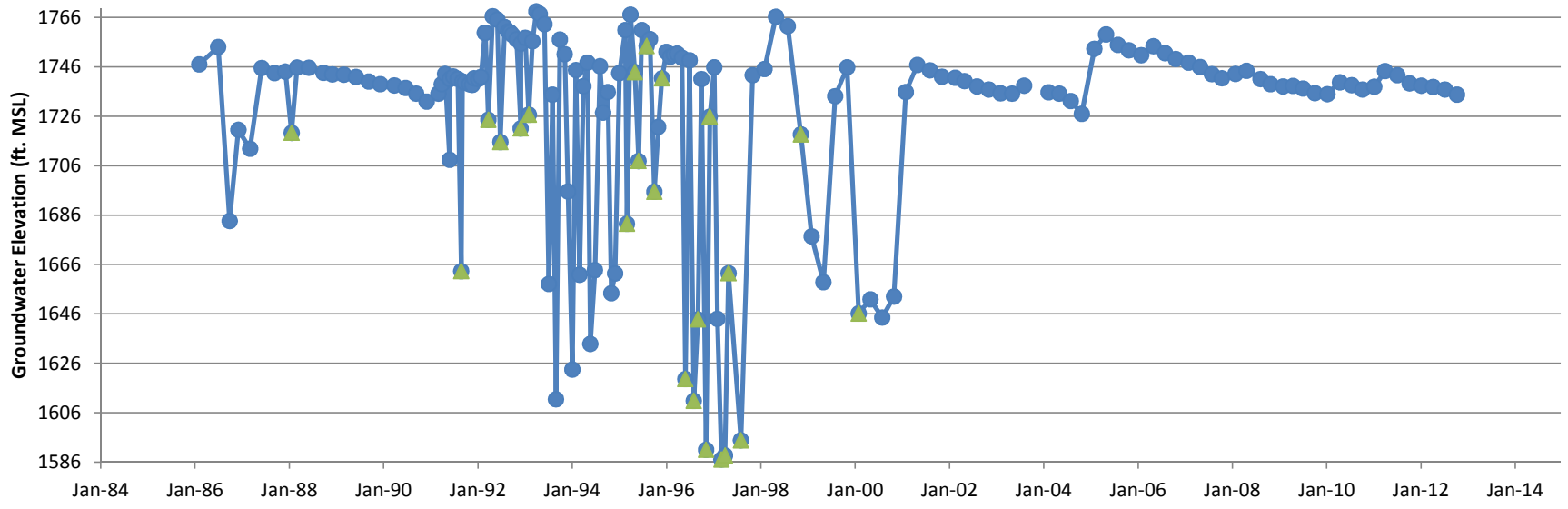
Hydrograph
 Groundwater Monitoring Well RD-07
 FLUTe installed in well on 04/29/02.

● Groundwater Elevation
 ○ Dry
 ▲ Pumping



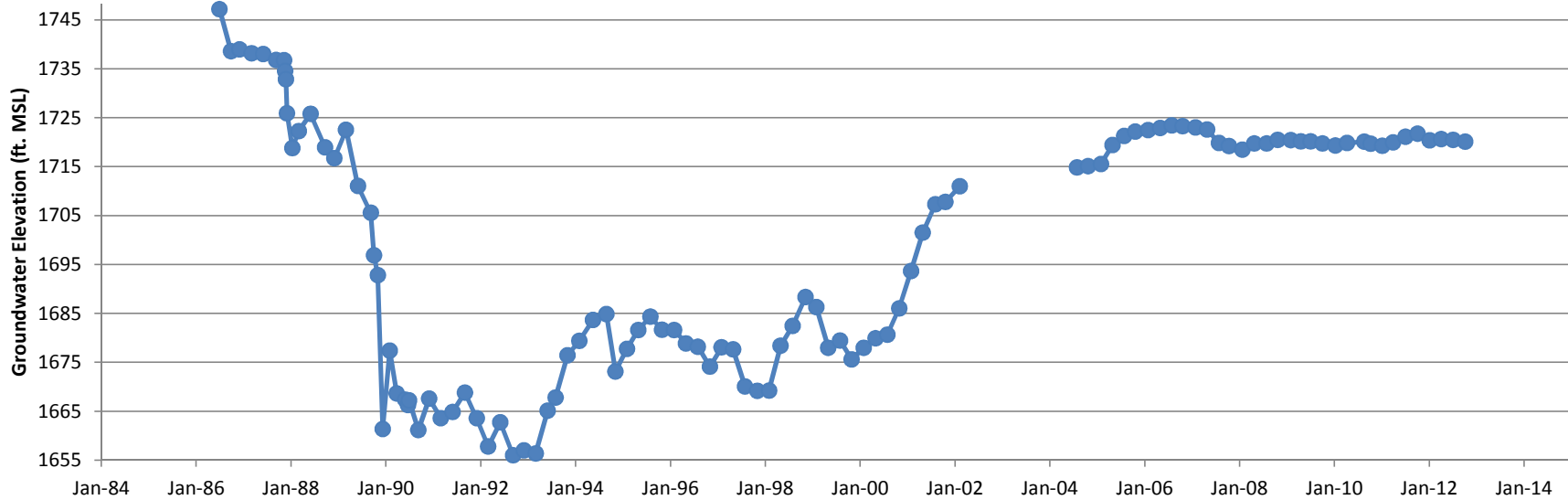
Hydrograph
Groundwater Monitoring Well RD-08

● Groundwater Elevation ○ Dry ▲ Pumping



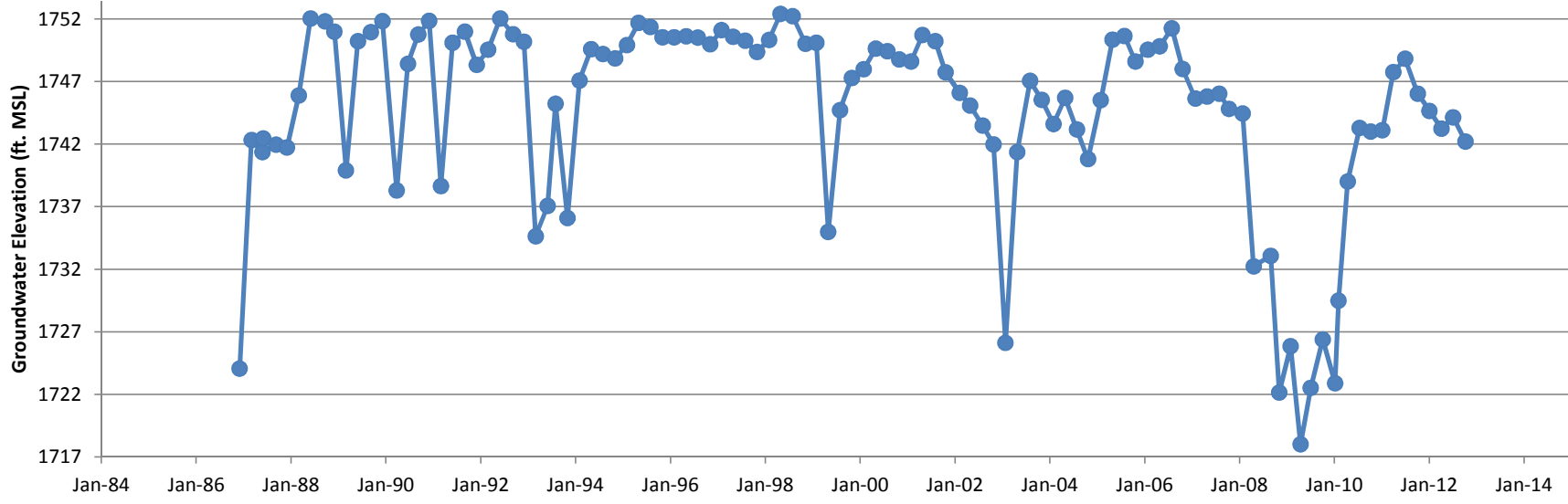
Hydrograph
Groundwater Extraction Well RD-09

● Groundwater Elevation ○ Dry ▲ Pumping



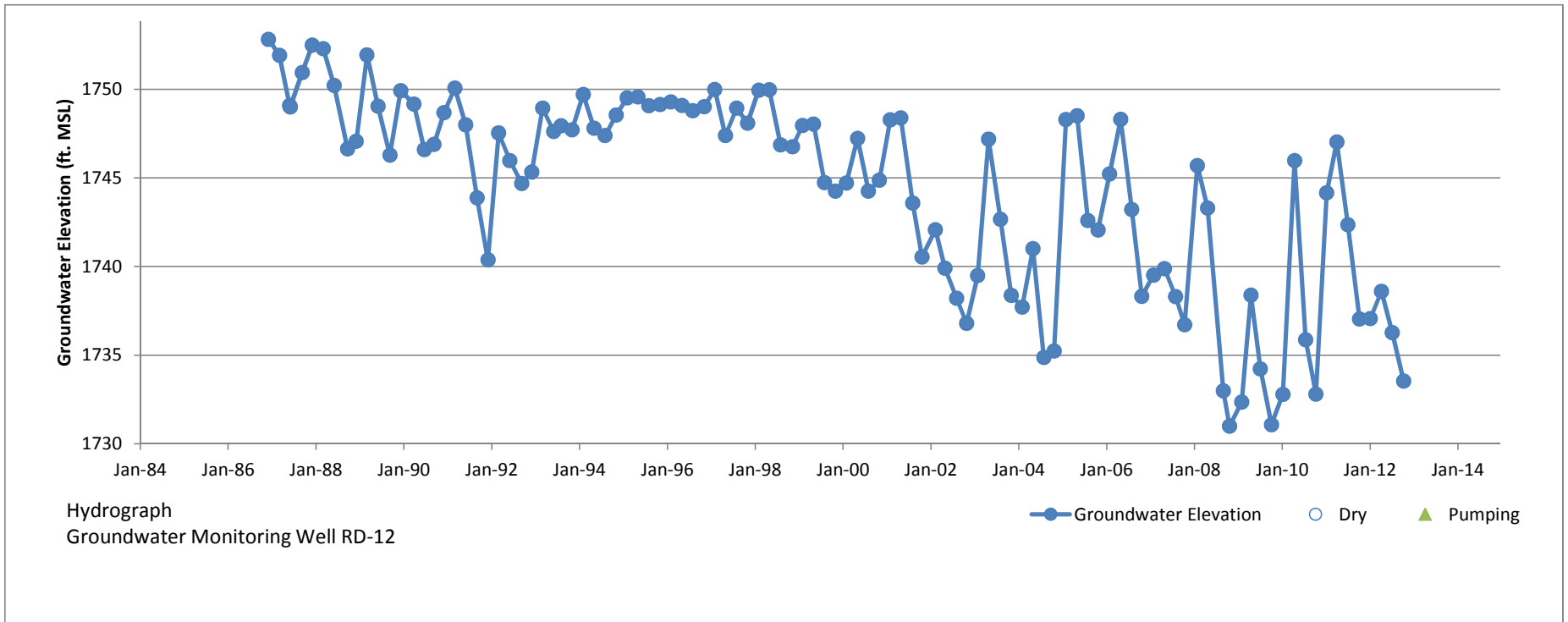
Hydrograph
 Groundwater Monitoring Well RD-10
 FLUTE installed in well on 03/18/02 through 07/23/04.

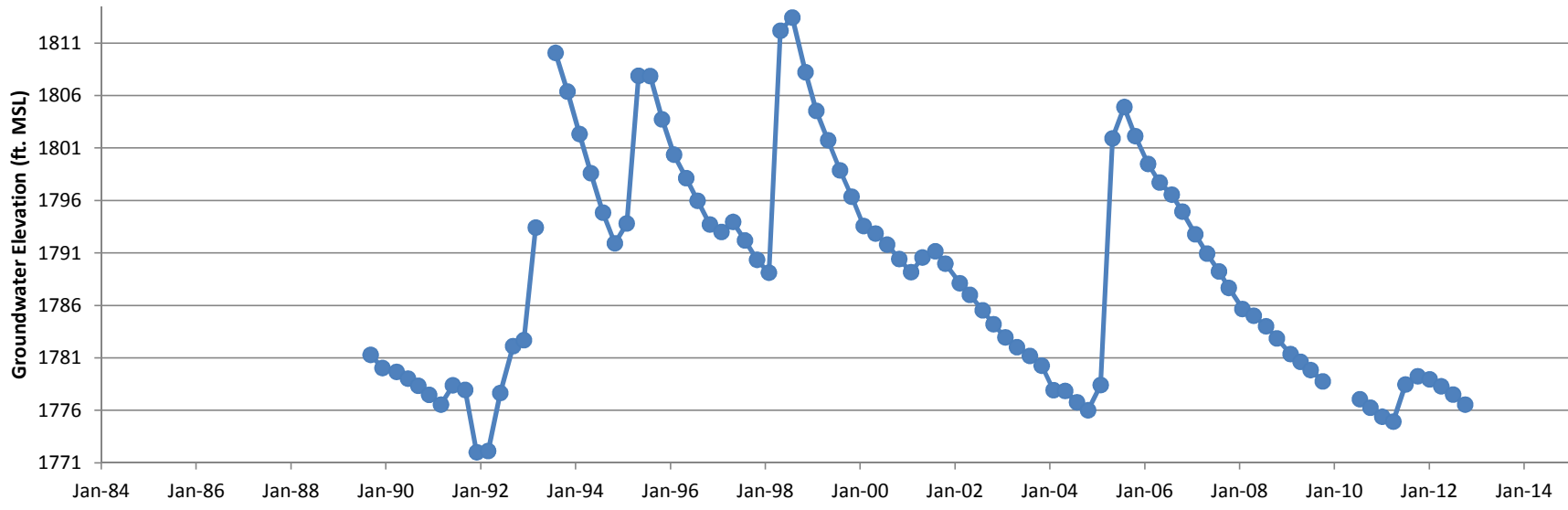
—●— Groundwater Elevation ○ Dry ▲ Pumping



Hydrograph
Groundwater Monitoring Well RD-11

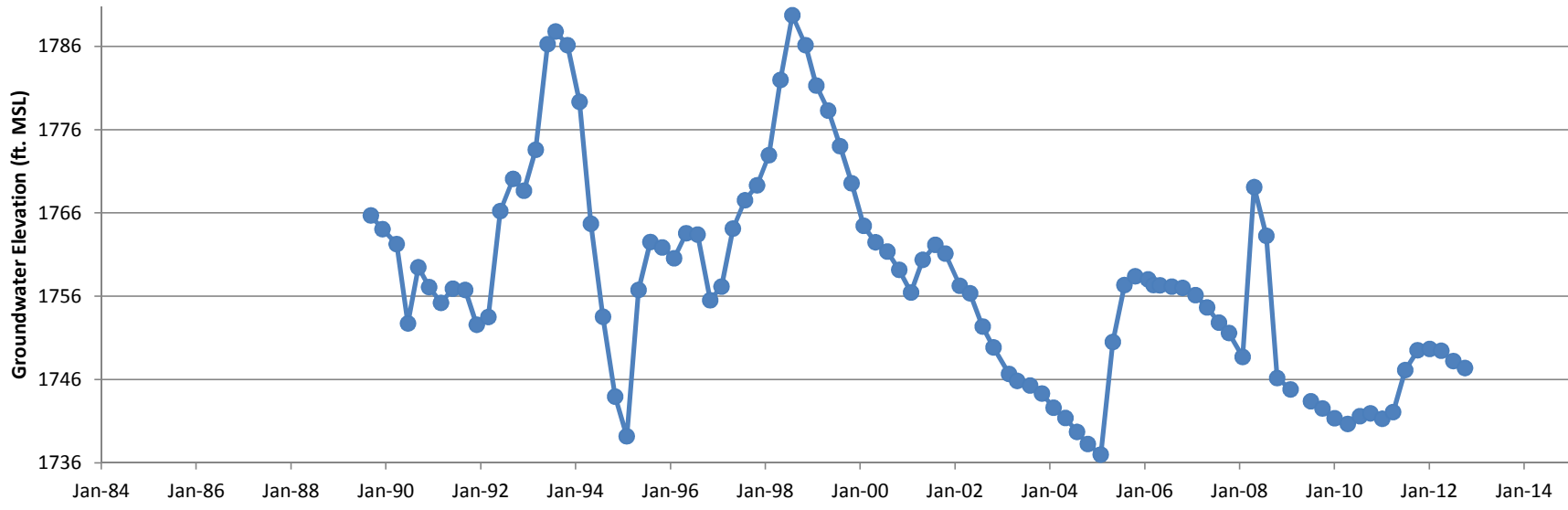
● Groundwater Elevation ○ Dry ▲ Pumping





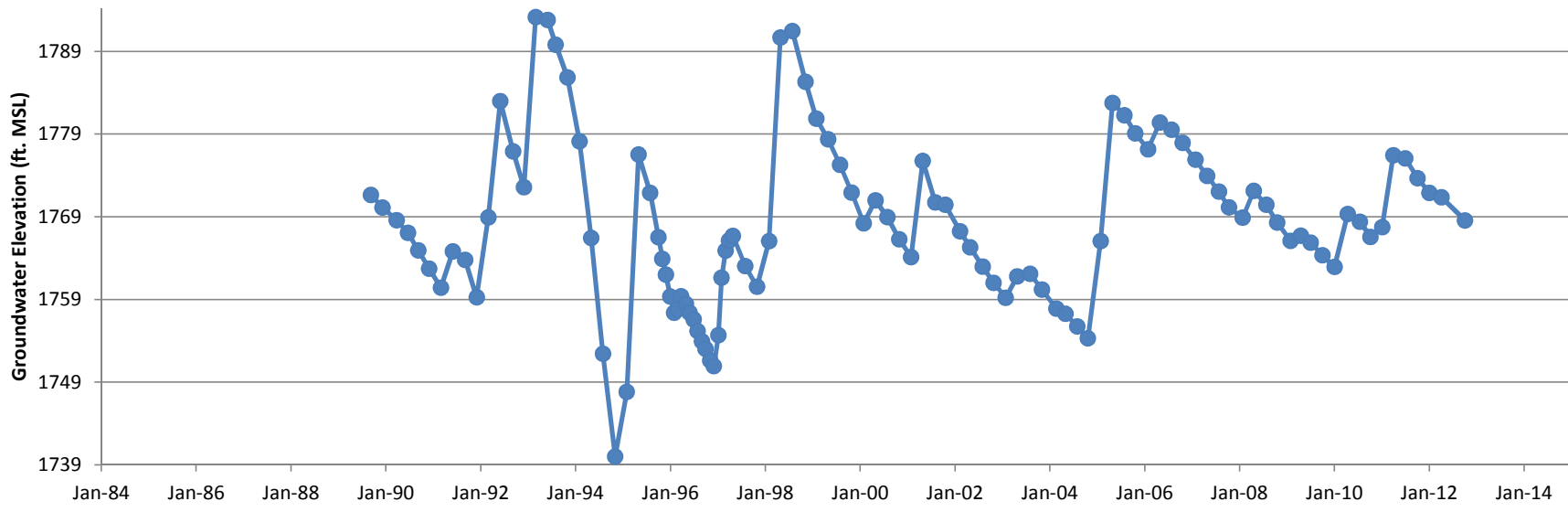
Hydrograph
Groundwater Monitoring Well RD-13

—●— Groundwater Elevation ○ Dry ▲ Pumping



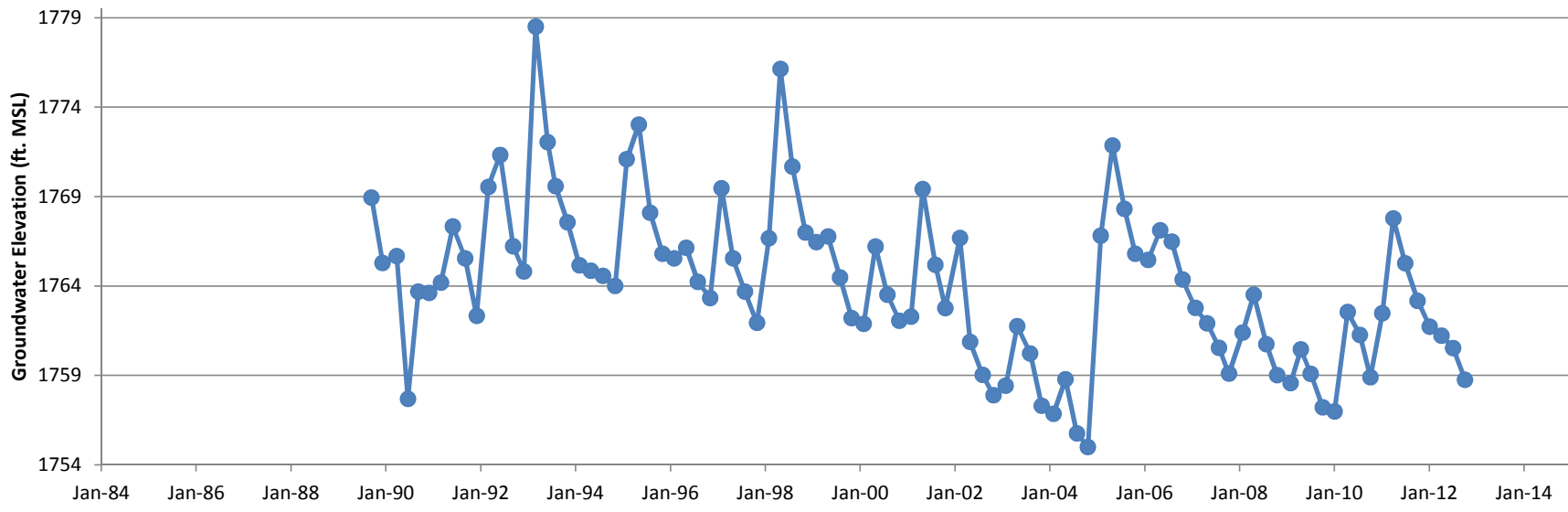
Hydrograph
Groundwater Monitoring Well RD-14

—●— Groundwater Elevation ○ Dry ▲ Pumping



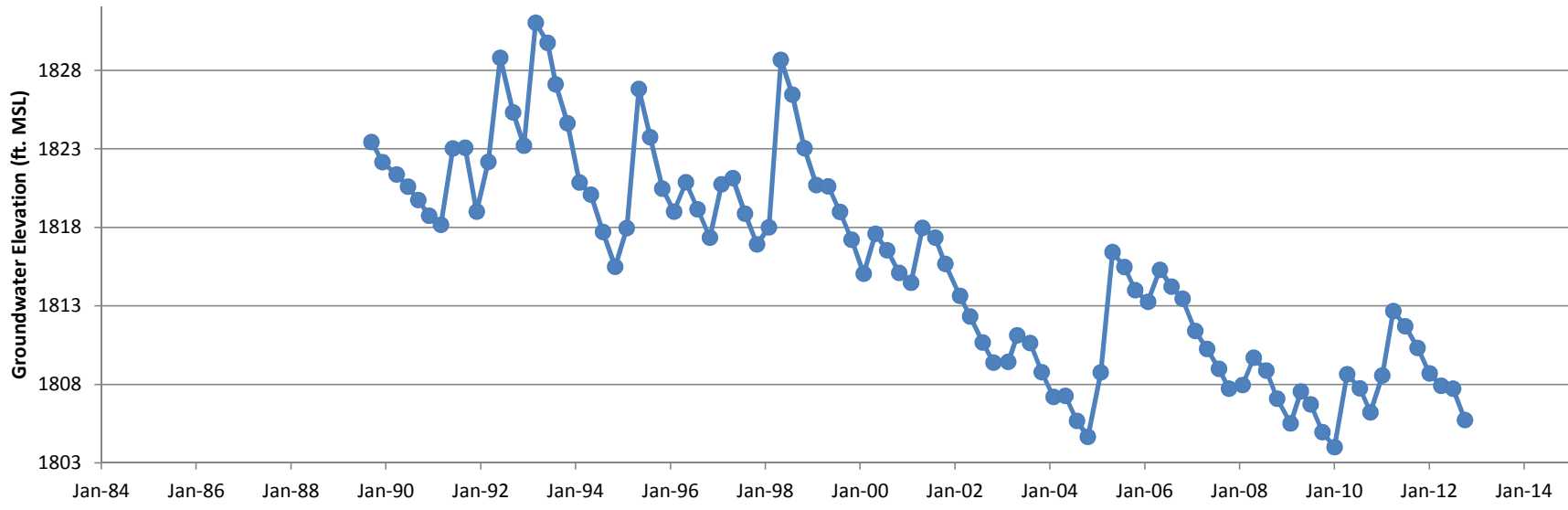
Hydrograph
Groundwater Monitoring Well RD-15

● Groundwater Elevation
 ○ Dry
 ▲ Pumping



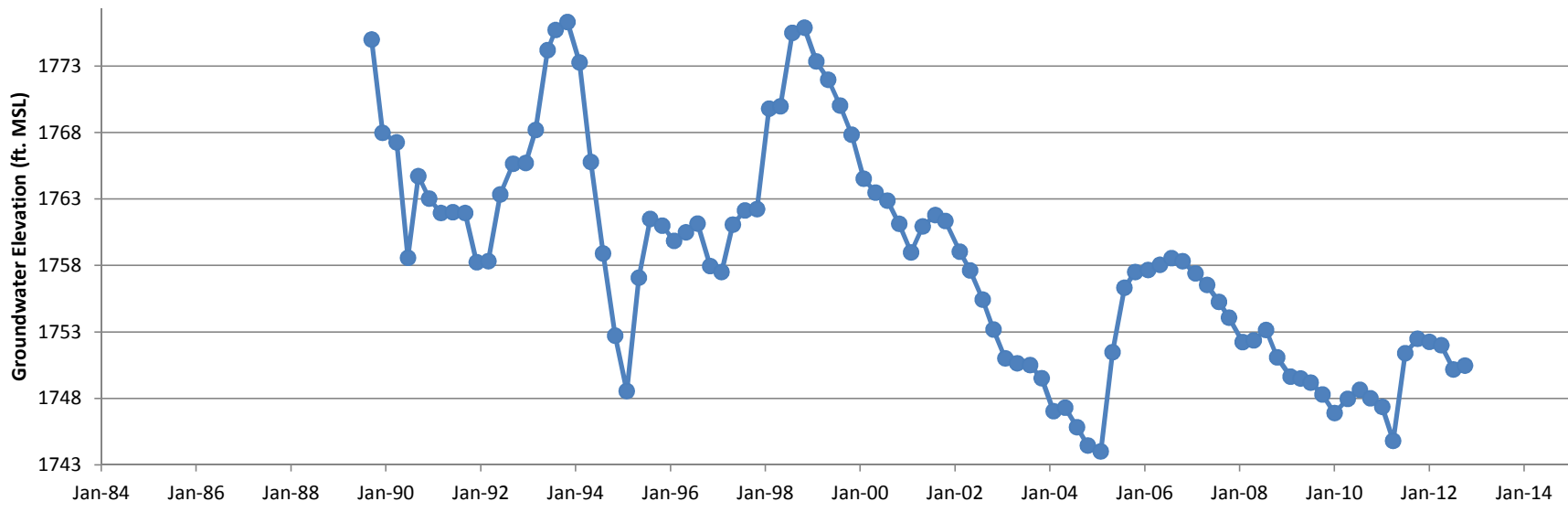
Hydrograph
Groundwater Monitoring Well RD-16

● Groundwater Elevation
 ○ Dry
 ▲ Pumping



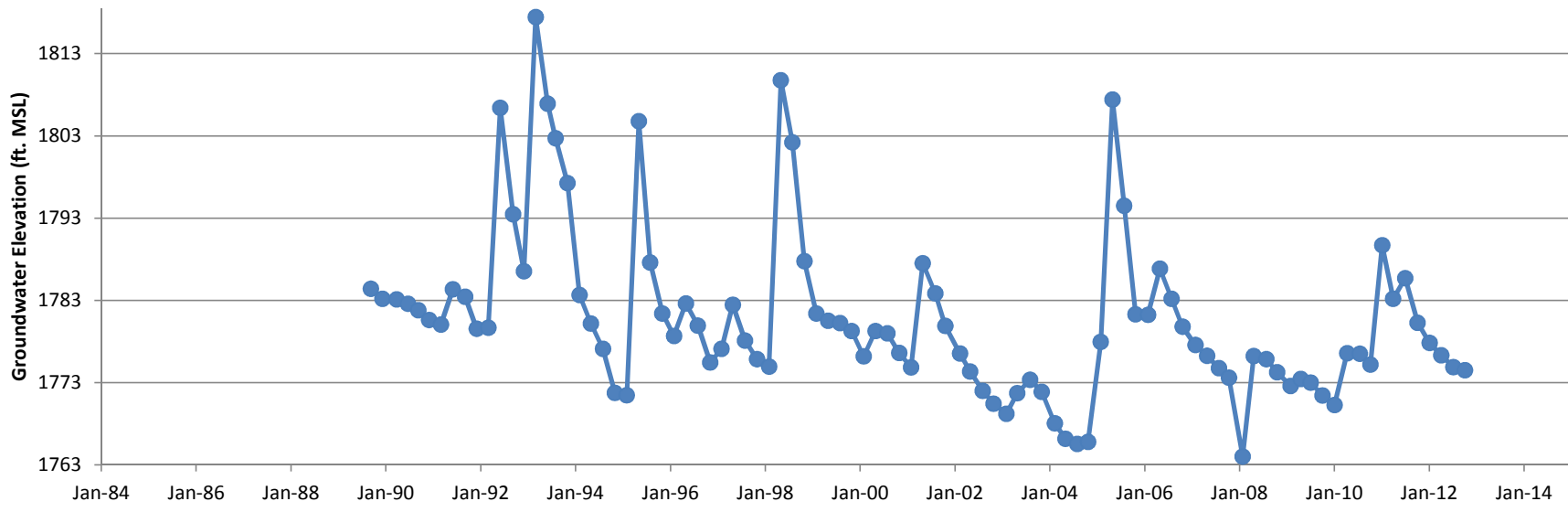
Hydrograph
Groundwater Monitoring Well RD-17

● Groundwater Elevation ○ Dry ▲ Pumping



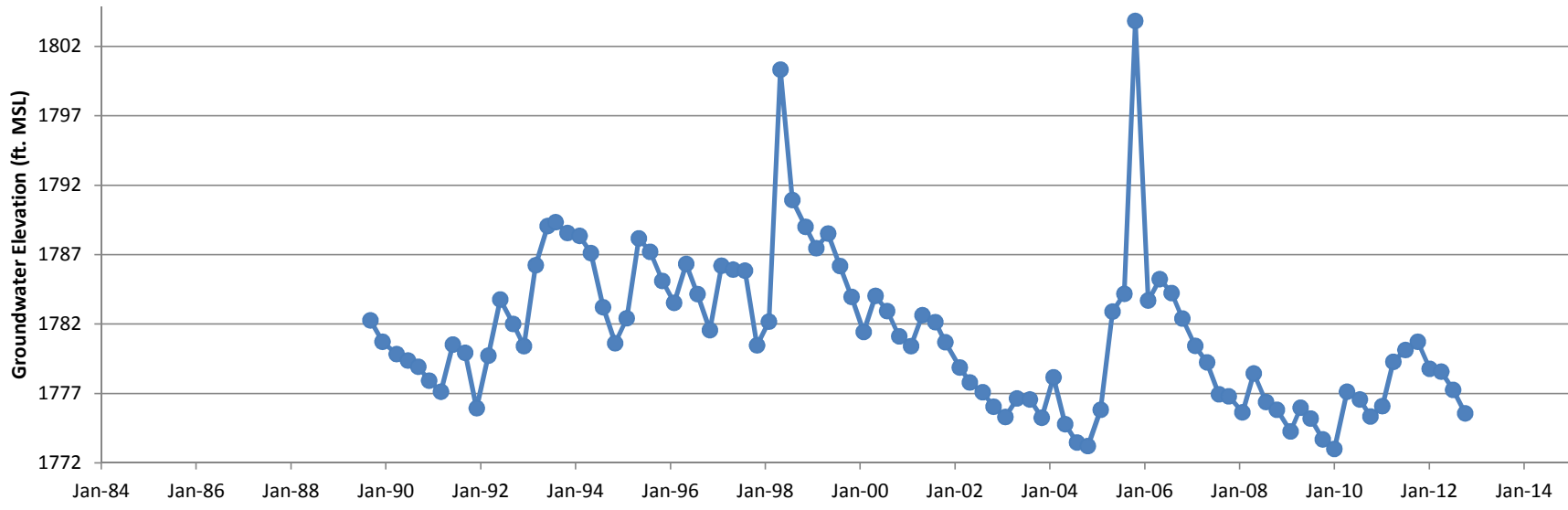
Hydrograph
Groundwater Monitoring Well RD-18

● Groundwater Elevation ○ Dry ▲ Pumping



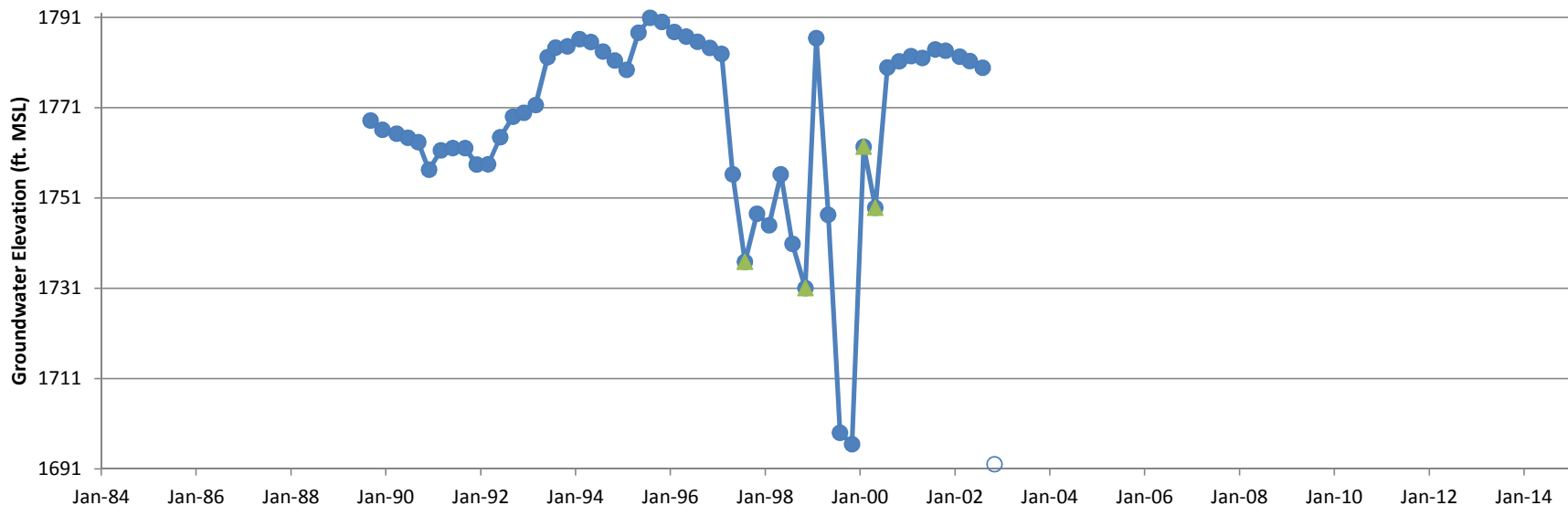
Hydrograph
Groundwater Monitoring Well RD-19

● Groundwater Elevation ○ Dry ▲ Pumping



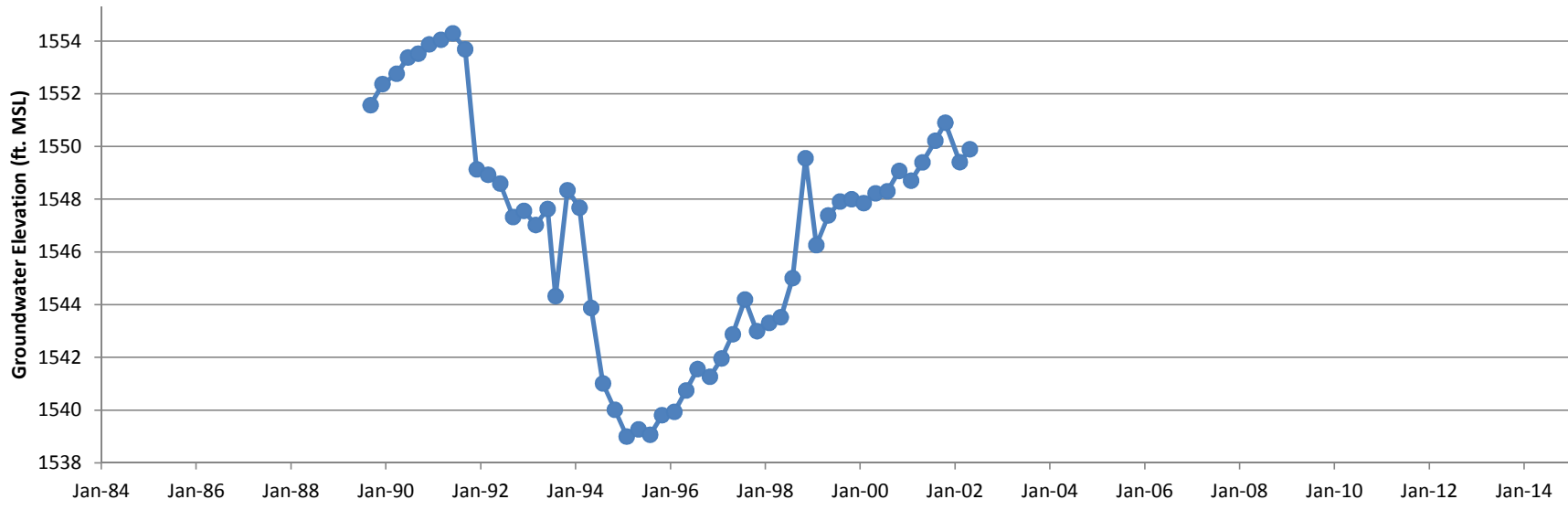
Hydrograph
Groundwater Monitoring Well RD-20

—●— Groundwater Elevation ○ Dry ▲ Pumping



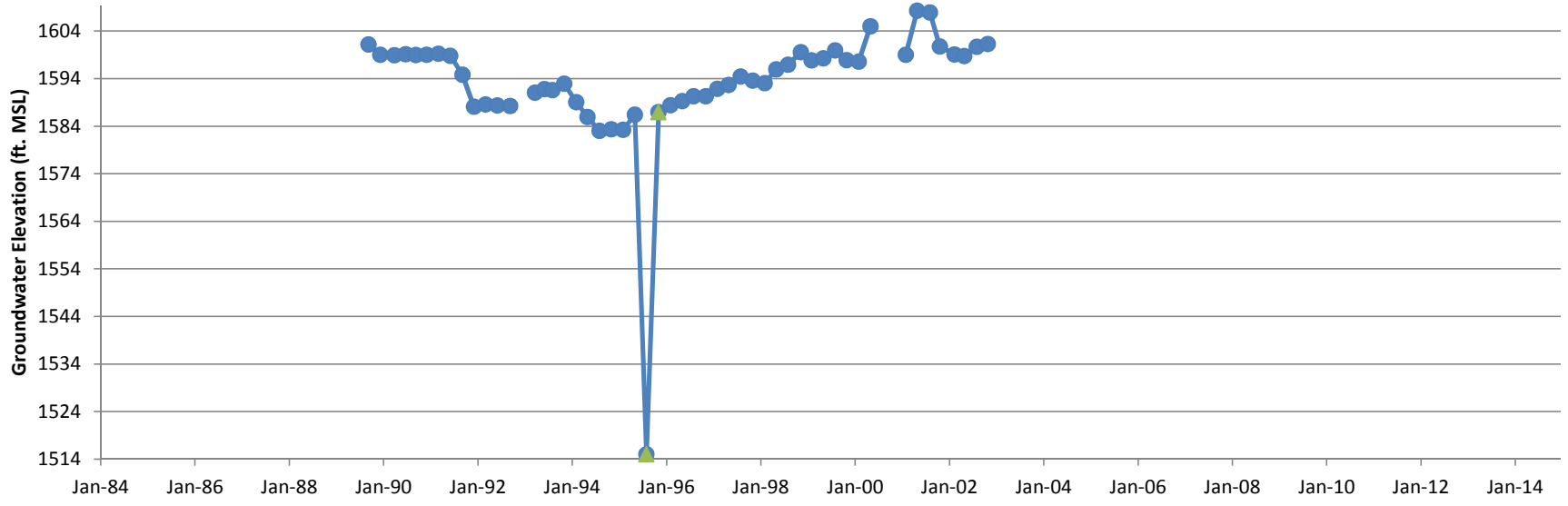
Hydrograph
Groundwater Monitoring Well RD-21
FLUTE installed in well on 01/14/03.

● Groundwater Elevation ○ Dry ▲ Pumping



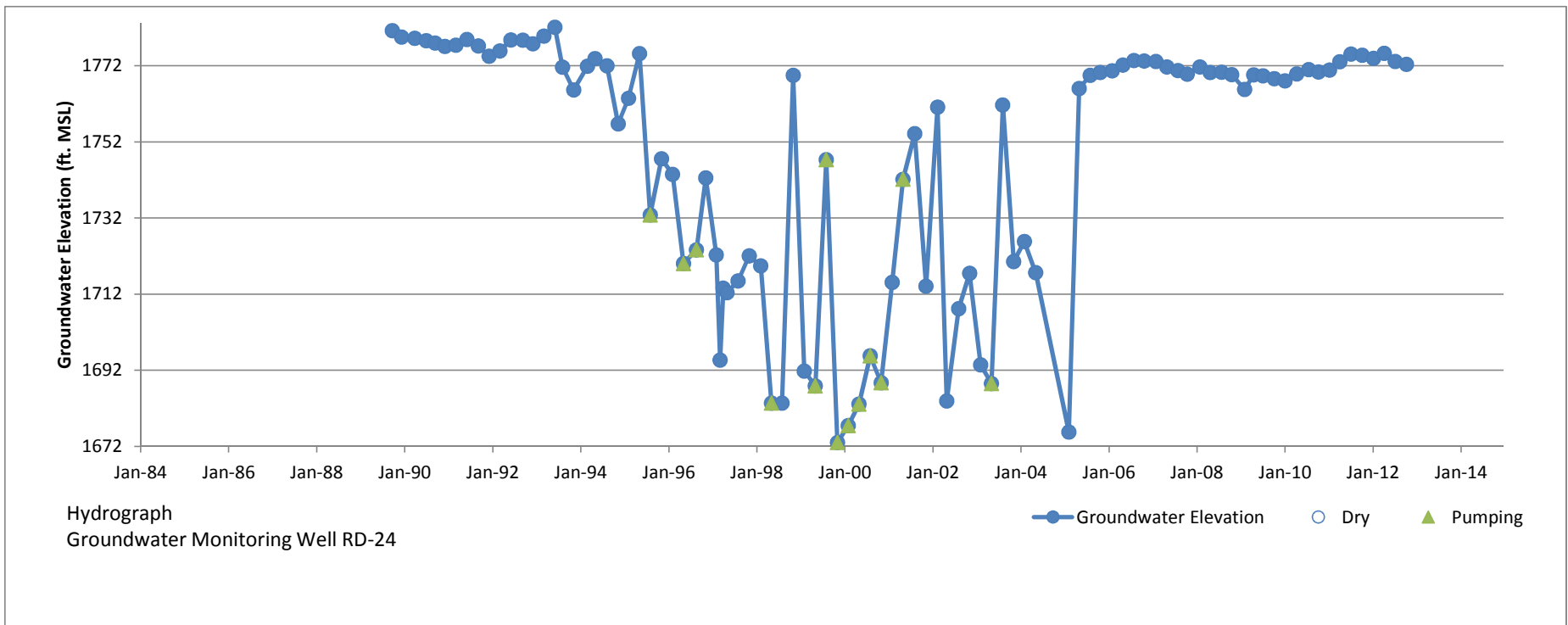
Hydrograph
Groundwater Monitoring Well RD-22
FLUTE installed in well on 02/18/03.

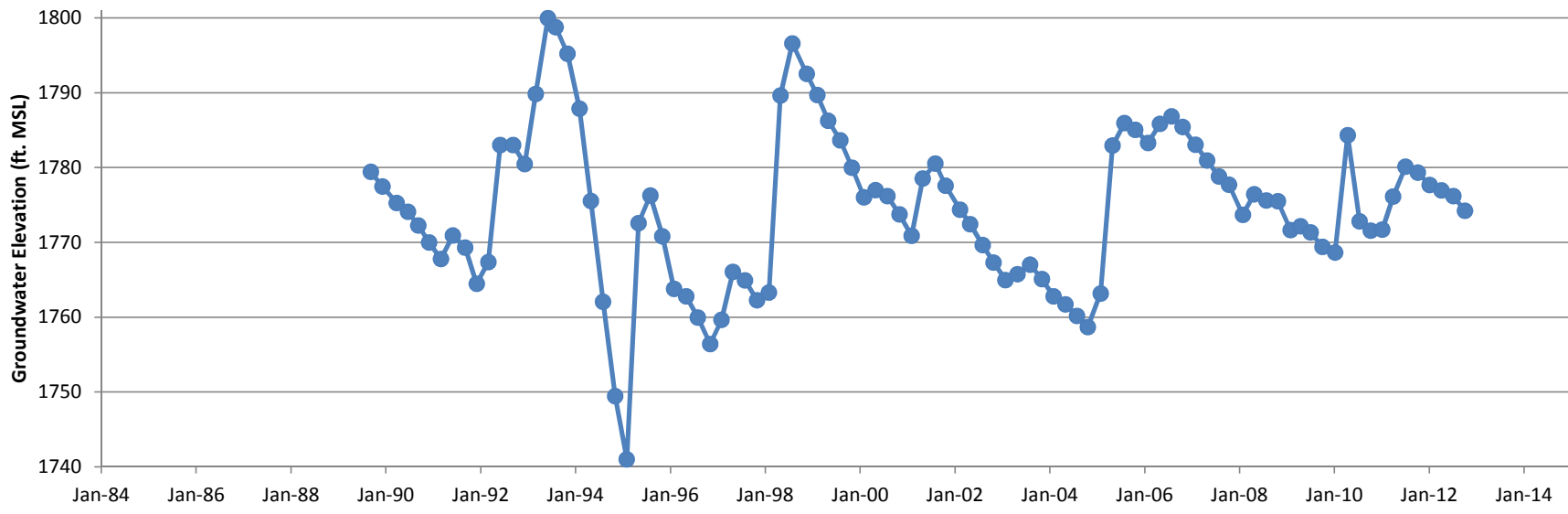
—●— Groundwater Elevation ○ Dry ▲ Pumping



Hydrograph
Groundwater Monitoring Well RD-23
FLUTE installed in well on 01/20/03.

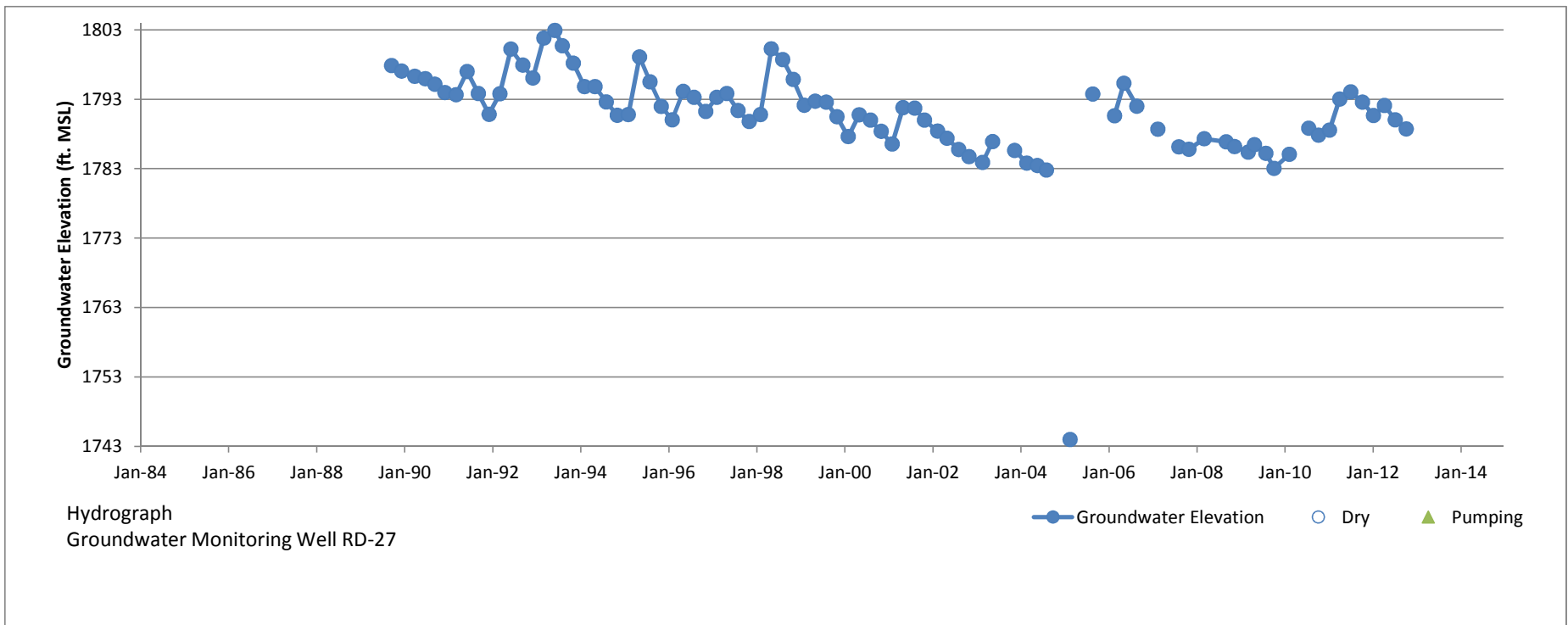
—●— Groundwater Elevation ○ Dry ▲ Pumping

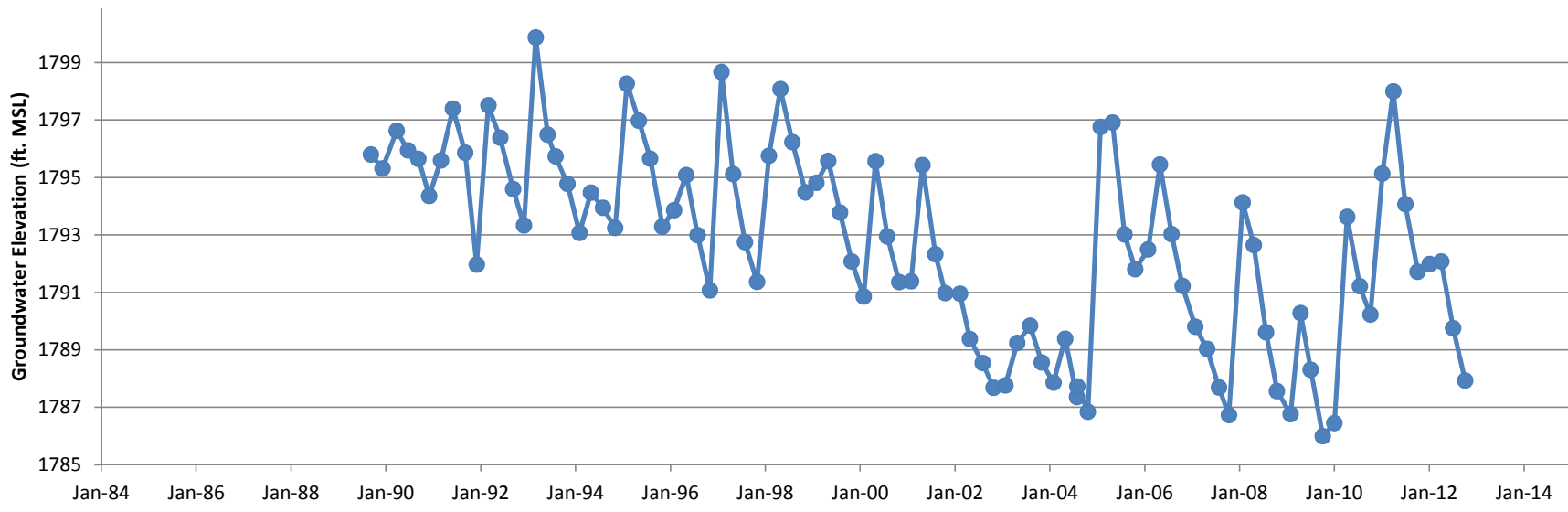




Hydrograph
Groundwater Monitoring Well RD-26

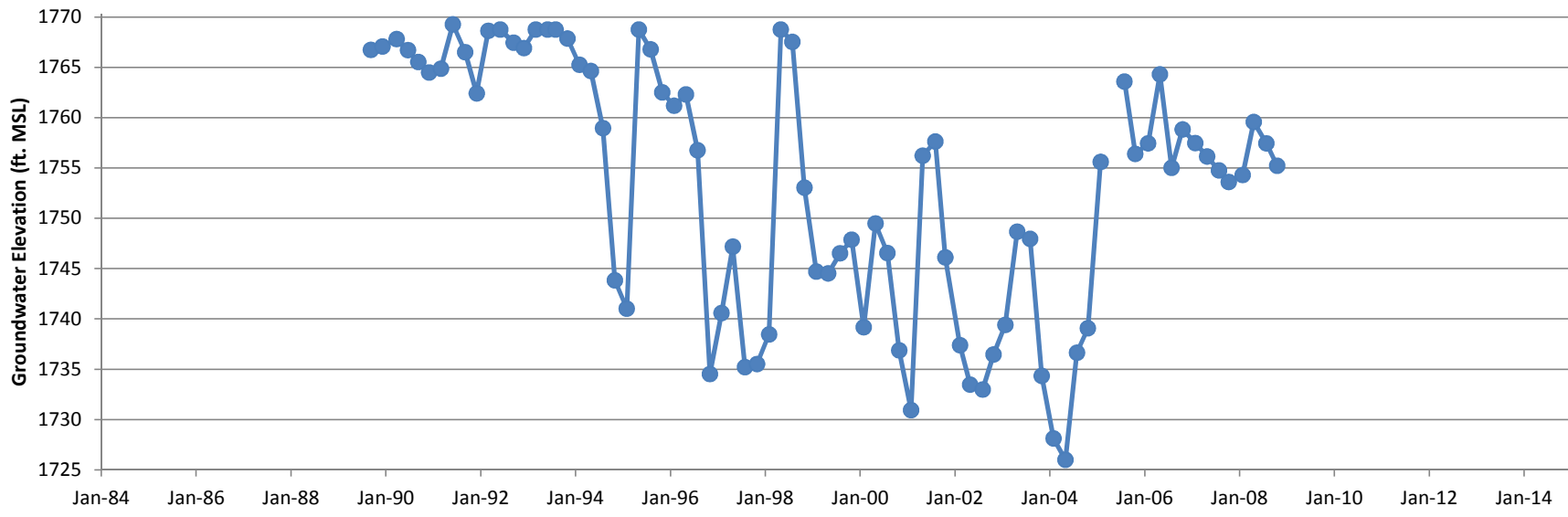
● Groundwater Elevation
 ○ Dry
 ▲ Pumping





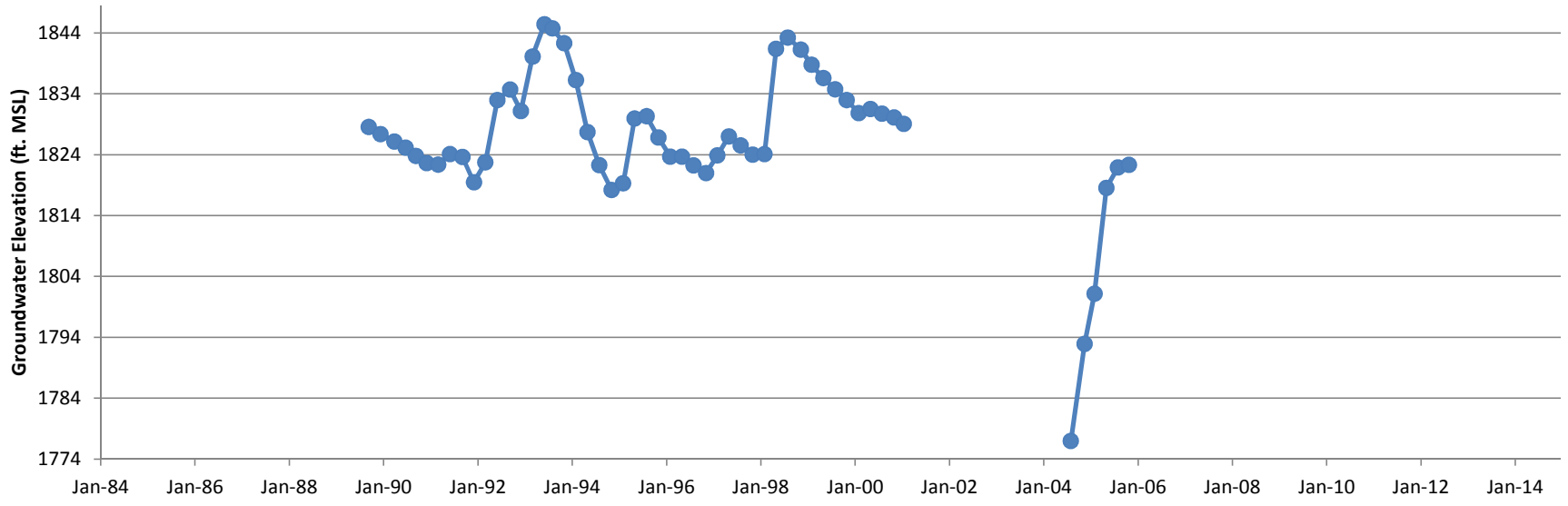
Hydrograph
Groundwater Monitoring Well RD-29

● Groundwater Elevation ○ Dry ▲ Pumping



Hydrograph
Groundwater Monitoring Well RD-30

● Groundwater Elevation ○ Dry ▲ Pumping

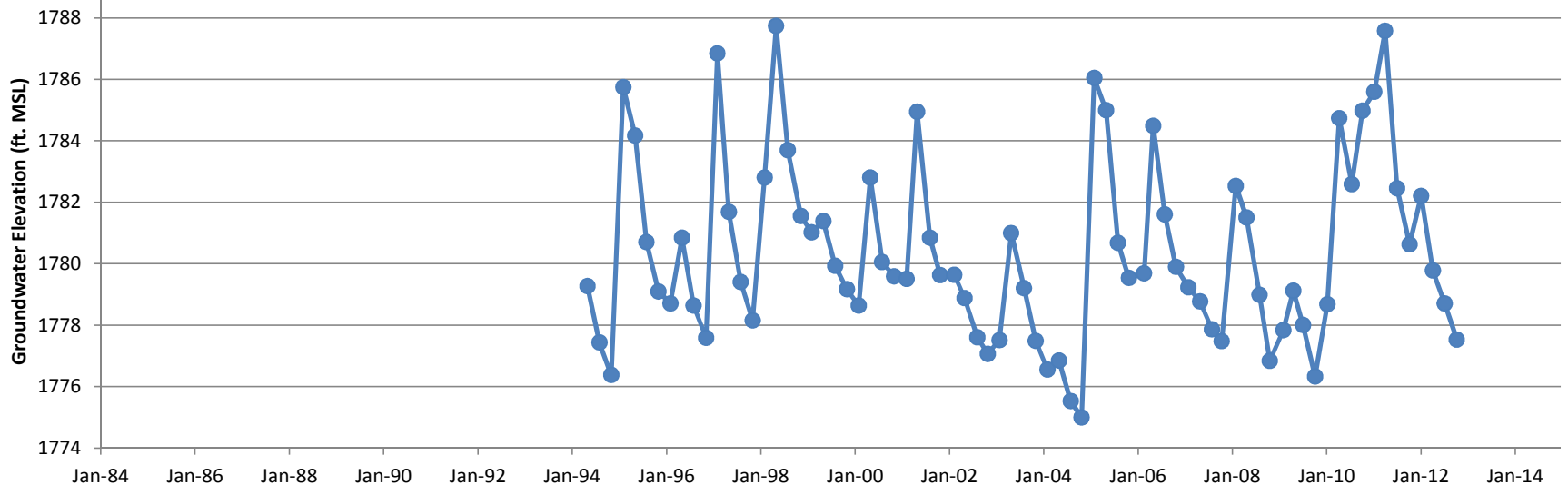


Hydrograph

Groundwater Monitoring Well RD-31

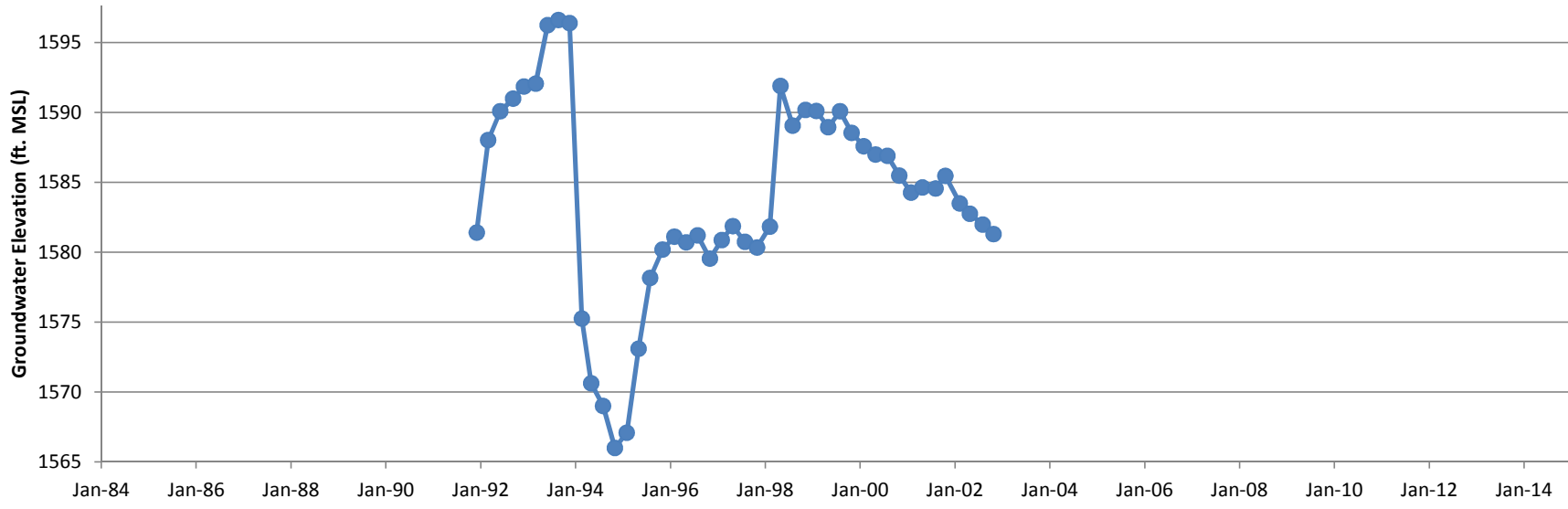
FLUTE installed in well on 01/25/01 through 07/28/04. Blank FLUTE liner installed in 2006 through May 2008. Westbay system installed in May 2008.

● Groundwater Elevation ○ Dry ▲ Pumping



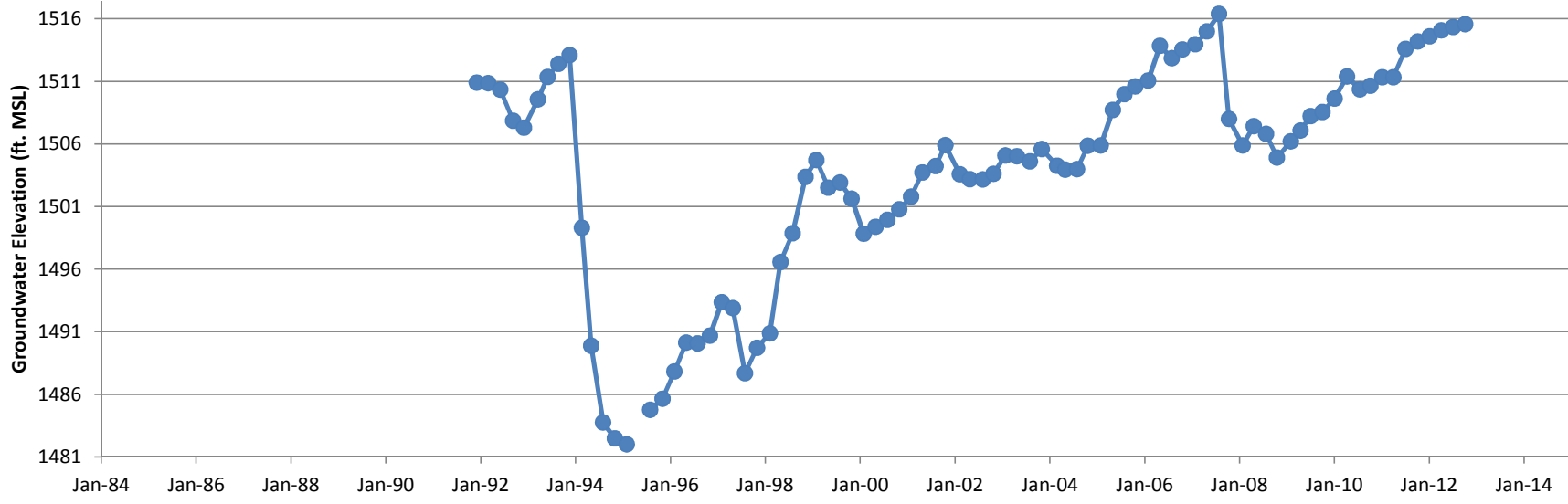
Hydrograph
Groundwater Monitoring Well RD-32

Groundwater Elevation Dry Pumping



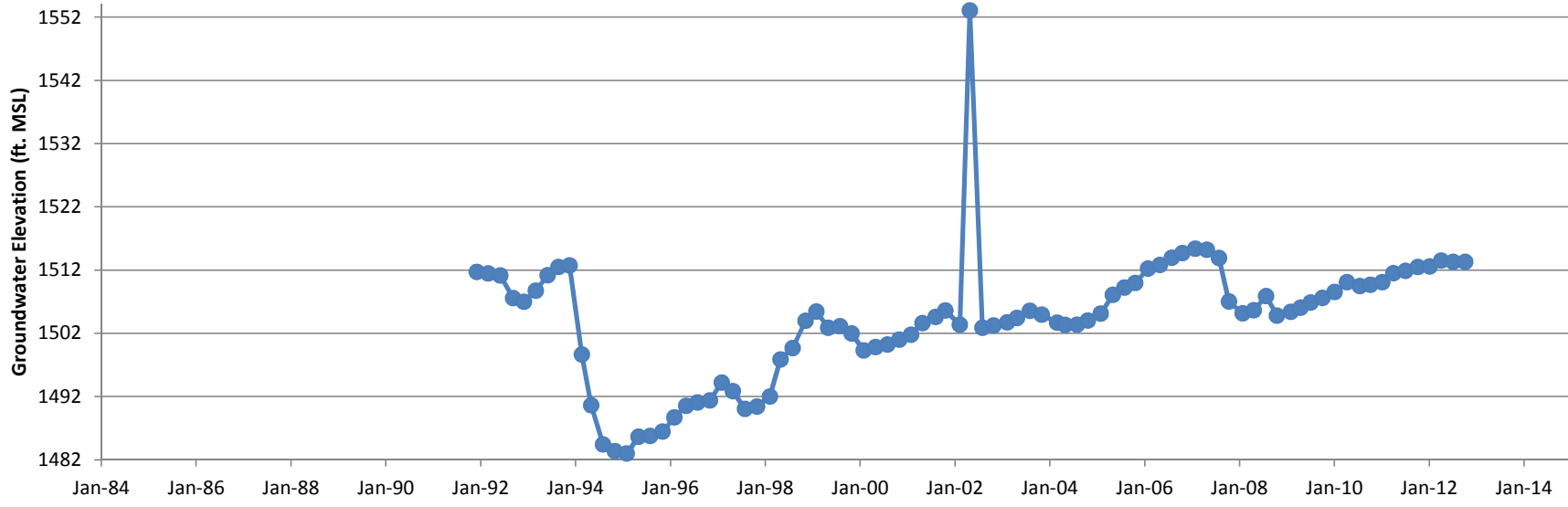
Hydrograph
Groundwater Monitoring Well RD-33A
FLUTe installed in well on 01/09/03.

● Groundwater Elevation ○ Dry ▲ Pumping



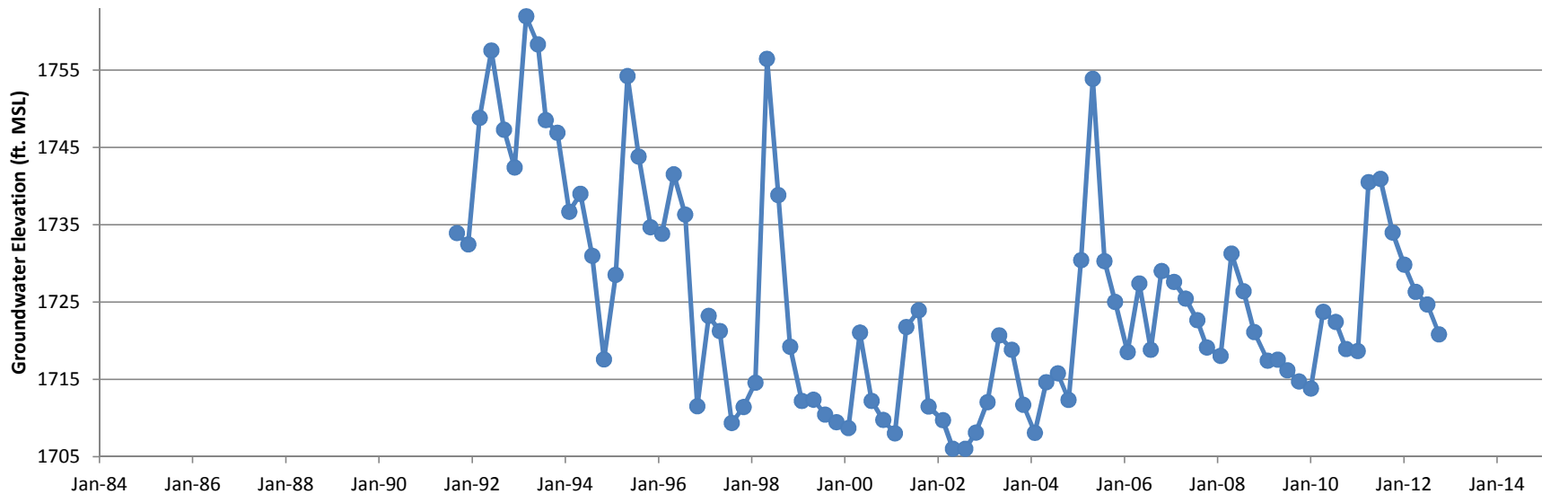
Hydrograph
Groundwater Monitoring Well RD-33B

● Groundwater Elevation ○ Dry ▲ Pumping



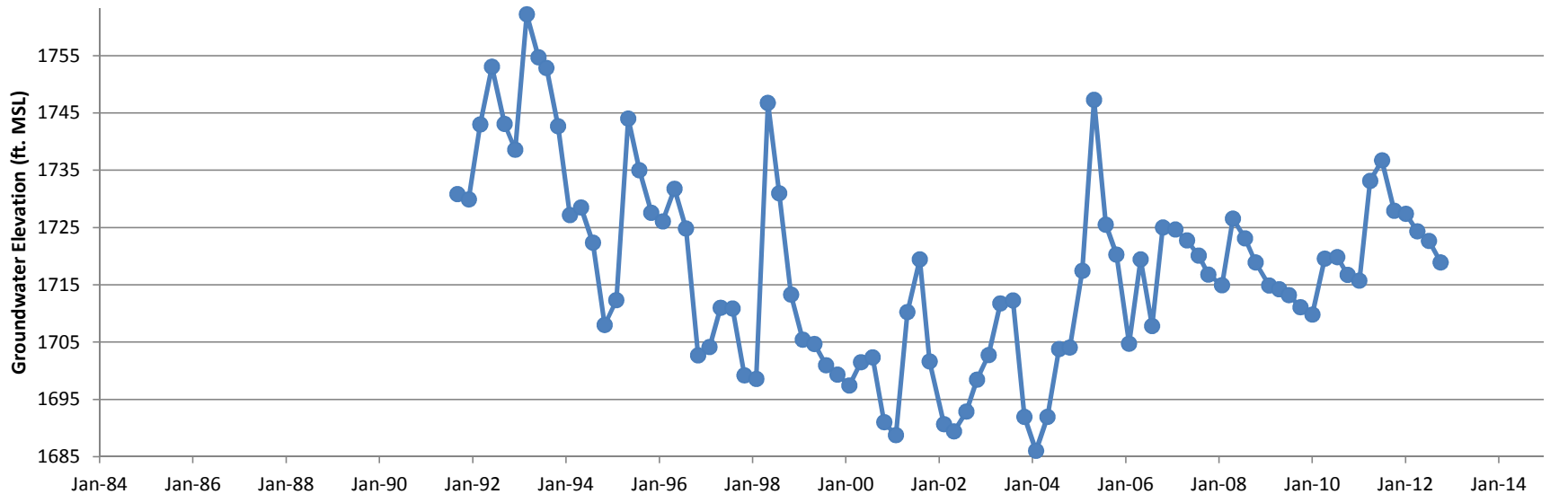
Hydrograph
Groundwater Monitoring Well RD-33C

● Groundwater Elevation ○ Dry ▲ Pumping



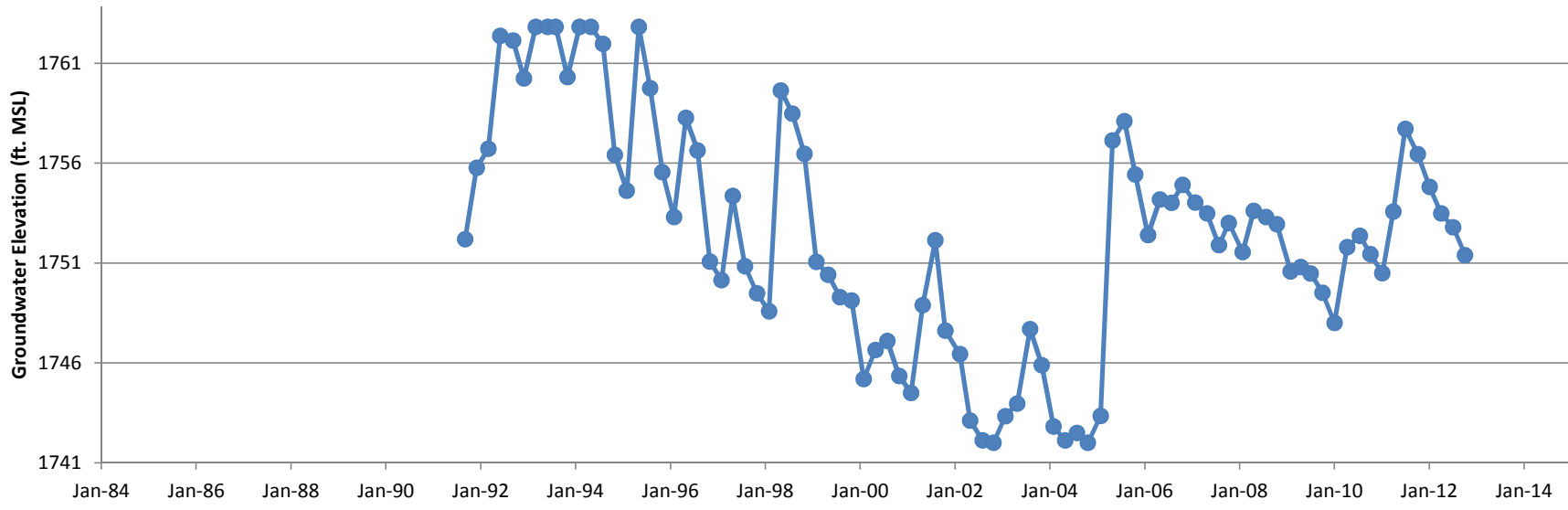
Hydrograph
Groundwater Monitoring Well RD-34A

● Groundwater Elevation
 Dry
 ▲ Pumping



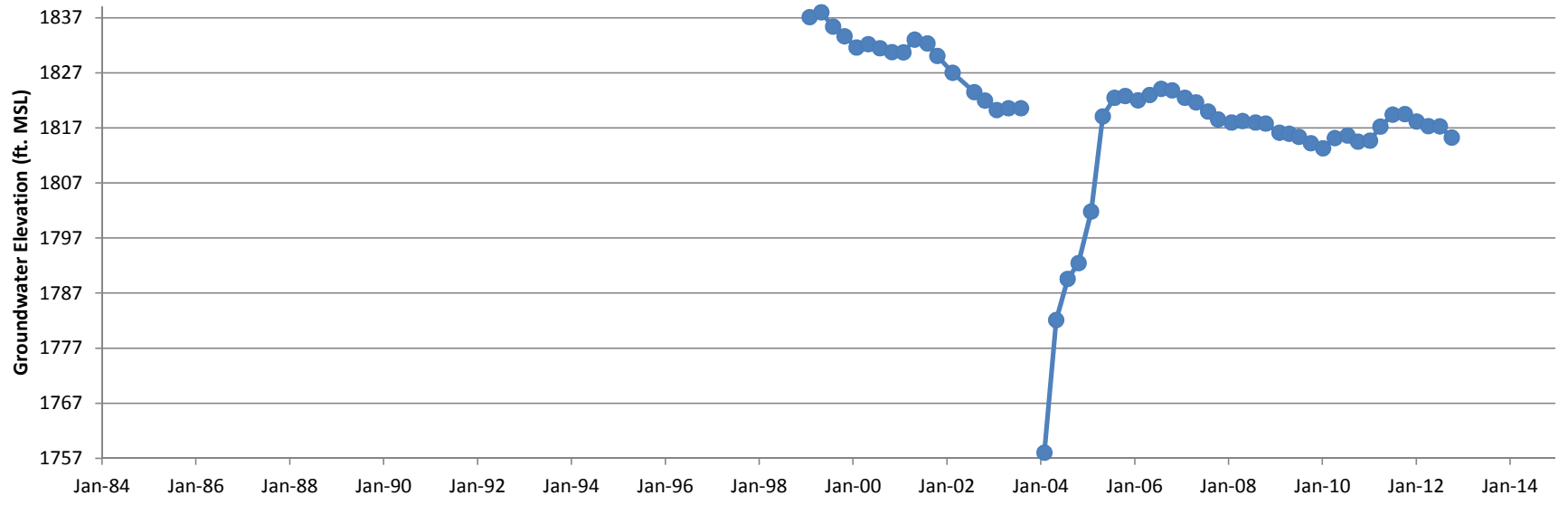
Hydrograph
Groundwater Monitoring Well RD-34B

—●— Groundwater Elevation ○ Dry ▲ Pumping



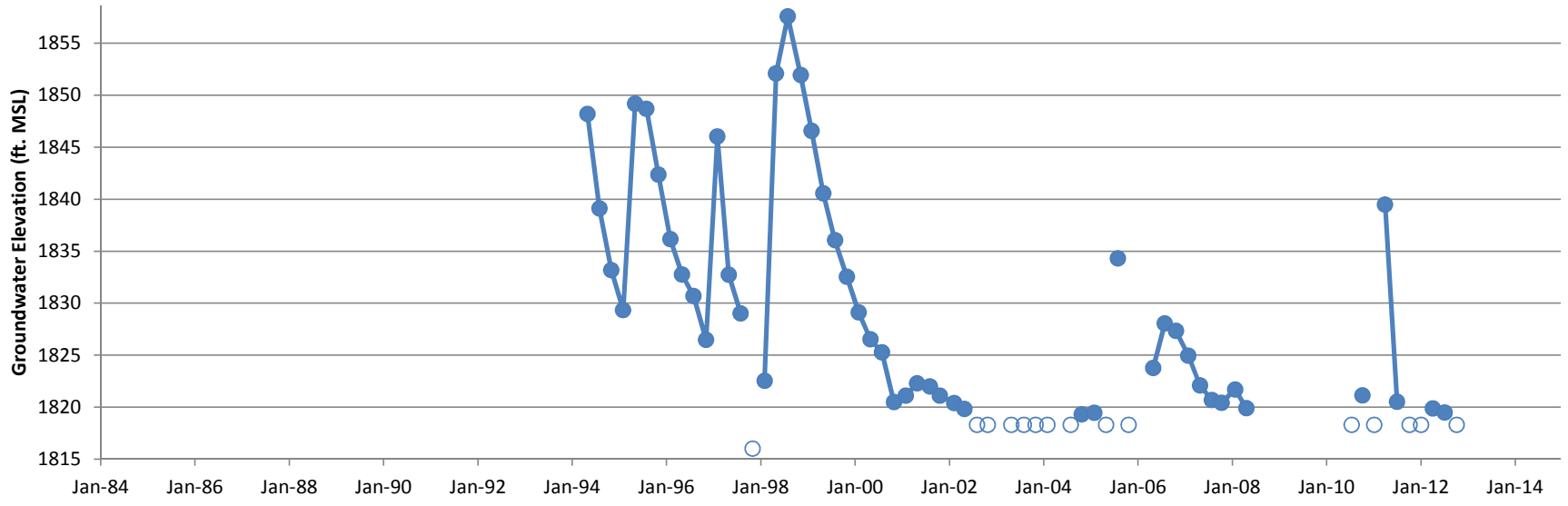
Hydrograph
Groundwater Monitoring Well RD-34C

● Groundwater Elevation ○ Dry ▲ Pumping



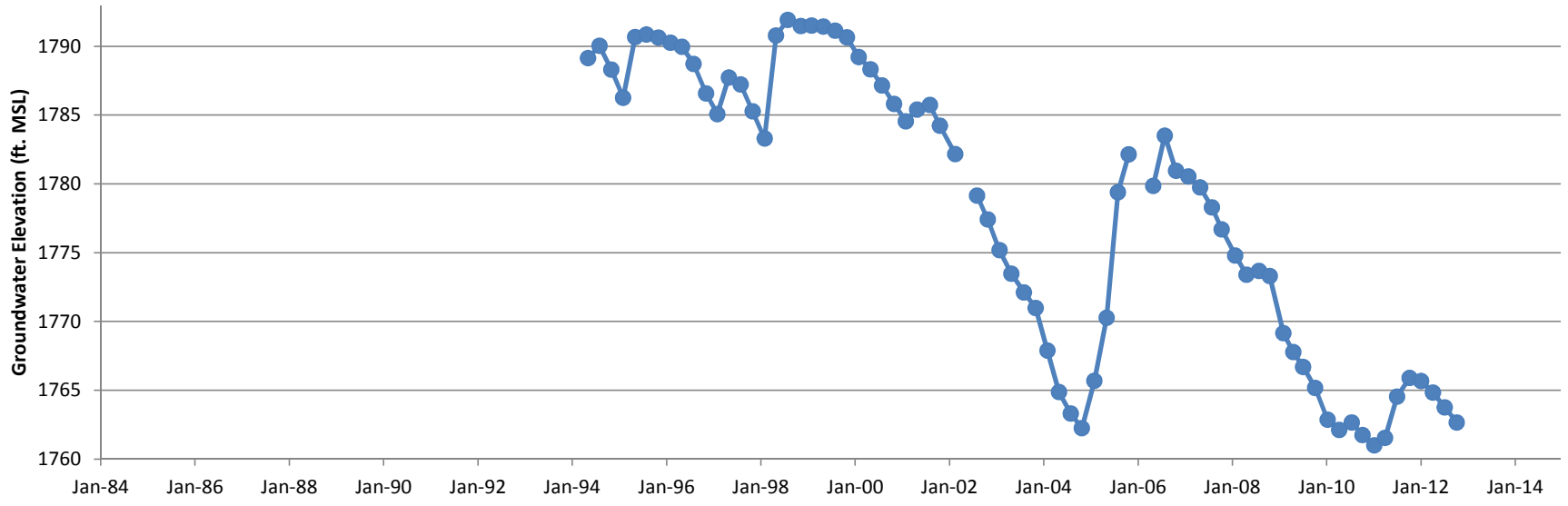
Hydrograph
Groundwater Monitoring Well RD-35B

Groundwater Elevation Dry Pumping



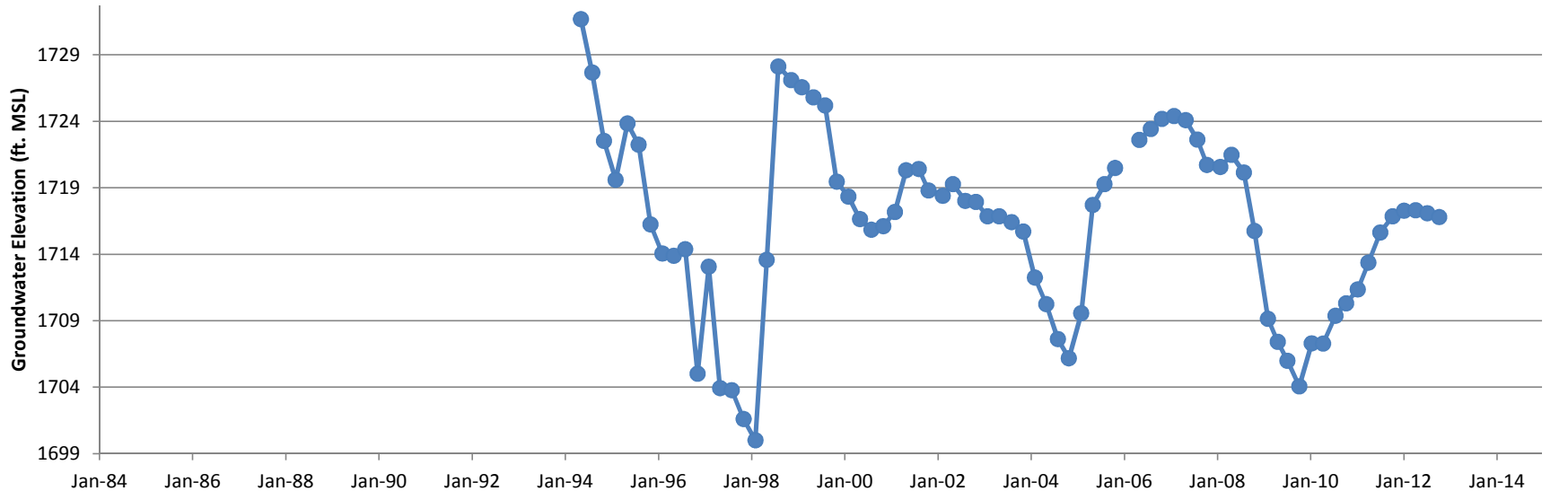
Hydrograph
Groundwater Monitoring Well RD-36A

● Groundwater Elevation
 ○ Dry
 ▲ Pumping



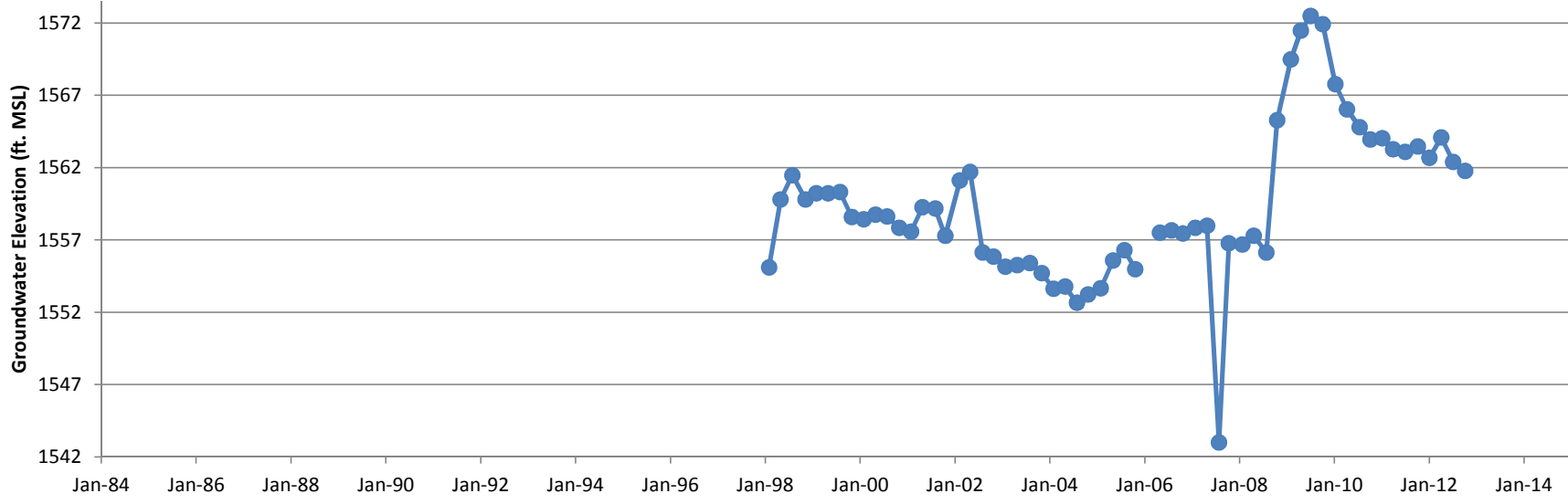
Hydrograph
Groundwater Monitoring Well RD-36B

● Groundwater Elevation ○ Dry ▲ Pumping



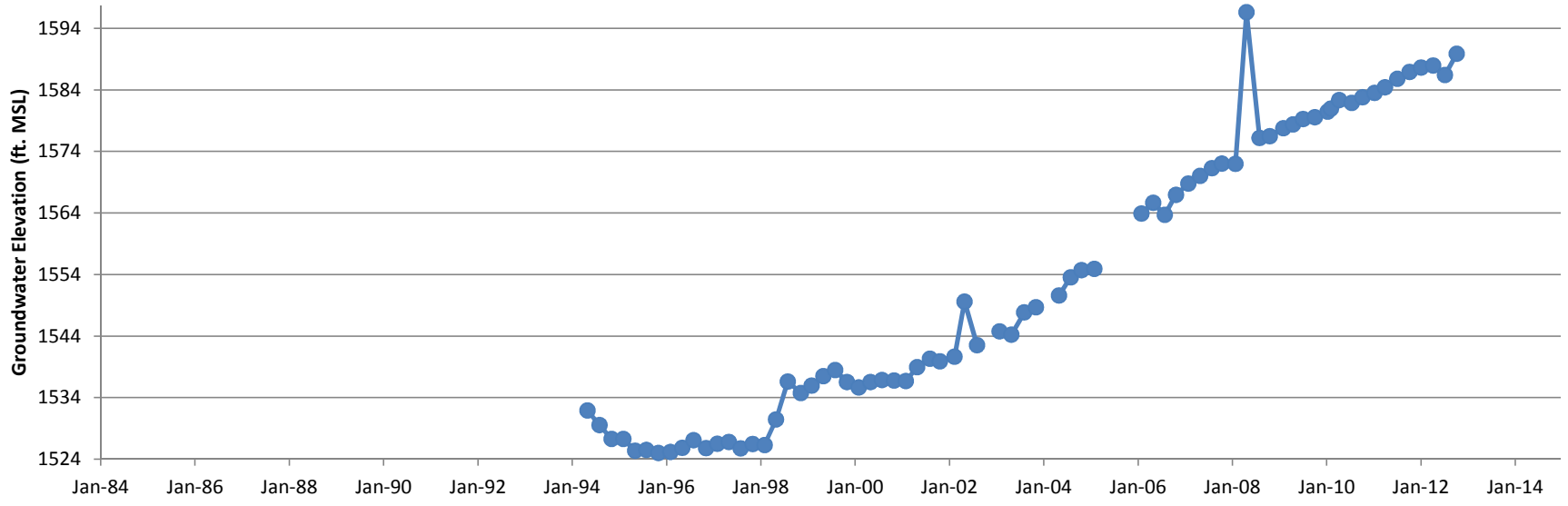
Hydrograph
Groundwater Monitoring Well RD-36C

● Groundwater Elevation ○ Dry ▲ Pumping



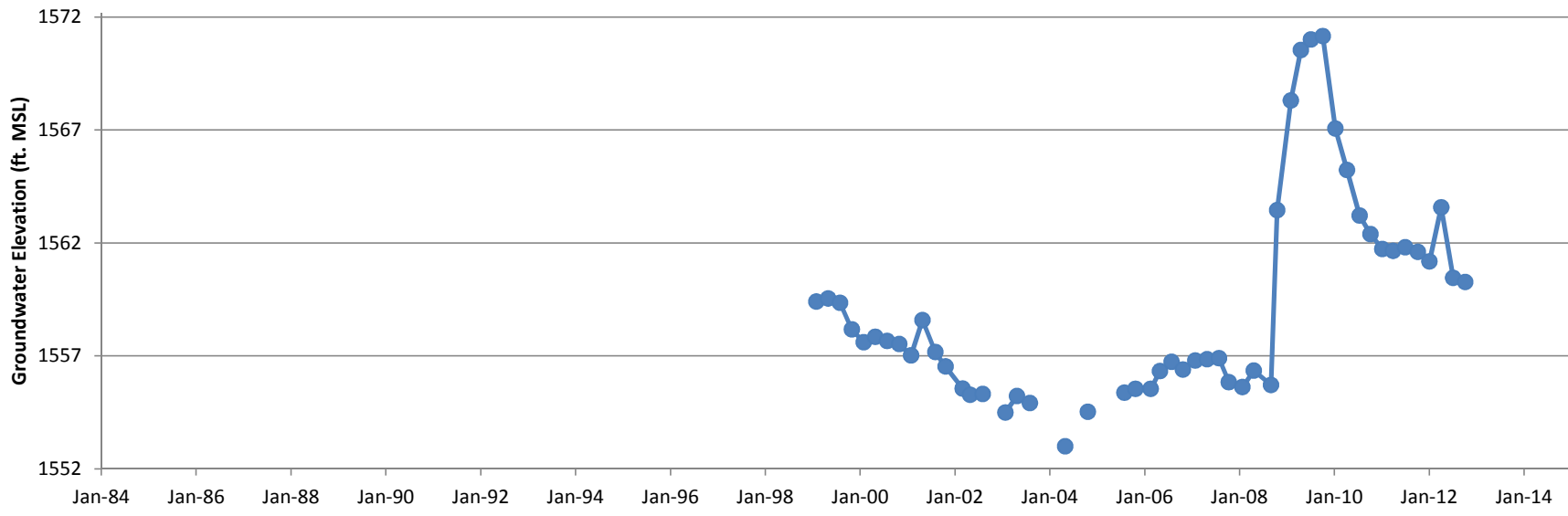
Hydrograph
Groundwater Monitoring Well RD-36D

● Groundwater Elevation ○ Dry ▲ Pumping



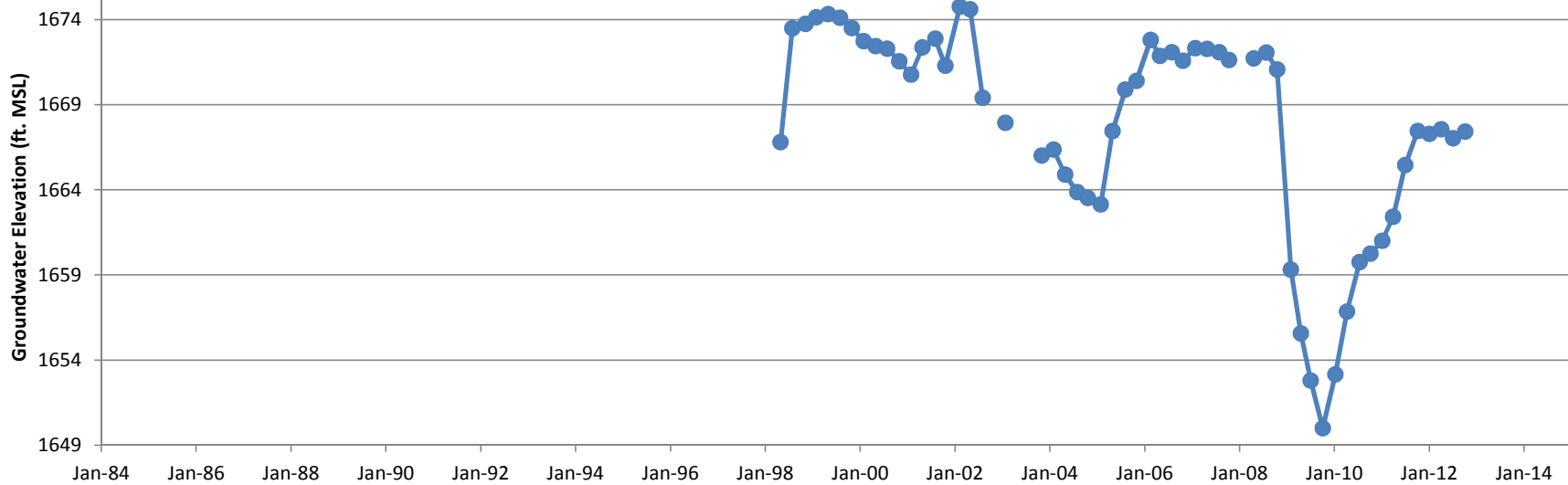
Hydrograph
Groundwater Monitoring Well RD-37

● Groundwater Elevation ○ Dry ▲ Pumping



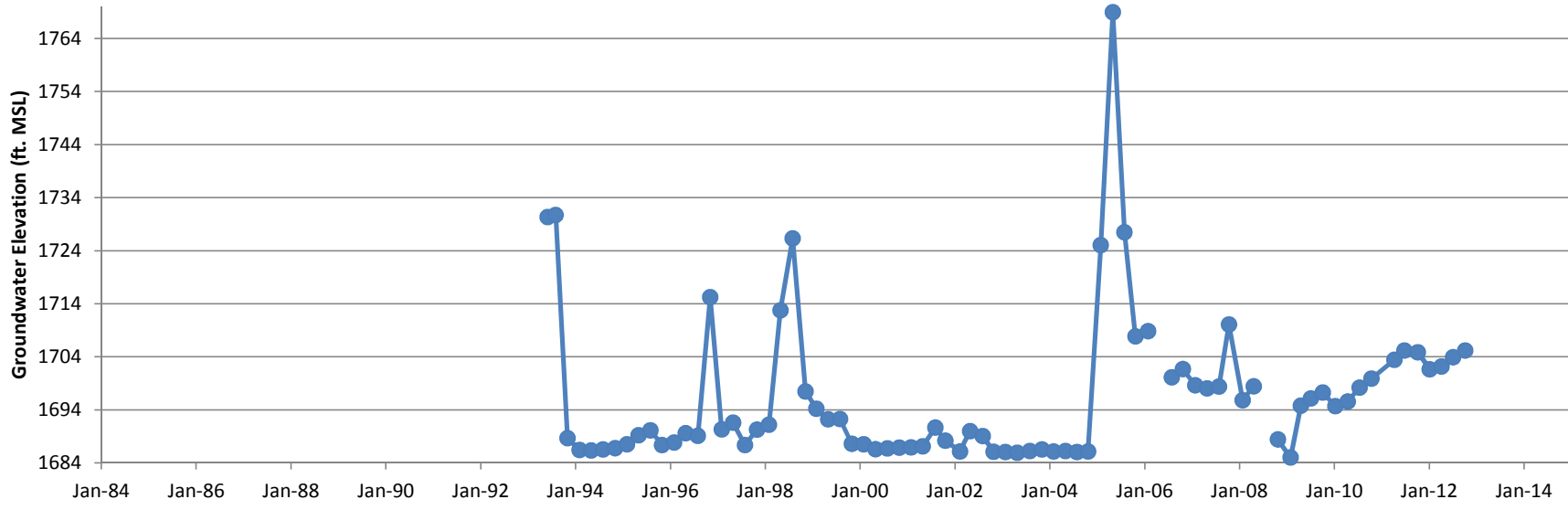
Hydrograph
Groundwater Monitoring Well RD-38B

● Groundwater Elevation ○ Dry ▲ Pumping



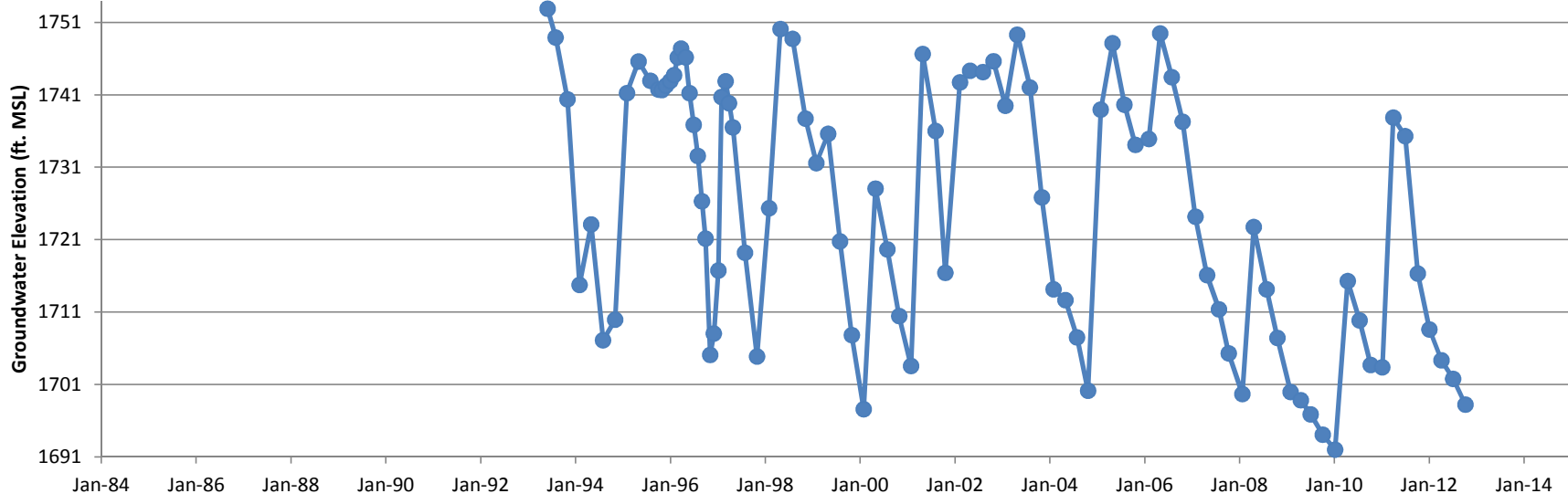
Hydrograph
Groundwater Monitoring Well RD-39B

● Groundwater Elevation ○ Dry ▲ Pumping



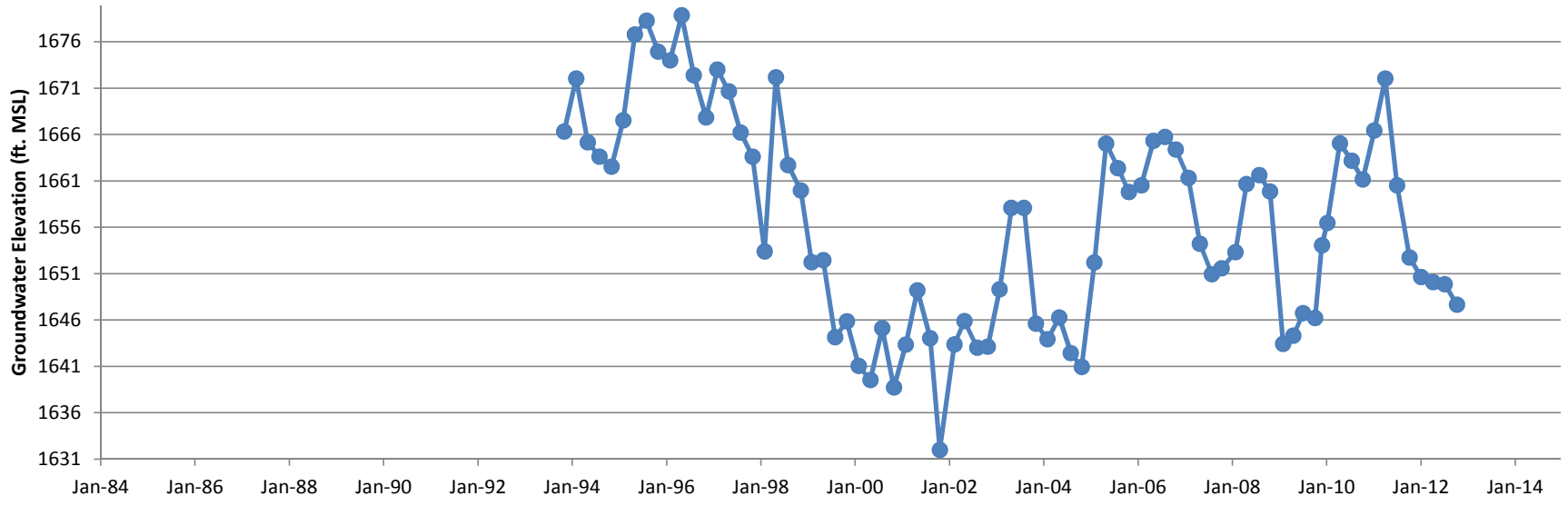
Hydrograph
Groundwater Monitoring Well RD-40

—●— Groundwater Elevation ○ Dry ▲ Pumping



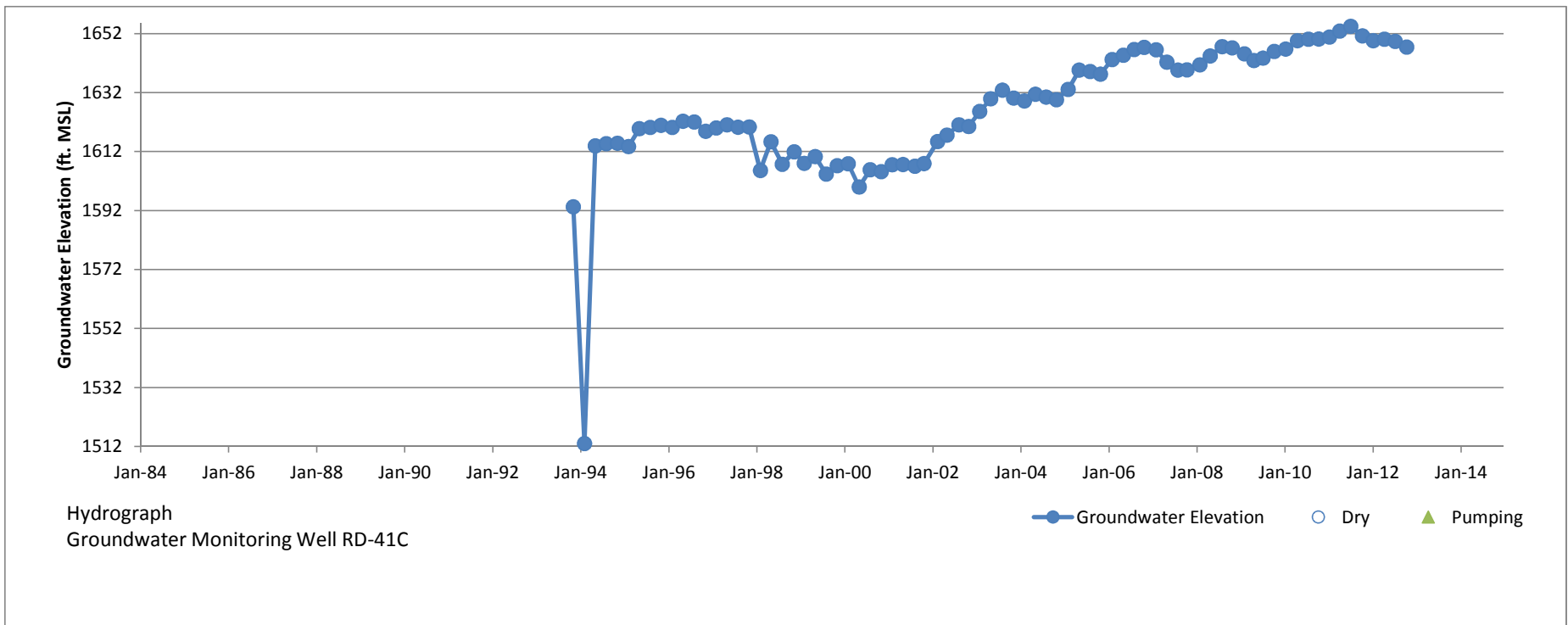
Hydrograph
Groundwater Monitoring Well RD-41A

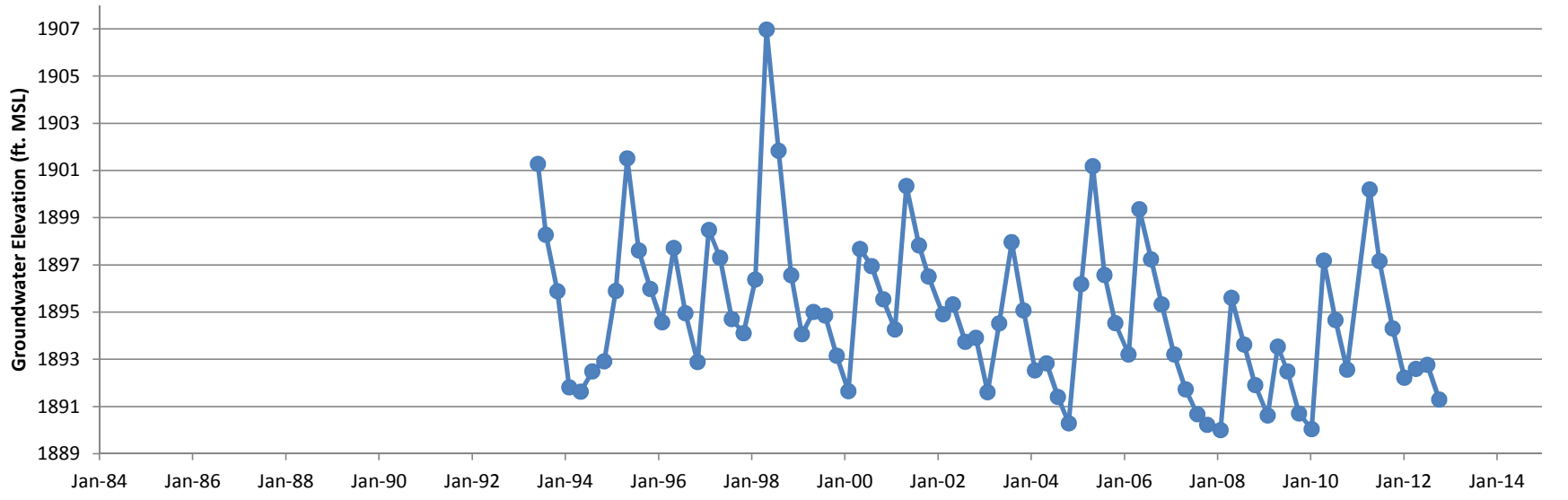
—●— Groundwater Elevation ○ Dry ▲ Pumping



Hydrograph
Groundwater Monitoring Well RD-41B

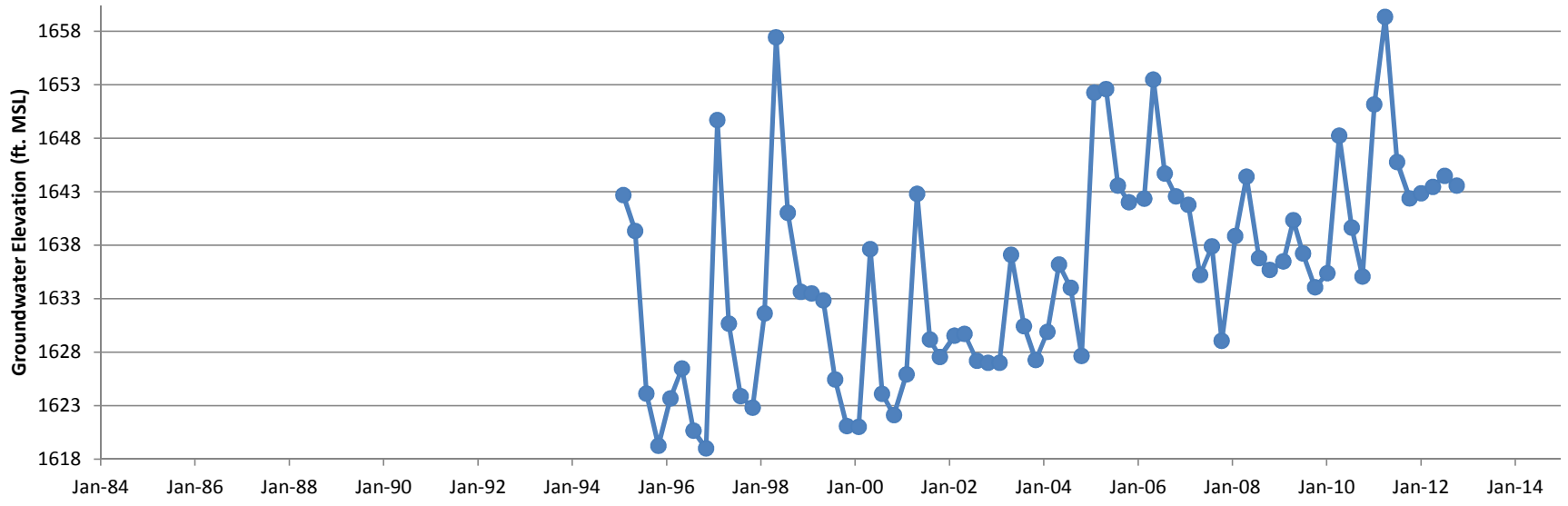
● Groundwater Elevation
 ○ Dry
 ▲ Pumping





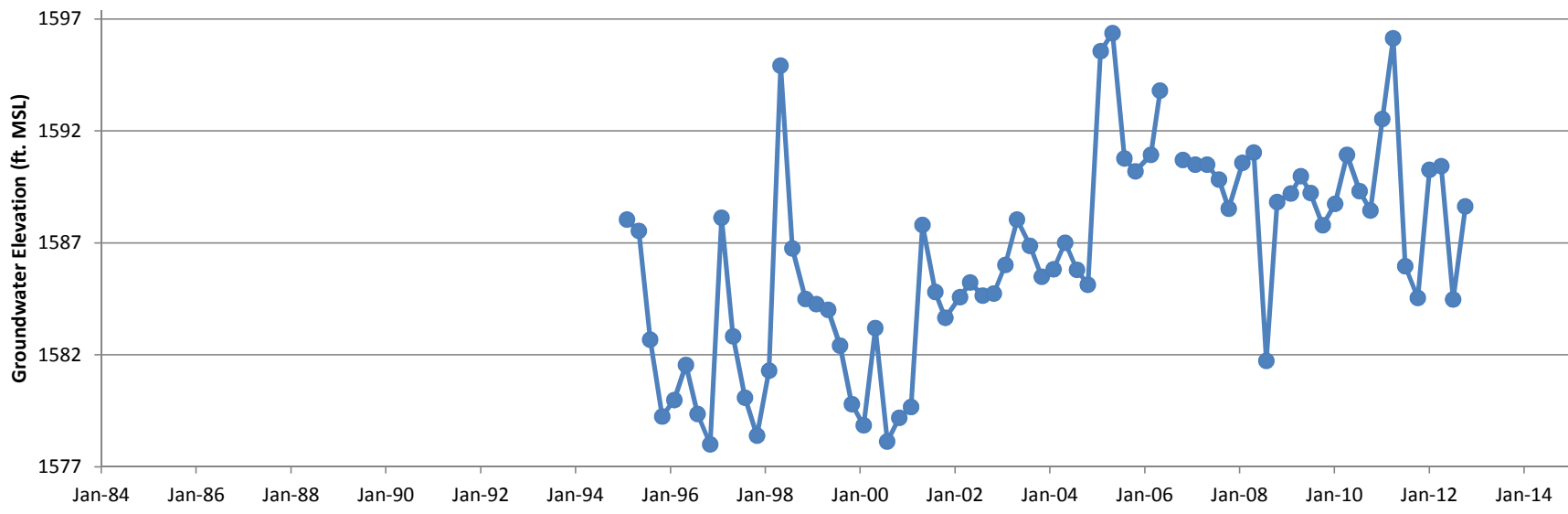
Hydrograph
Groundwater Monitoring Well RD-42

—●— Groundwater Elevation
 ○ Dry
 ▲ Pumping



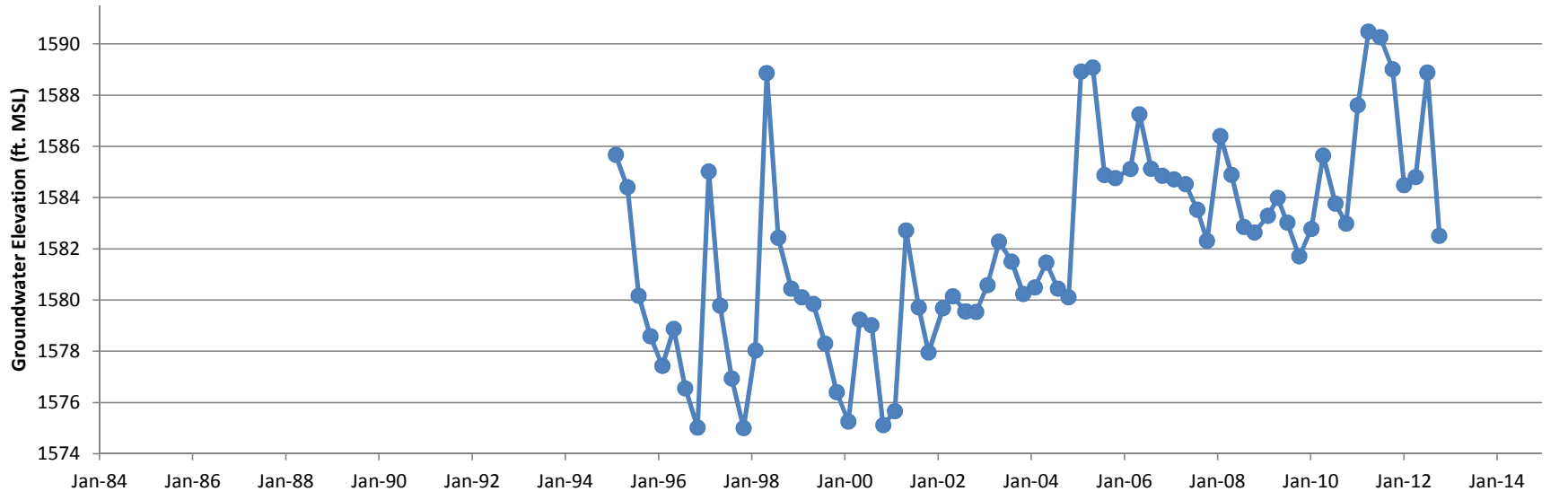
Hydrograph
Groundwater Monitoring Well RD-43A

● Groundwater Elevation ○ Dry ▲ Pumping



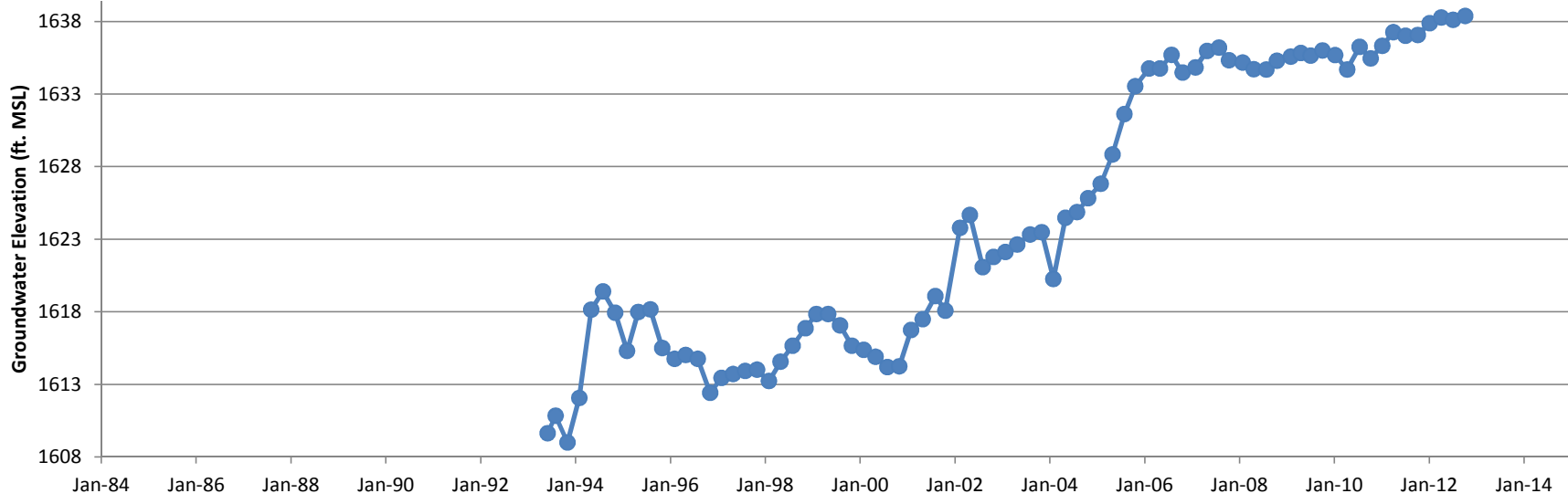
Hydrograph
Groundwater Monitoring Well RD-43B

● Groundwater Elevation
 ○ Dry
 ▲ Pumping



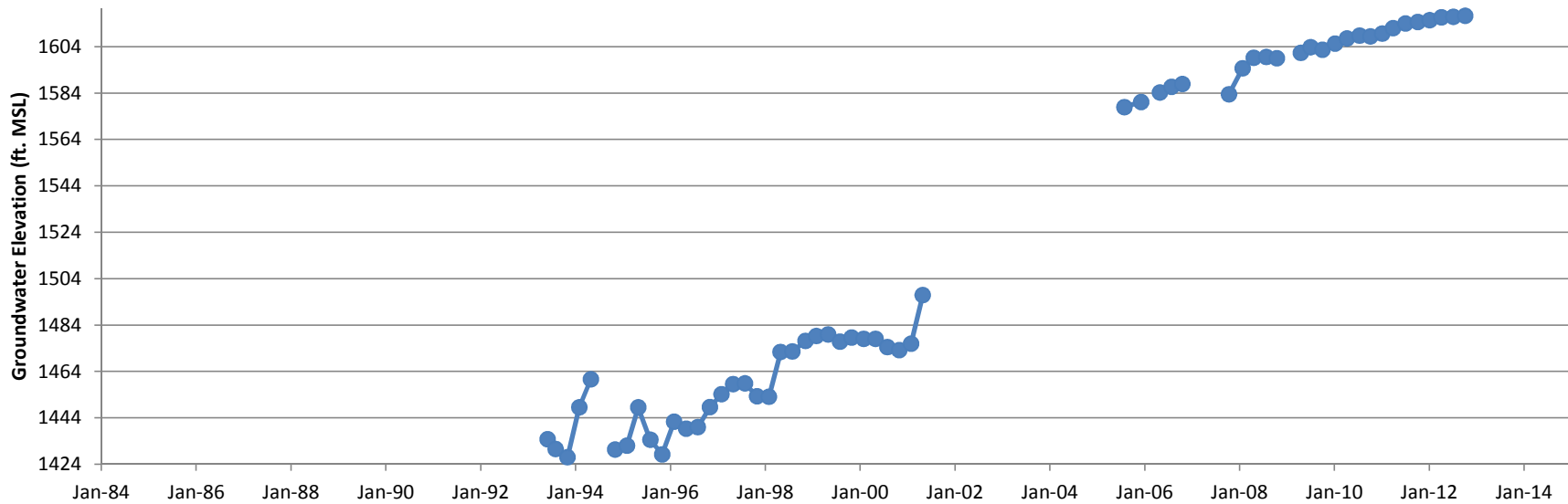
Hydrograph
Groundwater Monitoring Well RD-43C

● Groundwater Elevation ○ Dry ▲ Pumping



Hydrograph
Groundwater Monitoring Well RD-44

- Groundwater Elevation
- Dry
- Pumping

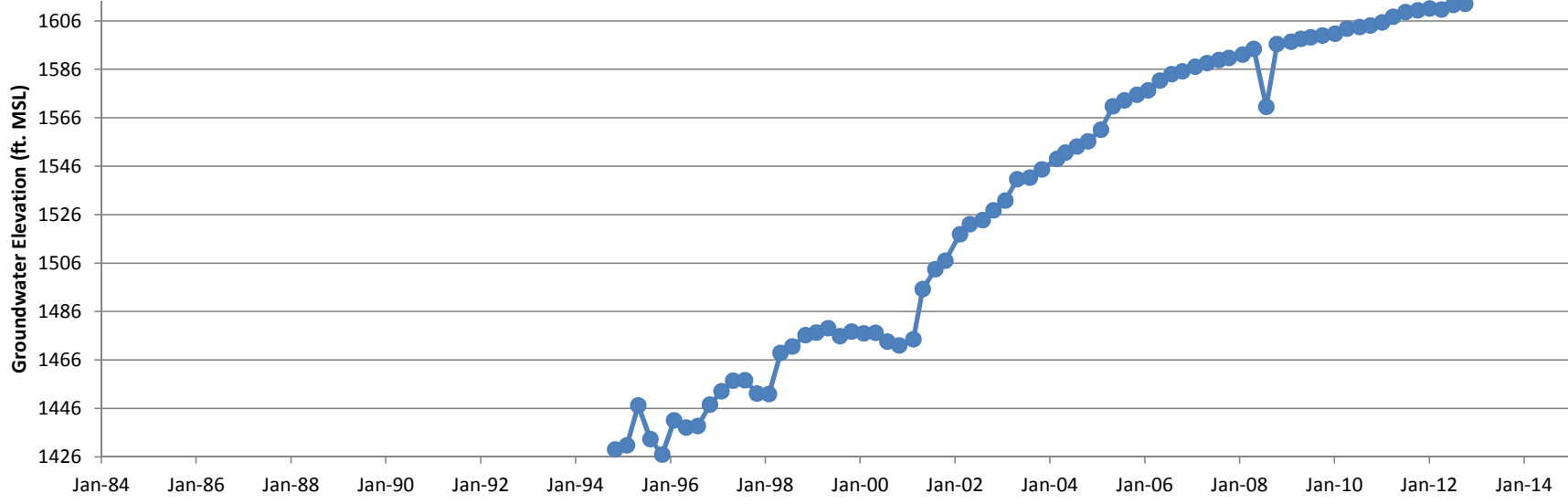


Hydrograph

Groundwater Monitoring Well RD-45A

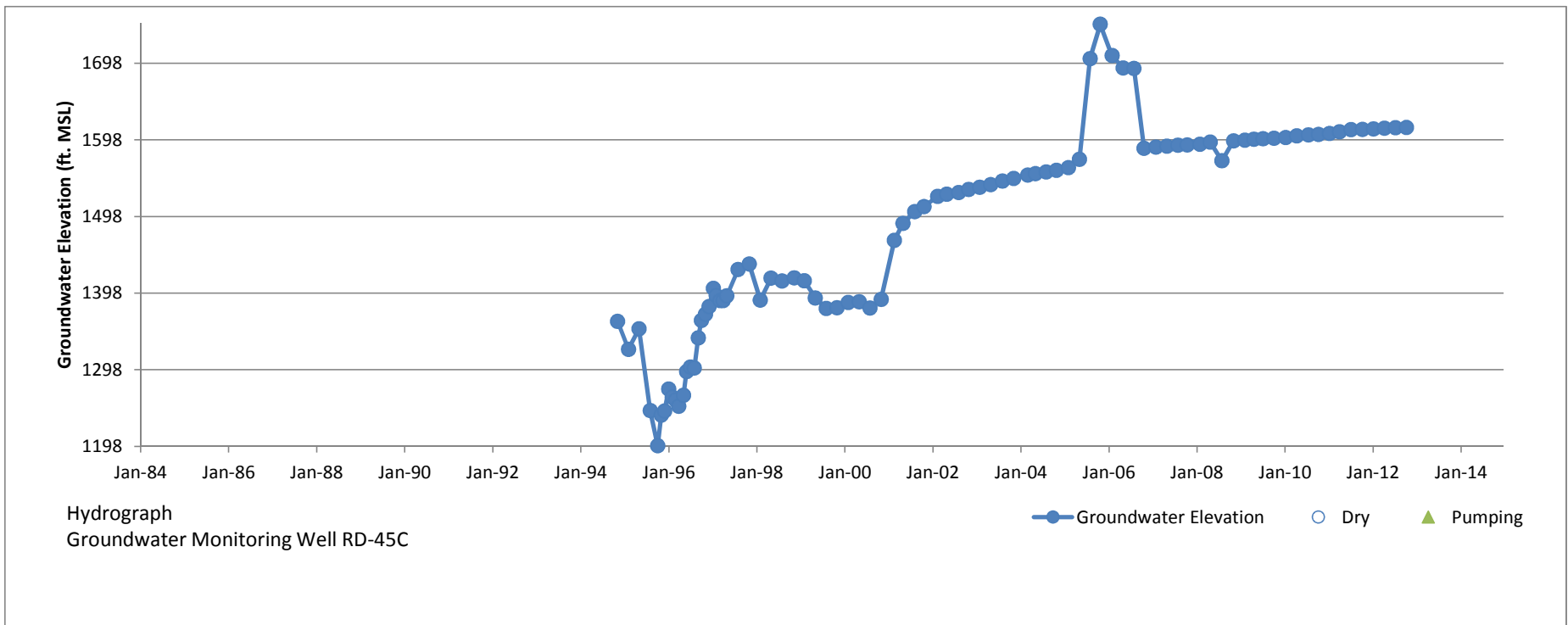
FLUTE installed in well 05/25/01 through 09/09/02. Borehole collapse following FLUTE removal has created obstructions that periodically interfere with quarterly water level measurement.

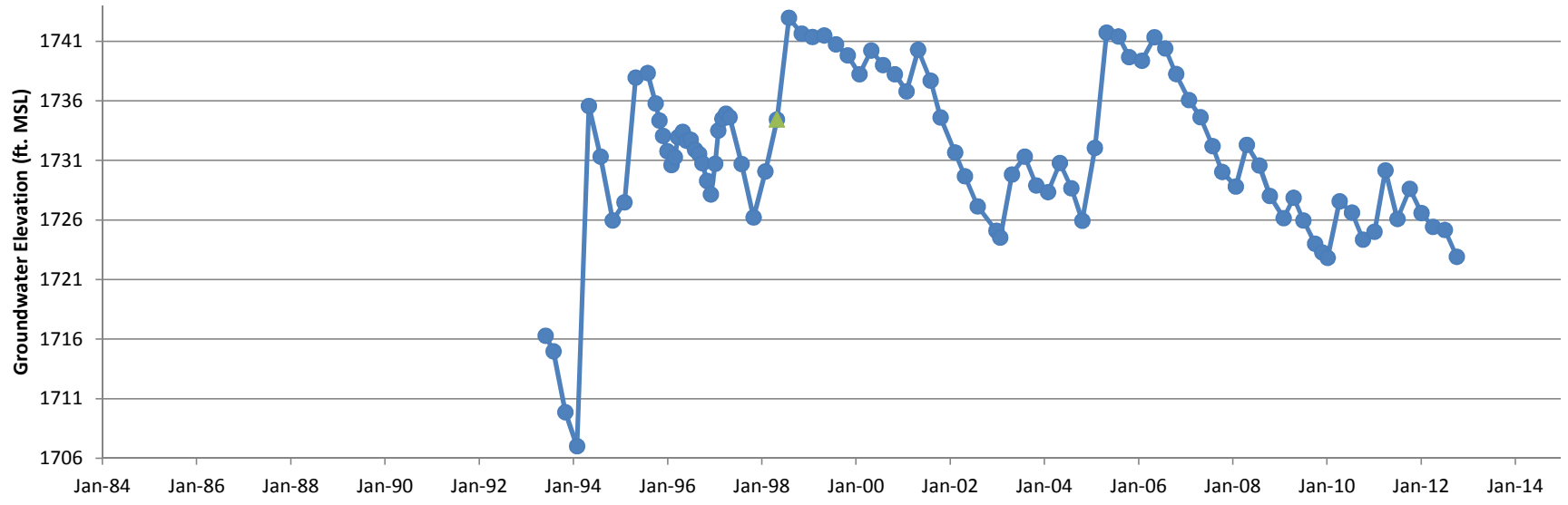
● Groundwater Elevation
 ○ Dry
 ▲ Pumping



Hydrograph
Groundwater Monitoring Well RD-45B

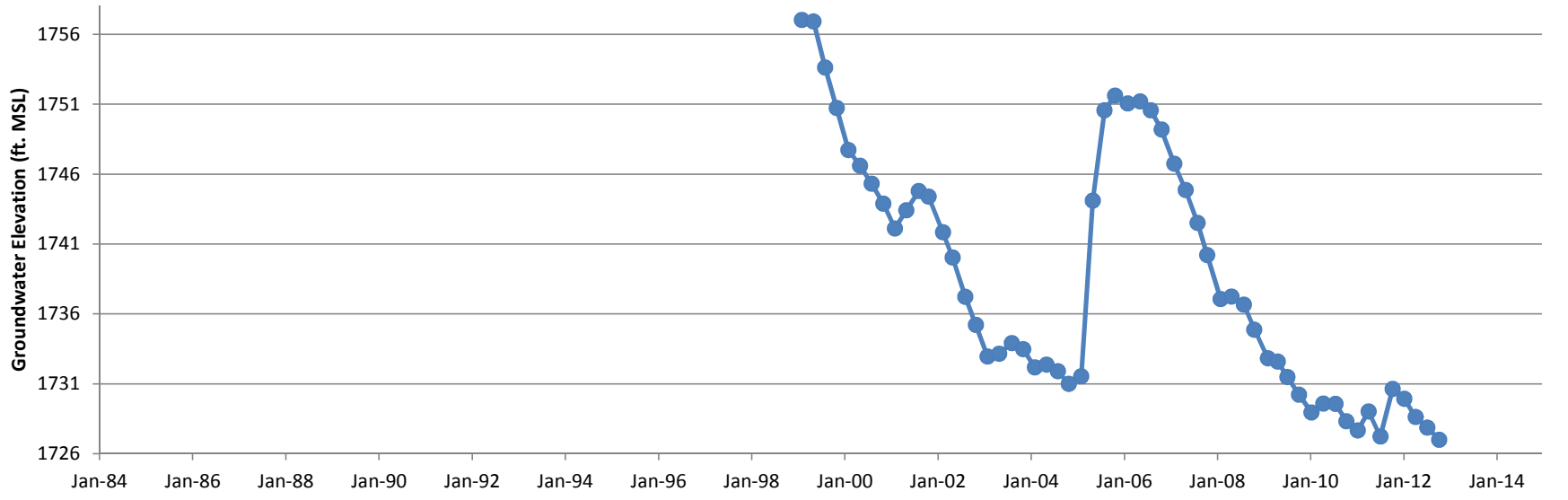
● Groundwater Elevation ○ Dry ▲ Pumping





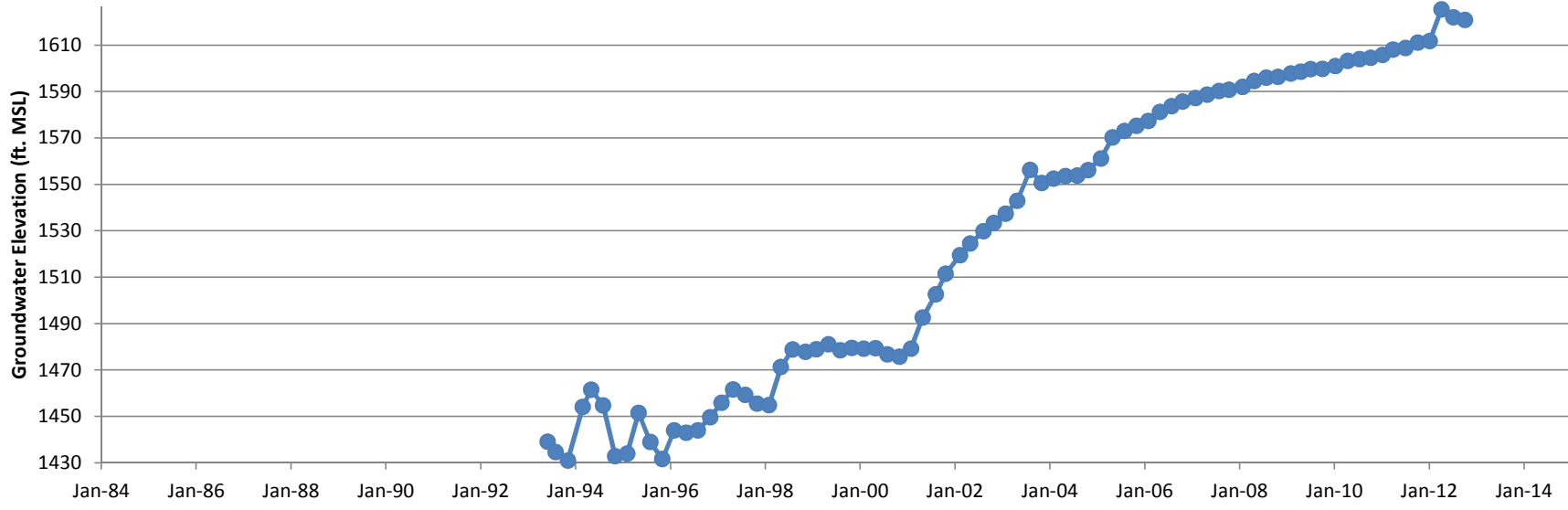
Hydrograph
Groundwater Monitoring Well RD-46A

● Groundwater Elevation ○ Dry ▲ Pumping



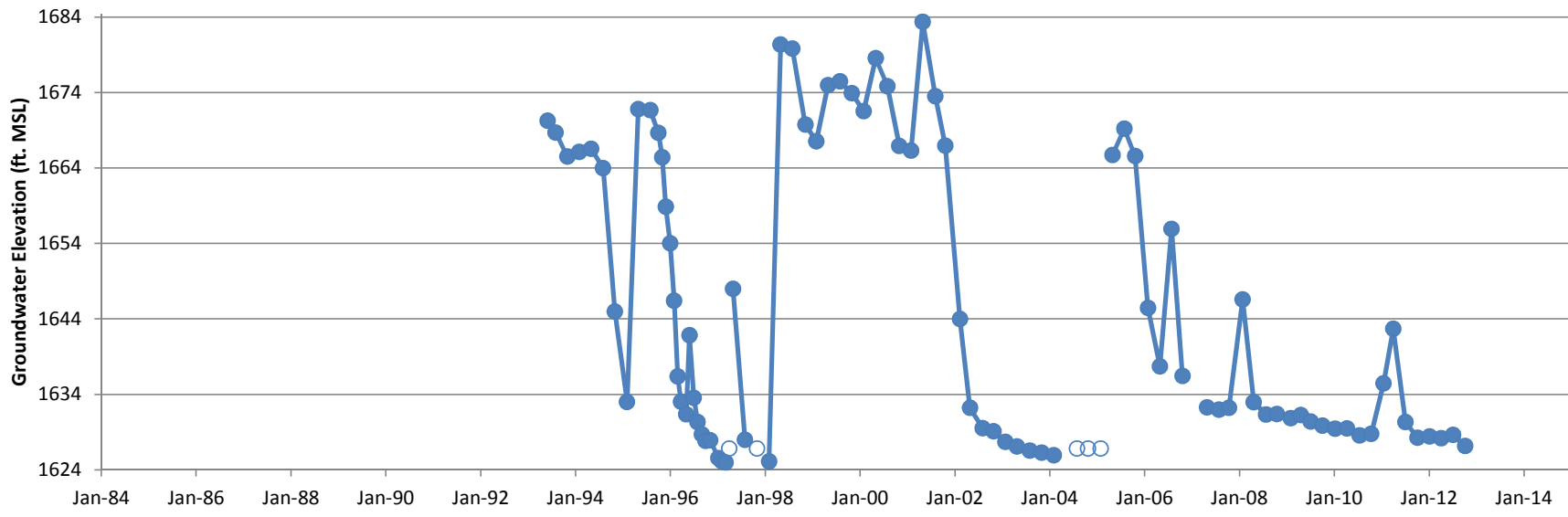
Hydrograph
Groundwater Monitoring Well RD-46B

● Groundwater Elevation ○ Dry ▲ Pumping



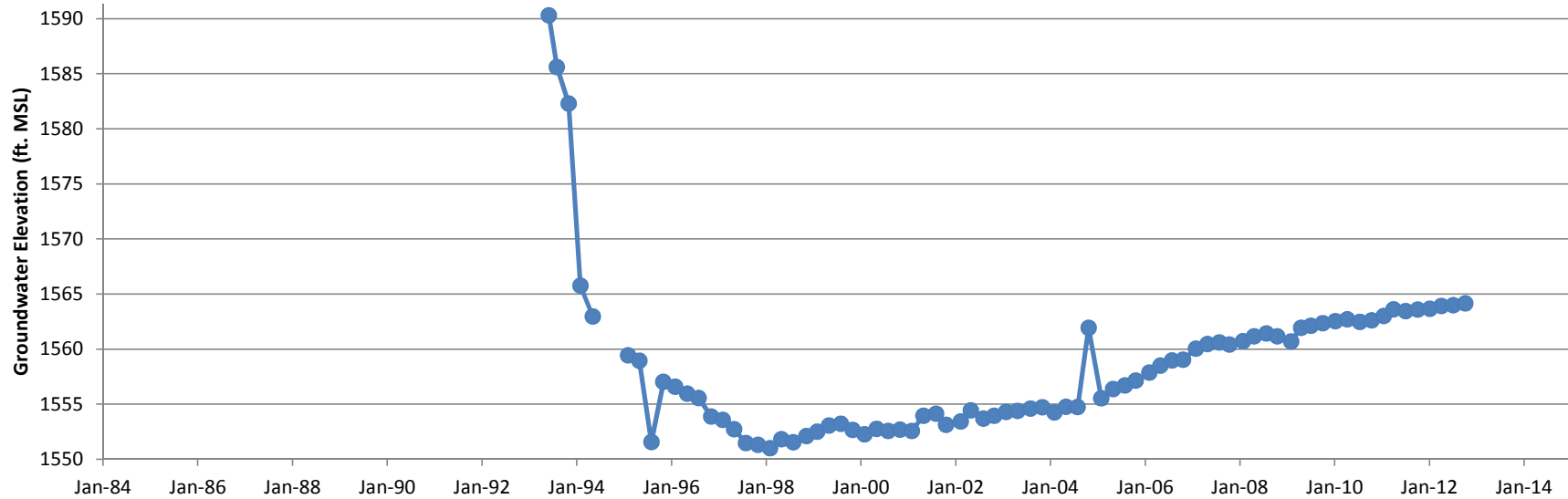
Hydrograph
Groundwater Monitoring Well RD-47

—●— Groundwater Elevation ○ Dry ▲ Pumping



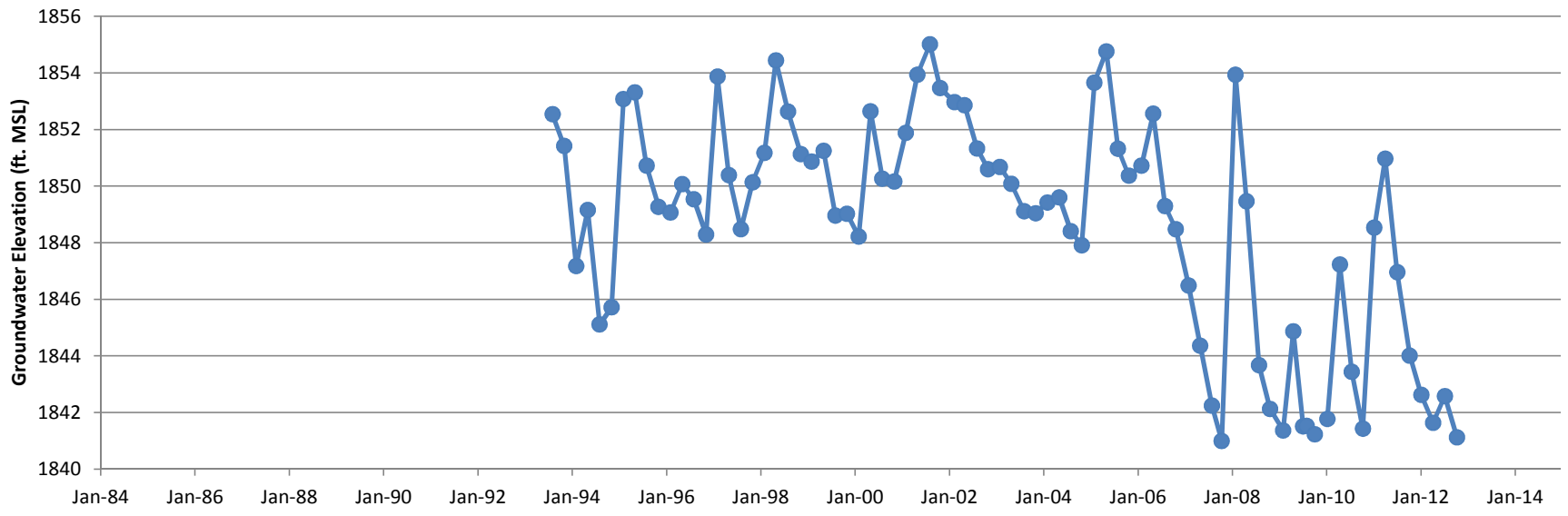
Hydrograph
Groundwater Monitoring Well RD-48A

● Groundwater Elevation ○ Dry ▲ Pumping



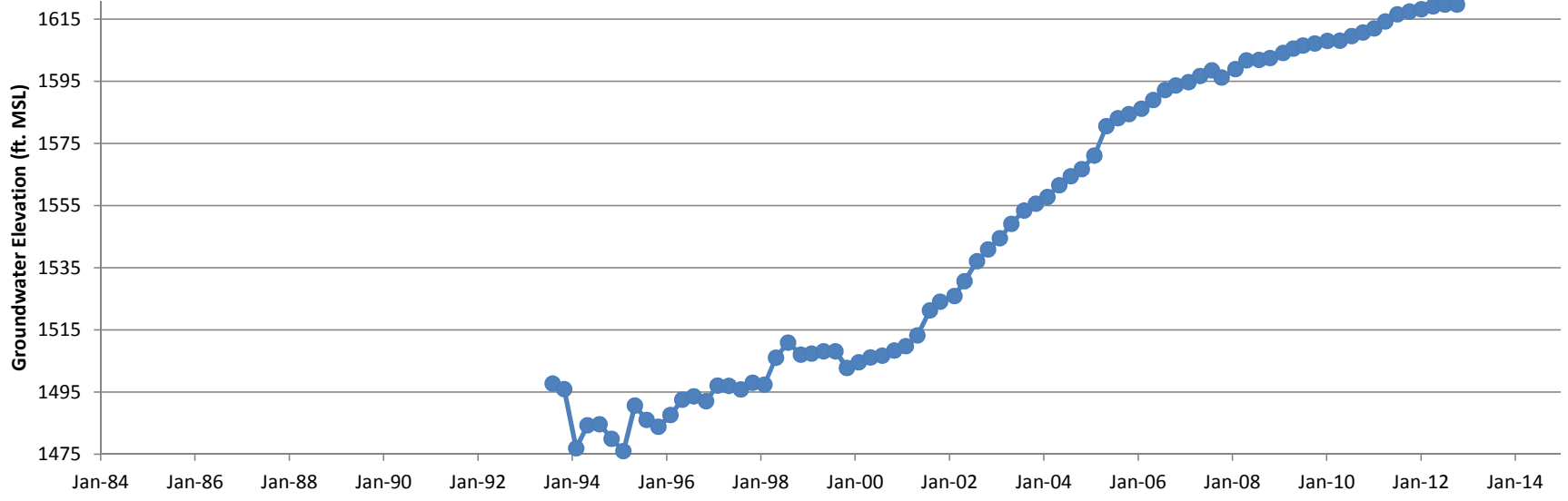
Hydrograph
Groundwater Monitoring Well RD-48C

● Groundwater Elevation
 ○ Dry
 ▲ Pumping



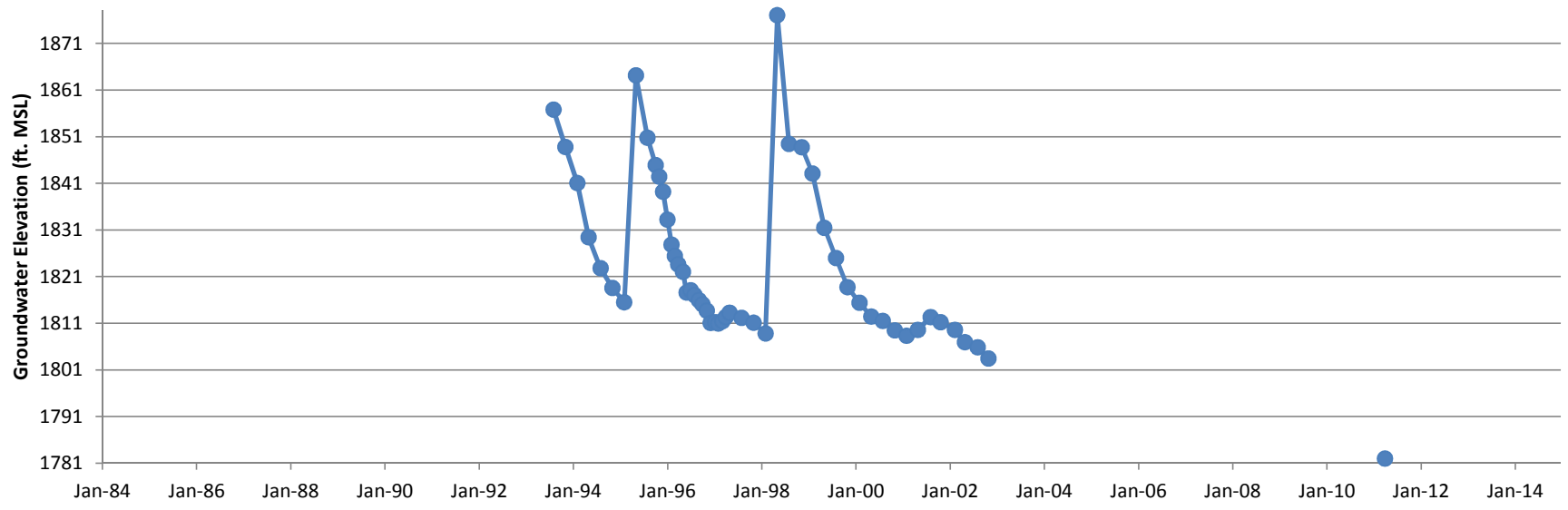
Hydrograph
Groundwater Monitoring Well RD-49A

—●— Groundwater Elevation ○ Dry ▲ Pumping



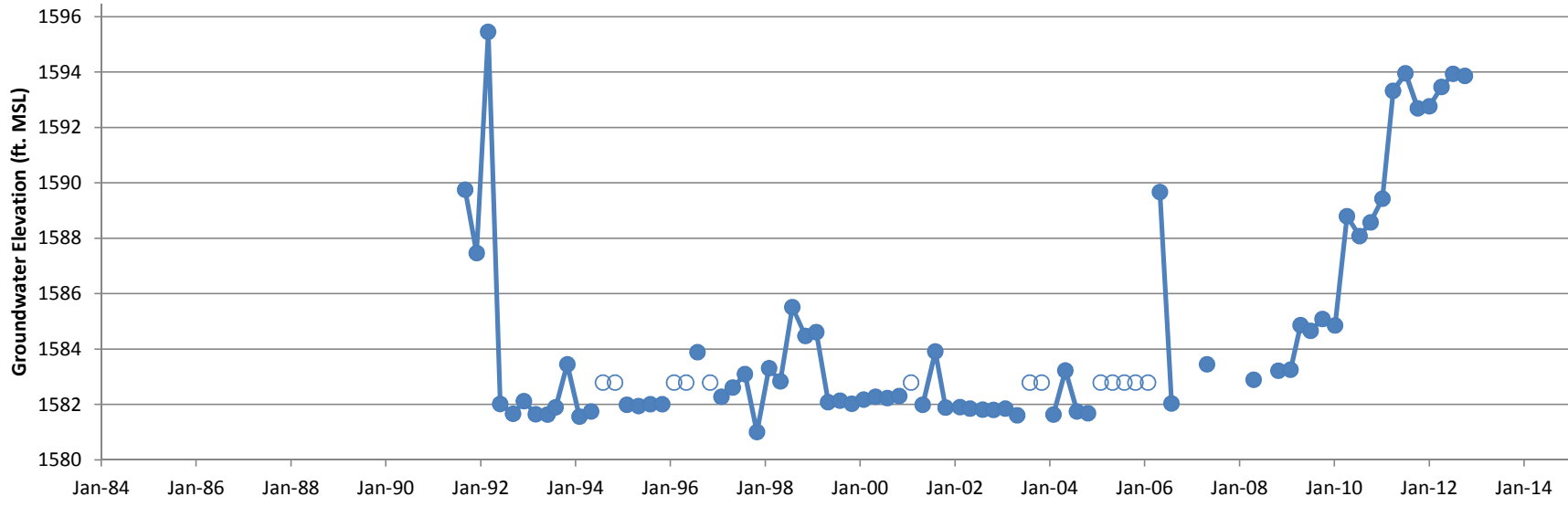
Hydrograph
Groundwater Monitoring Well RD-49C

● Groundwater Elevation ○ Dry ▲ Pumping



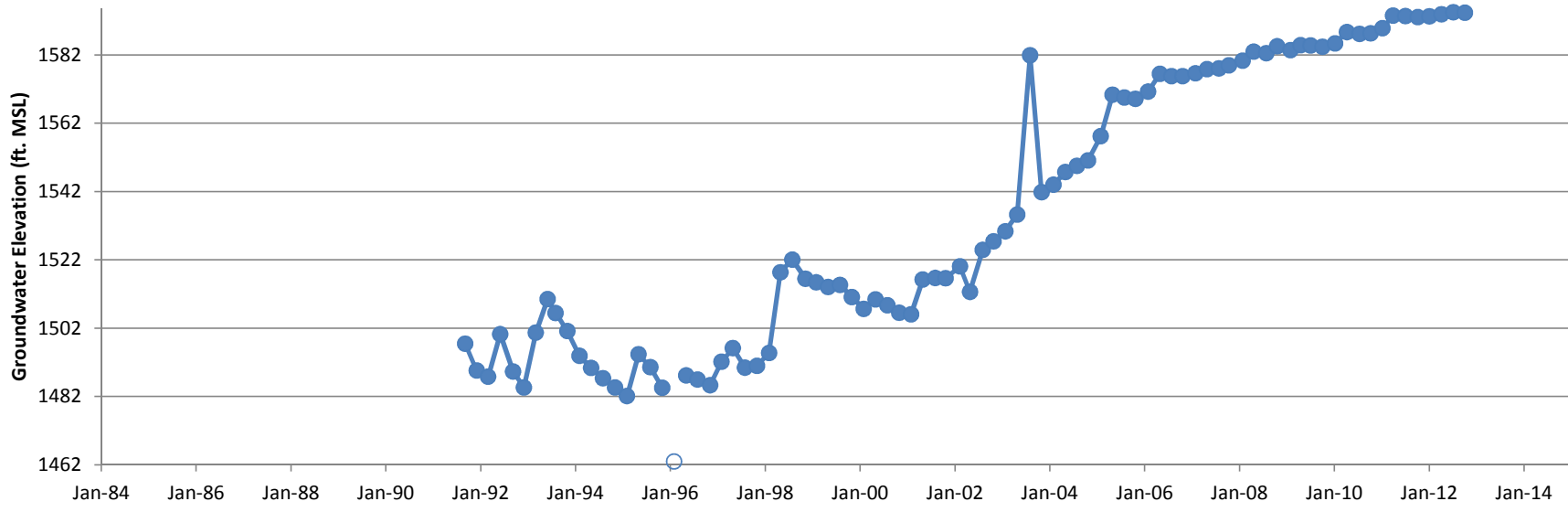
Hydrograph
Groundwater Monitoring Well RD-50
FLUTe installed in well on 01/15/03.

● Groundwater Elevation ○ Dry ▲ Pumping



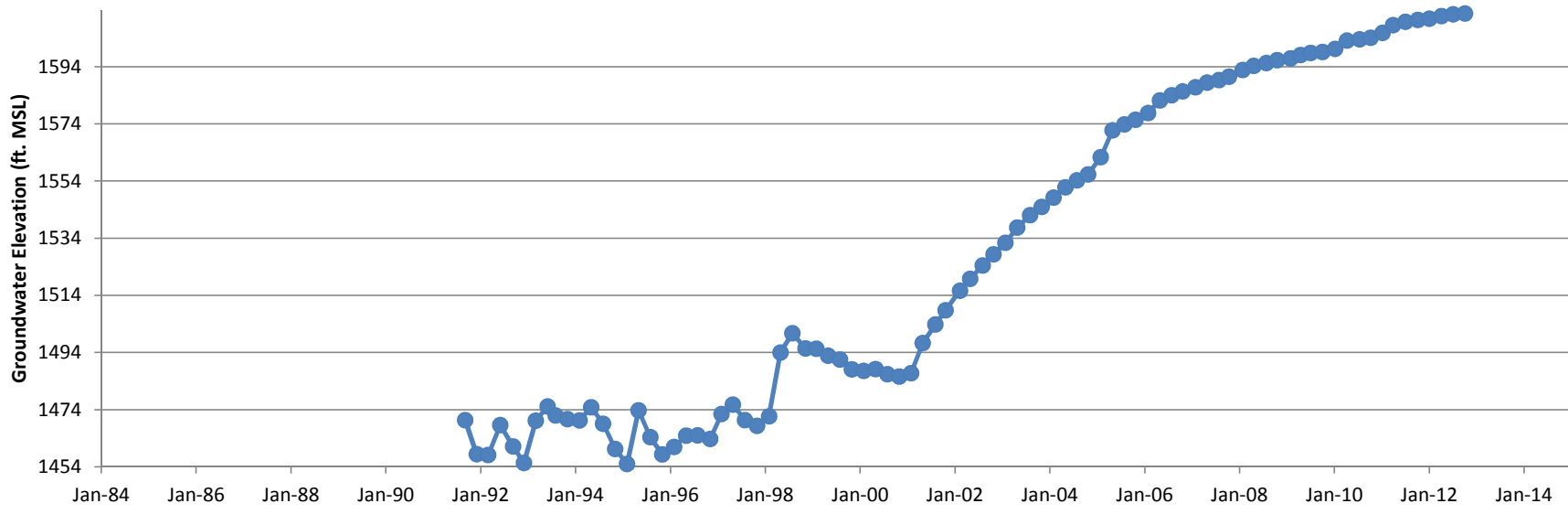
Hydrograph
Groundwater Monitoring Well RD-51A

—●— Groundwater Elevation
 ○ Dry
 ▲ Pumping



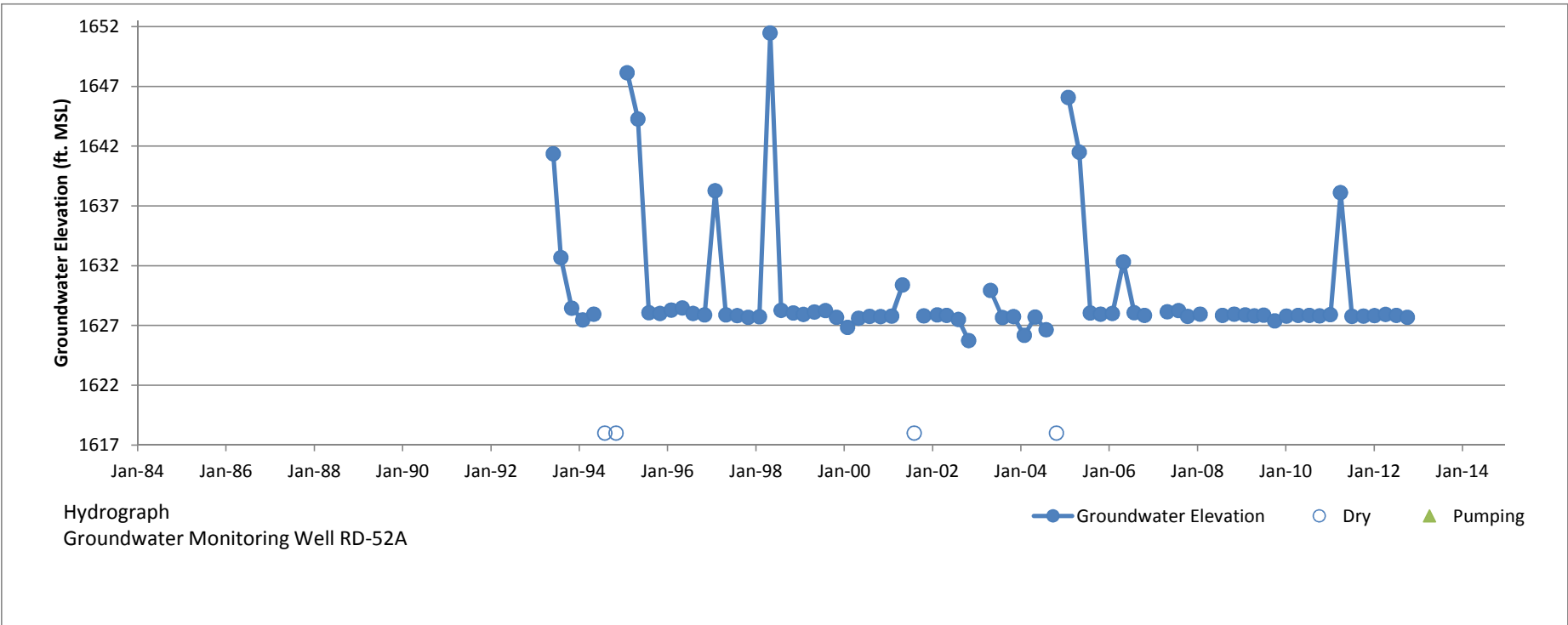
Hydrograph
Groundwater Monitoring Well RD-51B

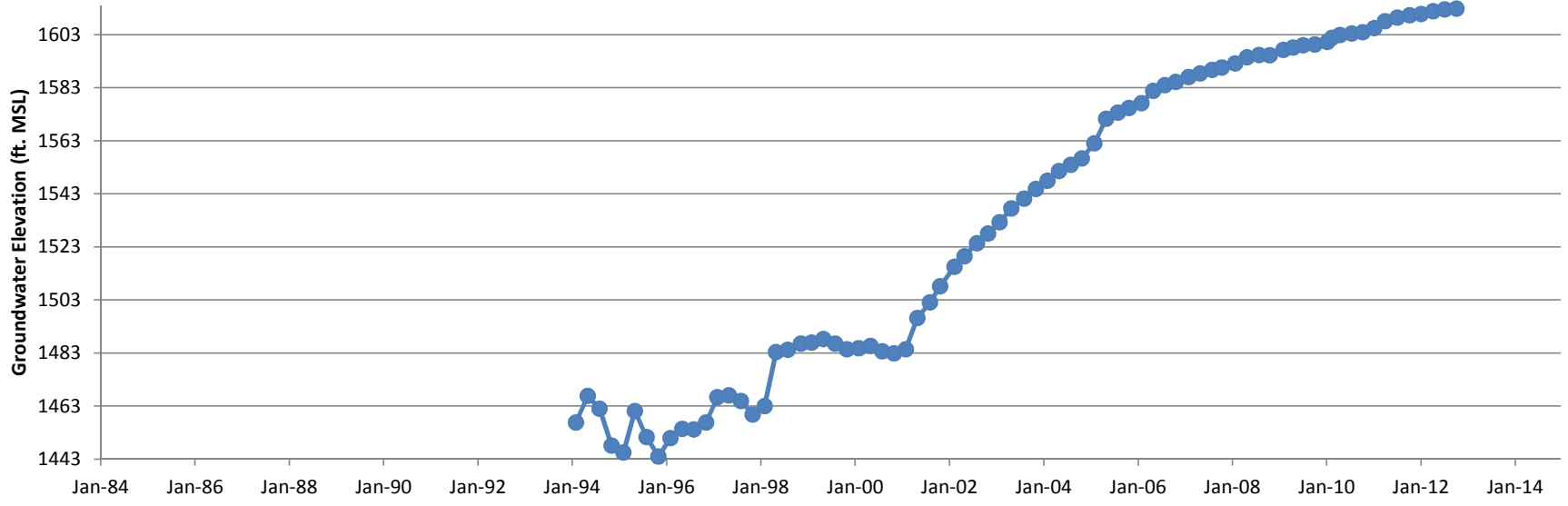
—●— Groundwater Elevation ○ Dry ▲ Pumping



Hydrograph
Groundwater Monitoring Well RD-51C

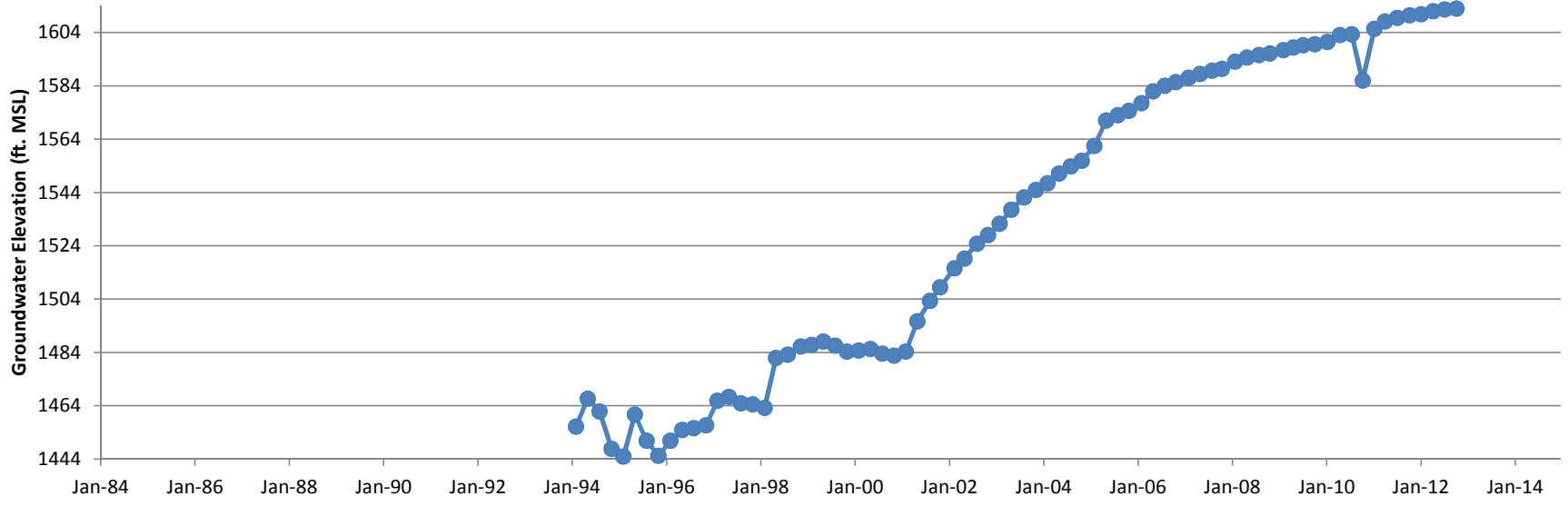
● Groundwater Elevation ○ Dry ▲ Pumping





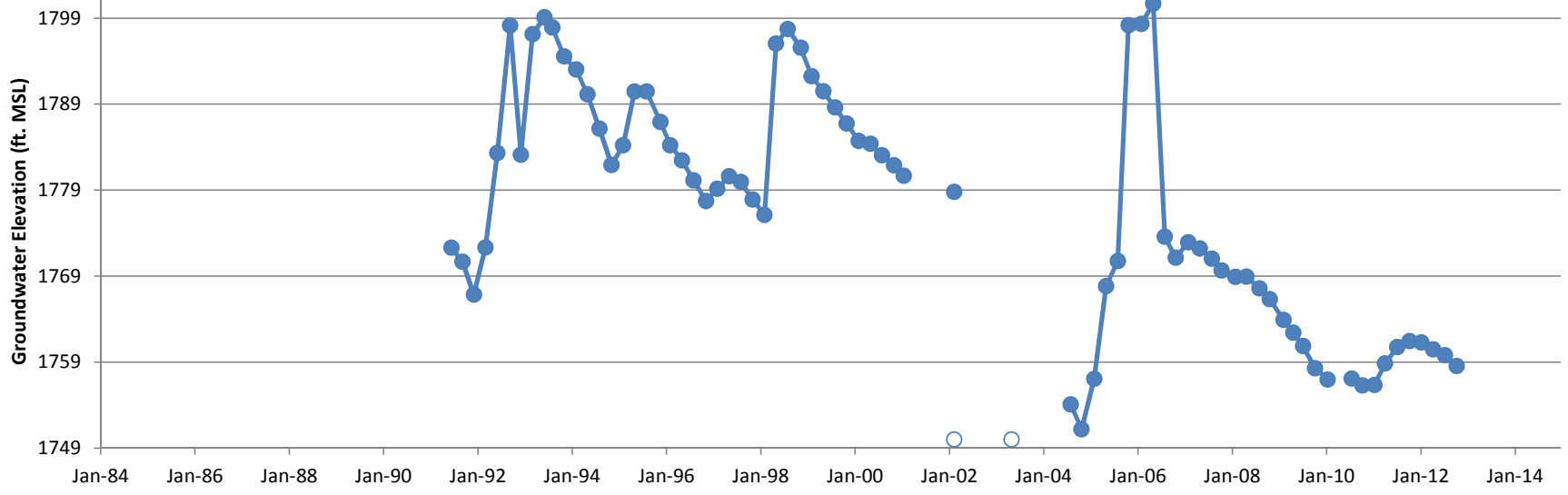
Hydrograph
Groundwater Monitoring Well RD-52B

● Groundwater Elevation ○ Dry ▲ Pumping



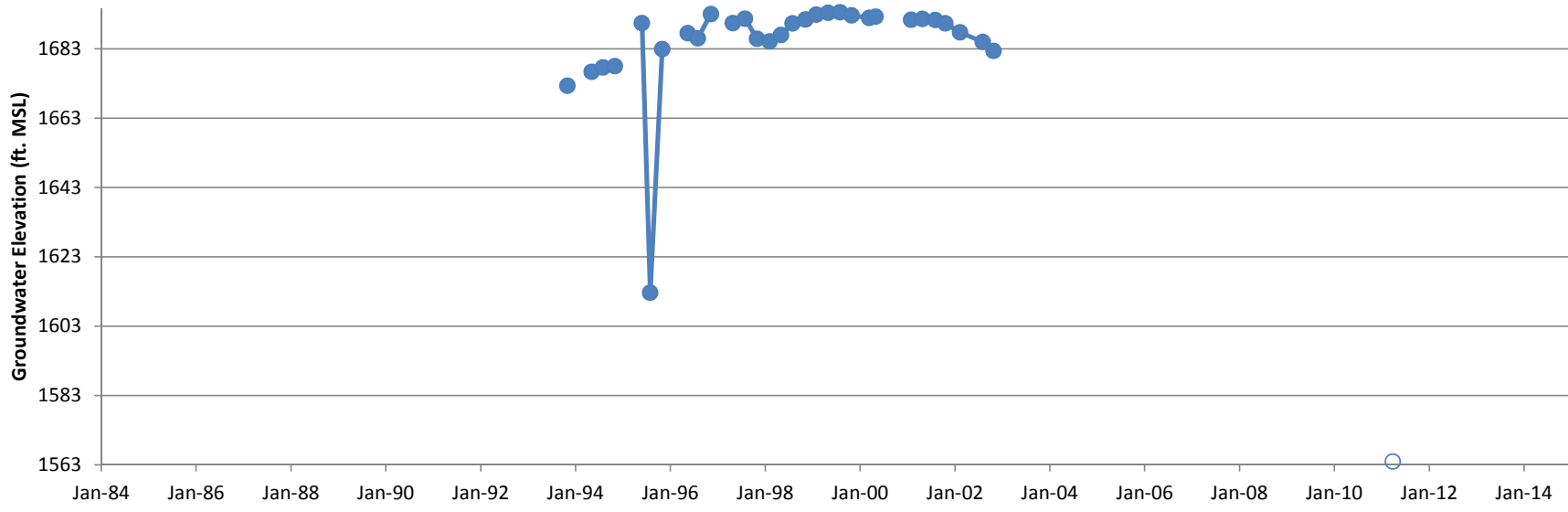
Hydrograph
Groundwater Monitoring Well RD-52C

● Groundwater Elevation ○ Dry ▲ Pumping



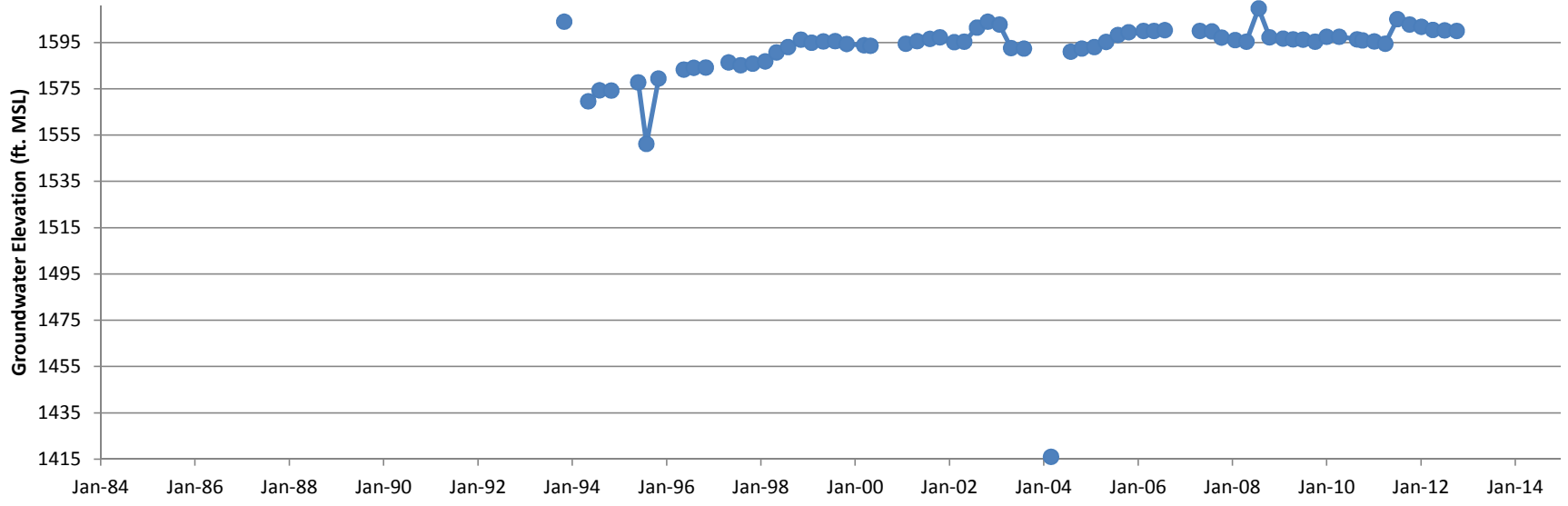
Hydrograph
Groundwater Monitoring Well RD-53

—●— Groundwater Elevation ○ Dry ▲ Pumping



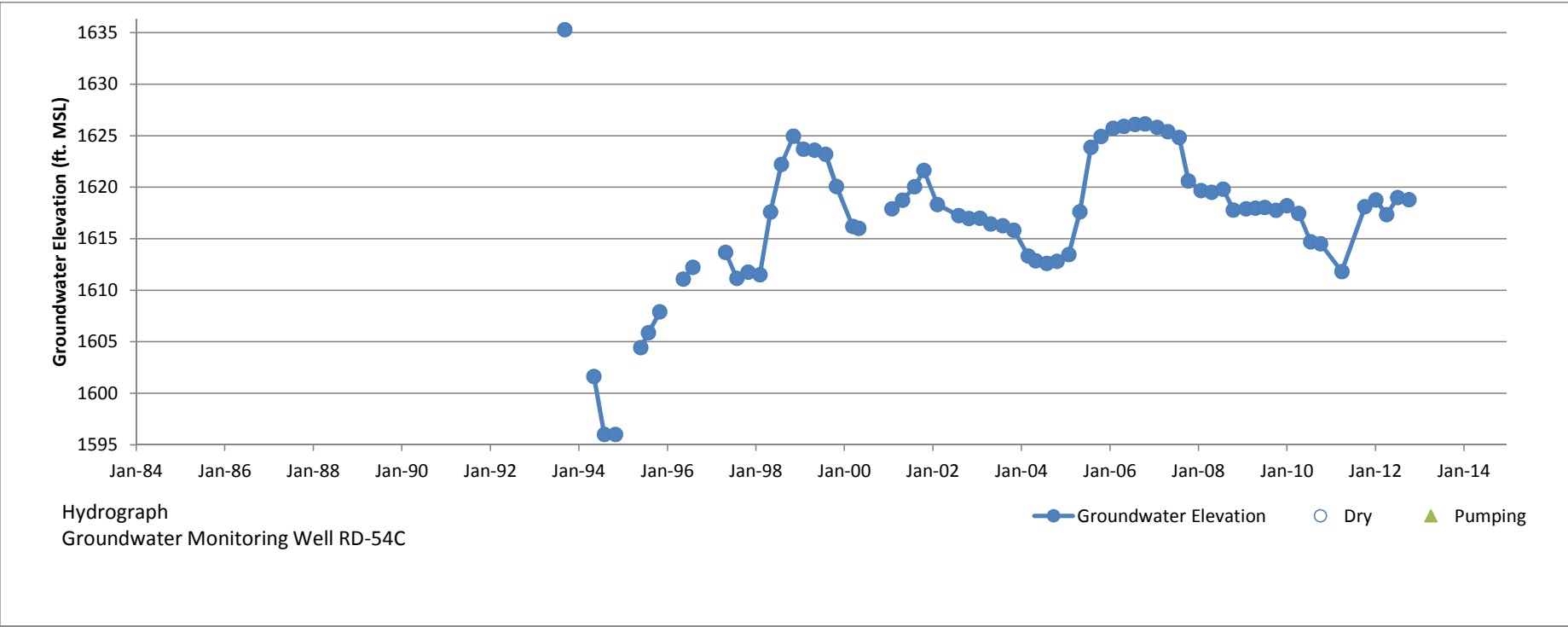
Hydrograph
Groundwater Monitoring Well RD-54A
FLUTE installed in well on 01/07/03.

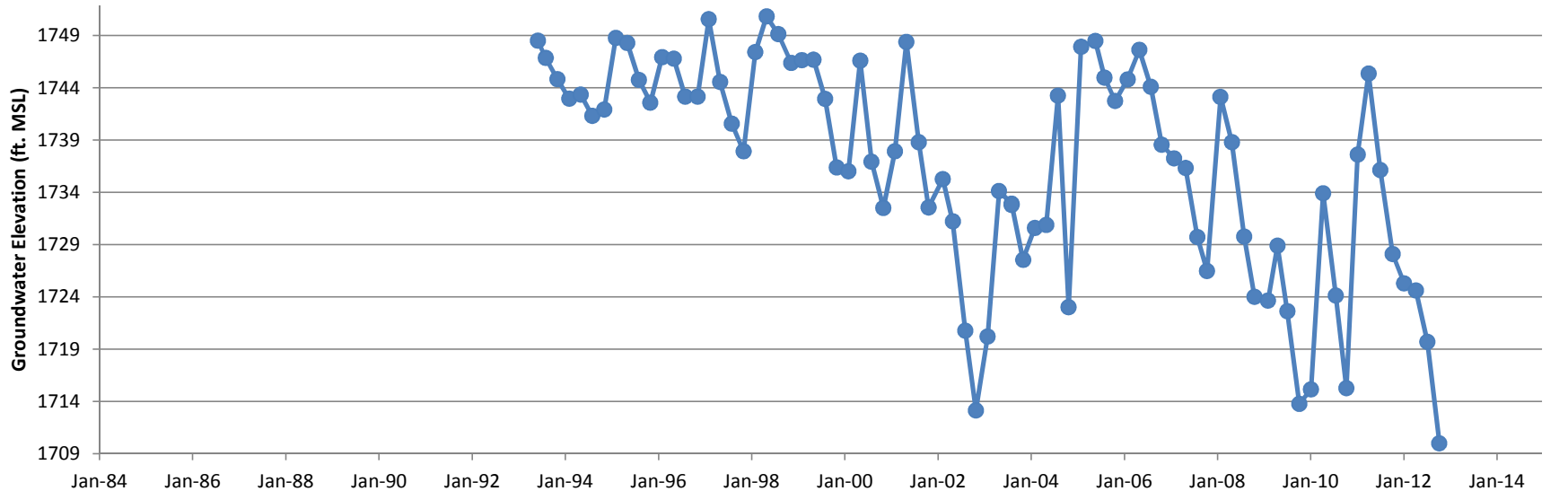
● Groundwater Elevation ○ Dry ▲ Pumping



Hydrograph
Groundwater Monitoring Well RD-54B

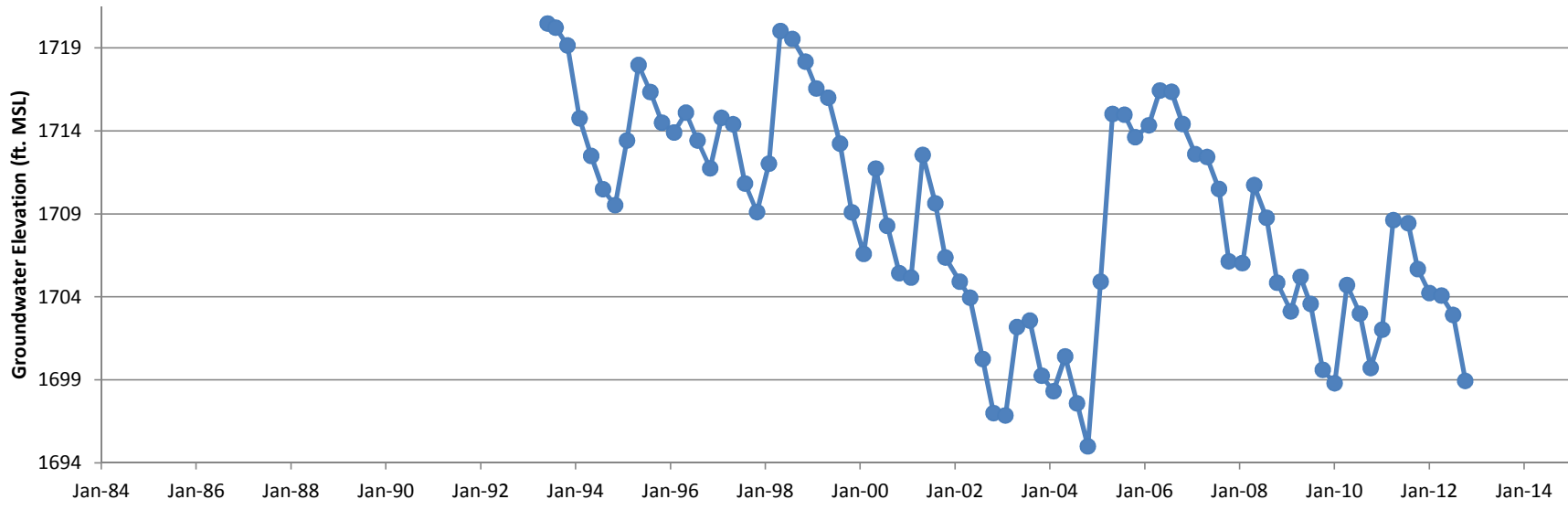
● Groundwater Elevation
 Dry
 ▲ Pumping





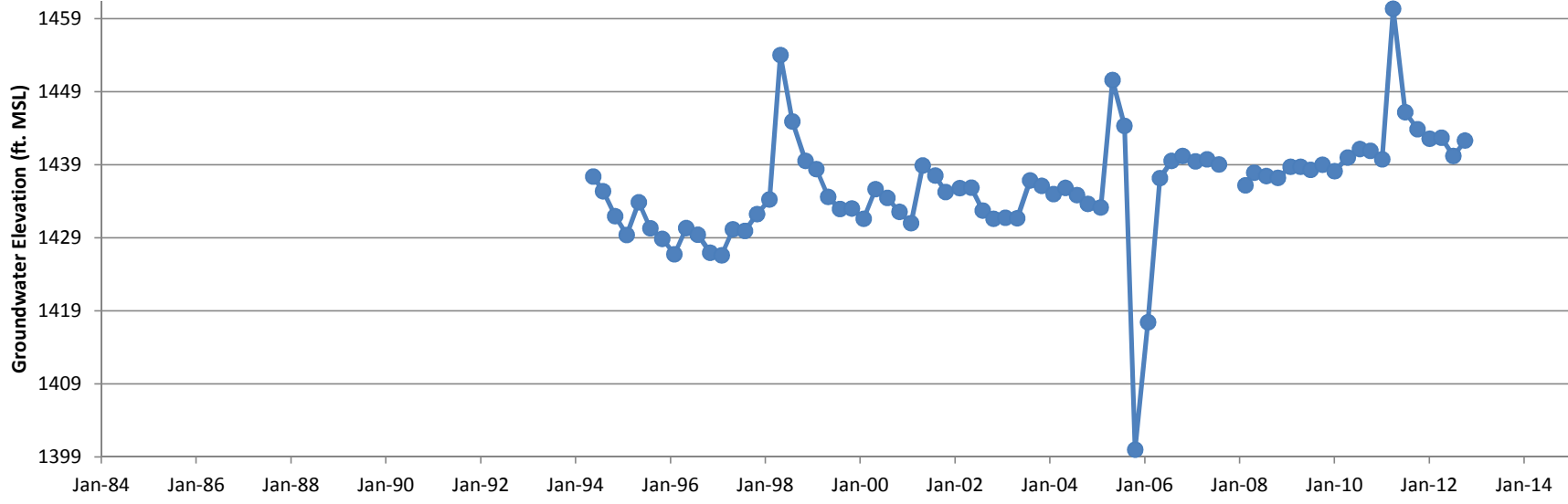
Hydrograph
Groundwater Monitoring Well RD-55A

● Groundwater Elevation ○ Dry ▲ Pumping



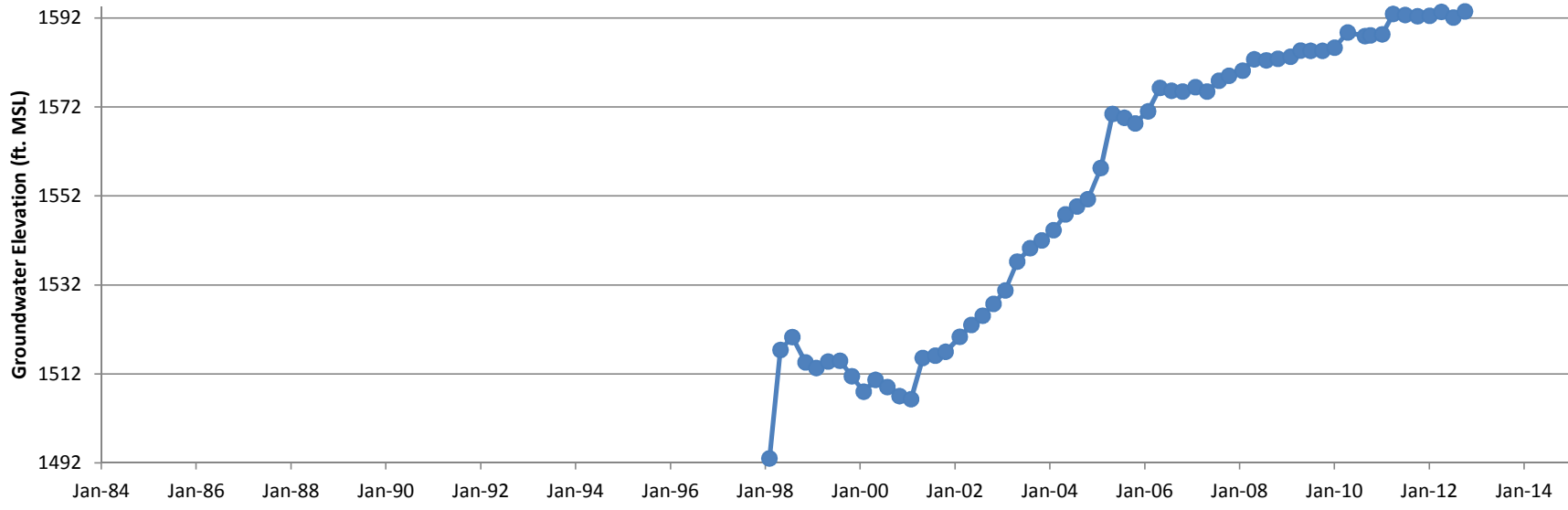
Hydrograph
Groundwater Monitoring Well RD-55B

—●— Groundwater Elevation ○ Dry ▲ Pumping



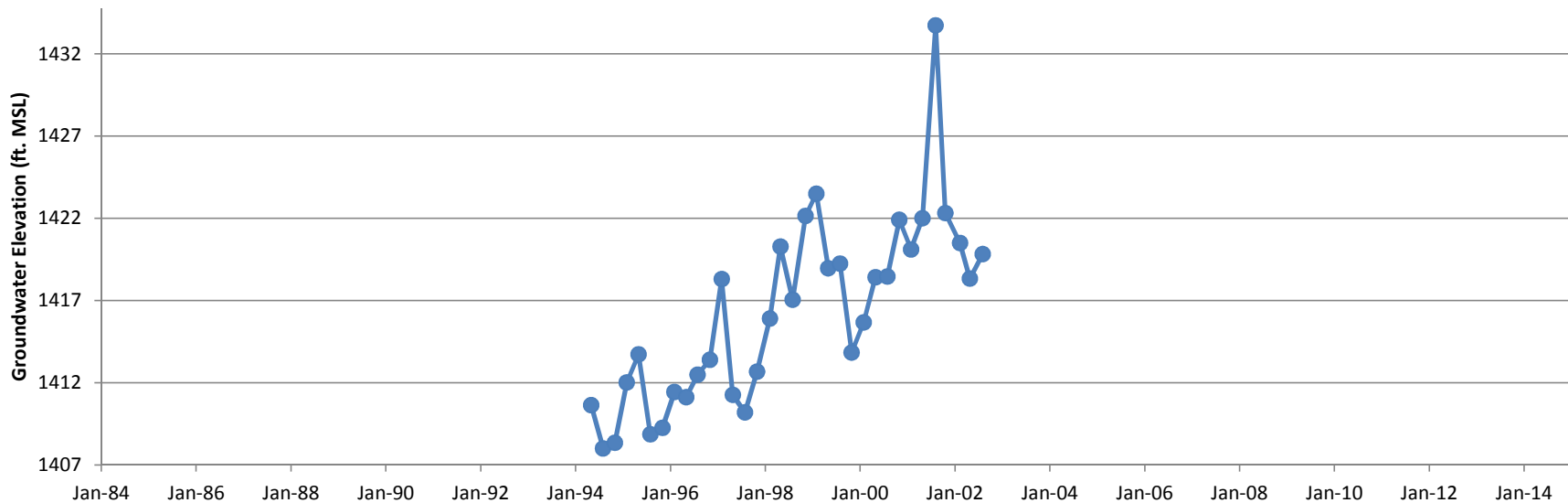
Hydrograph
Groundwater Monitoring Well RD-56A

● Groundwater Elevation ○ Dry ▲ Pumping



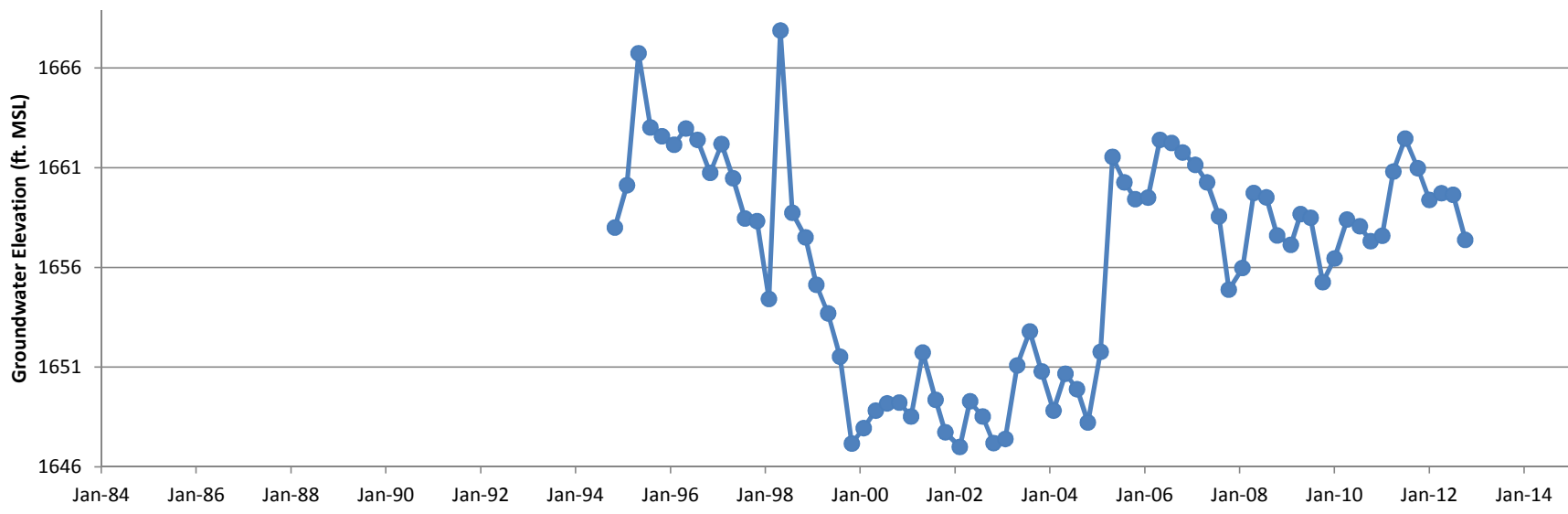
Hydrograph
Groundwater Monitoring Well RD-56B

● Groundwater Elevation ○ Dry ▲ Pumping



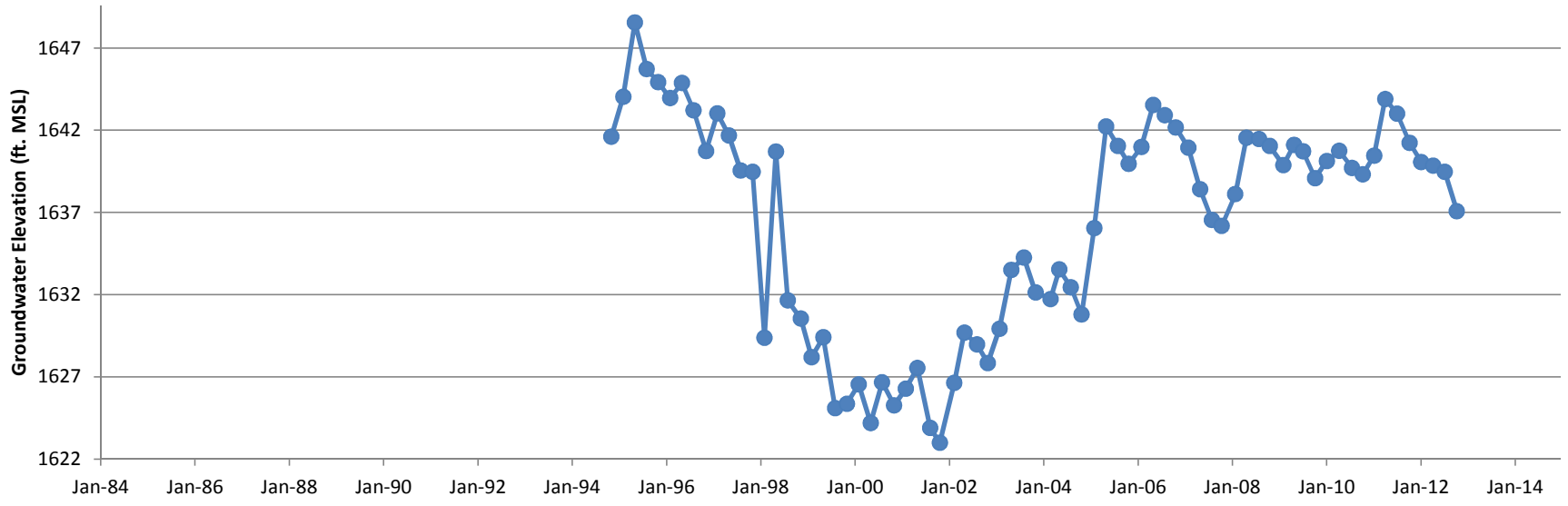
Hydrograph
Groundwater Monitoring Well RD-57
FLUTE installed in well on 09/11/02.

—●— Groundwater Elevation ○ Dry ▲ Pumping



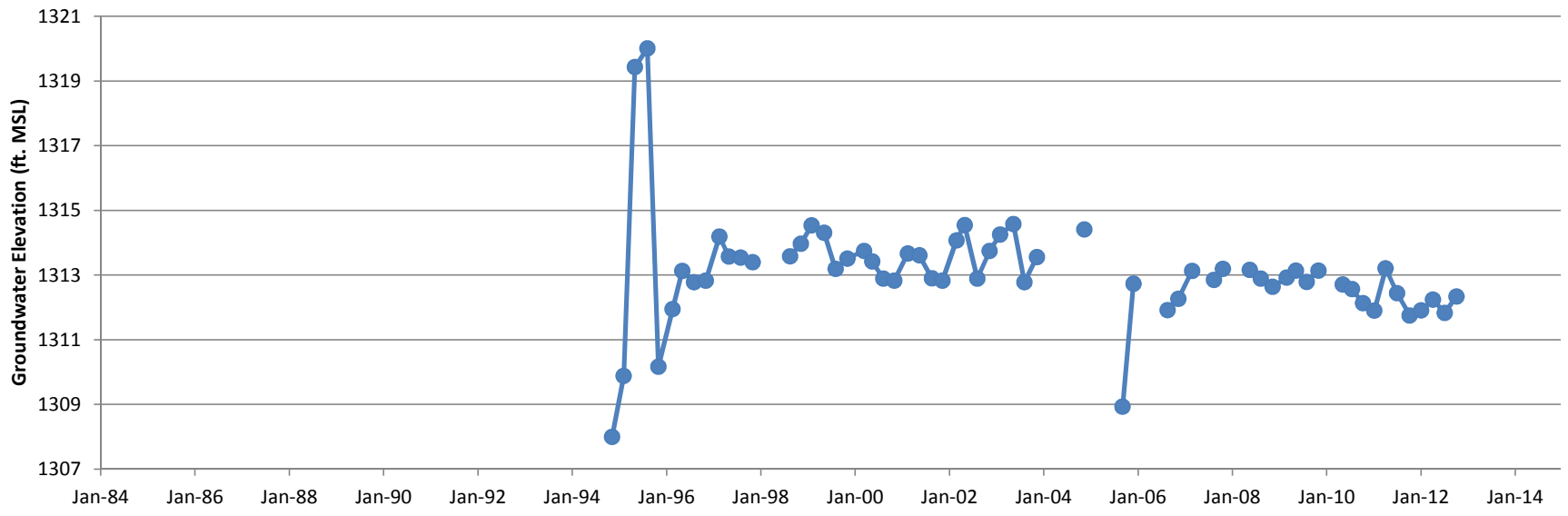
Hydrograph
Groundwater Monitoring Well RD-58B

—●— Groundwater Elevation ○ Dry ▲ Pumping



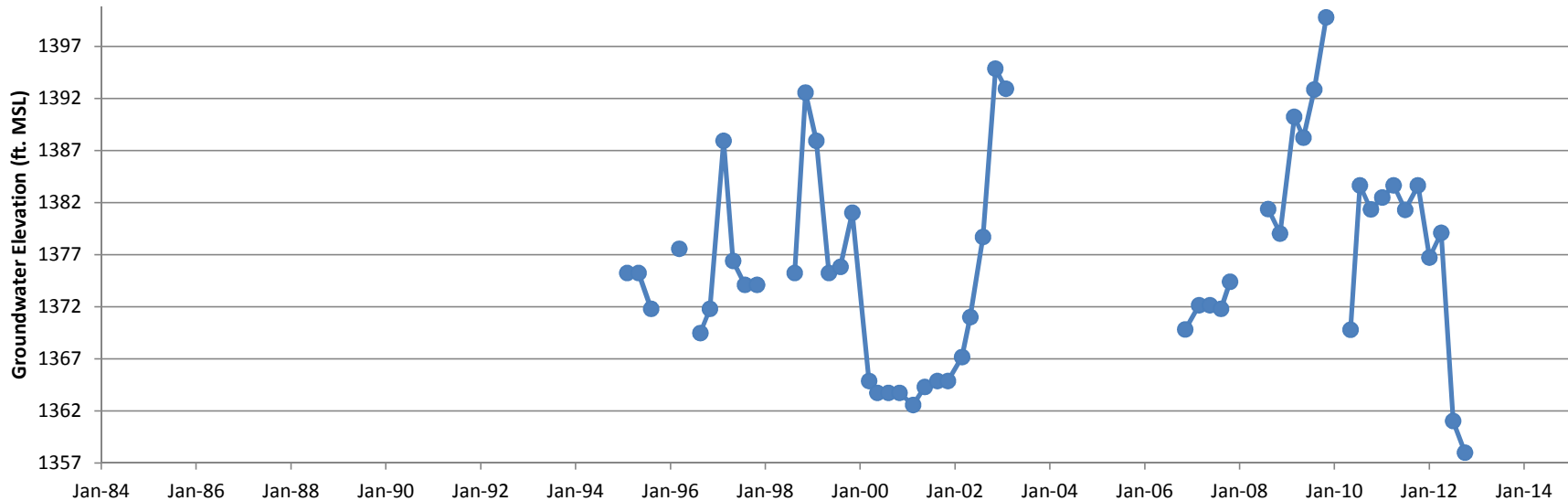
Hydrograph
Groundwater Monitoring Well RD-58C

● Groundwater Elevation ○ Dry ▲ Pumping



Hydrograph
Groundwater Monitoring Well RD-59A

● Groundwater Elevation
 ○ Dry
 ▲ Pumping

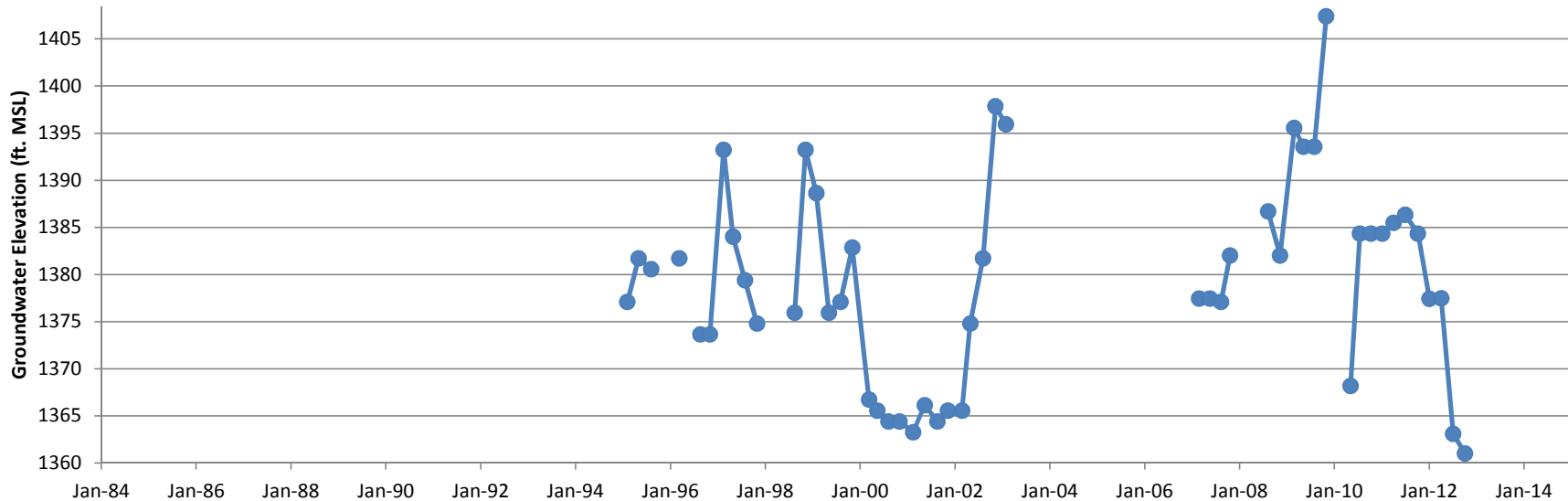


Hydrograph

Groundwater Monitoring Well RD-59B

NOTE: Measuring point elevation is plotted when hydrostatic water elevation is unavailable due to artesian conditions observed at well head.

● Groundwater Elevation
 ○ Dry
 ▲ Pumping

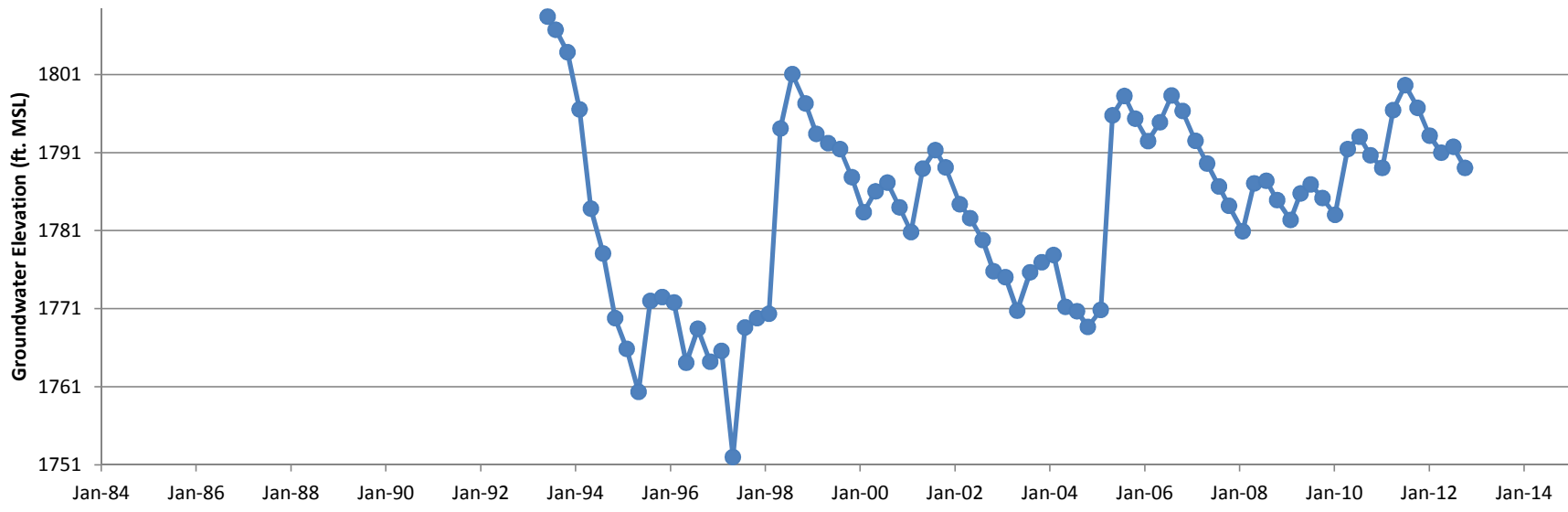


Hydrograph

Groundwater Monitoring Well RD-59C

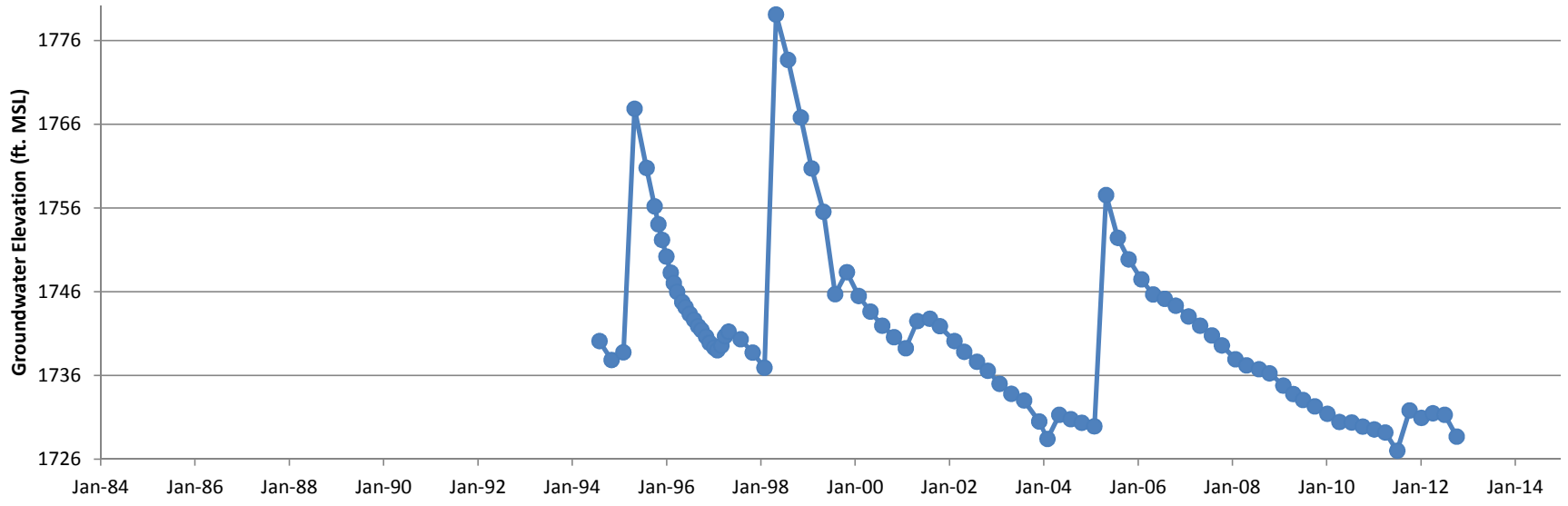
NOTE: Measuring point elevation is plotted when hydrostatic water elevation is unavailable due to artesian conditions observed at well head.

● Groundwater Elevation
 ○ Dry
 ▲ Pumping



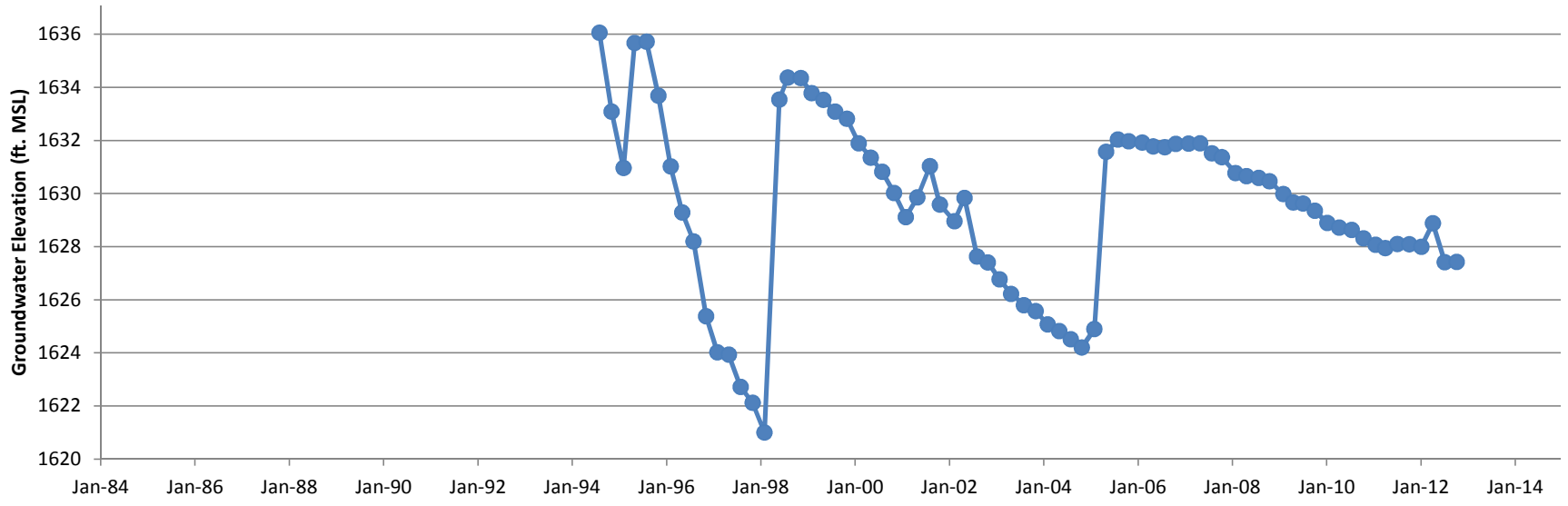
Hydrograph
Groundwater Monitoring Well RD-60

● Groundwater Elevation ○ Dry ▲ Pumping



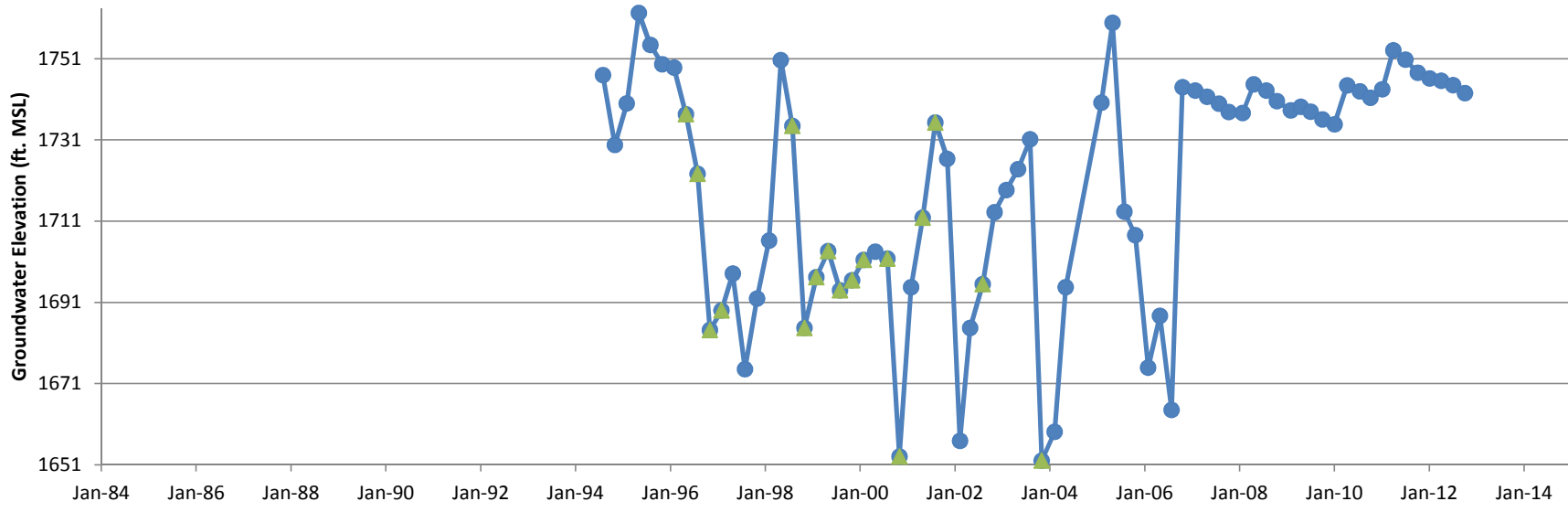
Hydrograph
Groundwater Monitoring Well RD-61

● Groundwater Elevation ○ Dry ▲ Pumping



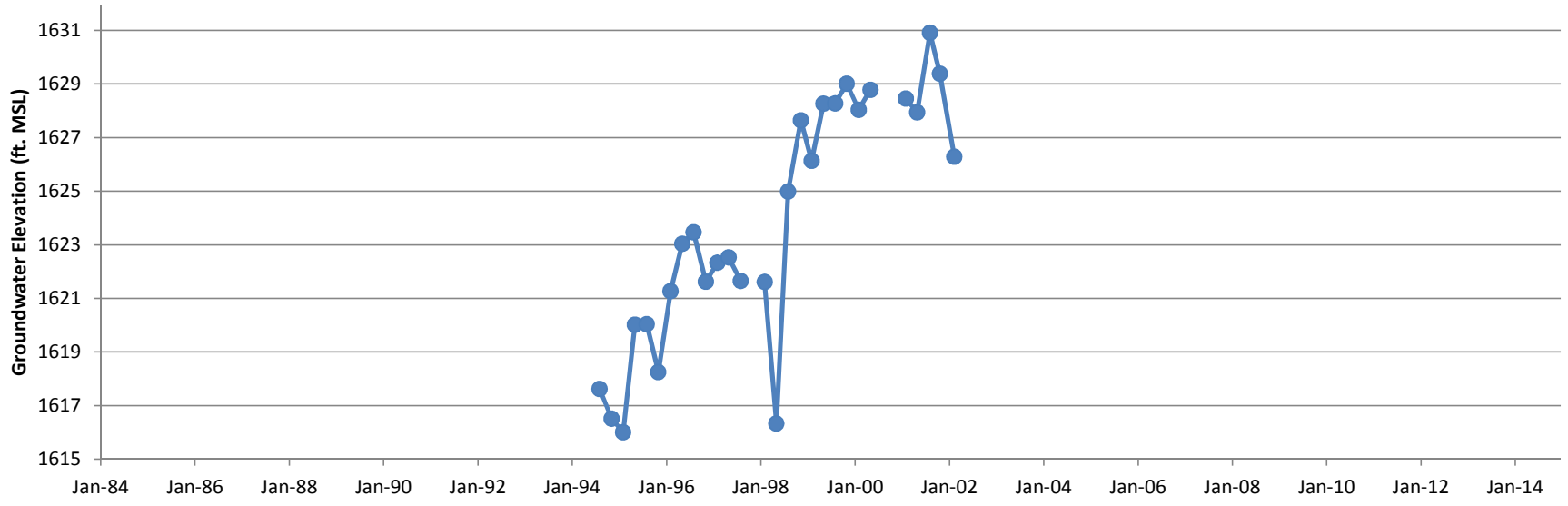
Hydrograph
Groundwater Monitoring Well RD-62

● Groundwater Elevation ○ Dry ▲ Pumping



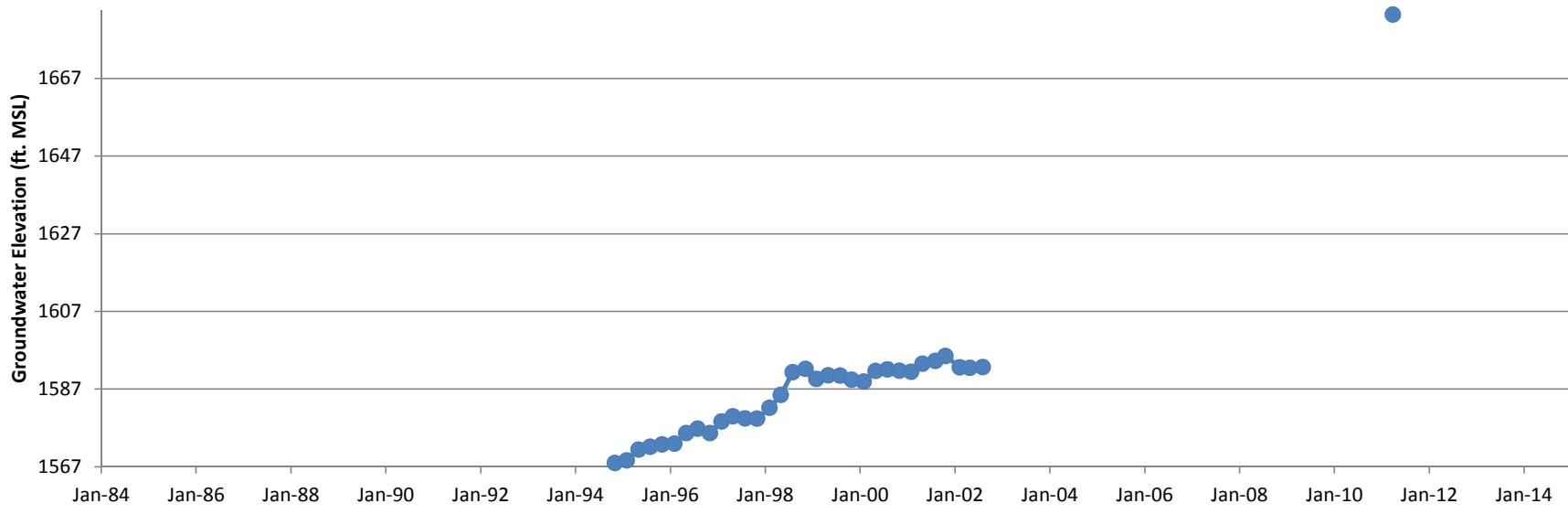
Hydrograph
Groundwater Monitoring Well RD-63

● Groundwater Elevation
 ○ Dry
 ▲ Pumping



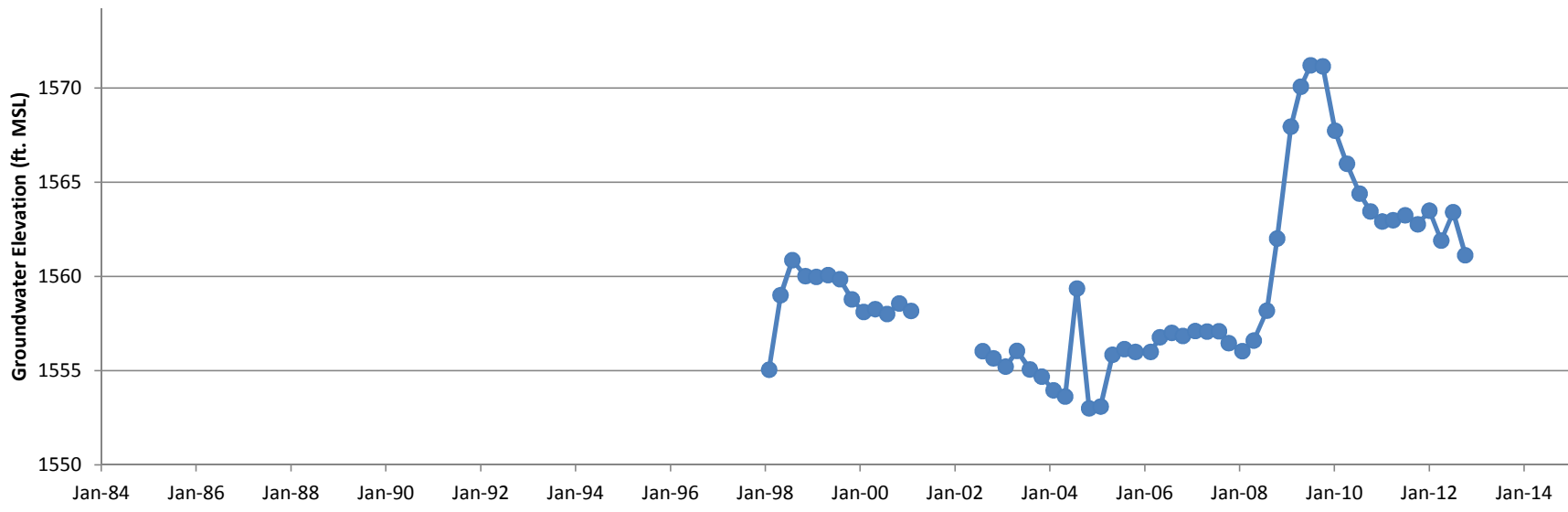
Hydrograph
Groundwater Monitoring Well RD-64
FLUTE installed in well on 04/17/04.

—●— Groundwater Elevation ○ Dry ▲ Pumping



Hydrograph
 Groundwater Monitoring Well RD-65
 FLUTE installed in well on 10/29/02.

● Groundwater Elevation
 Dry
 ▲ Pumping

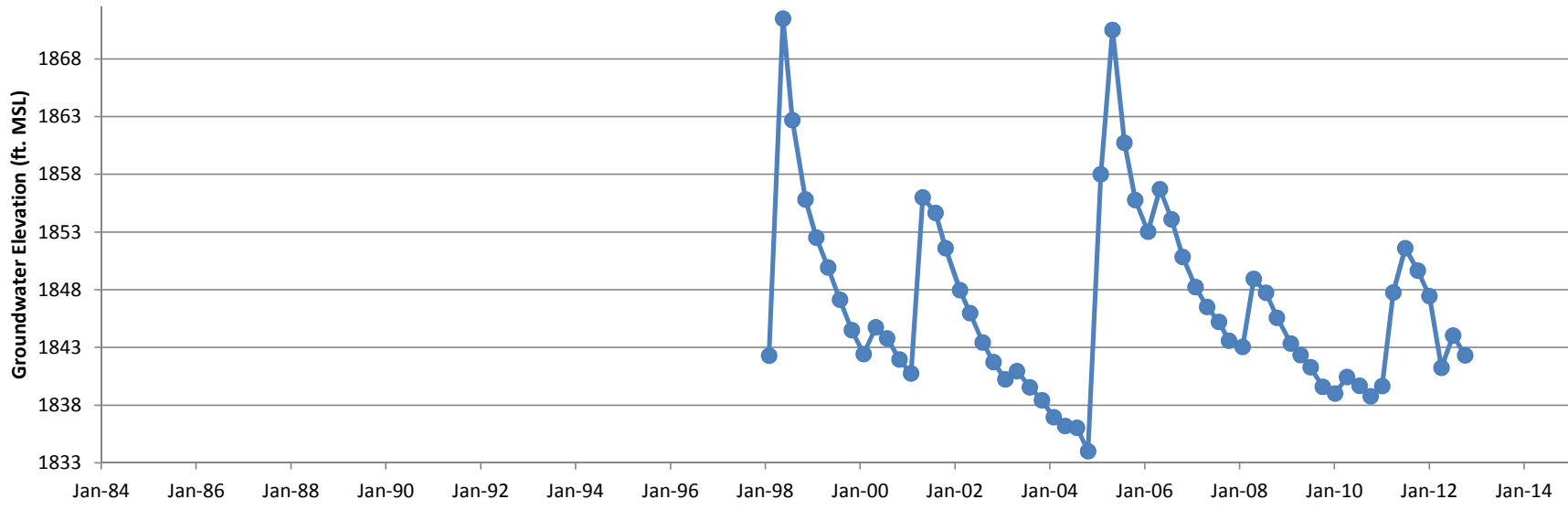


Hydrograph

Groundwater Monitoring Well RD-66

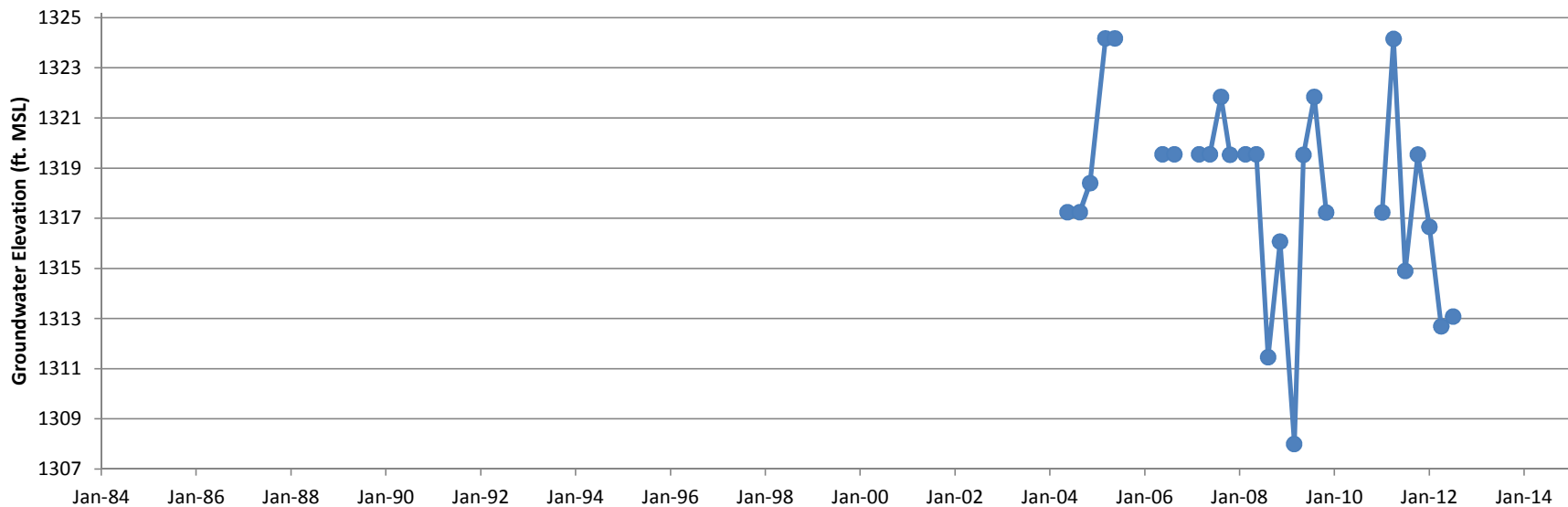
FLUTe installed in well on 04/30/01. FLUTe removed from well on 07/17/02.

—●— Groundwater Elevation ○ Dry ▲ Pumping



Hydrograph
Groundwater Monitoring Well RD-67

● Groundwater Elevation ○ Dry ▲ Pumping

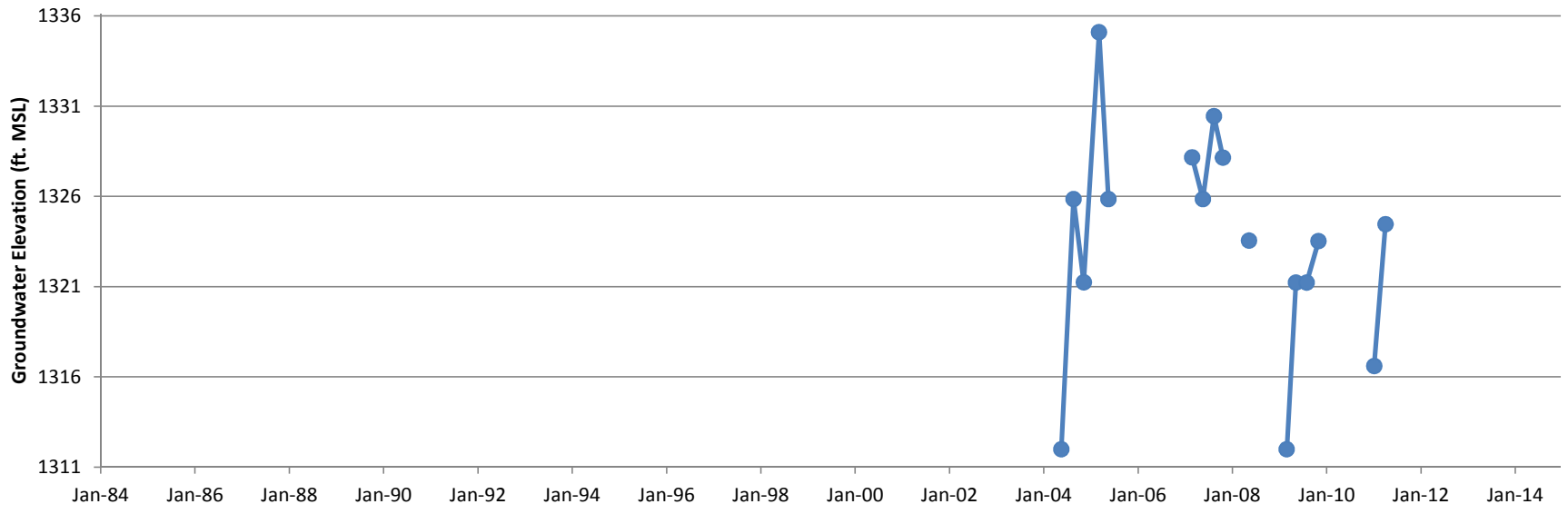


Hydrograph

Groundwater Monitoring Well RD-68A

NOTE: Measuring point elevation is plotted when hydrostatic water elevation is unavailable due to artesian conditions observed at well head.

- Groundwater Elevation
- Dry
- ▲ Pumping

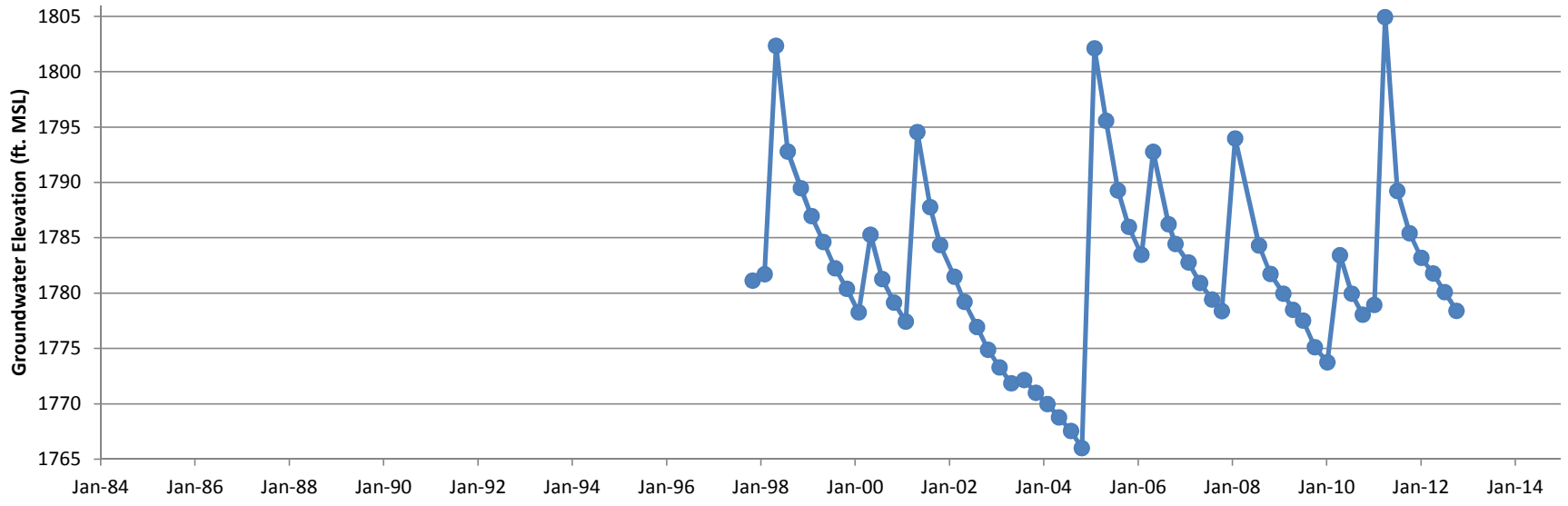


Hydrograph

Groundwater Monitoring Well RD-68B

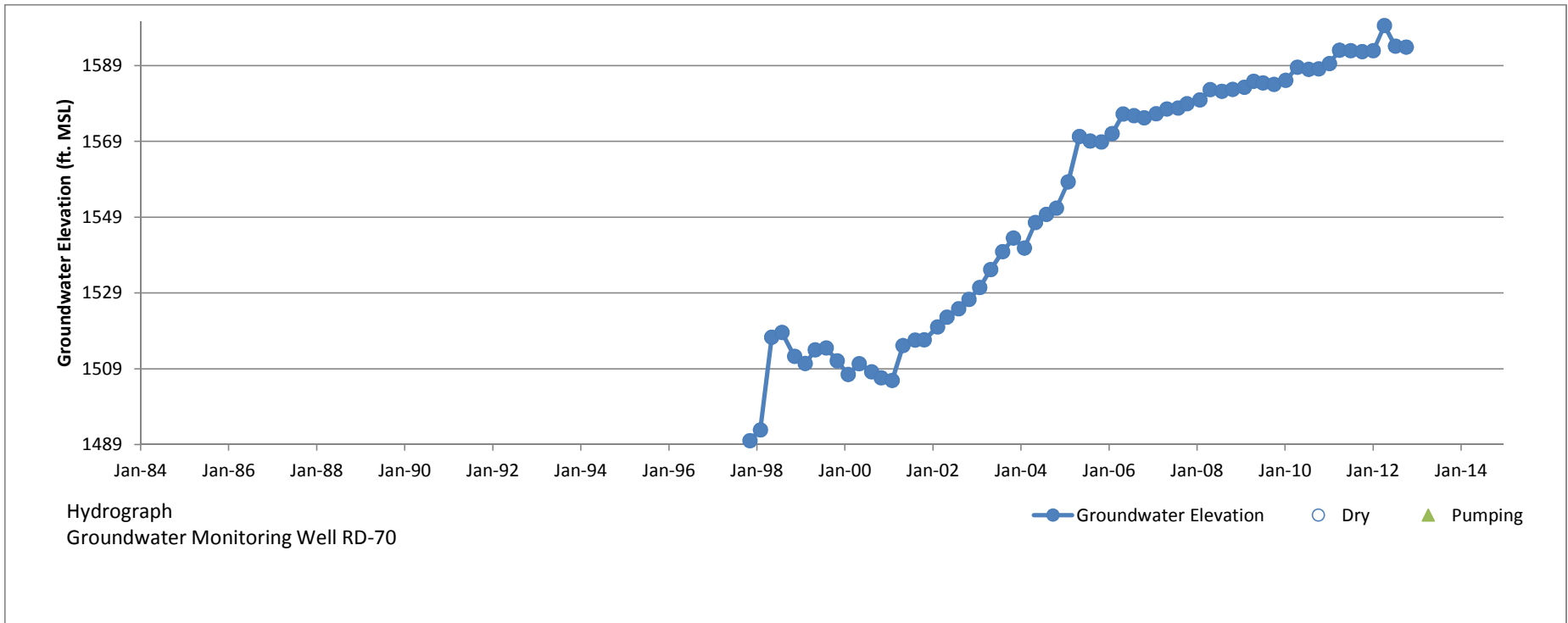
NOTE: Measuring point elevation is plotted when hydrostatic water elevation is unavailable due to artesian conditions observed at well head.

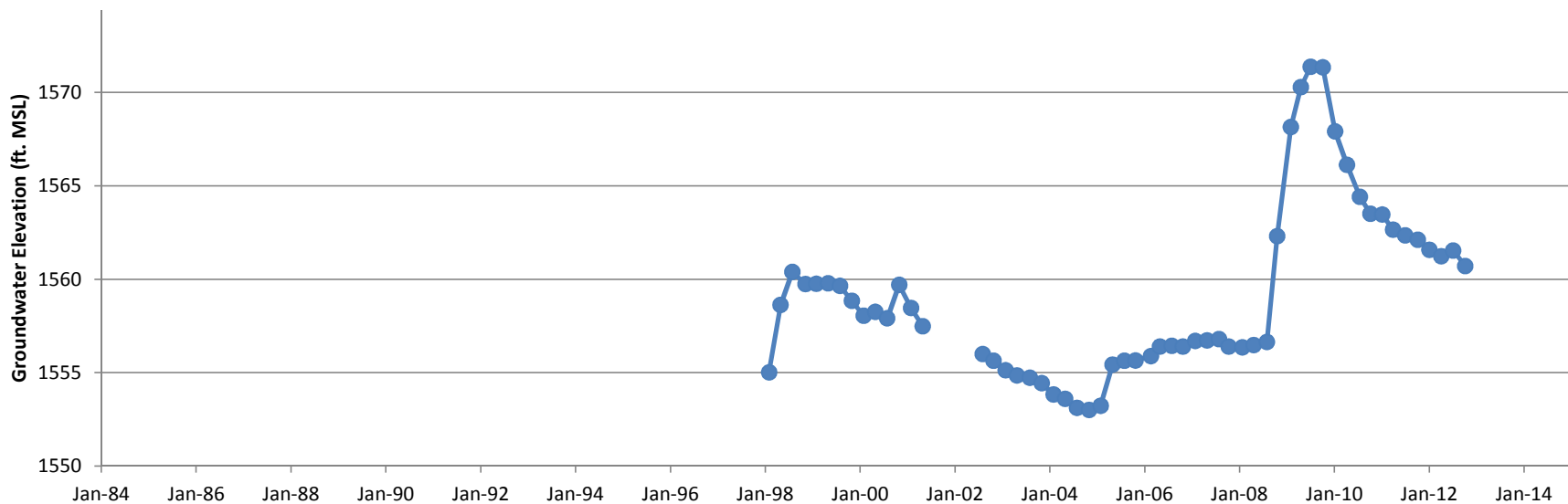
● Groundwater Elevation
 ○ Dry
 ▲ Pumping



Hydrograph
Groundwater Monitoring Well RD-69

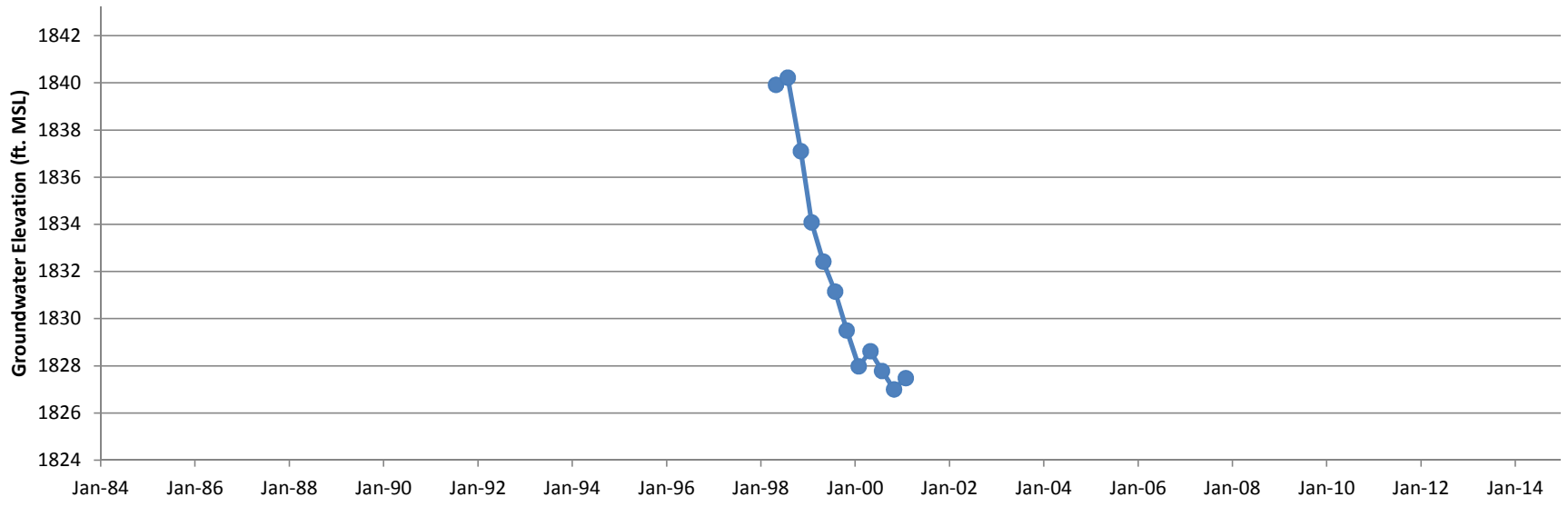
● Groundwater Elevation ○ Dry ▲ Pumping





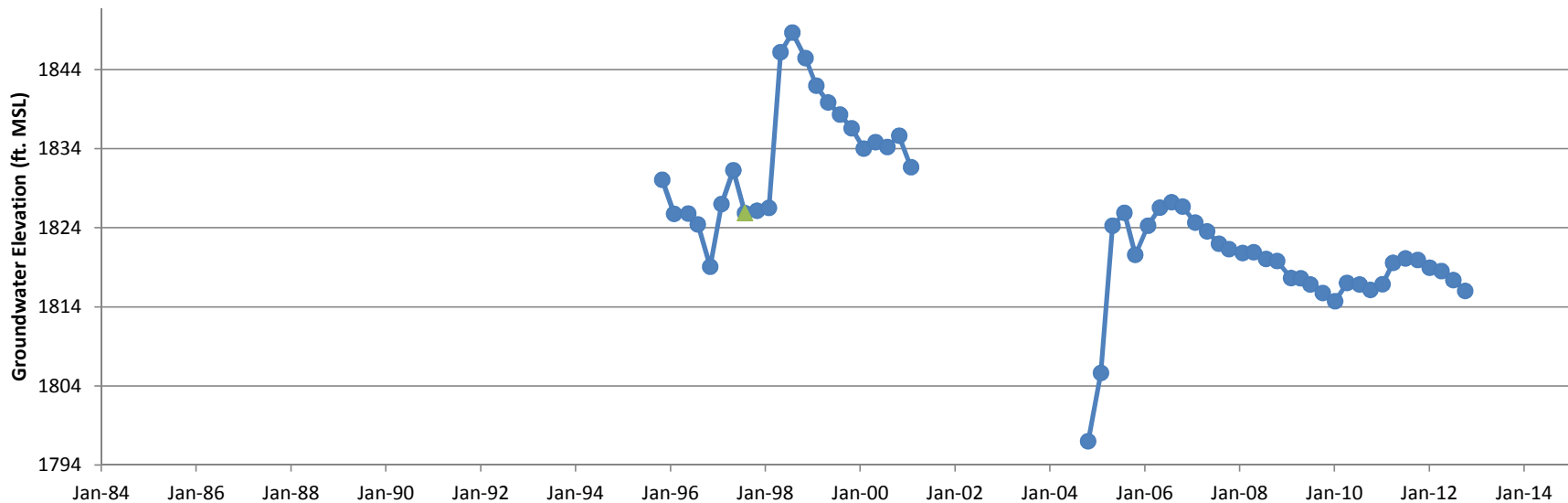
Hydrograph
Groundwater Monitoring Well RD-71
FLUTe installed in well 05/07/01 through 07/19/02.

● Groundwater Elevation ○ Dry ▲ Pumping



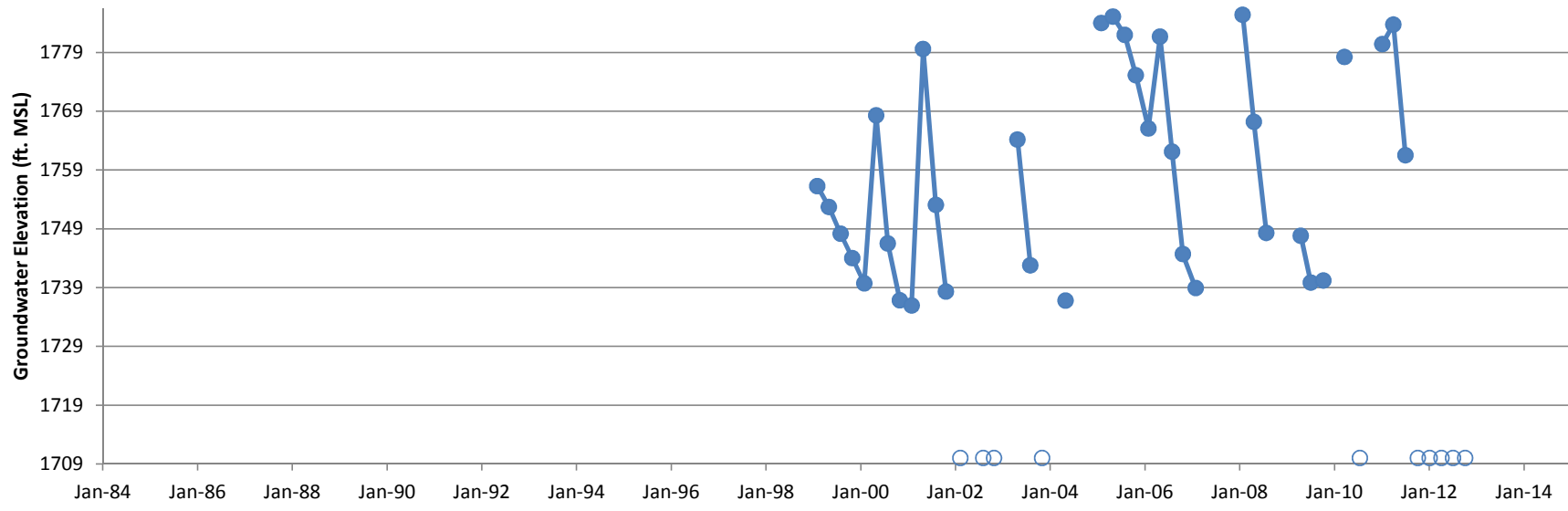
Hydrograph
Groundwater Monitoring Well RD-72
FLUTE installed in well on 04/02/01.

● Groundwater Elevation ○ Dry ▲ Pumping



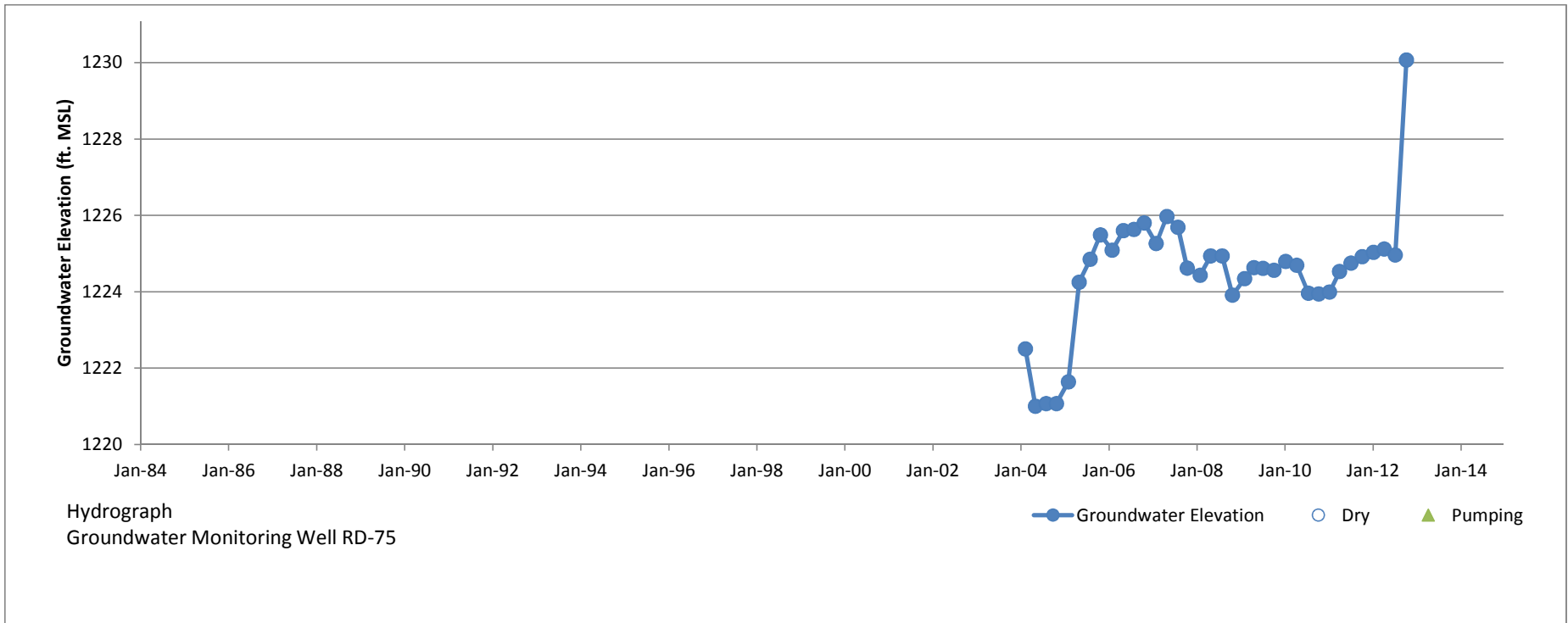
Hydrograph
 Groundwater Monitoring Well RD-73
 FLUTE installed in well 02/02/01 through 07/28/04.

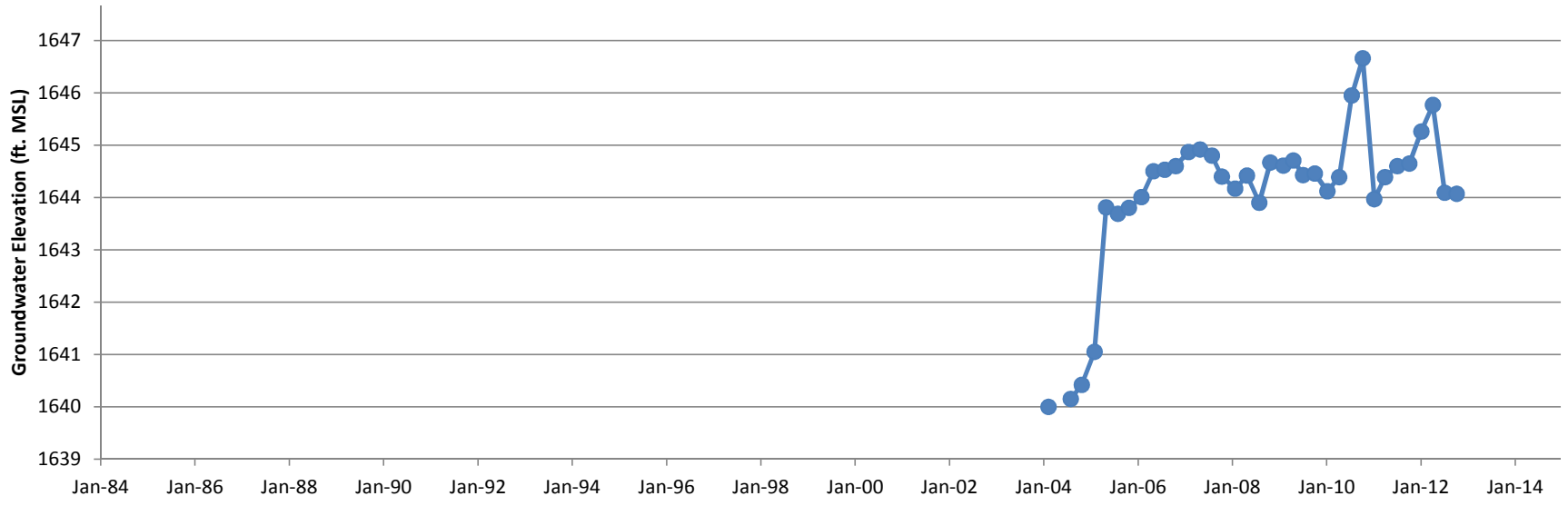
—●— Groundwater Elevation ○ Dry ▲ Pumping



Hydrograph
Groundwater Monitoring Well RD-74

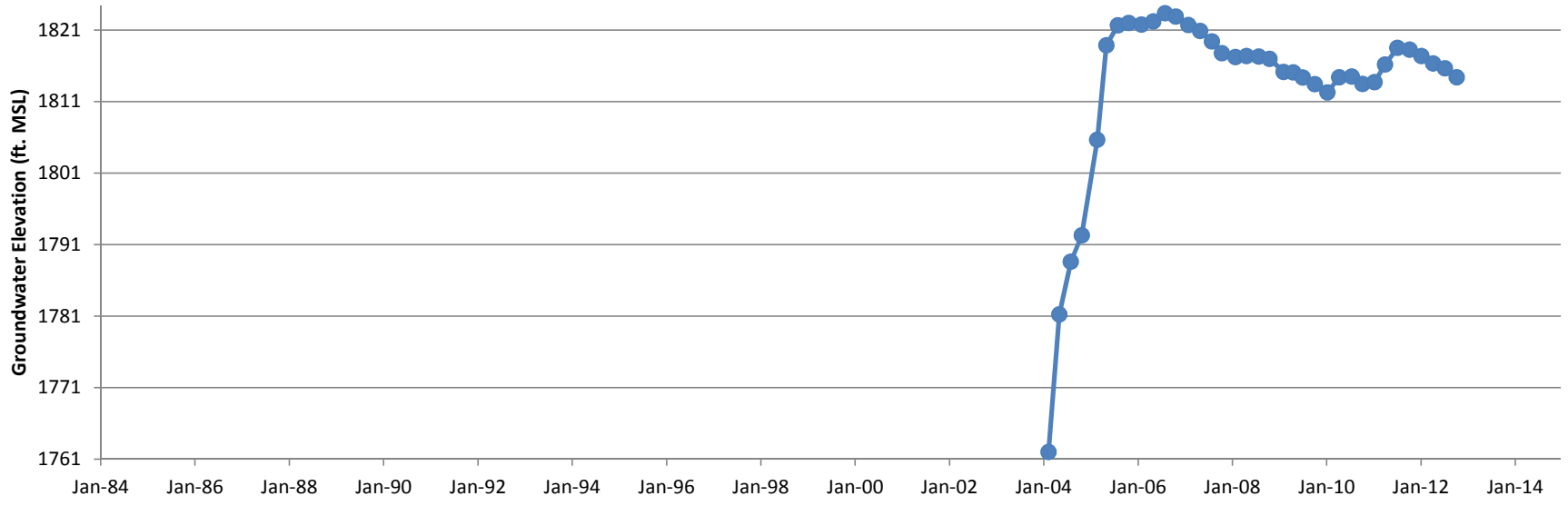
● Groundwater Elevation ○ Dry ▲ Pumping





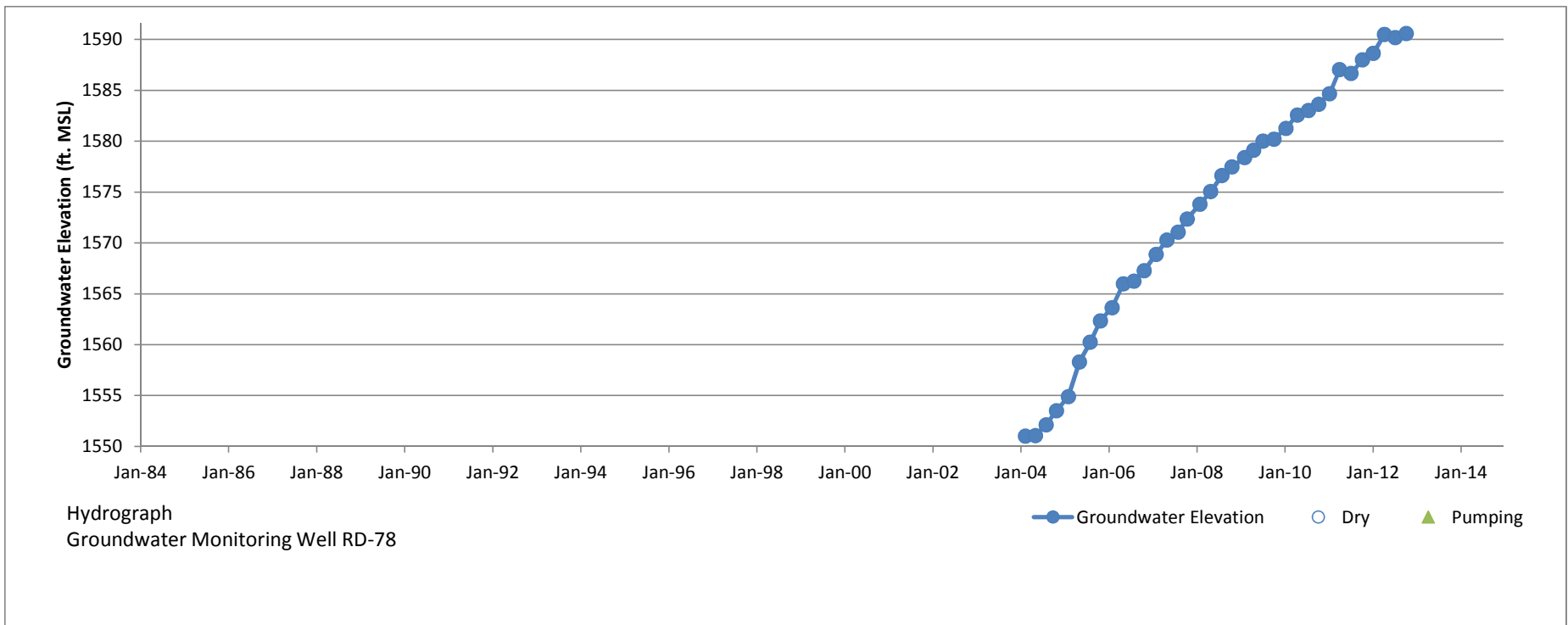
Hydrograph
Groundwater Monitoring Well RD-76

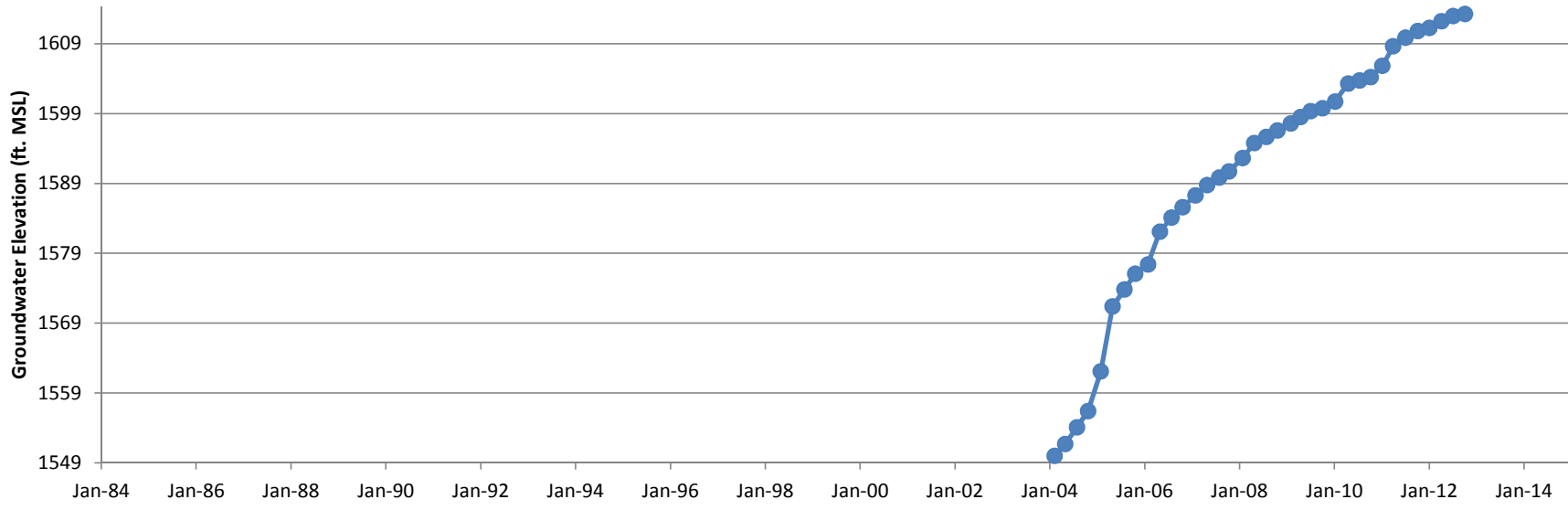
● Groundwater Elevation ○ Dry ▲ Pumping



Hydrograph
Groundwater Monitoring Well RD-77

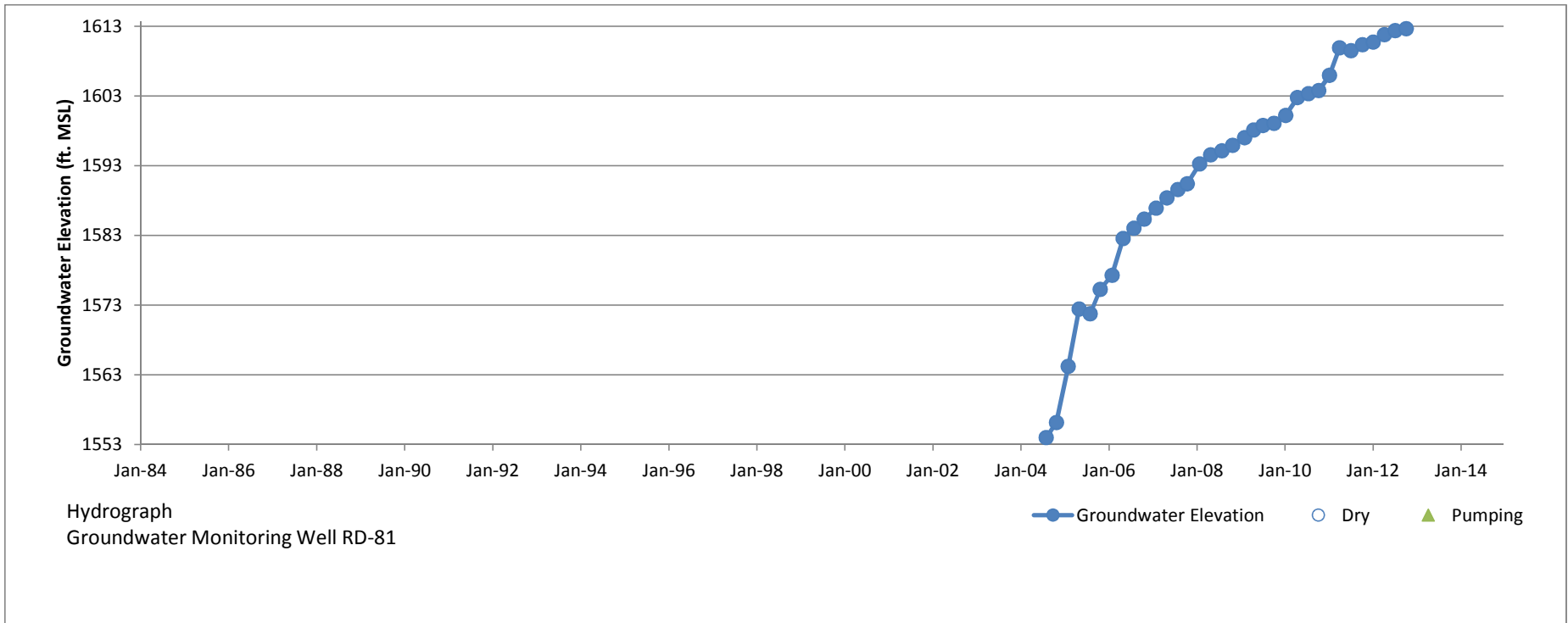
● Groundwater Elevation ○ Dry ▲ Pumping

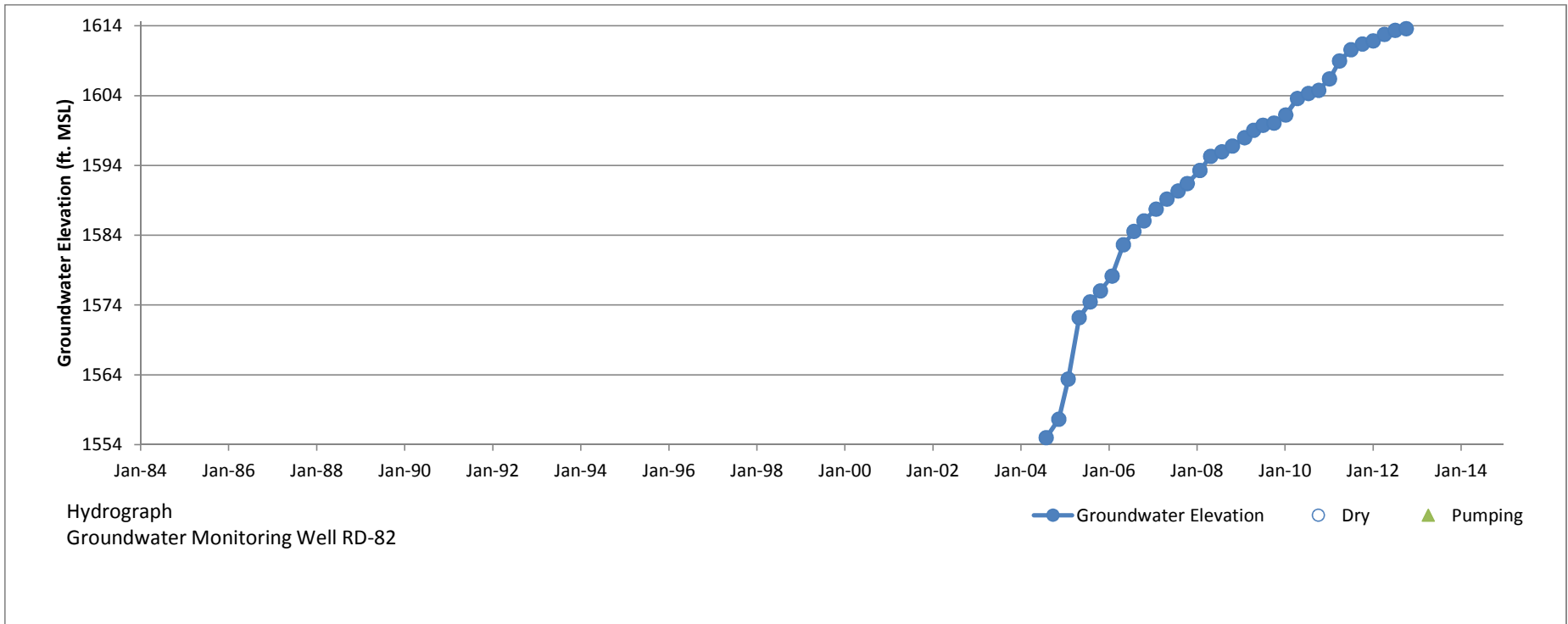


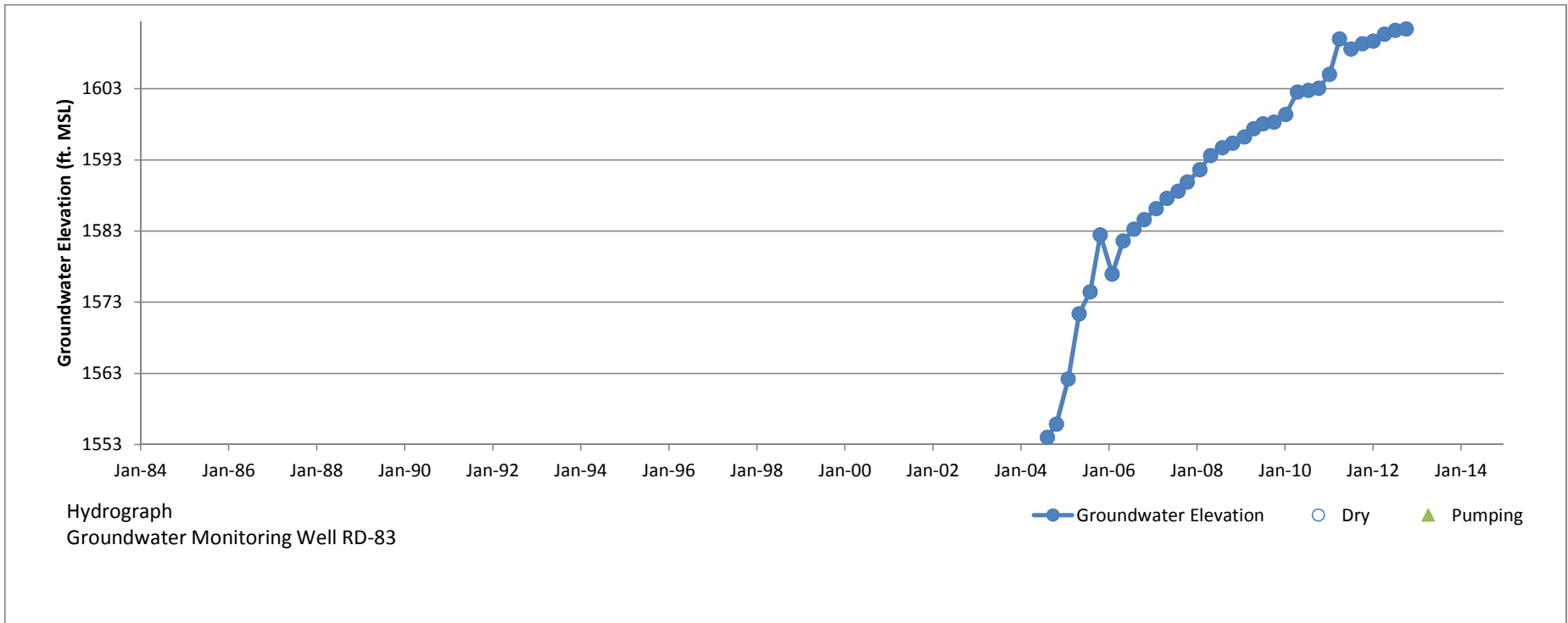


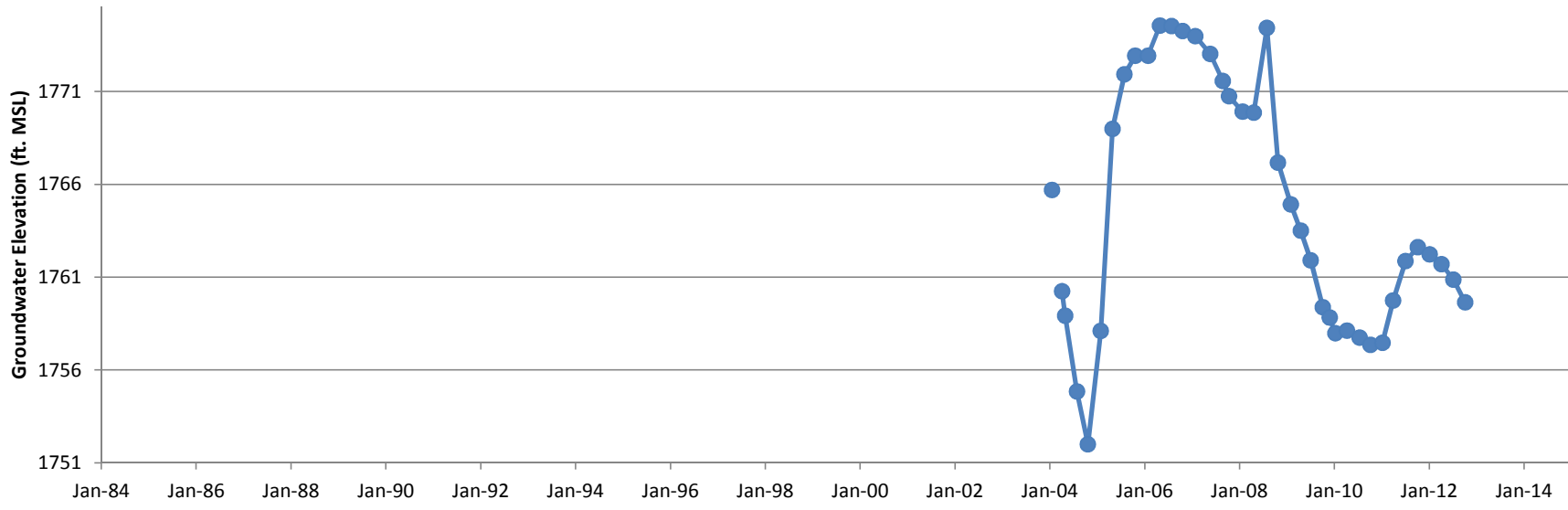
Hydrograph
Groundwater Monitoring Well RD-80

● Groundwater Elevation ○ Dry ▲ Pumping



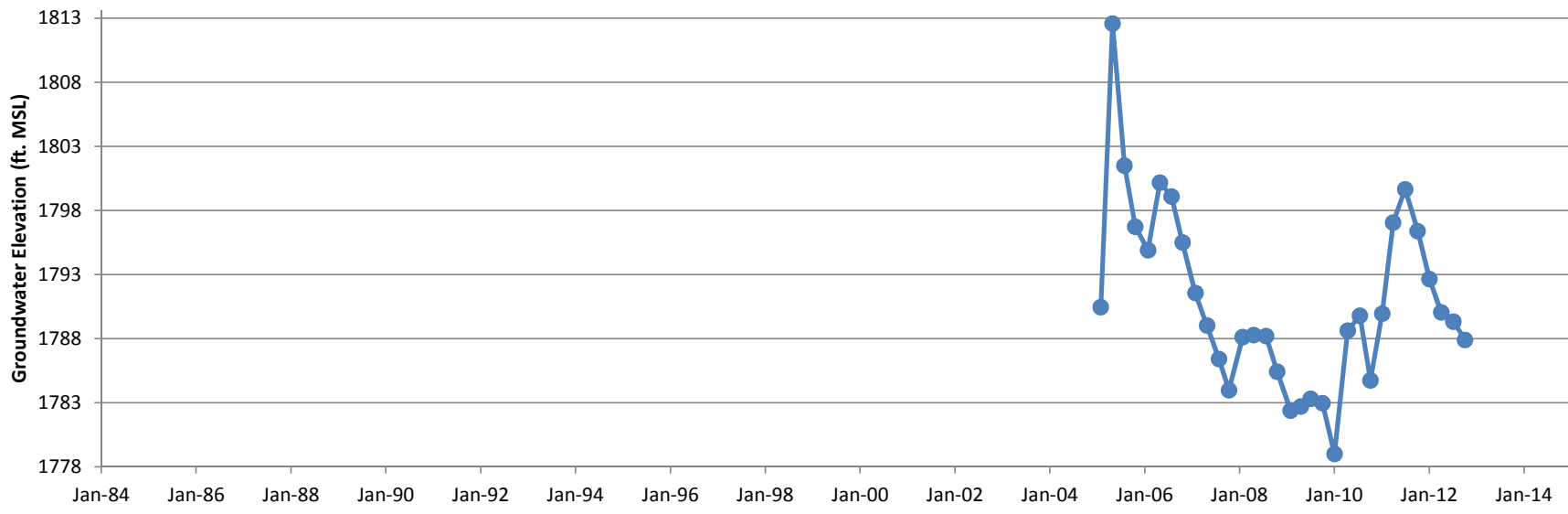






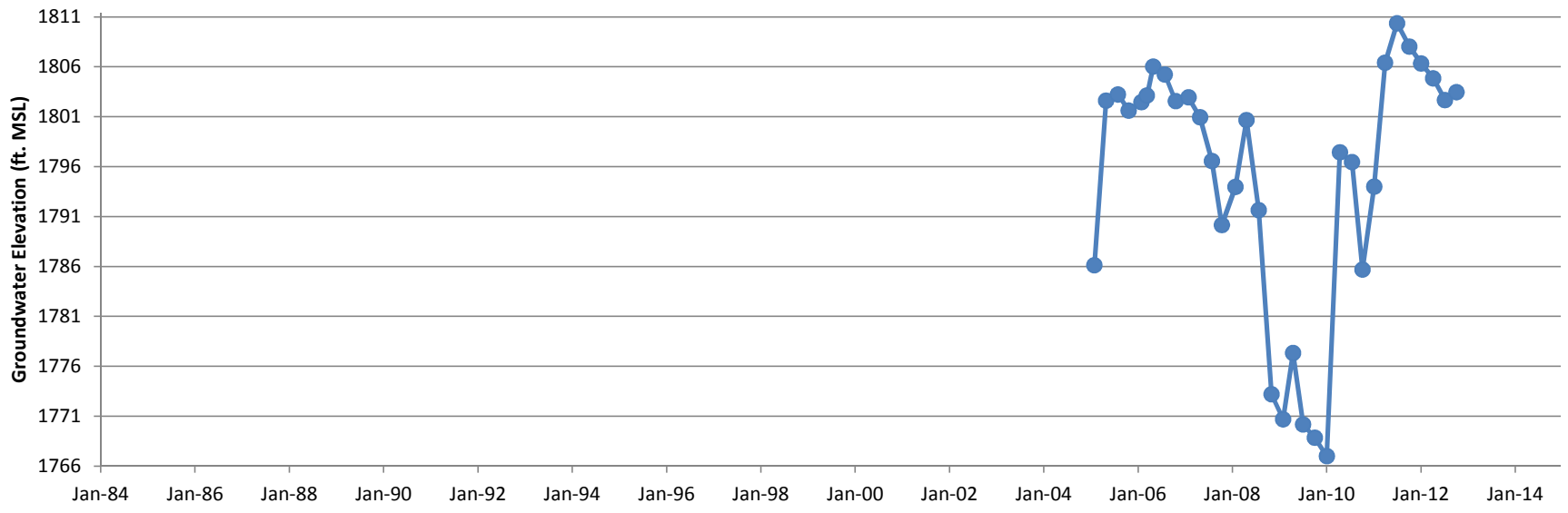
Hydrograph
Groundwater Monitoring Well RD-84

Groundwater Elevation Dry Pumping



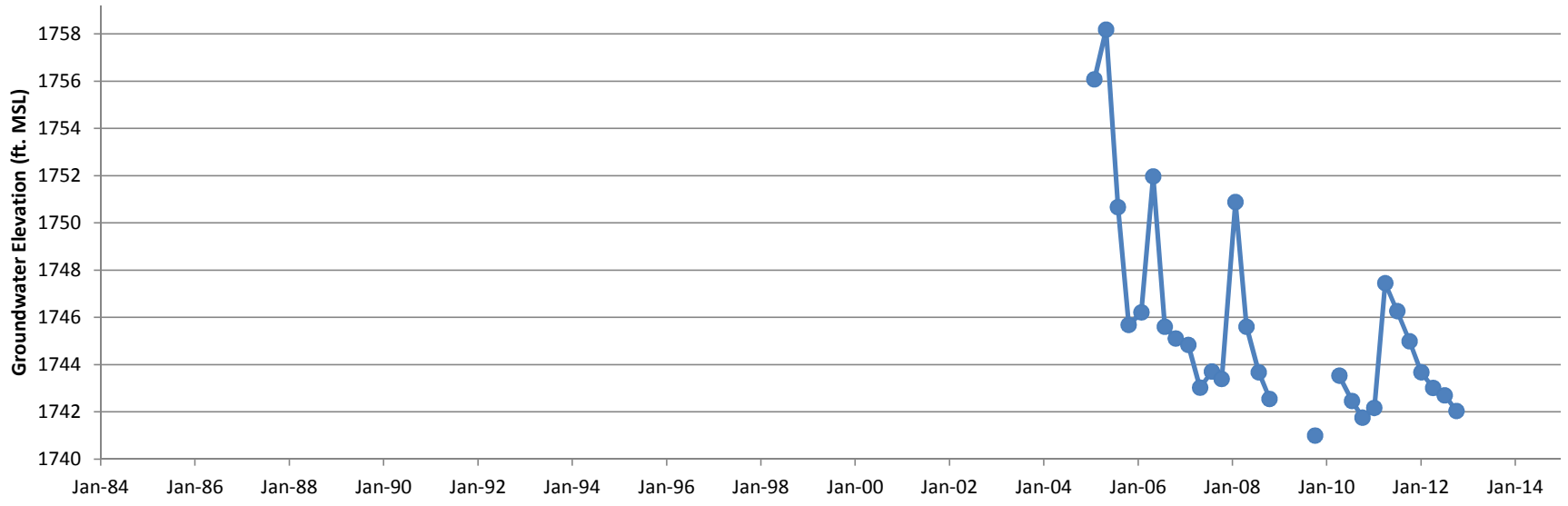
Hydrograph
Groundwater Monitoring Well RD-85

—●— Groundwater Elevation ○ Dry ▲ Pumping



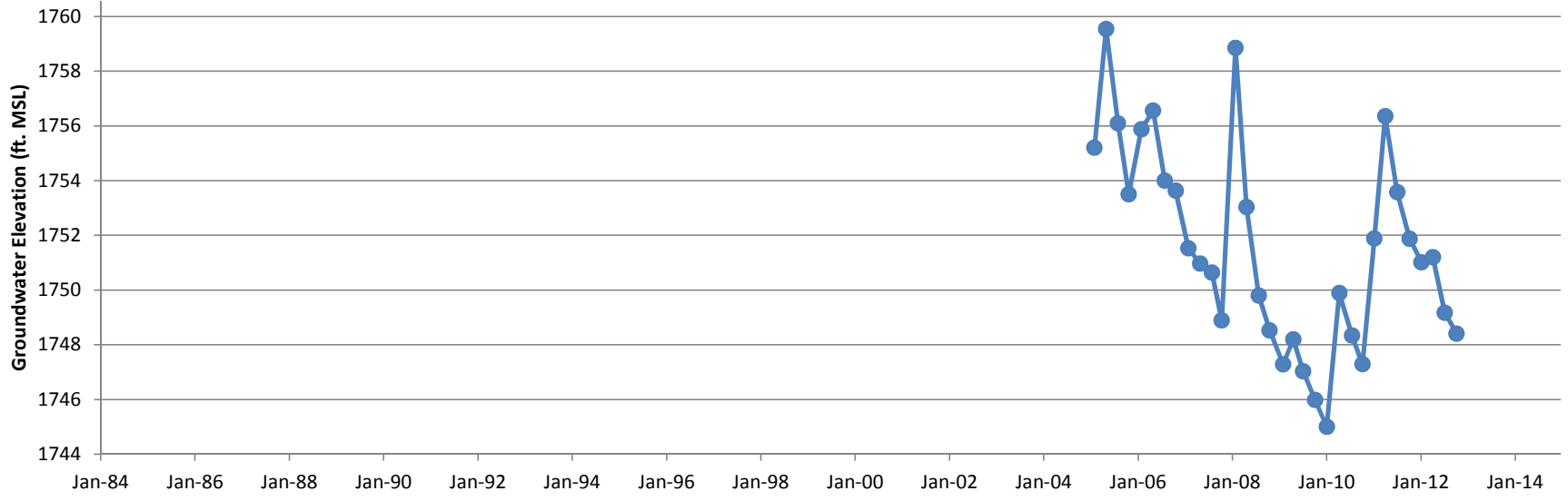
Hydrograph
Groundwater Monitoring Well RD-86

● Groundwater Elevation ○ Dry ▲ Pumping



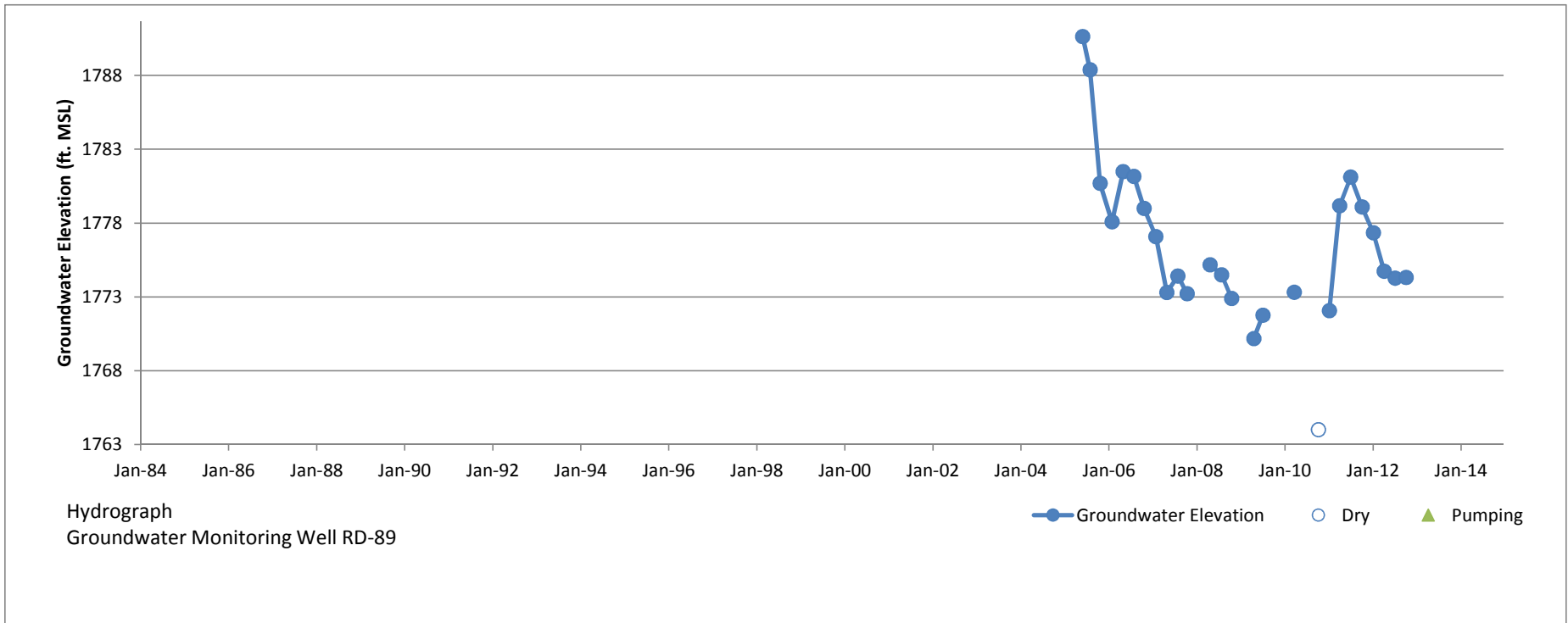
Hydrograph
Groundwater Monitoring Well RD-87

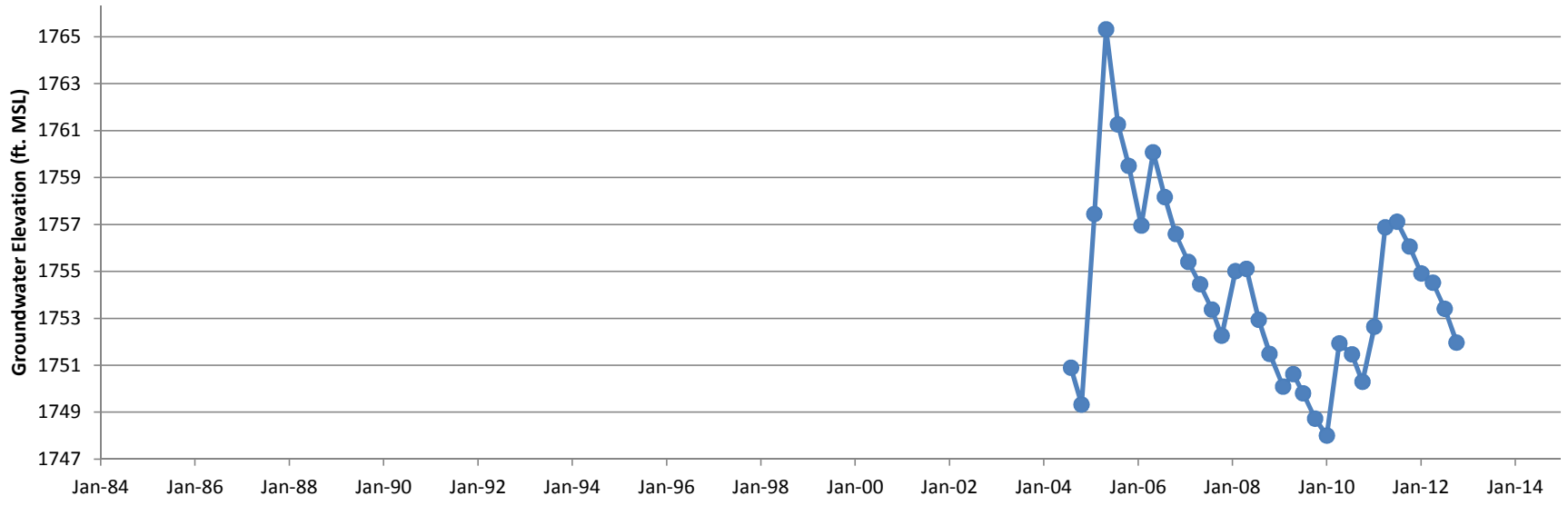
● Groundwater Elevation ○ Dry ▲ Pumping



Hydrograph
Groundwater Monitoring Well RD-88

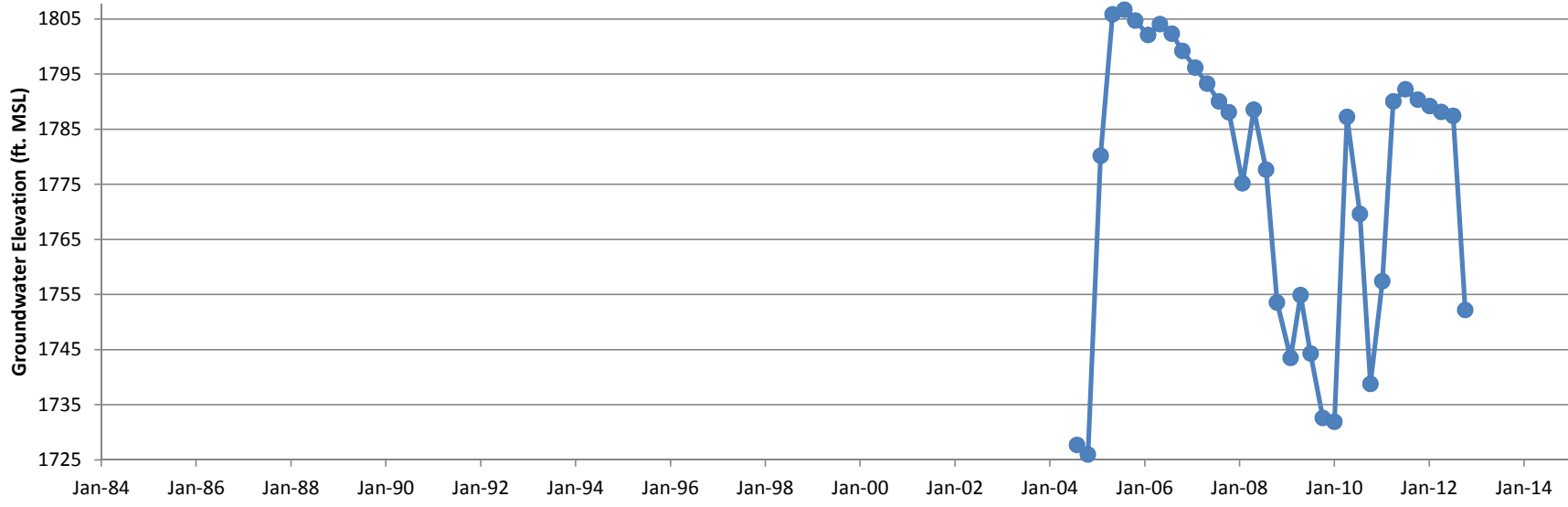
—●— Groundwater Elevation ○ Dry ▲ Pumping





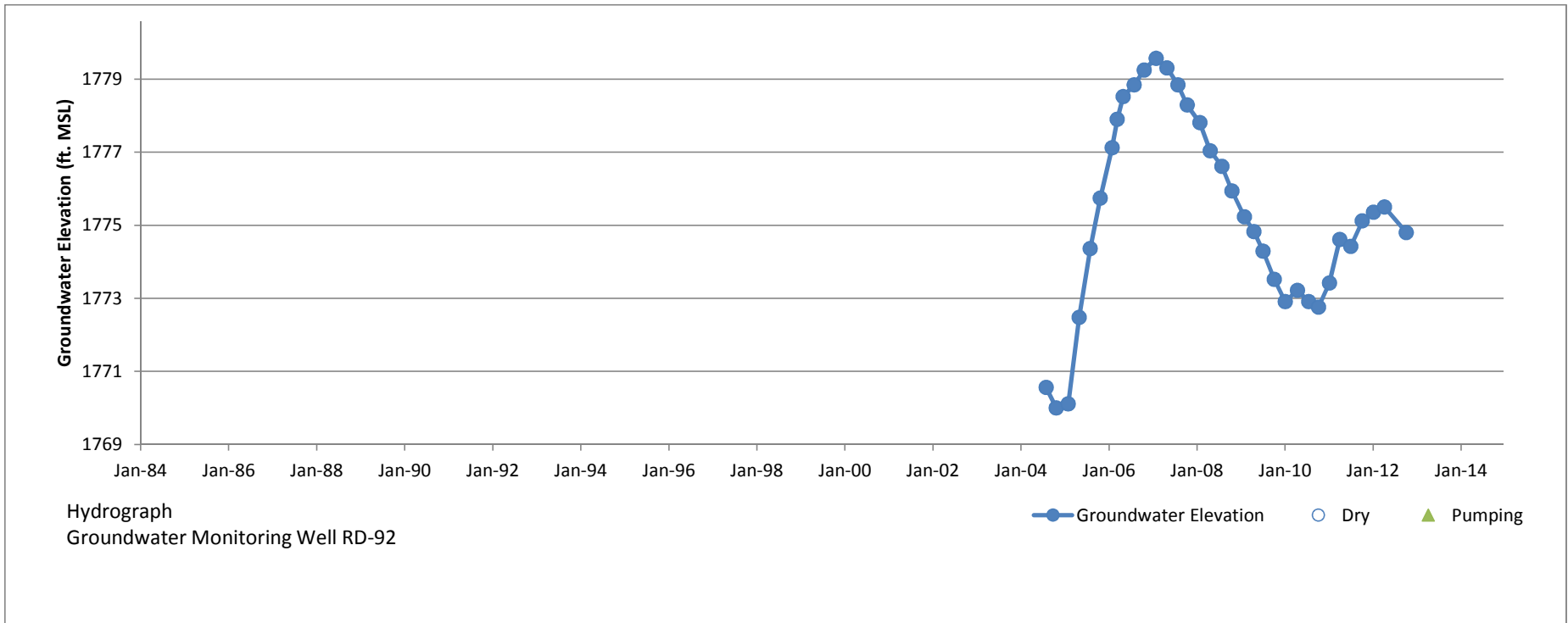
Hydrograph
Groundwater Monitoring Well RD-90

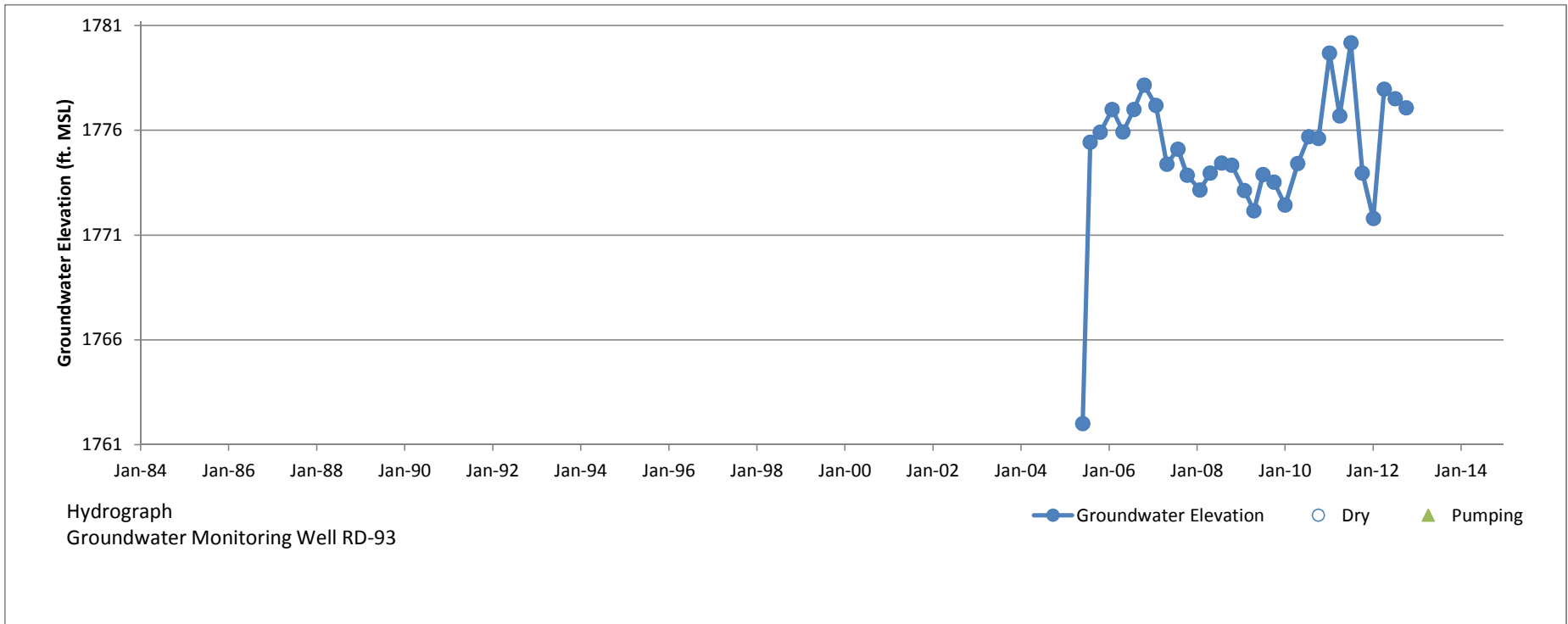
● Groundwater Elevation ○ Dry ▲ Pumping

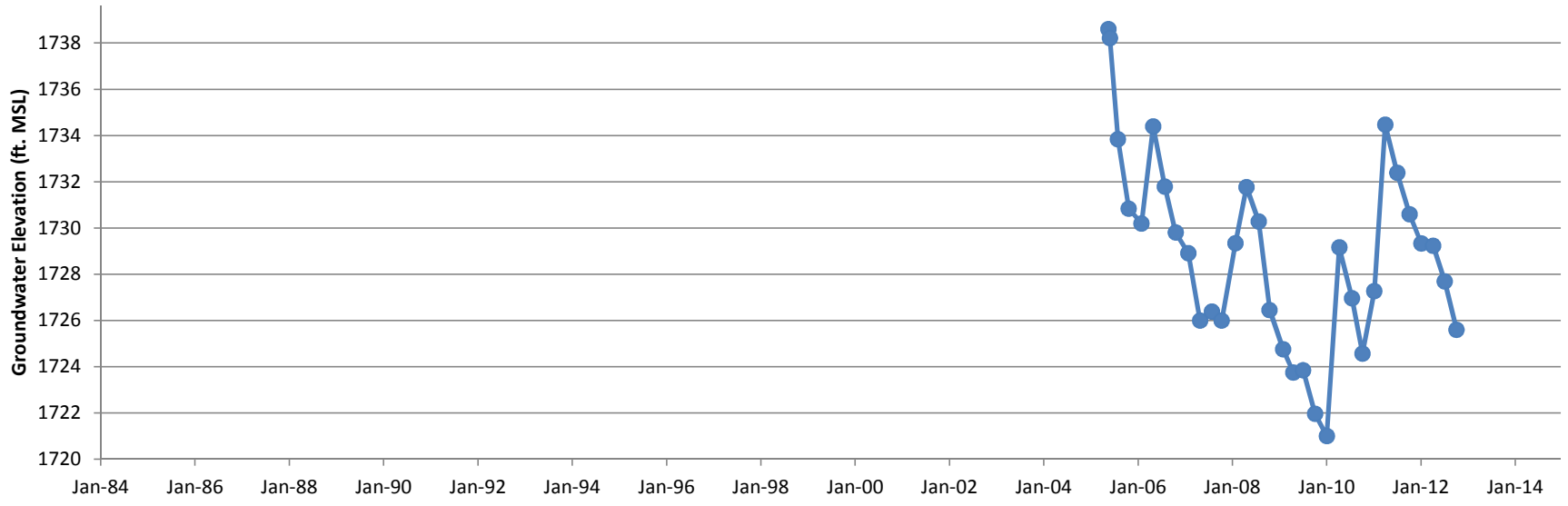


Hydrograph
Groundwater Monitoring Well RD-91

● Groundwater Elevation ○ Dry ▲ Pumping

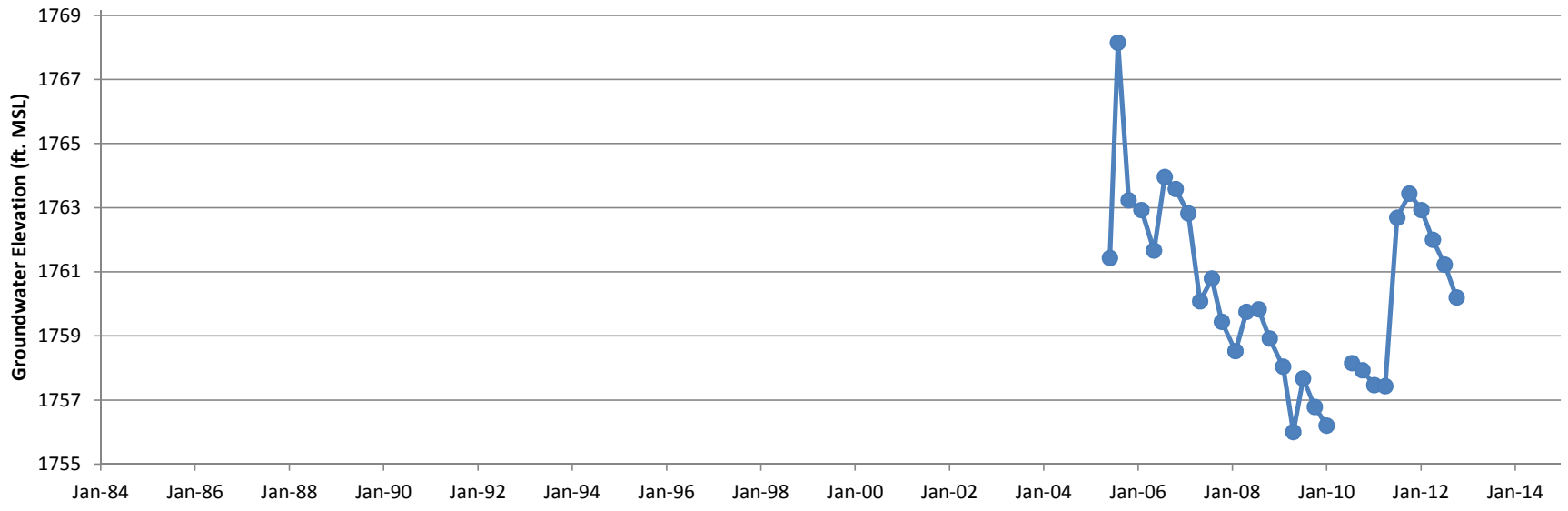






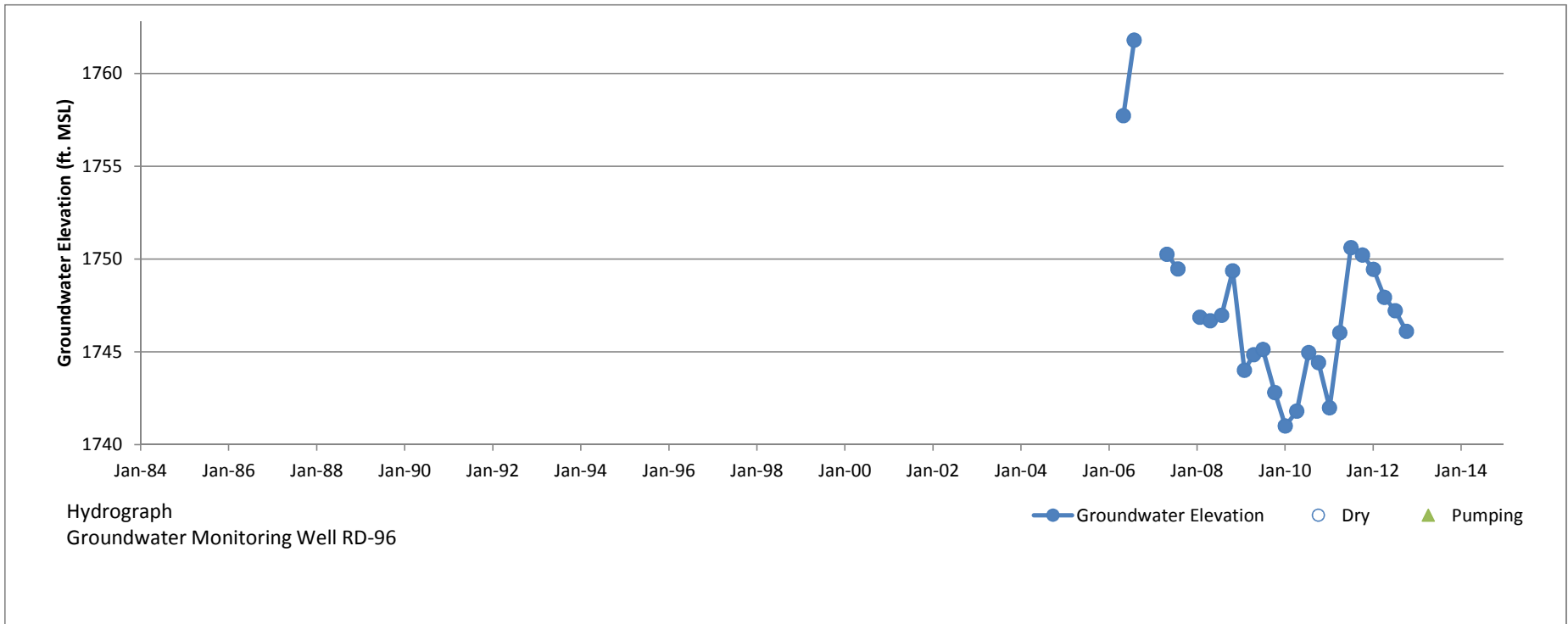
Hydrograph
Groundwater Monitoring Well RD-94

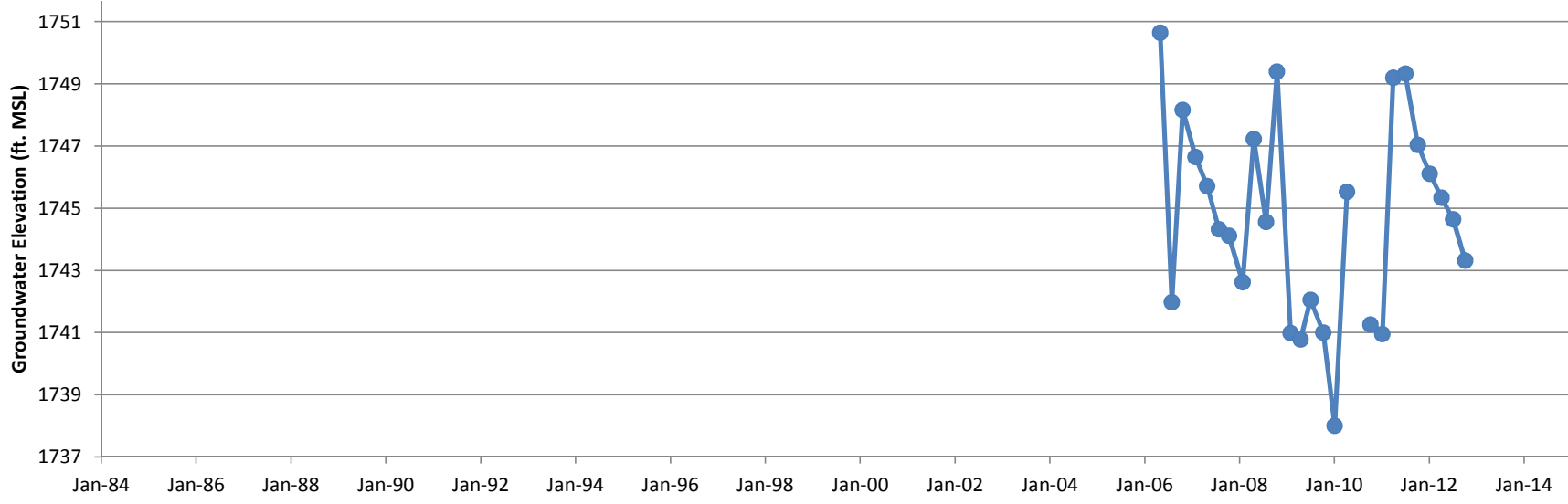
● Groundwater Elevation ○ Dry ▲ Pumping



Hydrograph
Groundwater Monitoring Well RD-95

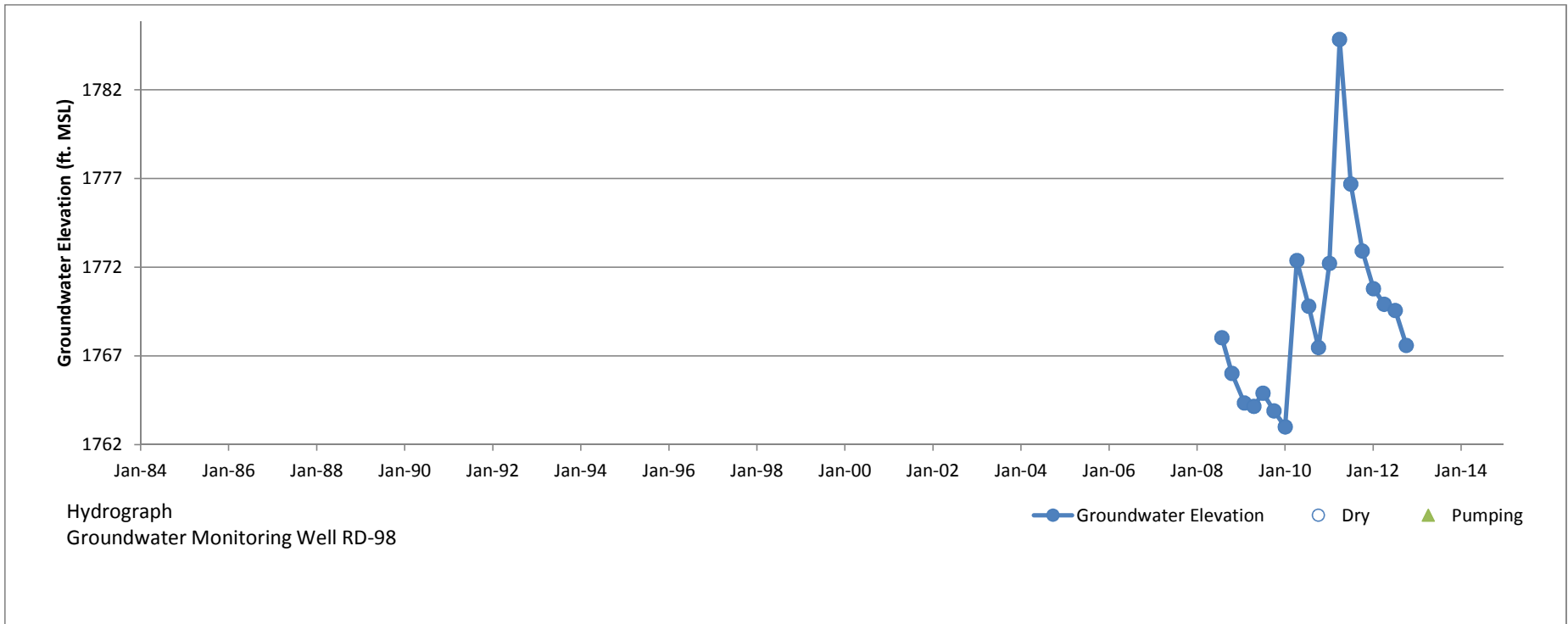
Groundwater Elevation Dry Pumping

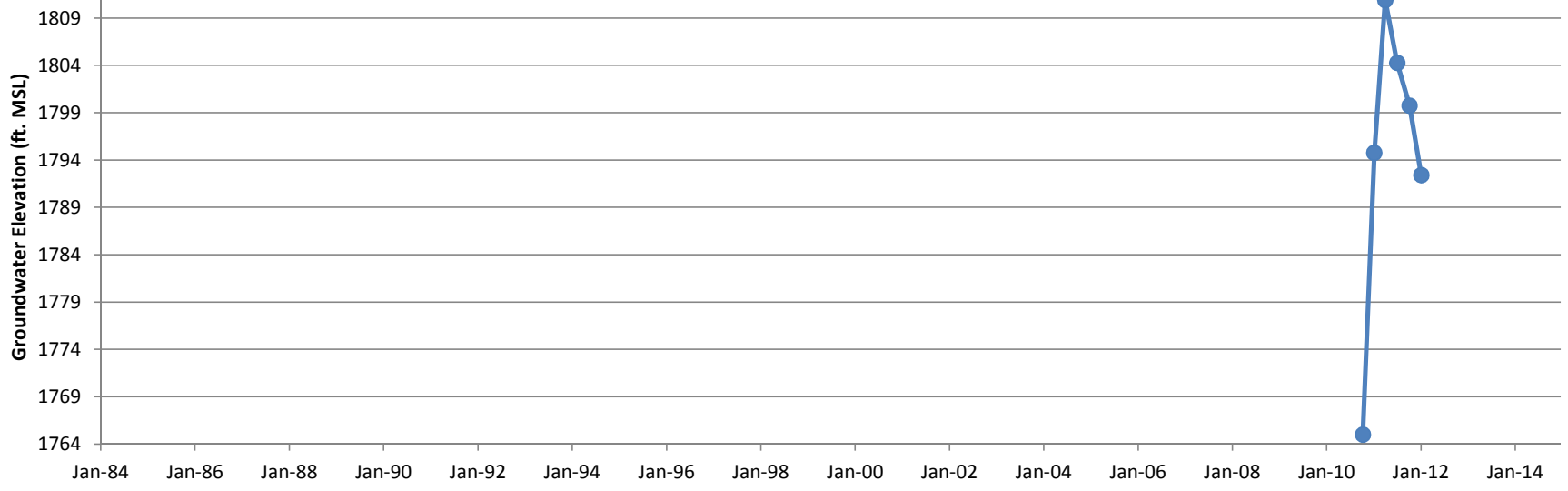




Hydrograph
Groundwater Monitoring Well RD-97

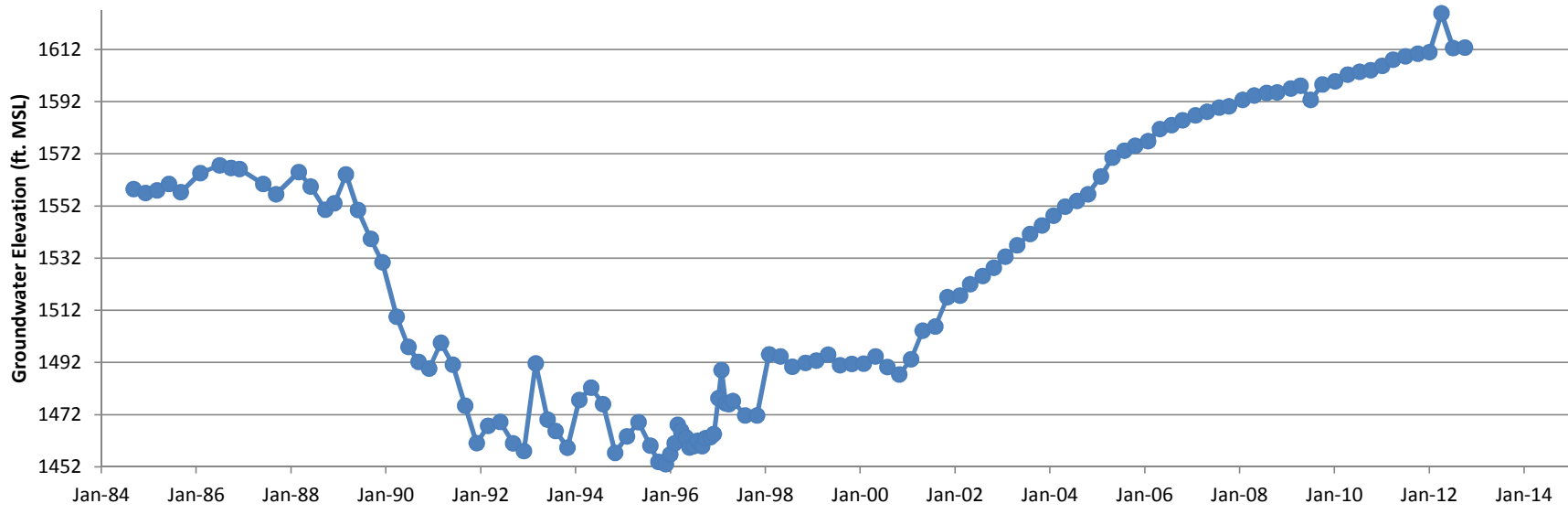
● Groundwater Elevation ○ Dry ▲ Pumping





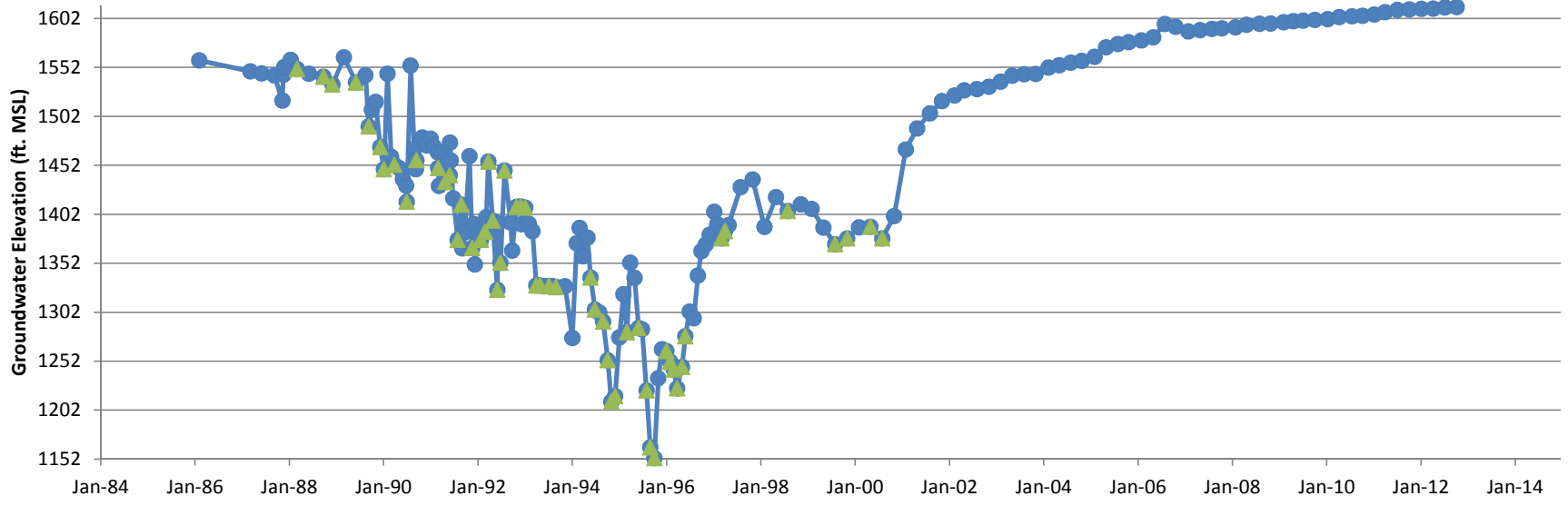
Hydrograph
Groundwater Monitoring Well RD-104

● Groundwater Elevation ○ Dry ▲ Pumping



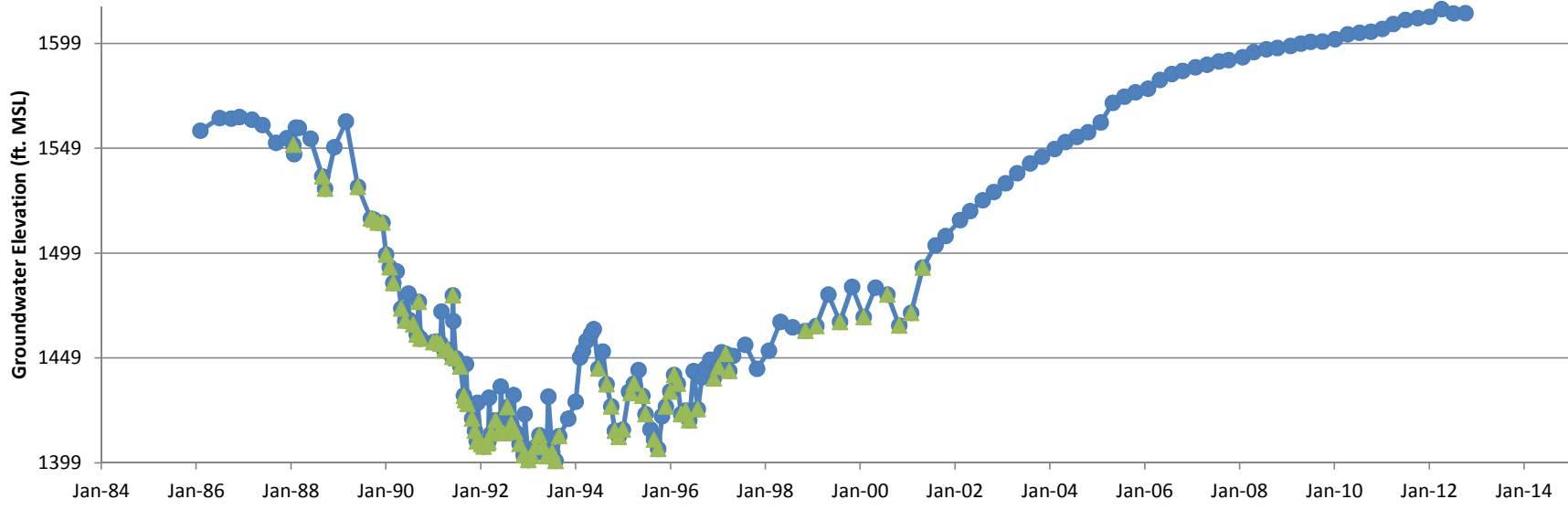
Hydrograph
Groundwater Monitoring Well WS-04A

—●— Groundwater Elevation ○ Dry ▲ Pumping



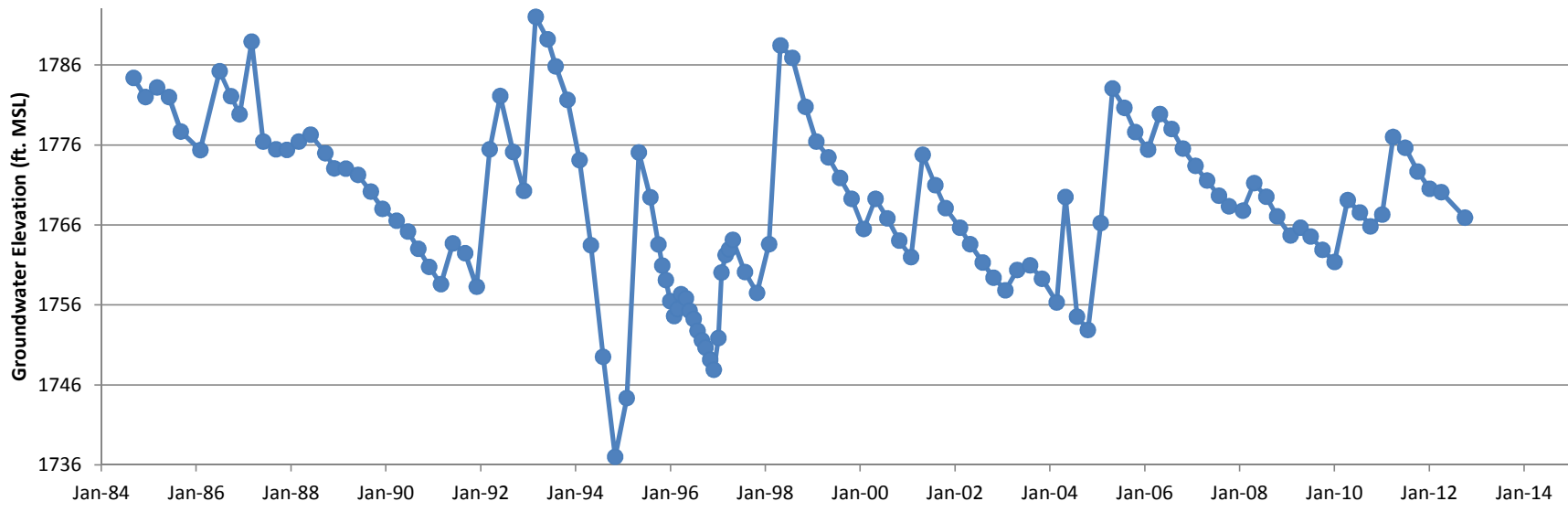
Hydrograph
Groundwater Extraction Well WS-05

● Groundwater Elevation ○ Dry ▲ Pumping



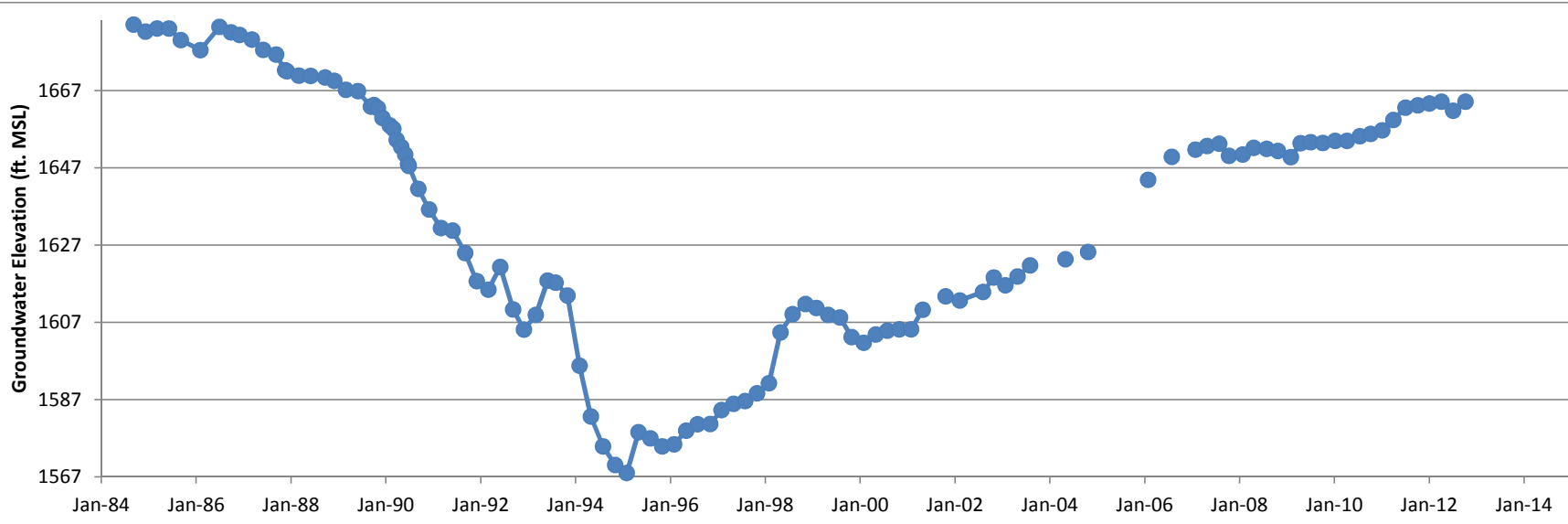
Hydrograph
Groundwater Extraction Well WS-06

● Groundwater Elevation ○ Dry ▲ Pumping



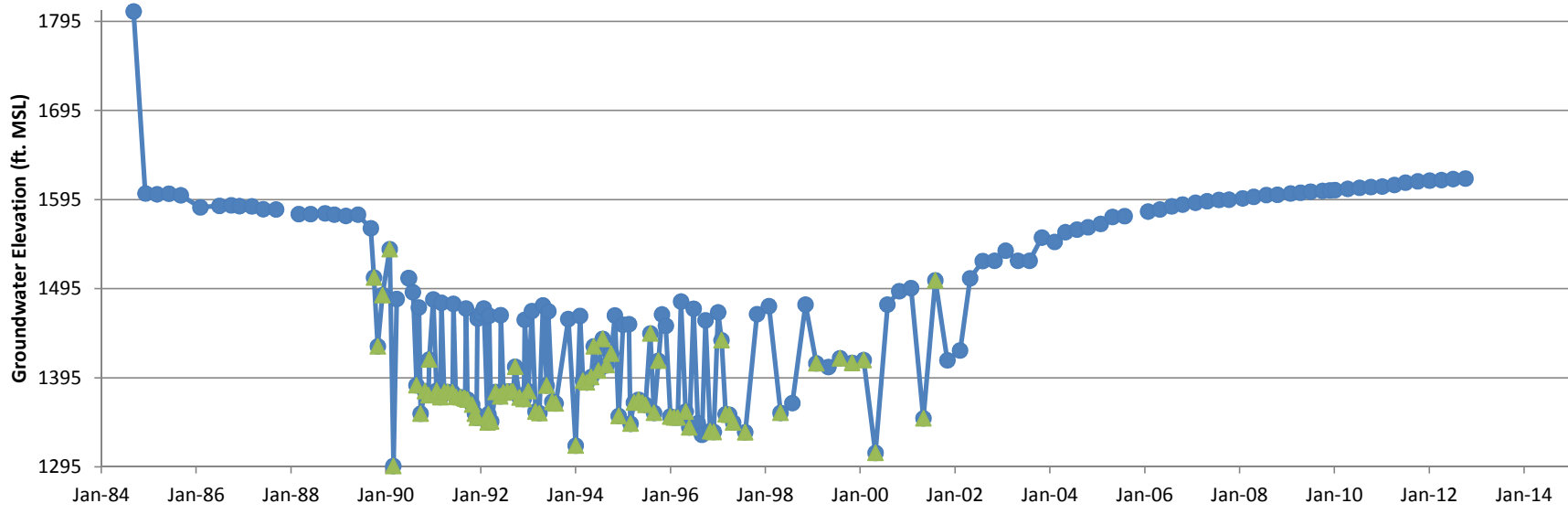
Hydrograph
Groundwater Monitoring Well WS-07

—●— Groundwater Elevation ○ Dry ▲ Pumping



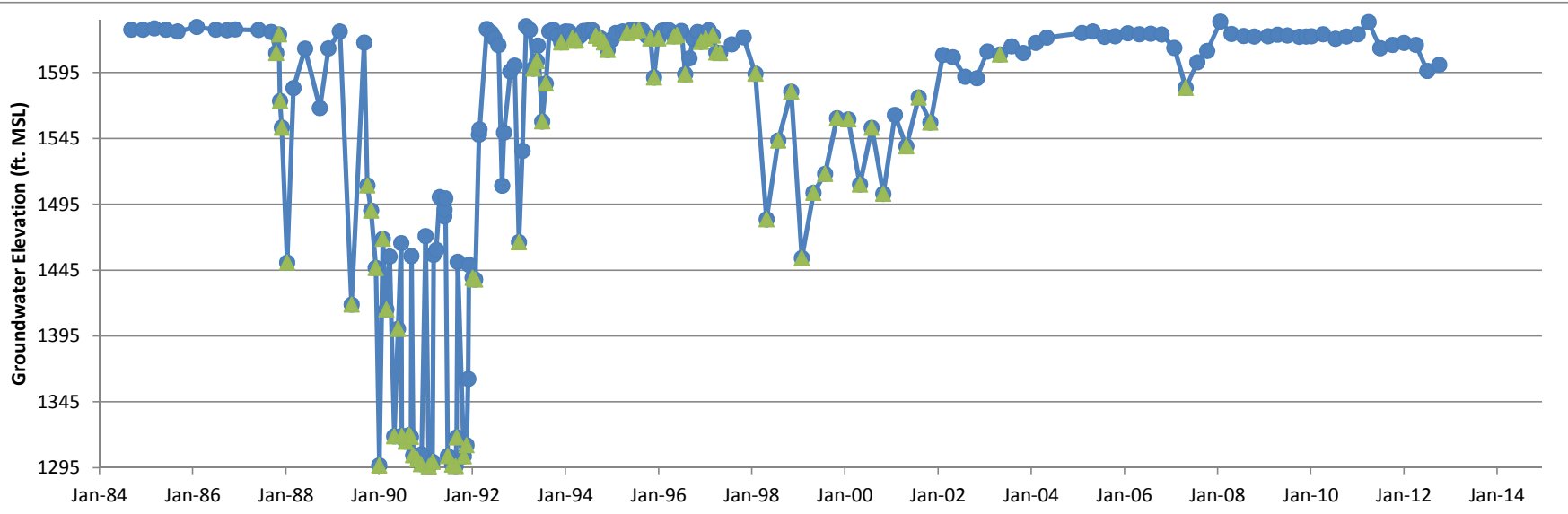
Hydrograph
Groundwater Monitoring Well WS-08

● Groundwater Elevation ○ Dry ▲ Pumping



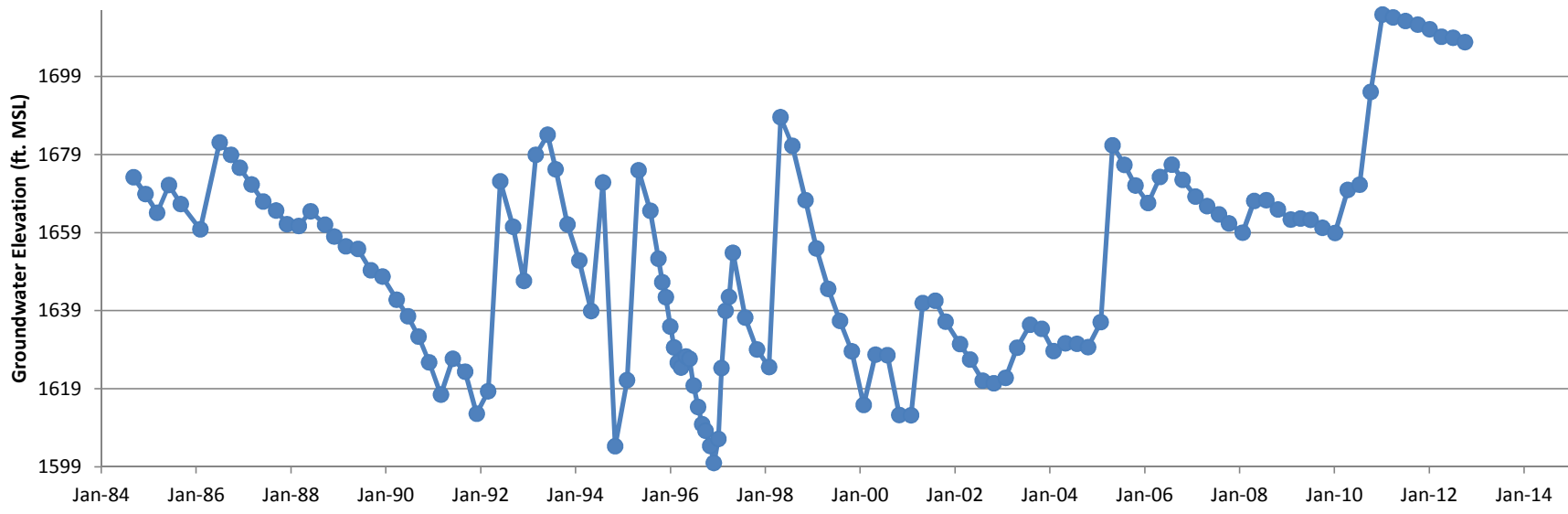
Hydrograph
Groundwater Extraction Well WS-09

—●— Groundwater Elevation ○ Dry ▲ Pumping



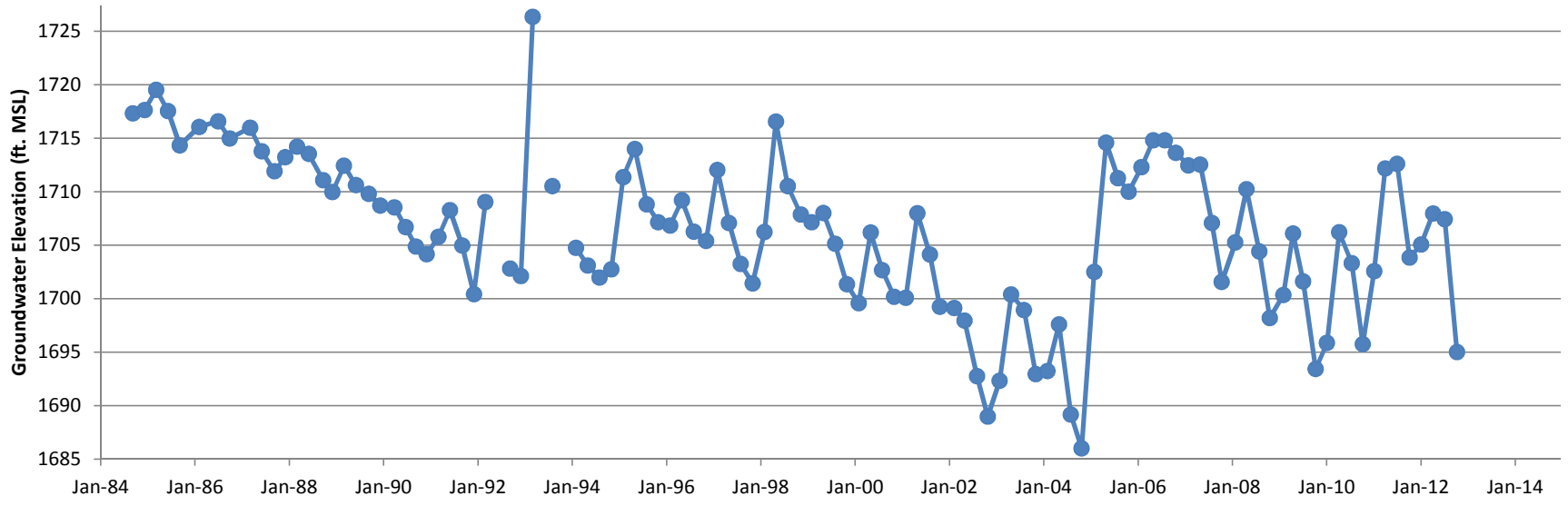
Hydrograph
Groundwater Extraction Well WS-09A

● Groundwater Elevation ○ Dry ▲ Pumping



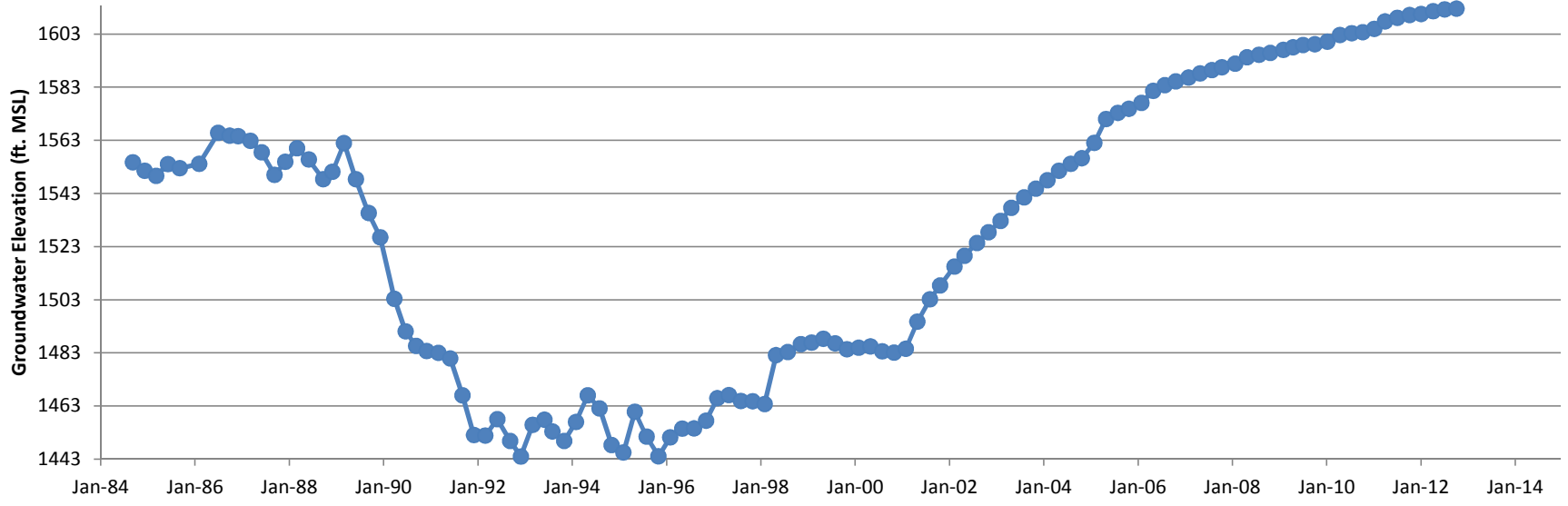
Hydrograph
Groundwater Monitoring Well WS-09B

—●— Groundwater Elevation ○ Dry ▲ Pumping



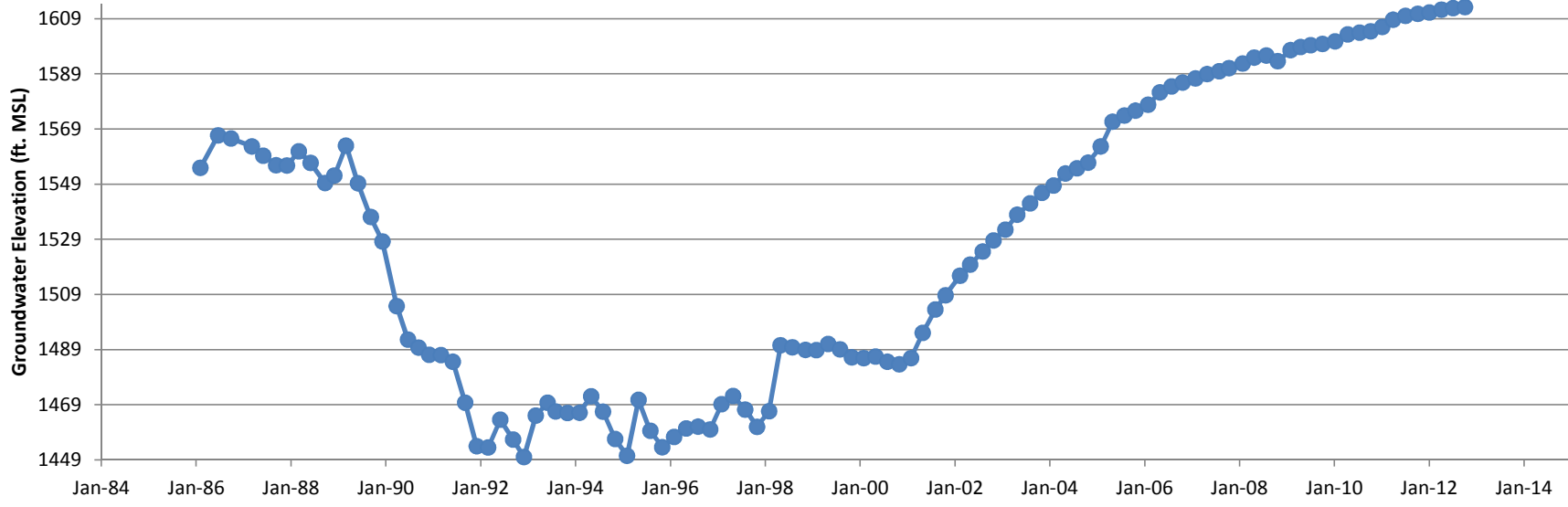
Hydrograph
Groundwater Monitoring Well WS-11

● Groundwater Elevation ○ Dry ▲ Pumping



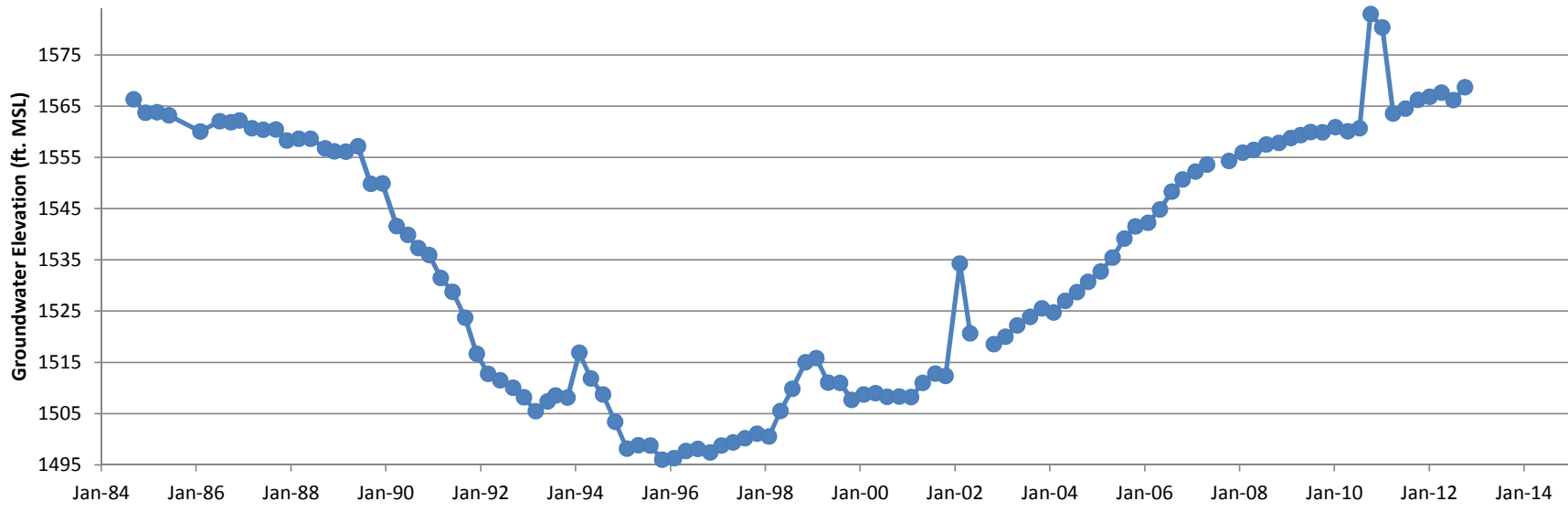
Hydrograph
Groundwater Monitoring Well WS-12

—●— Groundwater Elevation ○ Dry ▲ Pumping



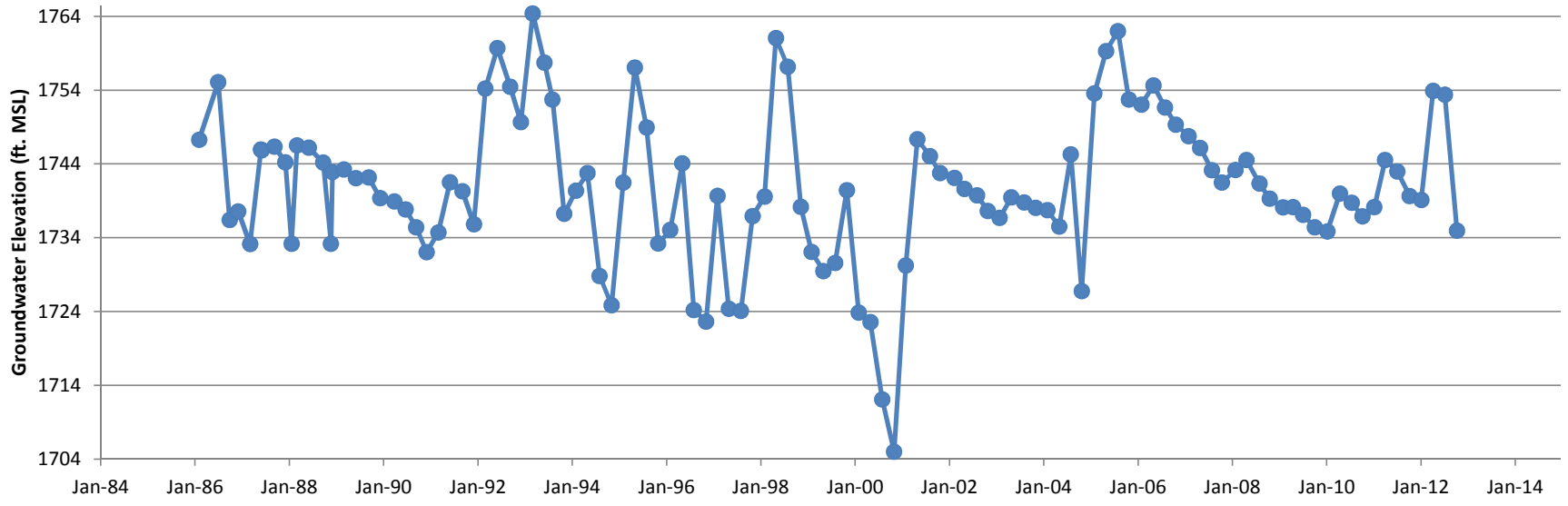
Hydrograph
Groundwater Monitoring Well WS-13

● Groundwater Elevation ○ Dry ▲ Pumping



Hydrograph
Groundwater Monitoring Well WS-14

—●— Groundwater Elevation ○ Dry ▲ Pumping

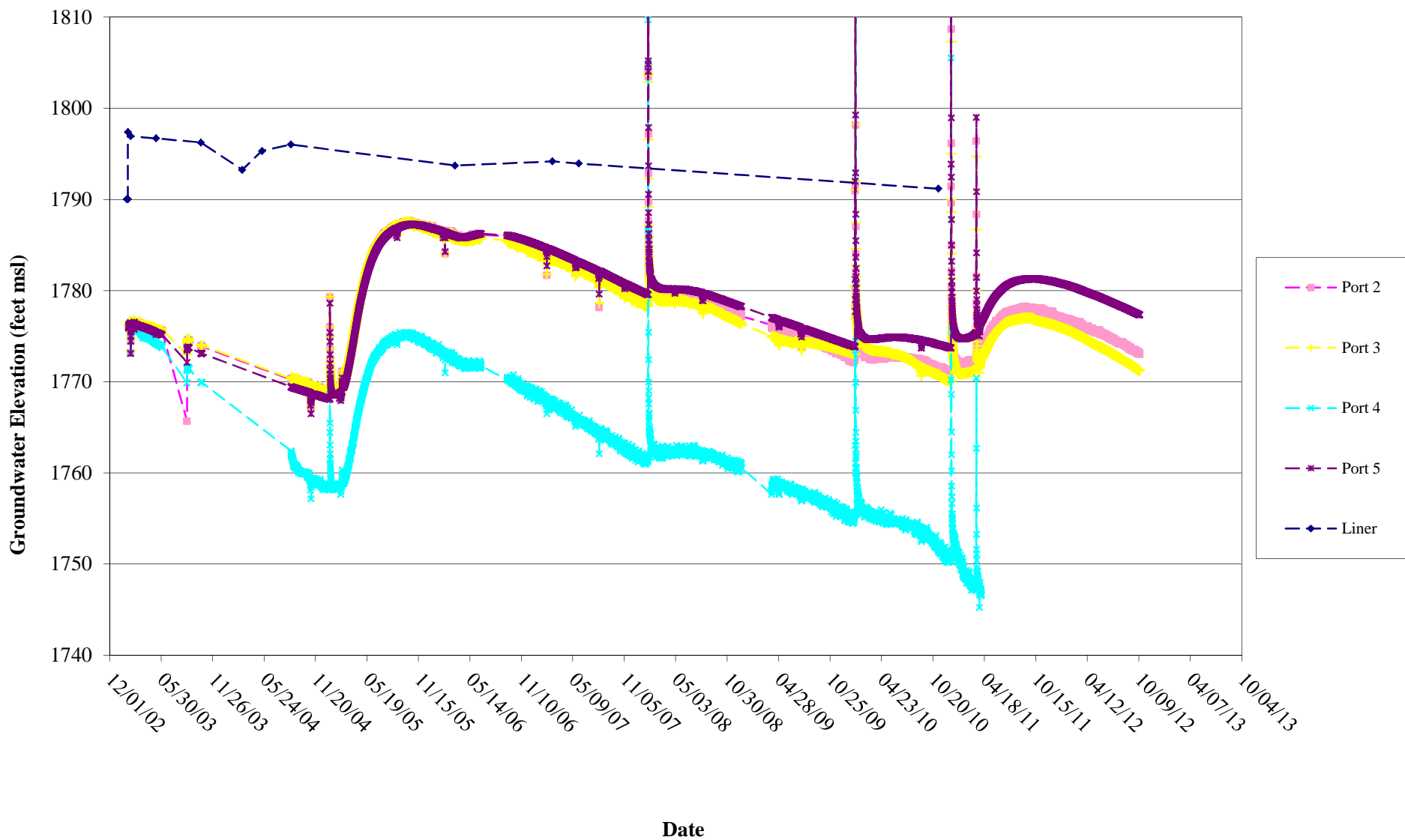


Hydrograph
Groundwater Monitoring Well WS-SP

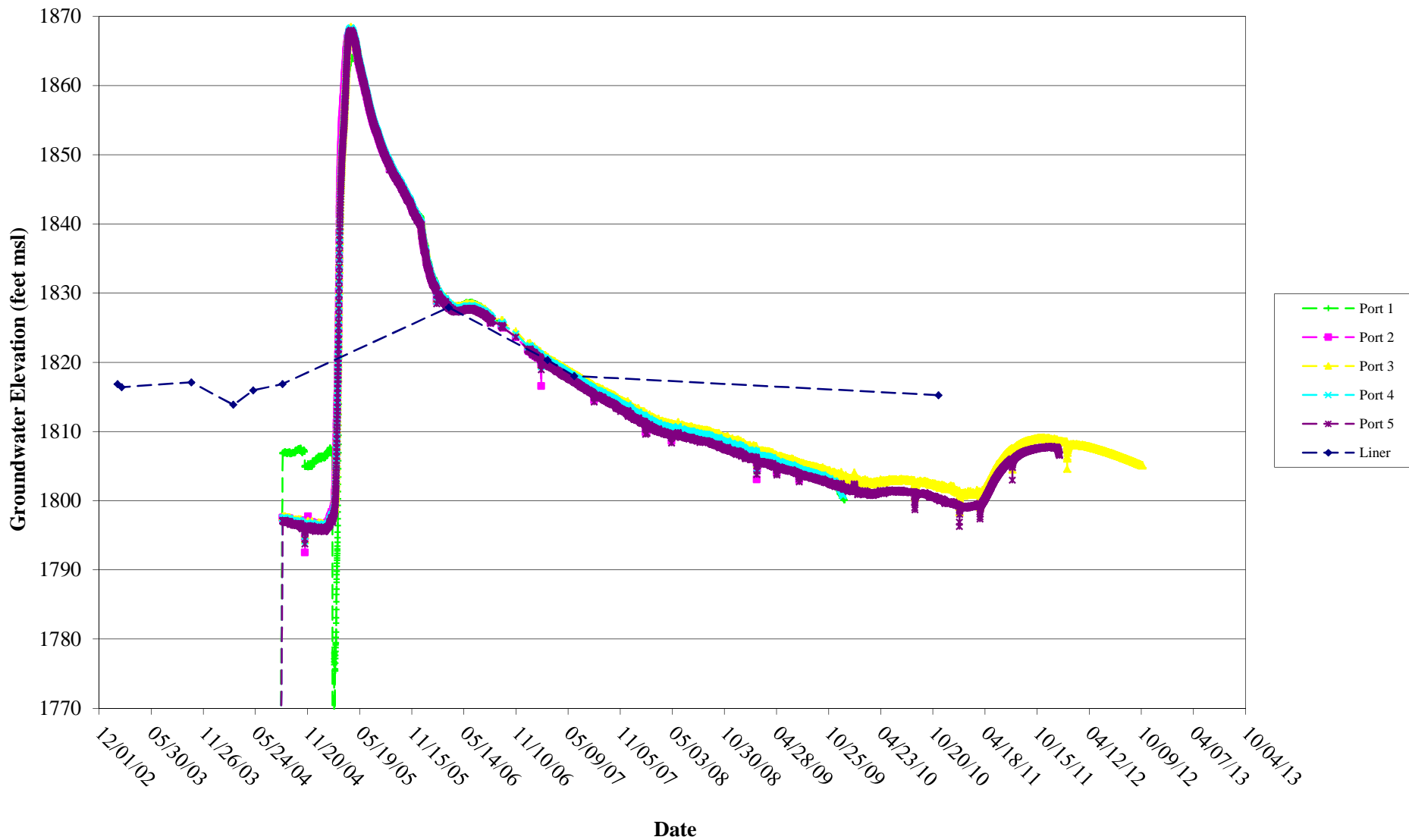
● Groundwater Elevation ○ Dry ▲ Pumping

FLUTe WELLS

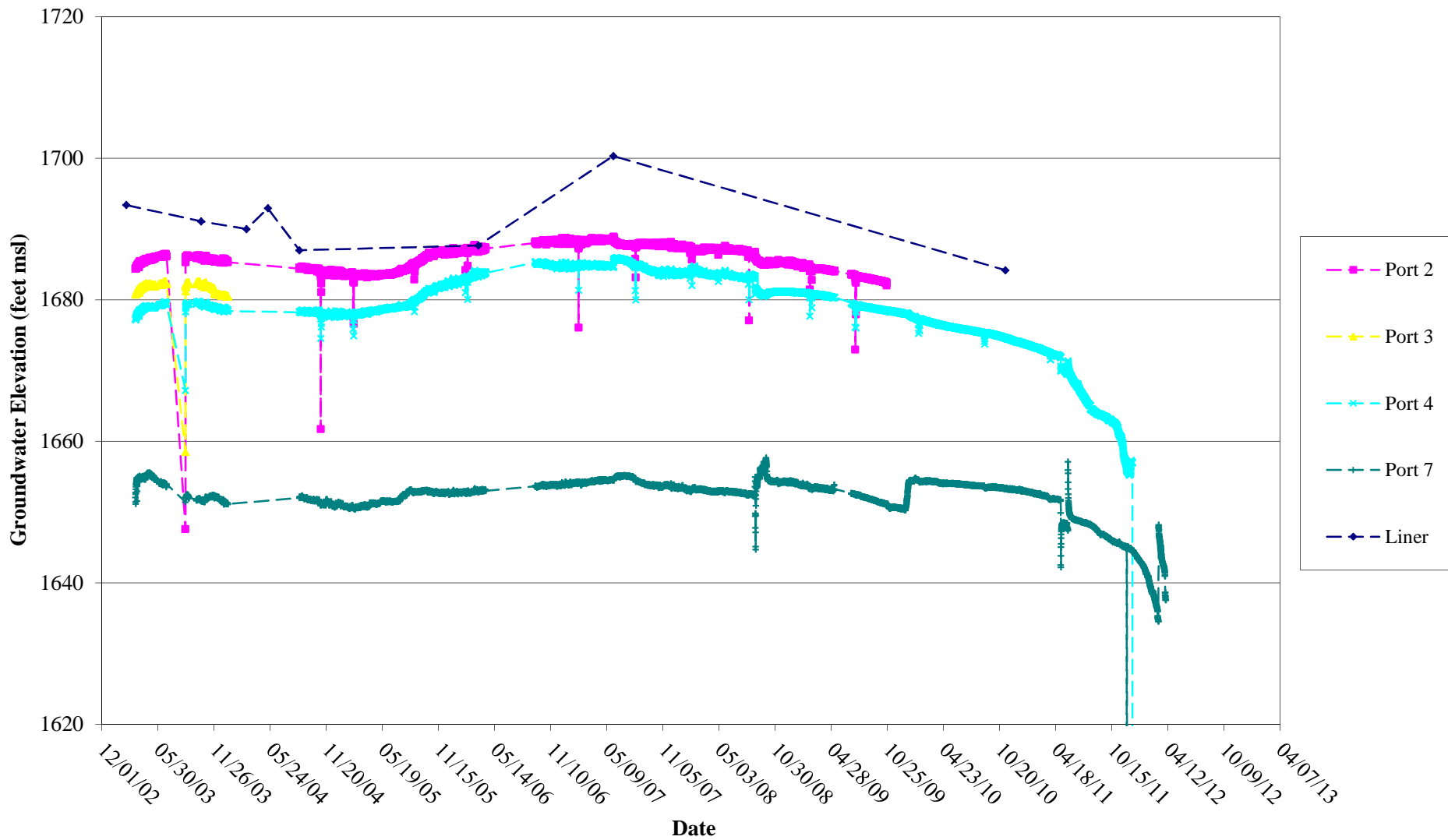
RD-21 FLUTe Liner
Groundwater Elevation vs Time
Top-of-Casing Reference Elevation = 1866.96 feet msl



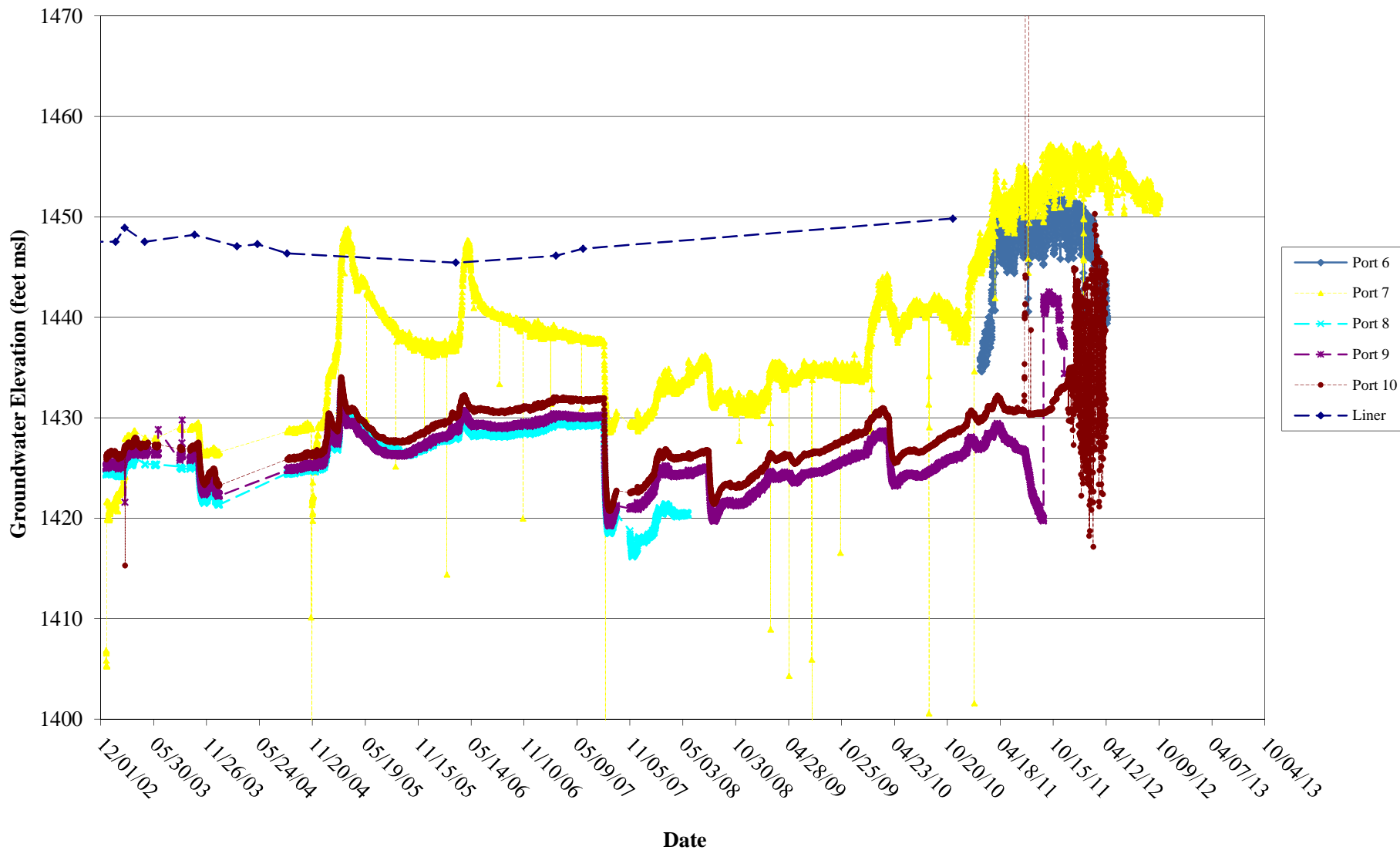
RD-50 FLUTe Liner
Groundwater Elevation vs Time
Top-of-Casing Reference Elevation = 1914.88 feet msl



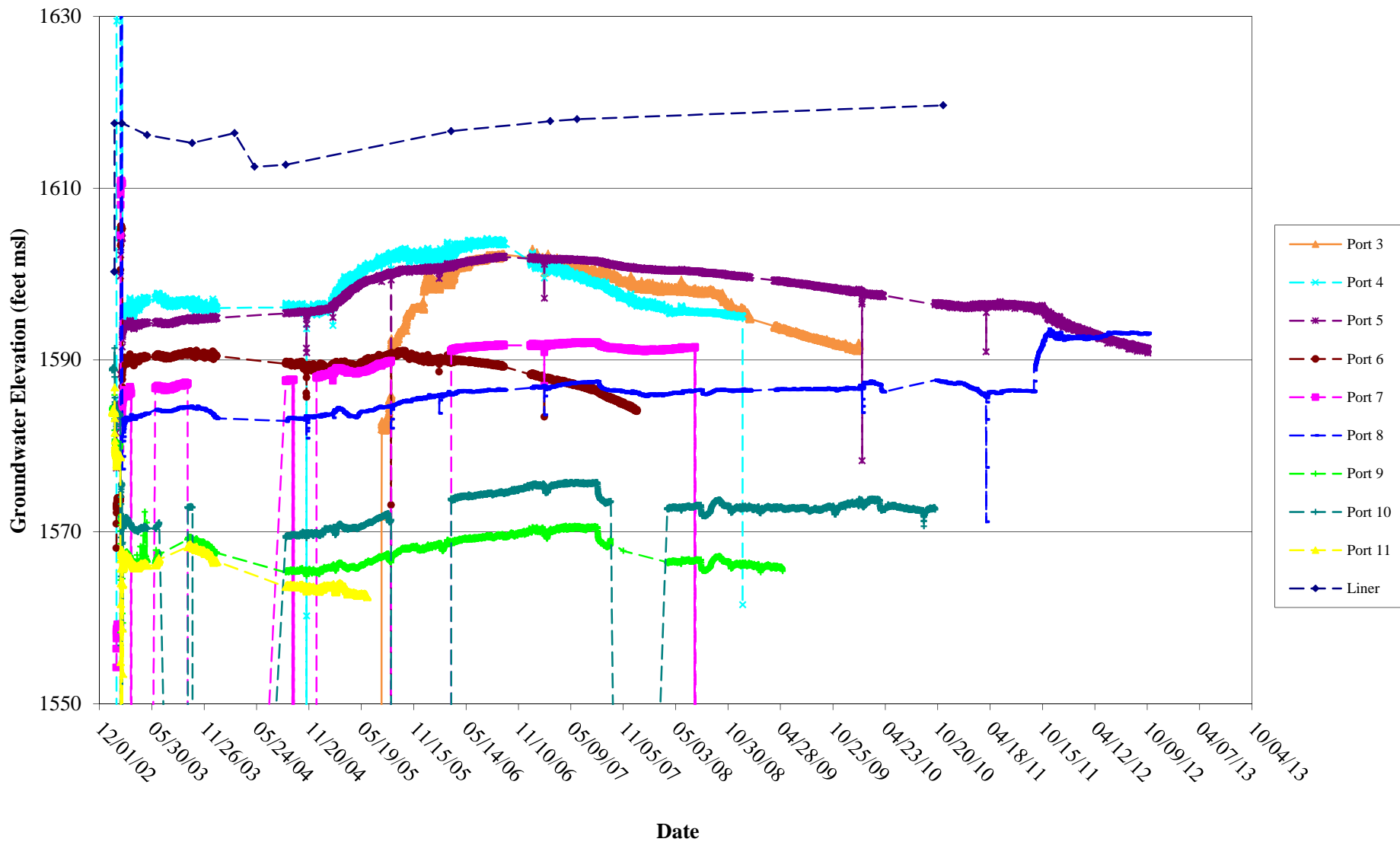
RD-54A FLUTe Liner
Groundwater Elevation vs Time
Top-of-Casing Reference Elevation = 1834.99 feet msl



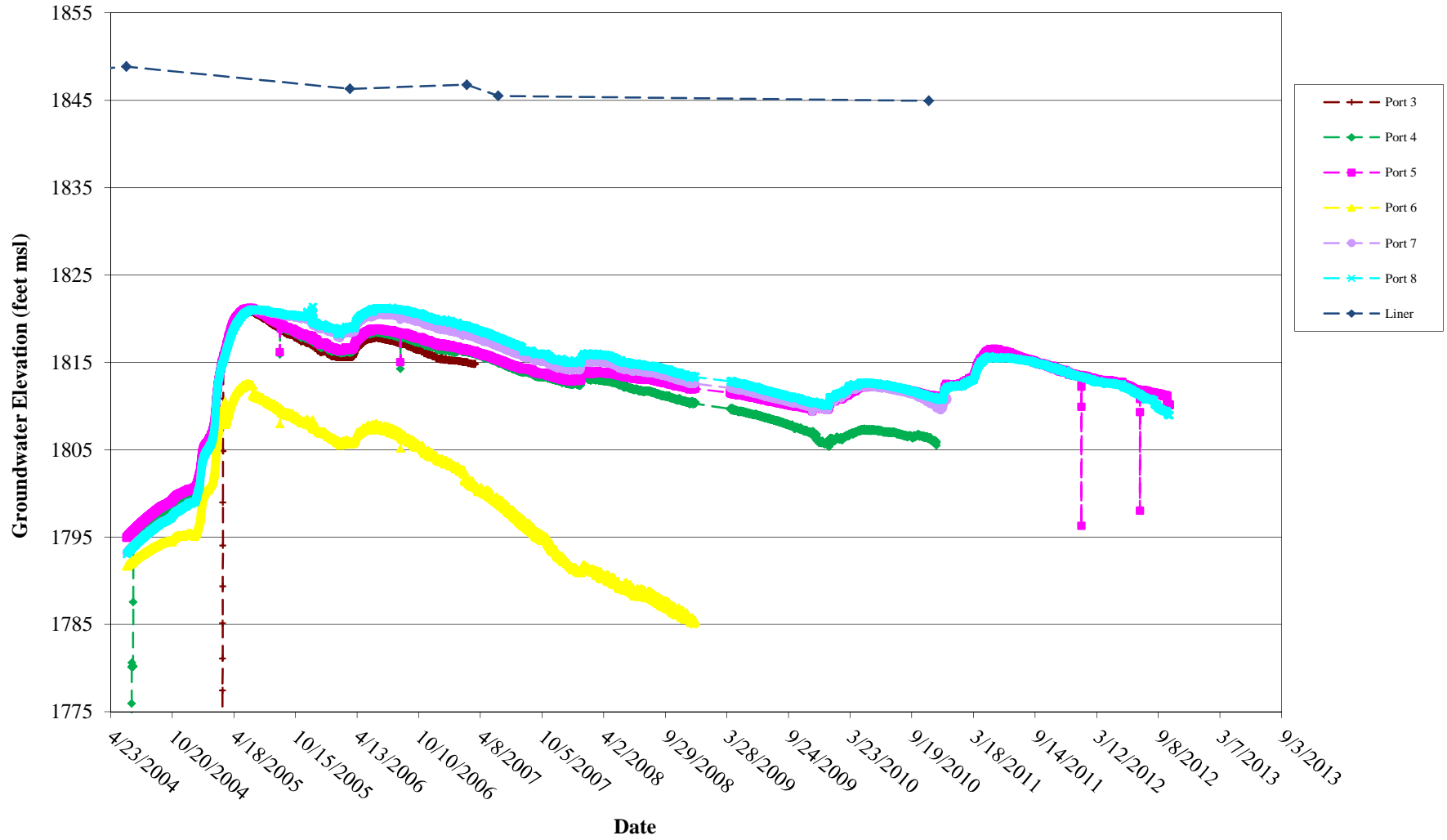
RD-57 FLUTe Liner
Groundwater Elevation vs Time
Top-of-Casing Reference Elevation = 1774.15 feet msl



RD-65 FLUTe Liner
Groundwater Elevation vs Time
Top-of-Casing Reference Elevation = 1819.14 feet msl



RD-72 FLUTe Liner Groundwater Elevation vs Time
Top-of-Casing Reference Elevation = 1907.25 feet msl

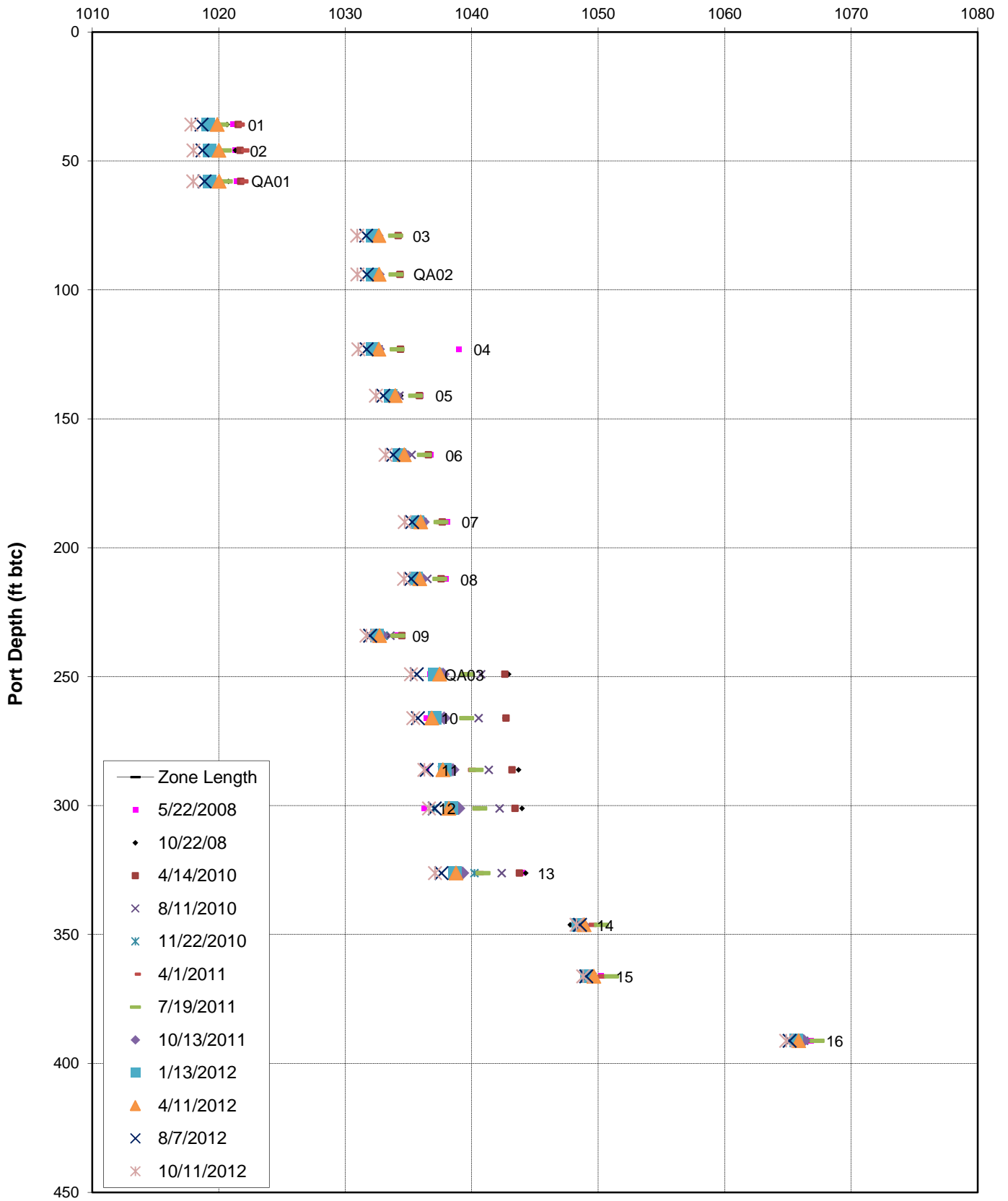


WESTBAY WELLS

Piezometric Profile

OS-09R Westbay Multilevel System

Groundwater Elevation (ft MSL)



Piezometric Profile RD-31 Westbay Multilevel System

Groundwater Elevation (ft MSL)

