



Sierrita Operations
Environment, Land & Water Department
6200 West Duval Mine Road
PO Box 527
Green Valley, Arizona 85622-0527

March 31, 2010

Via Certified Mail # 7008 2810 0000 0983 6260
Return Receipt Requested

Ms. Cynthia S. Campbell
Arizona Department of Environmental Quality
Water Quality Compliance Section
1110 West Washington Street
Phoenix, Arizona 85007-2935

Re: Mitigation Order on Consent Docket No. P-50-06
January 1 through March 31, 2010 Status Report

Dear Ms. Campbell:

In accordance with Section V.A. of the Mitigation Order on Consent Docket No. P-50-06, Freeport-McMoRan Sierrita Inc. (Sierrita) submits the Status Report covering the period from January 1, 2010 through March 31, 2010.

Since the last Status Report was submitted, the following measures have been taken under Section III of the Mitigation Order:

- Sierrita completed first quarter 2010 groundwater monitoring activities.
- The first CAG meeting of the year was held on March 29, 2010 to update members of the group of status of the State Trust land purchase, submittal of Final Conceptual Wellfield Design, status of new wells permitting, and to review results of the 2009 fourth quarter and 2010 first quarter groundwater monitoring activities.
- Continued work to acquire State Trust land.
- Continued work to obtain the easements and/or rights-of-way on public or private land where new wells and associated infrastructure will be placed.
- Continued work to obtain ADWR permits for the new interceptor wells (formerly SC wells)
- Prepared the 2009 interceptor well field operations monitoring report

During the next quarter, the following activities will be completed:

- Bid and award contract for engineering design.
- Bid and award contract for drilling of new wells not dependant on purchase of State land (Interceptor and PS wells)
- Continue working in obtaining ADWR permits for new interceptor (IW) wells
- Hold the next CAG meeting around mid to late June.
- Continue working to obtain the easements and/or right-of-ways on public or private land where new wells not dependant on purchase of State Land will be placed.
- Conduct quarterly groundwater monitoring according to the revised groundwater monitoring schedule.

Also, please find attached the 2009 Interceptor Well Field Operation Monitoring report, which Sierrita agreed to submit in the Mitigation Plan approval deferral letter sent to ADEQ on March 18, 2009.

Please do not hesitate to contact Mr. Stuart Brown at (602)448-0972 or myself at (520) 393-4435 if you have any question regarding this submittal.

Sincerely,



Martha G. Mottley
Chief Environmental Engineer
Freeport-McMoRan Sierrita Inc.

MGM:ms
Attachment
2010331_003

xc: Michael Fulton, Arizona Department of Environmental Quality
John Broderick, Sierrita
Chad Fretz, Sierrita
Ned Hall, Freeport-McMoRan Copper & Gold
Stuart Brown, Freeport-McMoRan Copper & Gold
Jim Norris, Clear Creek Associates

FREEPORT-MCMORAN SIERRITA INC.

2009 OPERATIONS MONITORING REPORT OF INTERCEPTOR WELLFIELD PERFORMANCE

All interceptor wells in the well field operated virtually all of 2009, with only small amounts of down time recorded at some wells due to system power interruptions, pipeline repairs, or maintenance activities. Typical maintenance activities done during the reporting year included leak repair, pump column pipe replacement, pump repairs, and well rehabilitation (bailing and brushing).

The operational run time for the wellfield was approximately 92 %, wellfield average pumping rate was 4,361 gpm, and total groundwater pumped from the interceptor wellfield in 2009 was about 7,035 acre-feet (Table 1). It is important to note that 100 % run time is not possible to achieve given that routine maintenance (e.g. pump replacement and well rehabilitation) must occur on the wellfield infrastructure to keep it operational.

Groundwater pumping from the interceptor wellfield has generally increased since 1979, when the first wells began pumping; however, decreased saturated aquifer thickness in recent years has resulted in reduced pumping capacity from some of the wells, particularly in the north wellfield.

Groundwater level hydrographs for the period 2003 through 2009 for monitor are shown in Appendix A. Inspection of the hydrographs indicates that groundwater levels declined in all three parts of the wellfield during this time period. The water level declines are likely due to drawdown caused by increased pumping of groundwater from some parts of the wellfield during this period.

In the south wellfield, the large saturated thickness of basin-fill deposits allows larger groundwater pumping rates. Wells in the south wellfield are capable of pumping 300 to 1,000 gallons per minute (gpm). In the middle wellfield, moderate aquifer thickness results in pumping rates on the order of 150 to 400 gpm.

In the north wellfield, the relatively small saturated thickness of basin-fill deposits results in small groundwater yields. Because of decreasing aquifer thickness, the sustainable pumping rate for the north wellfield has decreased significantly from its original design pumping capacity. During 2009, average operational pumping rates in the north part of the wellfield ranged from 5 to 205 gpm. Production in some of the wells in the north wellfield is so low that Sierrita recommends that wells with production less than 40 gpm be shut down, since these wells are unlikely to have an impact on the capture effectiveness of the tailings impoundment seepage.

Because of small pumping capacity at well IW-7 and poor well conditions at wells IW-2, IW-3 and IW-6, these wells are presently unequipped and capped, and were replaced by wells IW-2A, IW-3A and IW-6A. IW-7 won't be replaced, but a replacement well for IW-1 (which is located immediately east of IW-7) is scheduled to take place in 2012.

Sulfate concentrations during the period 2003 through 2009 are shown in Appendix A. In general, sulfate concentrations have remained the same at all IW-wells, ranging from 1,200 to 2,000 milligrams per liter (mg/L) with some slight variations, with the exception of IW-1 and IW-2A, where concentrations range from 50 to 700 mg/L.

WELLFIELD AND CONVEYANCE SYSTEM MAINTENANCE ACTIVITIES YEAR 2009

Interceptor Well #1

During a well field data evaluation in March 2009, a large decline in the pumping rate was noted. To further investigate this matter a sand Rossum tester was placed on the well, but after 3 days of testing results show no solids (sand) were present in the water. The lateral was adjusted to determine if the bowls in the pump were dragging on the pump casing. After raising and lowering the lateral on the pump, no drag was observed. Vibration analysis show no vibration or alignment issues. It's been determined that this well needs to be replaced. Its replacement has been scheduled to take place in 2011.

Interceptor Well #3A

46 feet of 8" pipe was replaced on July 2009 after several leaks were discovered in the discharge header. On 11/23/09 the well failed: the shafts were spinning but no water was making it to the discharge pipe. The well pump was pulled out, and while doing this it was discovered that the coupling on the shaft sheared in half 20 feet above the pump. The pump was replaced with a rebuilt pump on 12/2/09. On 12/07/09 brushing and bailing of the well commenced, and was completed on 12/15/09. The well produced an additional 125 gpm after the brush and bail job.

Interceptor Well #4

On 7/10/2009 while the well was off line, it was observed that water was flowing back into the well. The valve was replaced, however the problem continued. The well was inspected again and it was determined that it needed to be rehabilitated. On 7/23/09 work was initiated to bail and brush the well, as well as to replace the pump. Work was concluded on 8/14/09 and the initial pumping rate was up to 260 gpm, however, a week later it was discovered the flow meter was not working properly and a new one was ordered. The new flow meter was installed on 12/1/09.

Interceptor Well #5

On 2/23/09 water production stopped and upon inspection of the well a hole in the column pipe was discovered. The damaged pipe was replaced on 2/25/09 and the well was placed back in service. On 7/24/2009 it was discovered that the pressure transducer was not functioning correctly. The transducer was removed and replaced with a new one.

On 10/21/09 work to switch the submersible pump with a smaller pump capable of pumping 85 gpm against 550 Total Dynamic Head commenced. Installation was completed on 10/22/09, and the well was back on line on 10/23/09, with the pump producing 97 gpm.

Interceptor Well #6A

On 3/15/2009 production from this well dropped from 100 to 32 GPM. A hole in the column pipe was suspected. The pump and column pipe were pulled, and a hole in the nipple above pump was found. The damaged part was replaced with a pipe with dielectric nipple and the well was back in service on 3/23/2009

Interceptor Well #8

A couple of minor leaks in the pipe were found on February, May and August of 2009. The leaks were fixed within days. Production was not affected.

Interceptor Well #9

No major maintenance was completed in 2009

Interceptor Well #10

No major maintenance was completed in 2009

Interceptor Well #11

No major maintenance was completed in 2009

Interceptor Well #12

No major maintenance was completed in 2009

Interceptor Well #13

On 7/23/09 the starter had to be replaced because it shorted out.
A new header was installed on 12/01/09 because several holes were found on the pipe.

Interceptor Well #14

No major maintenance was completed in 2009

Interceptor Well #15

No major maintenance was completed in 2009

Interceptor Well #16

On 12/1/09 the well header was replaced with a new header

Interceptor Well #17

On 10/20/2009 the submersible pump was replaced with a smaller pump capable of pumping 5 gpm at 550 TDH. The well had to be continuously reset for several weeks prior to this date because it kept tripping on low flow conditions. The Electrical/Instrumentation department had to change the low flow parameters in the Remote Operating Control system to allow this well to pump at such a low rate.

Interceptor Well #18

No major maintenance was completed in 2009

Interceptor Well #19

No major maintenance was completed in 2009

Interceptor Well #20

No major maintenance was completed in 2009

Interceptor Well #21

On 3/18/2009 Sierrita personnel replaced defective spool piece on the discharge line. A minor leak in the pipe was repaired on 6/11/09.

Interceptor Well #22

No major maintenance was completed in 2009

Interceptor Well #23

On 1/9/2009 work to brush and bail this well was completed and the well was back in service and pumping 195 gpm. This work started on 12/08/08

Interceptor Well #24

No major maintenance was completed in 2009

TABLE 1

TABLE 1
SUMMARY OF 2009 INTERCEPTOR WELL PERFORMANCE
FREEMPORT-MCMORAN SIERRITA, INC.

Well Identifier	Monitoring Date	Time	Totalizer Reading (gallons)	Hour Meter Reading (hours)	Pumping Rate (gpm)	Well Head Pressure (psi)
IW-1	30-Dec-08	14:01	1,073,394,000	12,593	297	11
	16-Jan-09	8:36	1,080,390,000	12,990	290	12
	30-Jan-09	15:02	1,086,518,000	13,330	290	11
	27-Feb-09	11:29	1,098,037,000	13,998	278	15
	31-Mar-09	11:33	1,110,938,000	14,750	295	11
	30-Apr-09	8:05	1,122,437,000	15,407	299	11
	29-May-09	11:50	1,134,070,000	16,091	270	---
	2-Jul-09	11:10	1,147,294,000	16,893	270	11
	31-Jul-09	10:03	1,158,667,000	17,585	277	12
	31-Aug-09	9:30	1,170,418,000	18,315	265	14
	30-Sep-09	8:38	1,181,405,000	19,025	250	---
	30-Oct-09	9:05	1,192,041,000	19,738	249	---
	30-Nov-09	9:42	1,202,797,000	20,464	244	---
	31-Dec-09	12:35	1,213,837,000	21,196	248	---
Total Gallons Pumped:						140,443,000
Total Hours of Operation:						8,581
Percent Run Time:						98%
Average Pumping Rate (gpm):						273
IW-2A	30-Dec-08	13:55	1,797,293,000	50,346	440	34
	16-Jan-09	9:03	1,808,476,000	50,749	466	35
	30-Jan-09	15:08	1,817,710,000	51,091	443	40
	27-Feb-09	11:35	1,835,731,000	51,758	454	39
	31-Mar-09	11:39	1,856,526,000	52,511	466	43
	30-Apr-09	8:20	1,876,456,000	53,225	469	40
	29-May-09	11:56	1,895,059,000	53,883	470	40
	2-Jul-09	11:06	1,917,580,000	54,685	467	40
	31-Jul-09	9:55	1,936,758,000	55,377	460	41
	31-Aug-09	9:36	1,957,037,000	56,115	460	40
	30-Sep-09	8:43	1,976,462,000	56,825	453	---
	30-Oct-09	9:09	1,995,661,000	57,536	450	---
	30-Nov-09	7:48	2,014,247,000	58,257	430	---
	31-Dec-09	12:42	2,033,653,000	58,990	442	---
Total Gallons Pumped:						236,360,000
Total Hours of Operation:						8,621
Percent Run Time:						98%
Average Pumping Rate (gpm):						455
IW-3A	30-Dec-08	13:52	1,073,599,000	67,814	592	27
	16-Jan-09	9:13	1,087,746,000	68,211	590	38
	30-Jan-09	15:11	1,099,795,000	68,551	593	38
	27-Feb-09	11:43	1,123,128,000	69,218	576	29
	31-Mar-09	11:45	1,149,242,000	69,971	572	28
	30-Apr-09	8:28	1,173,271,000	70,680	563	27
	29-May-09	12:03	1,195,463,000	71,338	566	30
	2-Jul-09	11:01	1,222,351,000	72,140	555	27
	31-Jul-09	9:51	1,245,220,000	72,828	561	28
	31-Aug-09	9:37	1,269,805,000	73,566	553	30
	30-Sep-09	8:50	1,293,185,000	74,276	545	---
	30-Oct-09	9:13	1,315,446,000	74,958	546	---
	30-Nov-09	7:55	1,328,499,000	75,384	---	---
	31-Dec-09	12:46	1,342,575,000	75,742	647	---
Total Gallons Pumped:						268,976,000
Total Hours of Operation:						7,905
Percent Run Time:						90%
Average Pumping Rate (gpm):						574

TABLE 1
SUMMARY OF 2009 INTERCEPTOR WELL PERFORMANCE
FREEMPORT-MCMORAN SIERRITA, INC.

Well Identifier	Monitoring Date	Time	Totalizer Reading (gallons)	Hour Meter Reading (hours)	Pumping Rate (gpm)	Well Head Pressure (psi)
IW-4	30-Dec-08	13:43	674,848,000	678	99	5
	16-Jan-09	9:36	677,261,000	1,076	100	16
	30-Jan-09	15:32	679,279,000	1,418	97	10
	27-Feb-09	11:58	683,141,000	2,085	96	8
	31-Mar-09	12:05	687,434,000	2,838	94	8
	30-Apr-09	8:41	691,403,000	3,537	95	16
	29-May-09	12:17	695,151,000	4,198	95	5
	2-Jul-09	10:53	699,600,000	4,999	90	8
	31-Jul-09	9:37	702,104,000	5,465	---	---
	31-Aug-09	9:42	704,477,000	5,860	98	12
	30-Sep-09	9:09	708,630,000	6,577	94	---
	30-Oct-09	9:23	712,660,000	7,288	94	---
	30-Nov-09	8:03	716,791,000	8,011	96	---
	31-Dec-09	12:56	720,985,000	8,743	96	---
Total Gallons Pumped:						46,137,000
Total Hours of Operation:						8,042
Percent Run Time:						92%
Average Pumping Rate (gpm):						96
IW-5	30-Dec-08	13:38	179,736,000	92,867	101	27
	16-Jan-09	9:52	182,280,000	93,271	102	26
	30-Jan-09	15:42	184,268,000	93,613	94	50
	27-Feb-09	11:58	187,123,000	94,192	111	49
	31-Mar-09	12:13	191,808,000	94,947	102	80
	30-Apr-09	8:49	195,383,000	190	108	76
	29-May-09	12:25	199,531,000	850	103	78
	2-Jul-09	10:23	204,418,000	1,651	99	76
	31-Jul-09	9:31	208,493,000	2,343	96	75
	31-Aug-09	9:45	212,707,000	3,084	92	500
	30-Sep-09	9:17	216,534,000	3,794	88	---
	30-Oct-09	9:29	219,640,000	4,383	96	---
	30-Nov-09	8:09	223,836,000	5,107	98	---
	31-Dec-09	13:02	228,140,000	5,840	97	---
Total Gallons Pumped:						48,404,000
Total Hours of Operation:						7,897
Percent Run Time:						90%
Average Pumping Rate (gpm):						99
IW-6A	30-Dec-08	13:26	196,157,900	3,547	98	21
	16-Jan-09	10:28	198,518,500	3,952	98	22
	30-Jan-09	16:07	200,507,600	4,294	97	20
	27-Feb-09	12:30	204,407,100	4,961	98	22
	31-Mar-09	12:32	207,535,700	5,501	97	22
	30-Apr-09	9:12	211,697,200	6,216	98	21
	29-May-09	13:20	215,667,700	6,899	97	20
	2-Jul-09	10:11	220,368,000	7,712	96	20
	31-Jul-09	9:13	224,341,600	8,406	95	21
	31-Aug-09	9:51	228,506,100	9,136	94	20
	30-Sep-09	9:35	232,523,900	9,848	94	---
	30-Oct-09	9:52	236,403,500	10,536	94	---
	30-Nov-09	8:25	240,452,600	11,257	93	---
	31-Dec-09	13:13	244,521,300	11,987	92	---
Total Gallons Pumped:						48,363,400
Total Hours of Operation:						8,416
Percent Run Time:						96%
Average Pumping Rate (gpm):						96

TABLE 1
SUMMARY OF 2009 INTERCEPTOR WELL PERFORMANCE
FREEPORT-MCMORAN SIERRITA, INC.

Well Identifier	Monitoring Date	Time	Totalizer Reading (gallons)	Hour Meter Reading (hours)	Pumping Rate (gpm)	Well Head Pressure (psi)
IW-8	30-Dec-08	13:48	1,582,091,000	35,583	440	22
	16-Jan-09	9:21	1,592,792,000	35,986	440	18
	30-Jan-09	15:17	1,601,875,000	36,328	443	24
	27-Feb-09	11:48	1,619,592,000	36,996	437	23
	31-Mar-09	11:53	1,639,522,000	37,747	445	23
	30-Apr-09	8:33	1,658,414,000	38,460	442	23
	29-May-09	12:08	1,675,658,000	39,126	430	23
	2-Jul-09	10:59	1,696,631,000	39,940	429	22
	31-Jul-09	9:48	1,714,356,000	40,634	425	24
	31-Aug-09	9:38	1,733,047,000	41,373	420	25
	30-Sep-09	8:59	1,751,257,000	42,091	419	---
	30-Oct-09	9:17	1,769,502,000	42,799	434	---
	30-Nov-09	7:58	1,788,422,000	43,521	440	---
	31-Dec-09	12:50	1,807,804,000	44,254	442	---
Total Gallons Pumped:						225,713,000
Total Hours of Operation:						8,648
Percent Run Time:						99%
Average Pumping Rate (gpm):						435
IW-9	30-Dec-08	13:46	409,808,000	95,639	263	28
	16-Jan-09	9:29	416,165,000	96,043	264	32
	30-Jan-09	15:28	421,528,000	96,385	260	32
	27-Feb-09	11:53	431,992,000	97,052	261	28
	31-Mar-09	11:59	443,808,000	97,806	260	28
	30-Apr-09	8:37	454,133,000	98,467	261	24
	29-May-09	12:12	464,572,000	99,136	260	24
	2-Jul-09	10:56	477,157,000	99,951	255	30
	31-Jul-09	9:43	487,778,000	40,634	257	29
	31-Aug-09	9:41	499,079,000	41,373	420	25
	30-Sep-09	6:03	509,882,000	2,101	72	---
	30-Oct-09	9:20	520,544,000	2,812	249	---
	30-Nov-09	8:01	531,401,000	3,535	249	---
	31-Dec-09	12:53	542,409,000	4,268	249	---
Total Gallons Pumped:						132,601,000
Total Hours of Operation:						8,601
Percent Run Time:						98%
Average Pumping Rate (gpm):						256
IW-10	30-Dec-08	13:33	766,867,000	38,321	354	23
	16-Jan-09	10:08	775,487,000	96,043	355	24
	30-Jan-09	15:54	782,710,000	39,067	350	24
	27-Feb-09	12:18	796,812,000	39,735	356	23
	31-Mar-09	12:20	812,642,000	40,489	349	24
	30-Apr-09	9:01	827,541,000	41,204	344	24
	29-May-09	12:34	841,716,000	41,887	344	23
	2-Jul-09	10:17	858,319,000	42,701	336	23
	31-Jul-09	9:23	872,618,000	43,395	345	25
	31-Aug-09	9:48	888,038,000	44,136	345	22
	30-Sep-09	9:24	902,997,000	44,852	345	---
	30-Oct-09	9:36	917,898,000	45,563	352	---
	30-Nov-09	8:16	933,116,000	46,287	351	---
	31-Dec-09	13:07	948,597,000	47,019	351	---
Total Gallons Pumped:						181,730,000
Total Hours of Operation:						8,674
Percent Run Time:						99%
Average Pumping Rate (gpm):						348

TABLE 1
SUMMARY OF 2009 INTERCEPTOR WELL PERFORMANCE
FREEMPORT-MCMORAN SIERRITA, INC.

Well Identifier	Monitoring Date	Time	Totalizer Reading (gallons)	Hour Meter Reading (hours)	Pumping Rate (gpm)	Well Head Pressure (psi)
IW-11	30-Dec-08	13:28	1,272,857,000	21,233	351	28
	16-Jan-09	10:20	1,280,989,000	21,619	351	28
	30-Jan-09	16:03	1,288,184,000	21,961	350	20
	27-Feb-09	12:26	1,302,042,000	22,629	348	30
	31-Mar-09	12:28	1,317,620,000	23,383	345	29
	30-Apr-09	9:09	1,332,319,000	24,097	342	30
	29-May-09	13:15	1,346,165,000	24,781	335	26
	2-Jul-09	10:13	1,362,156,000	25,594	325	30
	31-Jul-09	9:16	1,375,350,000	26,270	326	30
	31-Aug-09	9:50	1,389,662,000	27,012	322	30
	30-Sep-09	9:31	1,403,339,000	27,728	320	---
	30-Oct-09	9:42	1,417,013,000	28,438	317	---
	30-Nov-09	8:22	1,430,791,000	29,163	313	---
	31-Dec-09	13:11	1,444,332,000	29,895	289	---
Total Gallons Pumped:						171,475,000
Total Hours of Operation:						8,638
Percent Run Time:						99%
Average Pumping Rate (gpm):						331
IW-12	30-Dec-08	13:24	189,403,030	31,811	159	20
	16-Jan-09	10:33	193,271,180	32,216	159	22
	30-Jan-09	16:10	196,529,320	32,558	159	21
	27-Feb-09	12:35	202,883,200	33,225	158	22
	31-Mar-09	12:36	210,086,630	33,980	159	20
	30-Apr-09	9:16	216,754,400	34,680	158	22
	29-May-09	13:23	223,262,830	35,360	158	21
	2-Jul-09	10:08	231,007,190	36,175	159	21
	31-Jul-09	9:11	237,585,800	36,865	159	21
	31-Aug-09	9:52	244,574,660	37,598	139	20
	30-Sep-09	9:42	251,371,060	38,308	160	---
	30-Oct-09	9:55	257,971,830	38,998	130	---
	30-Nov-09	8:31	264,888,650	39,723	159	---
	31-Dec-09	13:17	271,914,310	40,460	159	---
Total Gallons Pumped:						82,511,280
Total Hours of Operation:						8,625
Percent Run Time:						98%
Average Pumping Rate (gpm):						155
IW-13	30-Dec-08	13:21	68,394,000	50,592	26	28
	16-Jan-09	10:40	69,028,000	50,991	26	28
	30-Jan-09	16:14	69,566,000	51,332	26	28
	27-Feb-09	12:38	70,612,000	51,998	26	28
	31-Mar-09	12:38	71,814,000	52,753	27	27
	30-Apr-09	9:19	72,889,000	53,451	24	30
	29-May-09	13:27	73,902,000	54,135	25	28
	2-Jul-09	10:06	75,104,000	54,948	25	29
	31-Jul-09	9:08	76,055,000	55,597	24	23
	31-Aug-09	9:53	77,119,000	56,338	24	28
	30-Sep-09	9:46	78,135,000	57,055	24	---
	30-Oct-09	10:00	79,136,000	57,760	24	---
	30-Nov-09	8:34	80,183,000	58,475	25	---
	31-Dec-09	13:19	81,313,000	59,206	26	---
Total Gallons Pumped:						12,919,000
Total Hours of Operation:						8,590
Percent Run Time:						98%
Average Pumping Rate (gpm):						25

TABLE 1
SUMMARY OF 2009 INTERCEPTOR WELL PERFORMANCE
FREEPORT-MCMORAN SIERRITA, INC.

Well Identifier	Monitoring Date	Time	Totalizer Reading (gallons)	Hour Meter Reading (hours)	Pumping Rate (gpm)	Well Head Pressure (psi)
IW-14	30-Dec-08	13:19	19,589,000	65,308	79	15
	16-Jan-09	10:45	21,496,000	50,991	77	17
	30-Jan-09	16:19	23,072,000	66,049	80	10
	27-Feb-09	12:41	26,222,000	66,710	80	17
	31-Mar-09	12:42	29,820,000	67,465	80	10
	30-Apr-09	9:22	33,179,000	68,161	80	15
	29-May-09	13:30	36,468,000	68,845	80	18
	2-Jul-09	10:04	40,328,000	69,657	78	15
	31-Jul-09	9:06	43,607,000	70,352	79	15
	31-Aug-09	9:53	47,067,000	71,084	79	15
	30-Sep-09	9:50	50,423,000	71,795	78	---
	30-Oct-09	10:05	53,686,000	72,485	78	---
	30-Nov-09	8:36	57,097,000	73,204	79	---
	31-Dec-09	13:26	60,549,000	73,934	79	---
Total Gallons Pumped:						40,960,000
Total Hours of Operation:						8,602
Percent Run Time:						98%
Average Pumping Rate (gpm):						79
IW-15	30-Dec-08	13:18	71,218,000	31,565	49	33
	16-Jan-09	10:49	72,431,100	31,970	50	30
	30-Jan-09	16:22	73,448,000	32,312	49	31
	27-Feb-09	12:45	75,431,700	32,979	49	32
	31-Mar-09	12:44	77,673,600	33,733	50	33
	30-Apr-09	9:26	79,787,500	34,448	49	35
	29-May-09	13:33	81,805,300	35,132	49	35
	2-Jul-09	10:02	84,213,600	35,944	49	32
	31-Jul-09	9:04	86,268,200	36,638	49	32
	31-Aug-09	9:55	88,456,000	37,380	49	35
	30-Sep-09	9:53	90,549,700	38,092	49	---
	30-Oct-09	10:07	92,575,300	38,782	49	---
	30-Nov-09	8:39	94,690,100	39,500	49	---
	31-Dec-09	13:25	96,857,600	40,237	49	---
Total Gallons Pumped:						25,639,600
Total Hours of Operation:						8,648
Percent Run Time:						99%
Average Pumping Rate (gpm):						49
IW-16	30-Dec-08	13:16	14,634,700	6,528	9	28
	16-Jan-09	10:56	14,859,700	6,927	9	31
	30-Jan-09	16:26	15,050,700	7,267	9	31
	27-Feb-09	12:48	15,426,600	7,933	9	30
	31-Mar-09	12:50	15,847,700	8,688	9	28
	30-Apr-09	9:29	16,237,900	9,400	9	27
	29-May-09	13:37	16,608,900	10,083	9	28
	2-Jul-09	10:00	17,043,200	10,895	9	28
	31-Jul-09	9:01	17,407,100	11,587	9	28
	31-Aug-09	9:55	17,794,000	12,320	9	34
	30-Sep-09	9:57	18,162,100	13,031	9	---
	30-Oct-09	10:10	18,498,200	13,693	8	---
	30-Nov-09	8:42	18,852,100	14,395	8	---
	31-Dec-09	13:31	19,238,000	15,124	9	---
Total Gallons Pumped:						4,603,300
Total Hours of Operation:						8,572
Percent Run Time:						98%
Average Pumping Rate (gpm):						9

TABLE 1
SUMMARY OF 2009 INTERCEPTOR WELL PERFORMANCE
FREEPORT-MCMORAN SIERRITA, INC.

Well Identifier	Monitoring Date	Time	Totalizer Reading (gallons)	Hour Meter Reading (hours)	Pumping Rate (gpm)	Well Head Pressure (psi)
IW-17	30-Dec-08	13:14	13,604,600	63,690	7	22
	16-Jan-09	11:02	13,779,400	64,095	7	0
	30-Jan-09	16:30	13,925,500	64,436	7	10
	27-Feb-09	15:52	14,194,100	65,080	7	10
	31-Mar-09	12:54	14,502,200	65,831	7	12
	30-Apr-09	9:34	14,790,000	66,546	7	15
	29-May-09	13:41	15,058,100	67,228	6	15
	2-Jul-09	9:57	15,364,600	68,040	6	13
	31-Jul-09	8:58	15,610,500	68,734	6	15
	31-Aug-09	9:56	15,859,300	69,478	5	10
	30-Sep-09	10:10	16,028,400	70,007	5	---
	30-Oct-09	10:14	16,190,700	70,523	5	---
	30-Nov-09	8:44	16,391,700	71,238	5	---
	31-Dec-09	13:33	16,569,200	71,882	5	---
Total Gallons Pumped:						2,964,600
Total Hours of Operation:						8,168
Percent Run Time:						93%
Average Pumping Rate (gpm):						6
IW-18	30-Dec-08	13:12	13,231,900	15,427	8	10
	16-Jan-09	11:07	13,421,500	15,828	8	10
	30-Jan-09	16:35	13,584,600	16,169	8	10
	27-Feb-09	12:55	13,892,500	16,812	8	10
	31-Mar-09	12:57	14,243,700	17,566	8	10
	30-Apr-09	9:38	14,572,000	18,281	8	15
	29-May-09	13:44	14,882,600	18,964	8	15
	2-Jul-09	9:54	15,233,700	19,744	8	16
	31-Jul-09	8:53	15,528,400	46,724	7	13
	31-Aug-09	9:57	15,841,300	21,120	7	10
	30-Sep-09	10:03	16,151,900	21,836	7	---
	30-Oct-09	10:17	16,456,400	22,539	7	---
	30-Nov-09	8:46	16,762,900	23,237	7	---
	31-Dec-09	13:35	17,079,700	23,969	7	---
Total Gallons Pumped:						3,847,800
Total Hours of Operation:						8,518
Percent Run Time:						97%
Average Pumping Rate (gpm):						8
IW-19	30-Dec-08	13:09	135,372,880	41,661	205	15
	16-Jan-09	11:11	140,374,980	42,067	205	22
	30-Jan-09	16:38	144,566,240	42,409	206	15
	27-Feb-09	12:59	152,671,370	43,068	204	13
	31-Mar-09	12:59	161,863,230	43,823	203	17
	30-Apr-09	9:40	170,534,140	44,537	201	15
	29-May-09	13:47	178,811,090	45,222	201	10
	2-Jul-09	9:52	188,609,510	46,035	201	18
	31-Jul-09	8:53	196,852,730	46,724	198	17
	31-Aug-09	9:57	205,486,900	47,456	197	15
	30-Sep-09	10:05	213,882,580	48,168	197	---
	30-Oct-09	10:31	222,026,850	48,858	196	---
	30-Nov-09	8:50	230,466,500	49,575	195	---
	31-Dec-09	13:38	239,125,980	50,313	195	---
Total Gallons Pumped:						103,753,100
Total Hours of Operation:						8,628
Percent Run Time:						98%
Average Pumping Rate (gpm):						200

TABLE 1
SUMMARY OF 2009 INTERCEPTOR WELL PERFORMANCE
FREEPORT-MCMORAN SIERRITA, INC.

Well Identifier	Monitoring Date	Time	Totalizer Reading (gallons)	Hour Meter Reading (hours)	Pumping Rate (gpm)	Well Head Pressure (psi)
IW-20	30-Dec-08	13:07	126,292,000	15,971	33	9
	16-Jan-09	11:18	127,308,000	15,375	42	9
	30-Jan-09	16:43	128,125,500	15,706	45	9
	27-Feb-09	13:04	129,880,500	16,366	42	10
	31-Mar-09	13:04	131,674,800	17,121	37	10
	30-Apr-09	9:45	133,040,300	17,835	33	10
	29-May-09	13:52	134,352,000	18,518	31	11
	2-Jul-09	9:49	135,832,600	19,330	31	9
	31-Jul-09	8:49	137,200,400	20,024	34	9
	31-Aug-09	9:58	138,628,800	20,758	32	10
	30-Sep-09	10:09	139,975,000	21,474	31	---
	30-Oct-09	10:38	141,344,000	22,165	35	---
	30-Nov-09	8:56	142,882,100	22,882	35	---
	31-Dec-09	13:42	144,448,700	23,619	34	---
Total Gallons Pumped:						18,156,700
Total Hours of Operation:						7,624
Percent Run Time:						87%
Average Pumping Rate (gpm):						35
IW-21	30-Dec-08	12:53	137,282,260	81,107	166	25
	16-Jan-09	11:24	141,382,570	81,514	170	10
	30-Jan-09	16:46	144,782,390	81,844	188	5
	27-Feb-09	13:12	152,174,160	82,505	186	5
	31-Mar-09	13:08	160,491,280	83,255	185	25
	30-Apr-09	9:48	168,414,600	83,969	186	5
	29-May-09	13:55	176,002,230	84,654	184	5
	2-Jul-09	9:46	184,906,830	85,464	182	25
	31-Jul-09	8:45	192,264,980	86,146	179	25
	31-Aug-09	9:59	200,022,760	86,872	178	25
	30-Sep-09	10:12	207,704,950	87,589	180	---
	30-Oct-09	10:41	215,108,620	88,279	179	---
	30-Nov-09	9:00	222,668,950	88,990	178	---
	31-Dec-09	13:45	230,456,100	89,722	176	---
Total Gallons Pumped:						93,173,840
Total Hours of Operation:						8,591
Percent Run Time:						98%
Average Pumping Rate (gpm):						180
IW-22	30-Dec-08	13:31	751,353,000	624	379	25
	16-Jan-09	10:14	760,517,000	1,029	378	27
	30-Jan-09	15:59	768,205,000	1,370	379	26
	27-Feb-09	12:19	783,213,000	2,038	374	27
	31-Mar-09	12:25	800,181,000	2,794	379	28
	30-Apr-09	9:05	816,253,000	3,508	376	29
	29-May-09	13:12	831,616,000	4,194	370	28
	2-Jul-09	10:15	849,763,000	5,007	370	25
	31-Jul-09	9:20	865,176,000	5,697	372	26
	31-Aug-09	9:49	881,671,000	6,437	370	26
	30-Sep-09	9:29	897,424,000	7,147	365	---
	30-Oct-09	9:39	911,546,000	7,784	370	---
	30-Nov-09	8:18	927,486,000	8,508	367	---
	31-Dec-09	13:09	943,563,000	9,240	366	---
Total Gallons Pumped:						192,210,000
Total Hours of Operation:						8,592
Percent Run Time:						98%
Average Pumping Rate (gpm):						373

TABLE 1
SUMMARY OF 2009 INTERCEPTOR WELL PERFORMANCE
FREEMPORT-MCMORAN SIERRITA, INC.

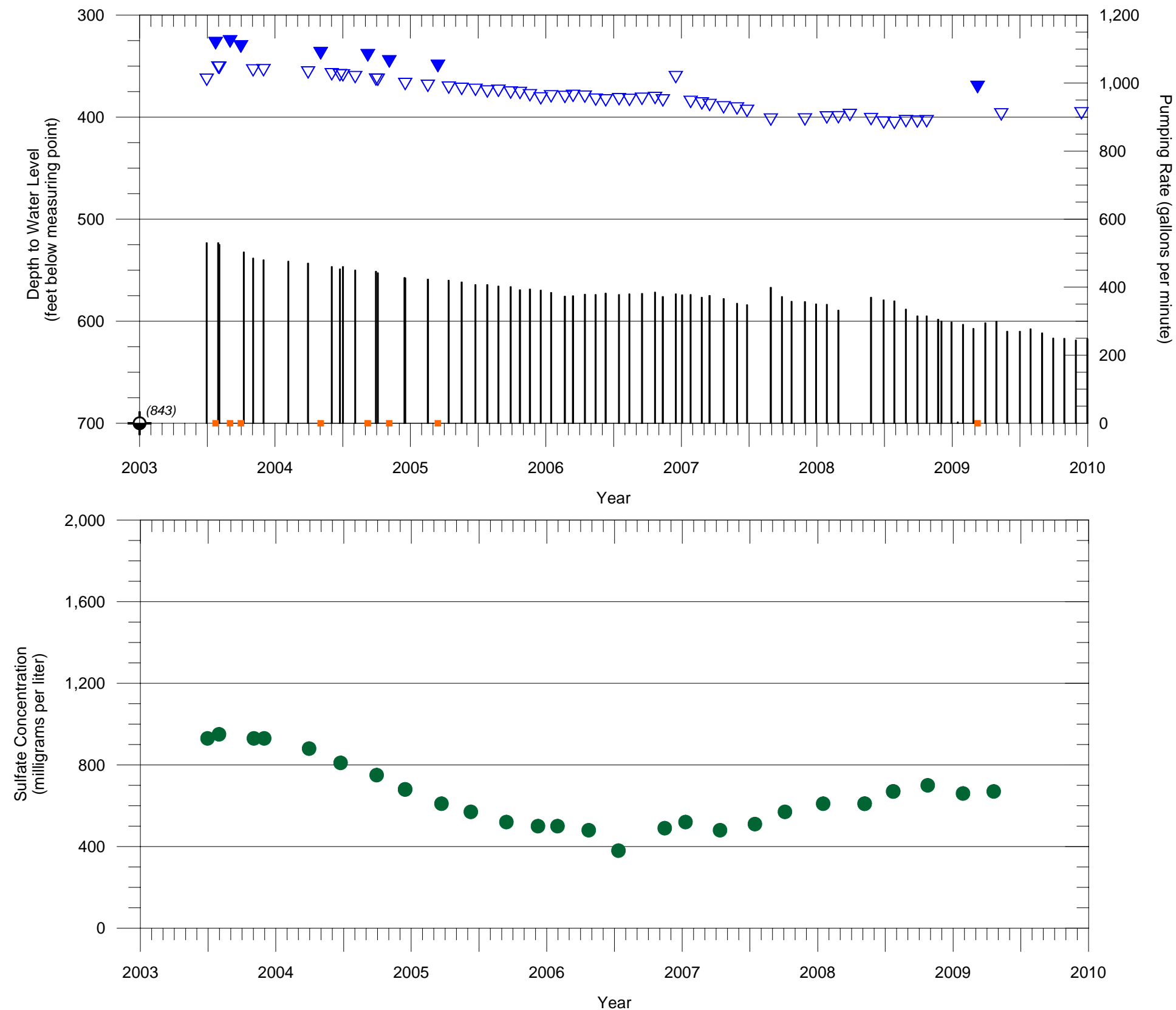
Well Identifier	Monitoring Date	Time	Totalizer Reading (gallons)	Hour Meter Reading (hours)	Pumping Rate (gpm)	Well Head Pressure (psi)
IW-23	30-Dec-08	13:36	---	28,495	---	---
	16-Jan-09	10:01	319,788,000	28,655	188	24
	30-Jan-09	15:49	323,589,000	28,997	185	25
	27-Feb-09	12:15	330,969,000	29,665	185	25
	31-Mar-09	12:16	339,116,000	30,414	182	25
	30-Apr-09	8:57	346,603,000	31,119	177	25
	29-May-09	12:29	4,092,139,000	31,804	171	25
	2-Jul-09	10:20	4,100,499,000	32,618	169	23
	31-Jul-09	9:28	4,107,576,000	33,312	173	24
	31-Aug-09	9:47	4,115,042,000	34,051	168	25
	30-Sep-09	9:21	4,122,174,000	34,762	166	---
	30-Oct-09	9:34	4,129,308,000	35,472	166	---
	30-Nov-09	8:13	4,136,501,000	36,196	162	---
	31-Dec-09	13:04	4,143,684,000	36,928	161	---
Total Gallons Pumped:						82,622,400
Total Hours of Operation:						8,409
Percent Run Time:						96%
Average Pumping Rate (gpm):						173
IW-24	30-Dec-08	13:40	114,760,000	9,215	118	32
	16-Jan-09	9:43	117,280,000	9,547	128	30
	30-Jan-09	15:37	119,847,000	9,884	128	34
	27-Feb-09	12:03	124,790,000	10,546	117	29
	31-Mar-09	12:09	129,802,000	11,296	109	30
	30-Apr-09	8:45	134,303,000	12,010	105	30
	29-May-09	12:21	138,410,000	12,662	106	30
	2-Jul-09	10:25	143,364,000	13,476	94	32
	31-Jul-09	9:34	146,836,000	14,065	---	---
	31-Aug-09	9:44	151,083,000	14,732	105	30
	30-Sep-09	9:13	155,484,000	15,448	105	---
	30-Oct-09	9:27	159,378,000	16,116	91	---
	30-Nov-09	8:07	163,041,000	16,764	92	---
	31-Dec-09	12:59	167,109,000	17,478	92	---
Total Gallons Pumped:						52,349,000
Total Hours of Operation:						8,239
Percent Run Time:						94%
Average Pumping Rate (gpm):						107

Notes:

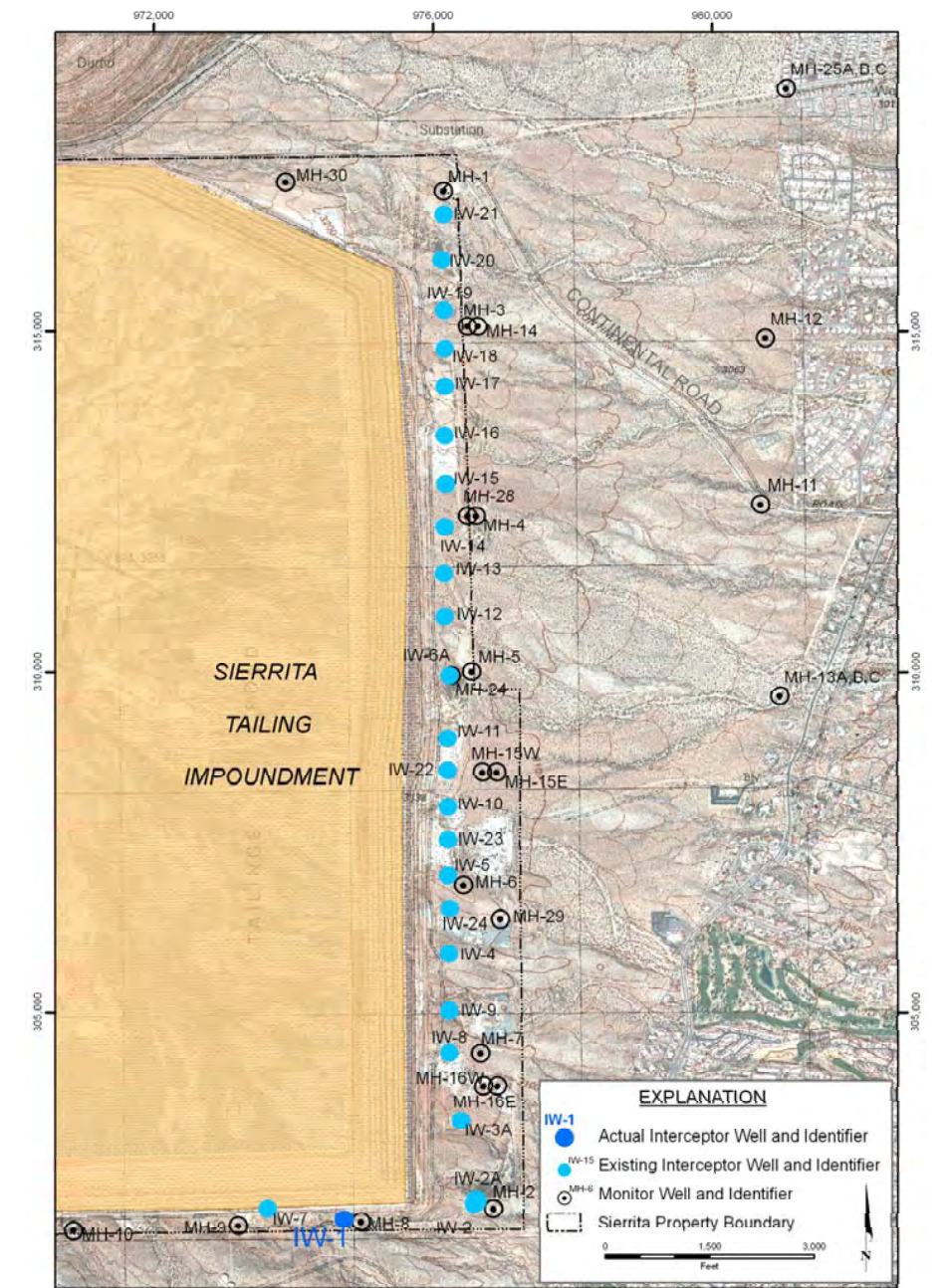
gpm = Gallons per minute
psi = Pounds per square inch
--- = Not reported

Wellfield Total Hours of Operation: 193,829
Percent Run Time: 92%
Wellfield Average Pumping Rate (gpm): 4361
Total acre-feet pumped 7035

APPENDIX A



WELL IW-1: YEAR 2003 THROUGH 2009 WATER LEVELS, PUMPING RATES, AND SULFATE CONCENTRATIONS, SIERRITA INTERCEPTOR WELLFIELD, PIMA COUNTY, ARIZONA

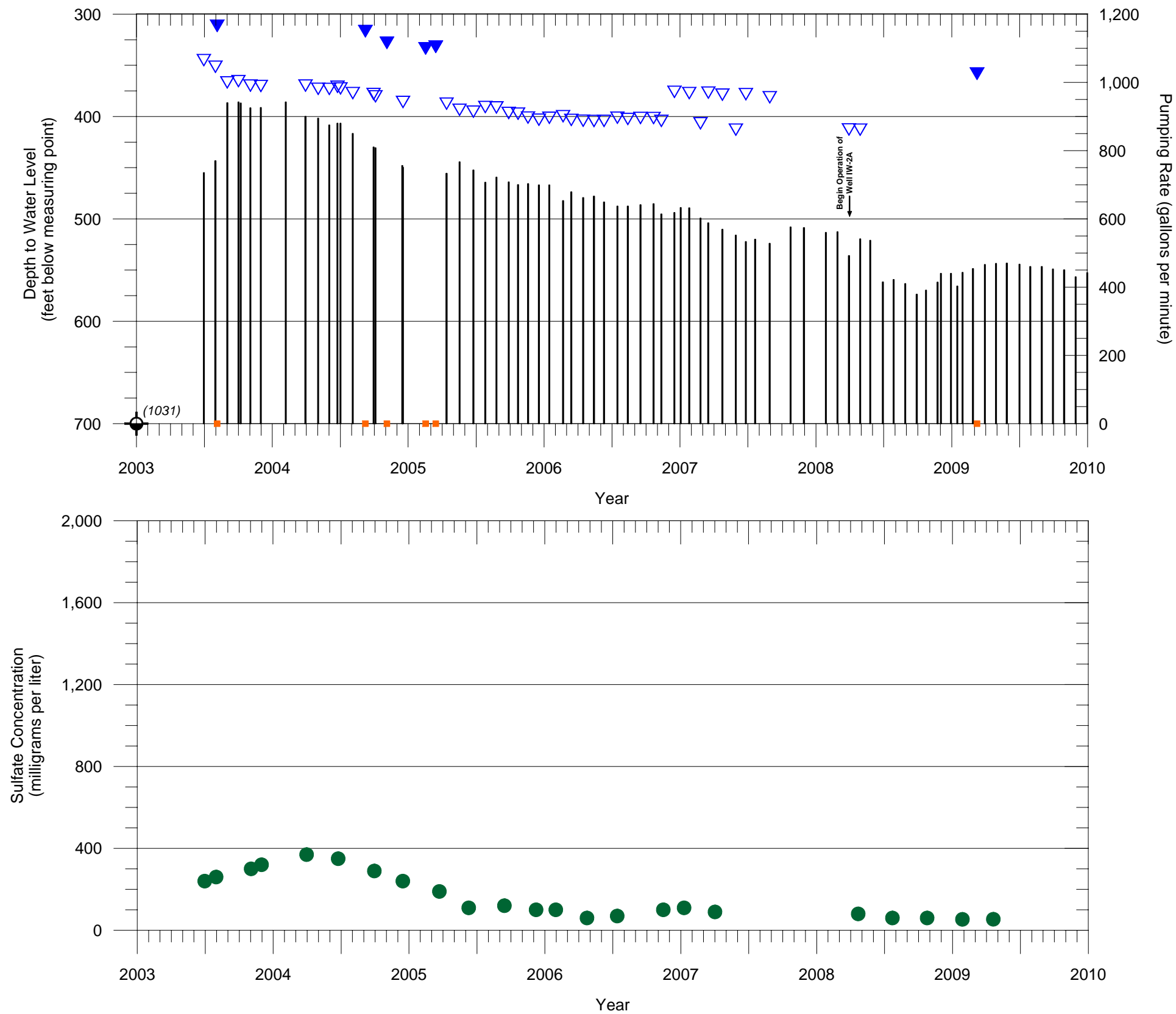


EXPLANATION

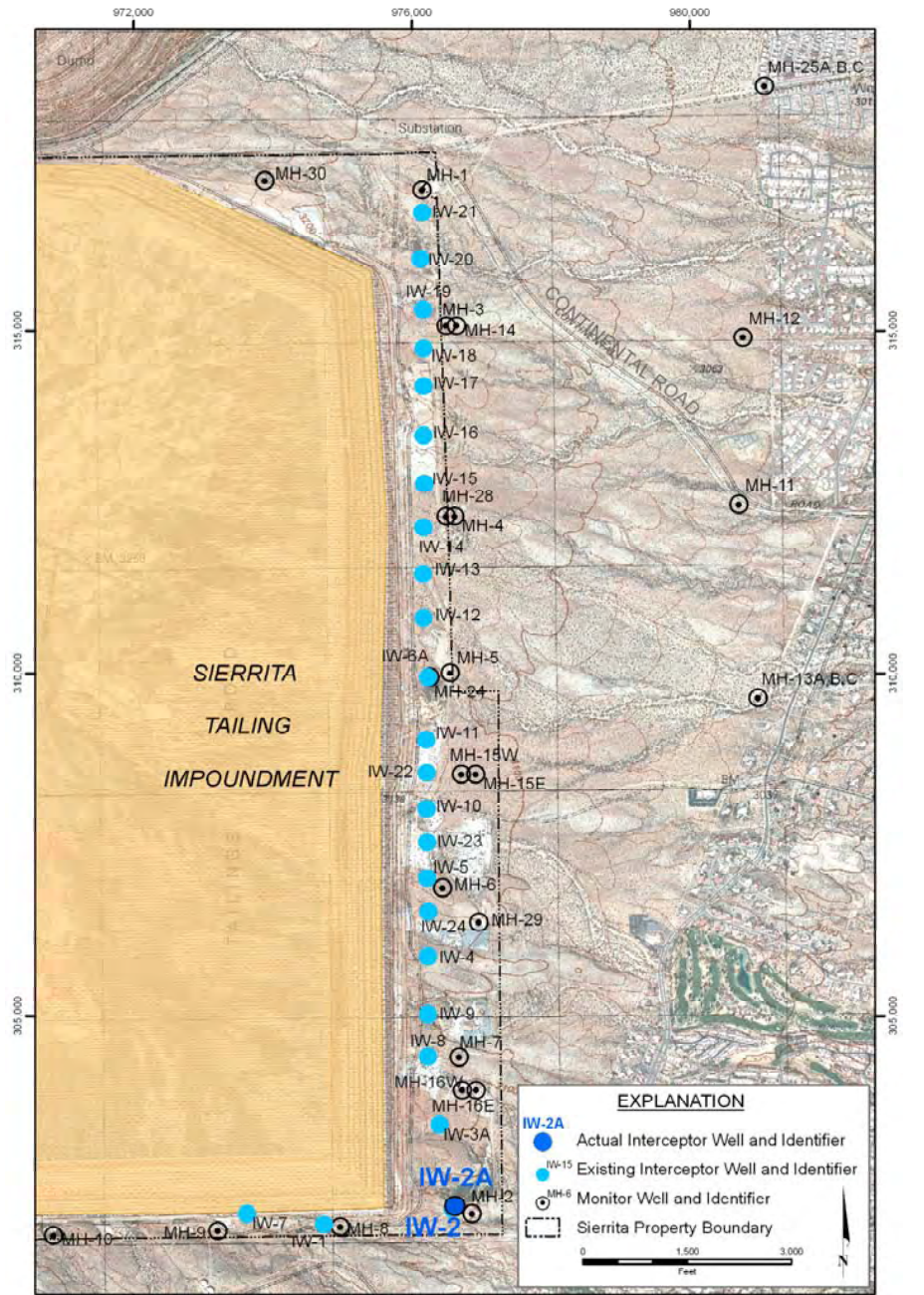
- ▼ Nonpumping depth to water level using water level sounder
- ▽ Pumping depth to water level using water level sounder
- | Instantaneous pumping rate recorded by field personnel
- Periods of pump shut-down for maintenance
- Sulfate concentration
- ⊕ Bottom of well screen (feet below land surface)

Note: Record Analysis Started June 2003

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WELL IW-2 AND WELL IW-2A: YEAR 2003 THROUGH 2009 WATER LEVELS, PUMPING RATES, AND SULFATE CONCENTRATIONS, SIERRITA INTERCEPTOR WELLFIELD, PIMA COUNTY, ARIZONA

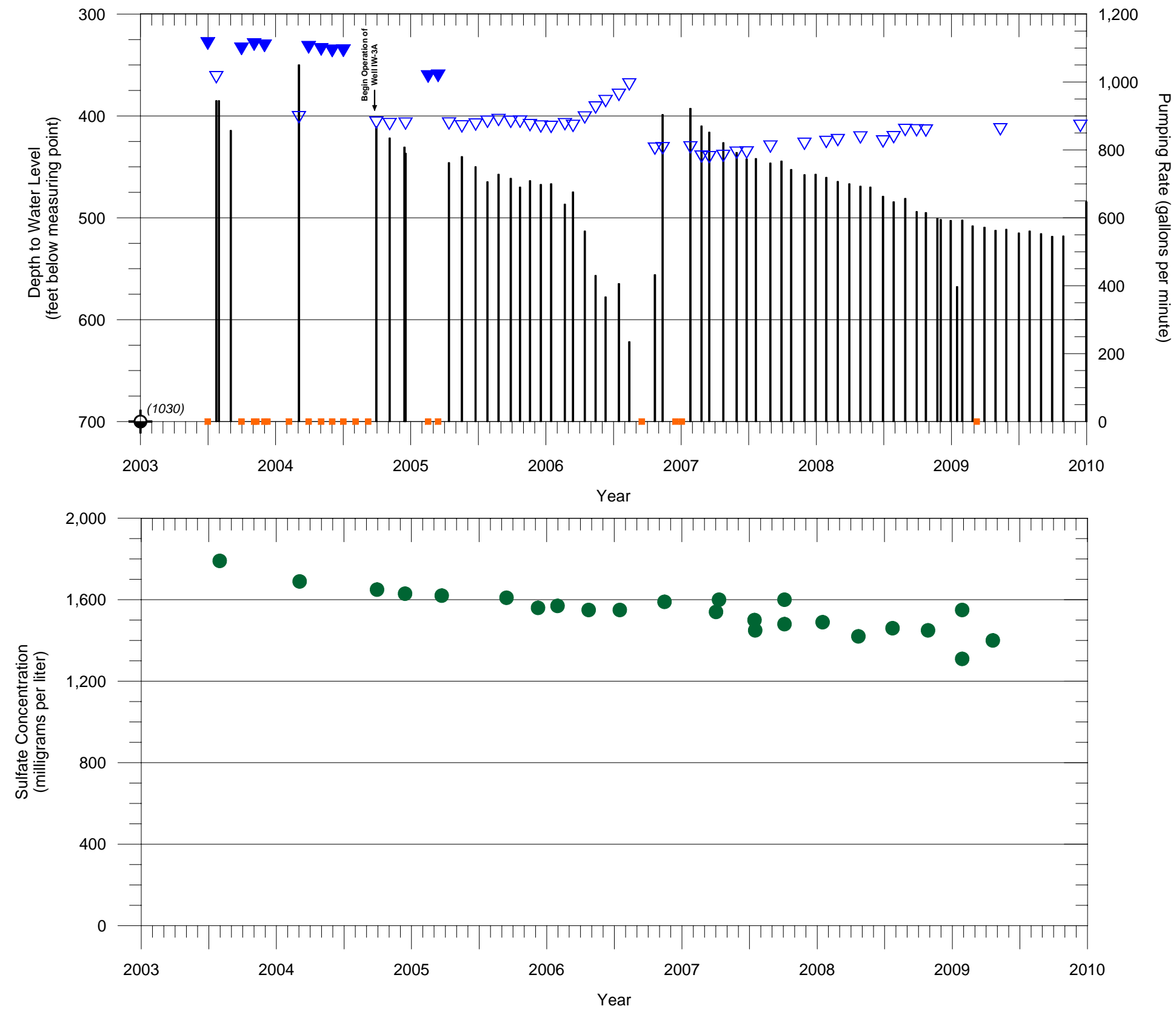


EXPLANATION

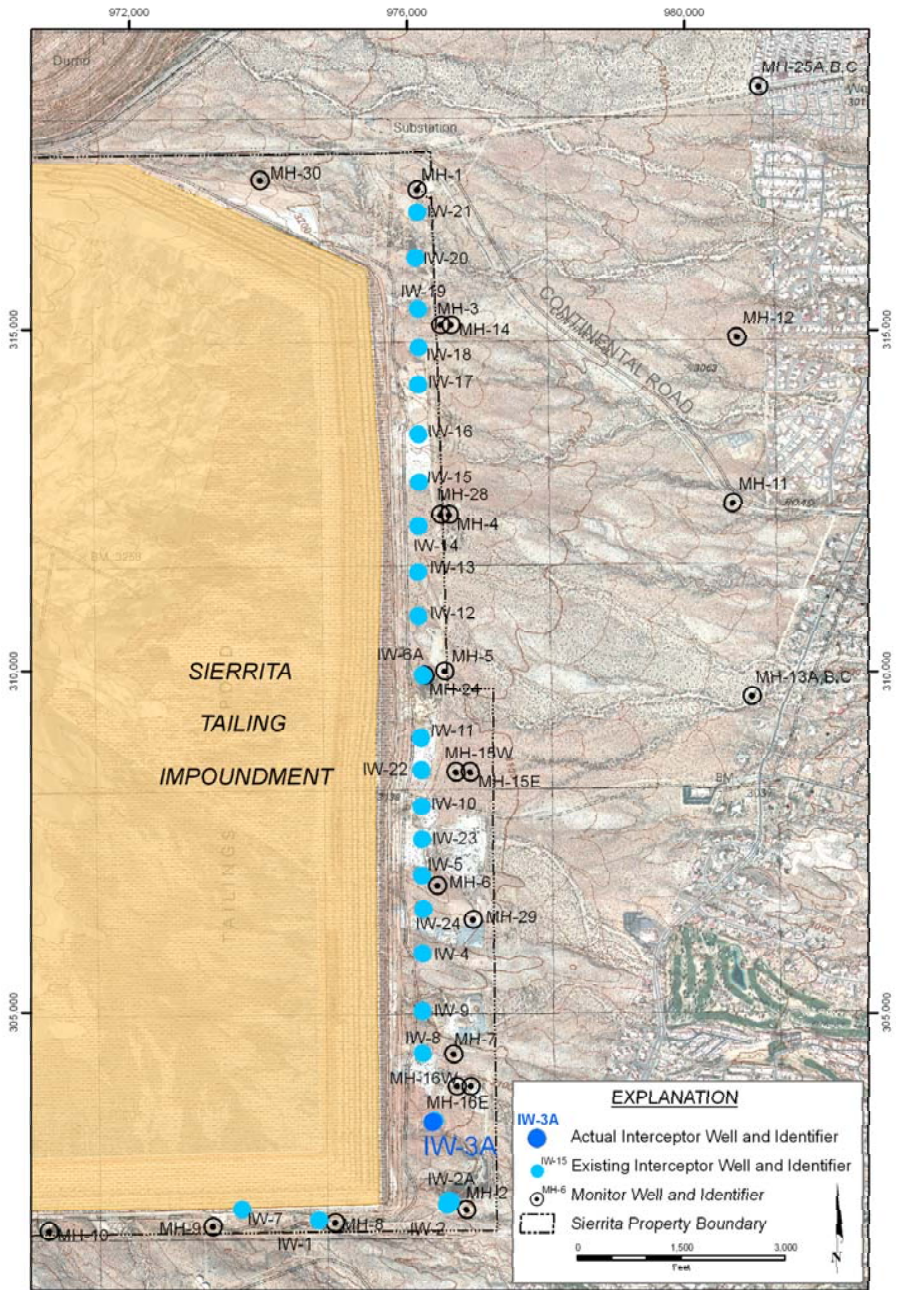
- ▼ Nonpumping depth to water level using water level sounder
- ▽ Pumping depth to water level using water level sounder
- | Instantaneous pumping rate recorded by field personnel
- Periods of pump shut-down for maintenance
- Sulfate concentration
- ⊕ Bottom of well screen (feet below land surface)

Note: Record Analysis Started June 2003

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WELL IW-3 AND WELL IW-3A: YEAR 2003 THROUGH 2009 WATER LEVELS, PUMPING RATES, AND SULFATE CONCENTRATIONS, SIERRITA INTERCEPTOR WELLFIELD, PIMA COUNTY, ARIZONA

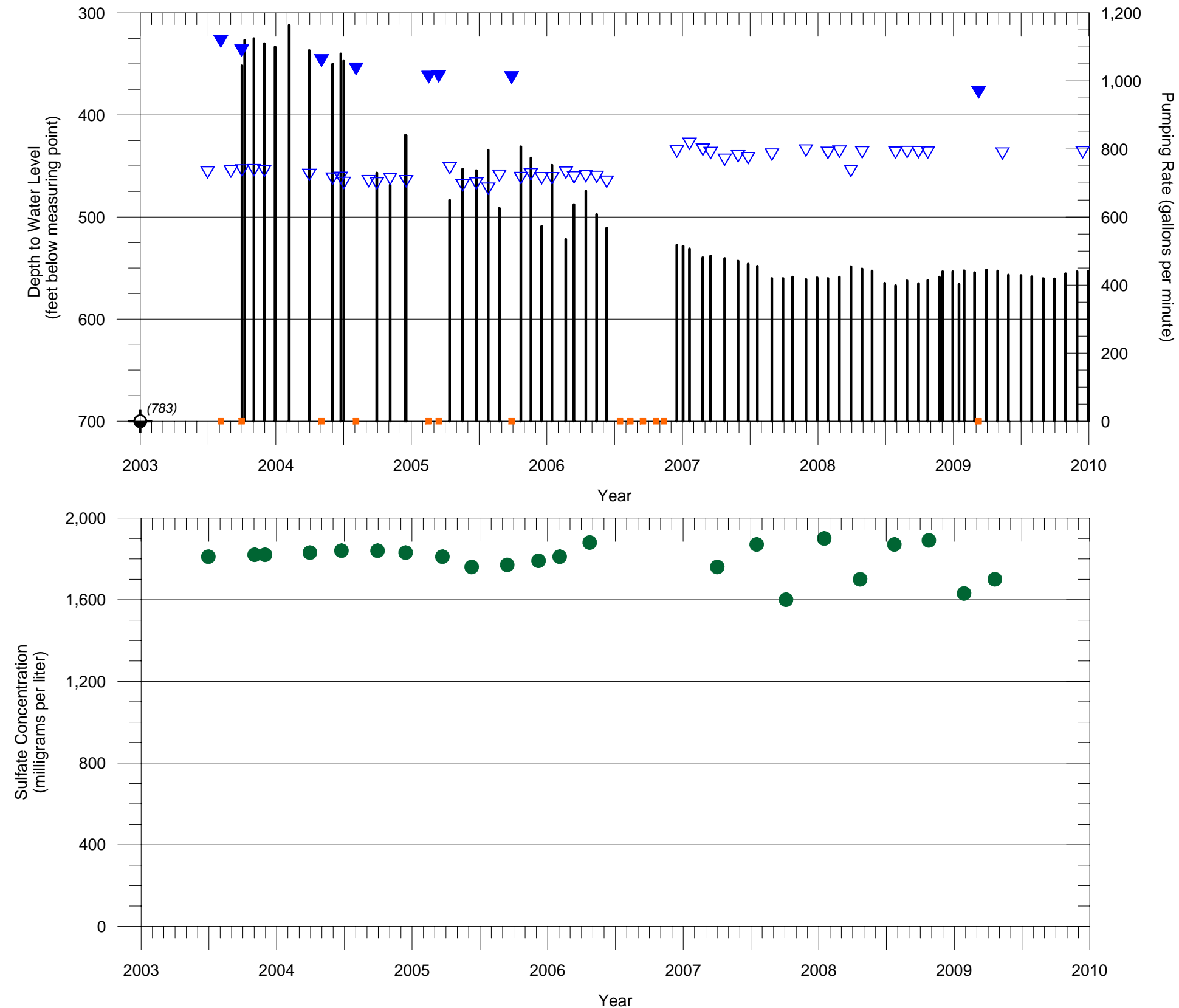


EXPLANATION

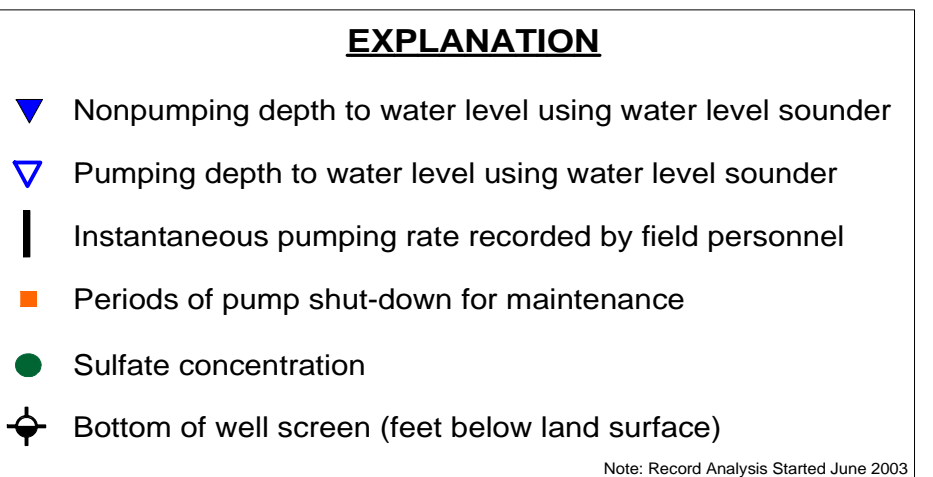
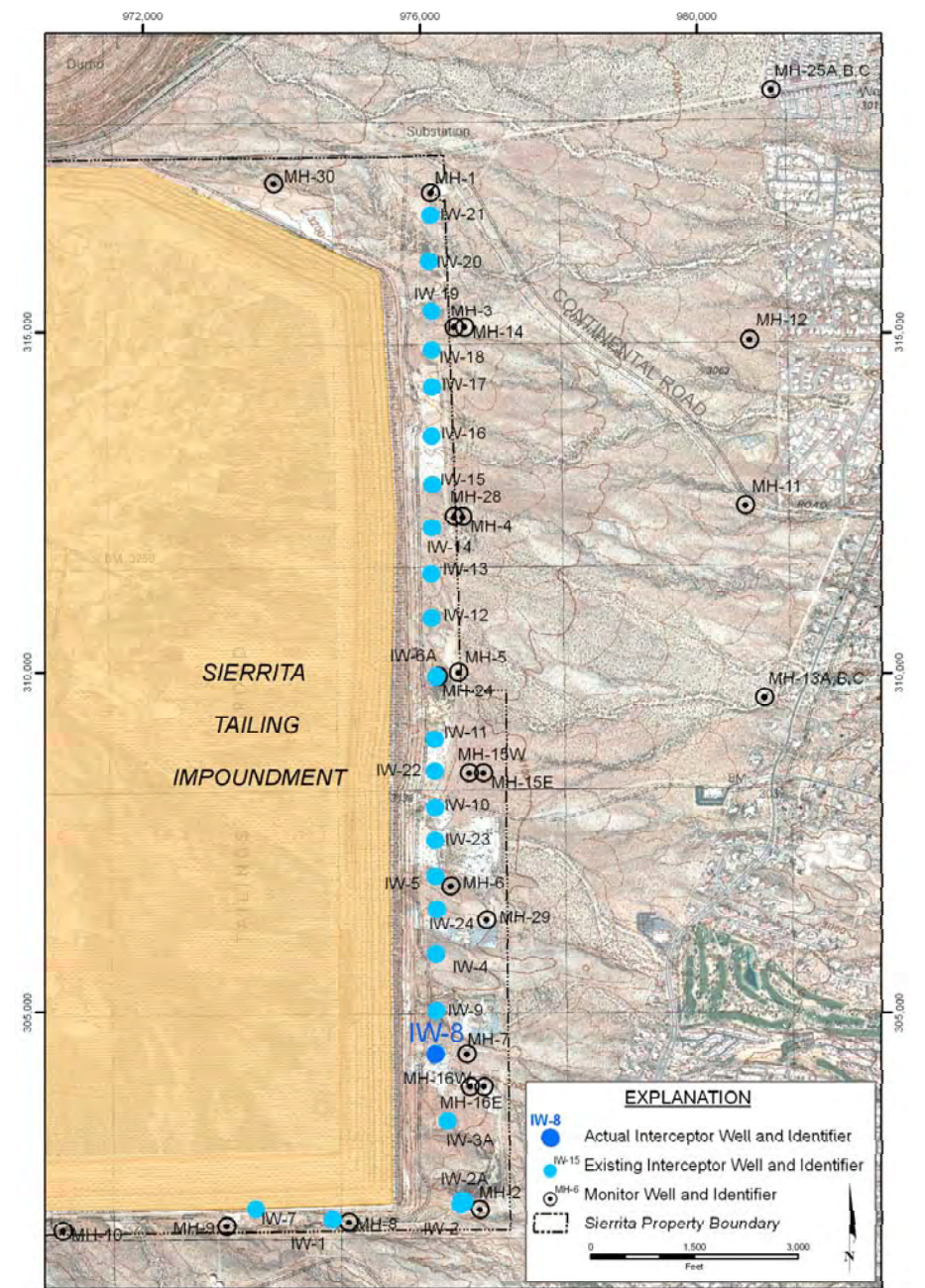
- ▼ Nonpumping depth to water level using water level sounder
- ▽ Pumping depth to water level using water level sounder
- | Instantaneous pumping rate recorded by field personnel
- Periods of pump shut-down for maintenance
- Sulfate concentration
- ⊕ Bottom of well screen (feet below land surface)

Note: Record Analysis Started June 2003

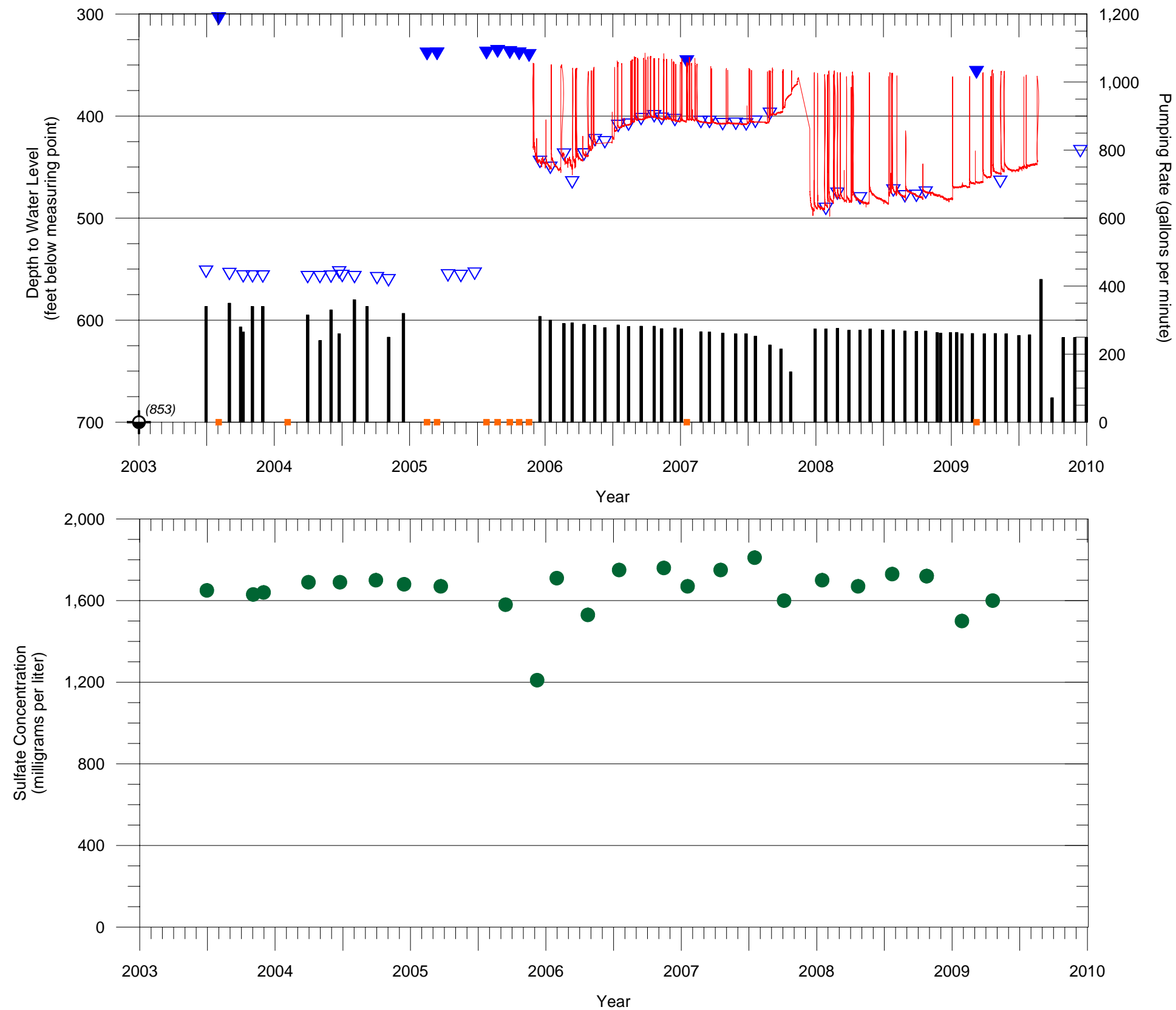
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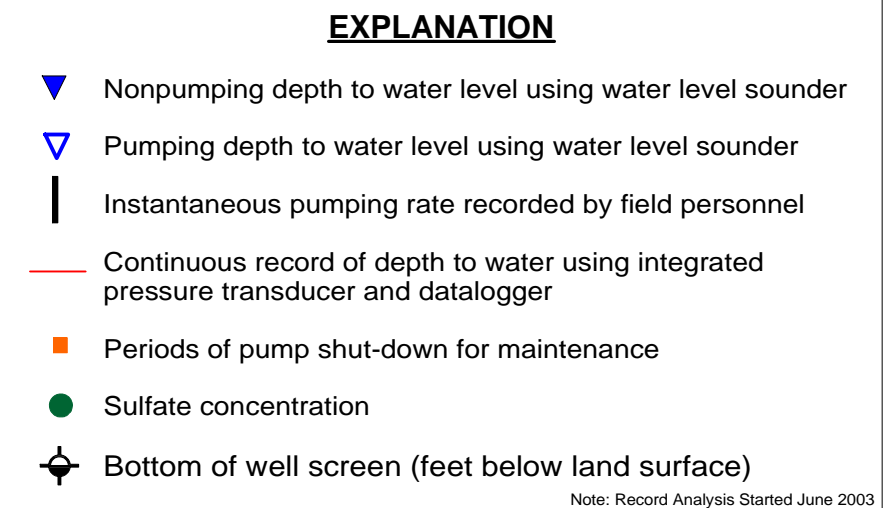
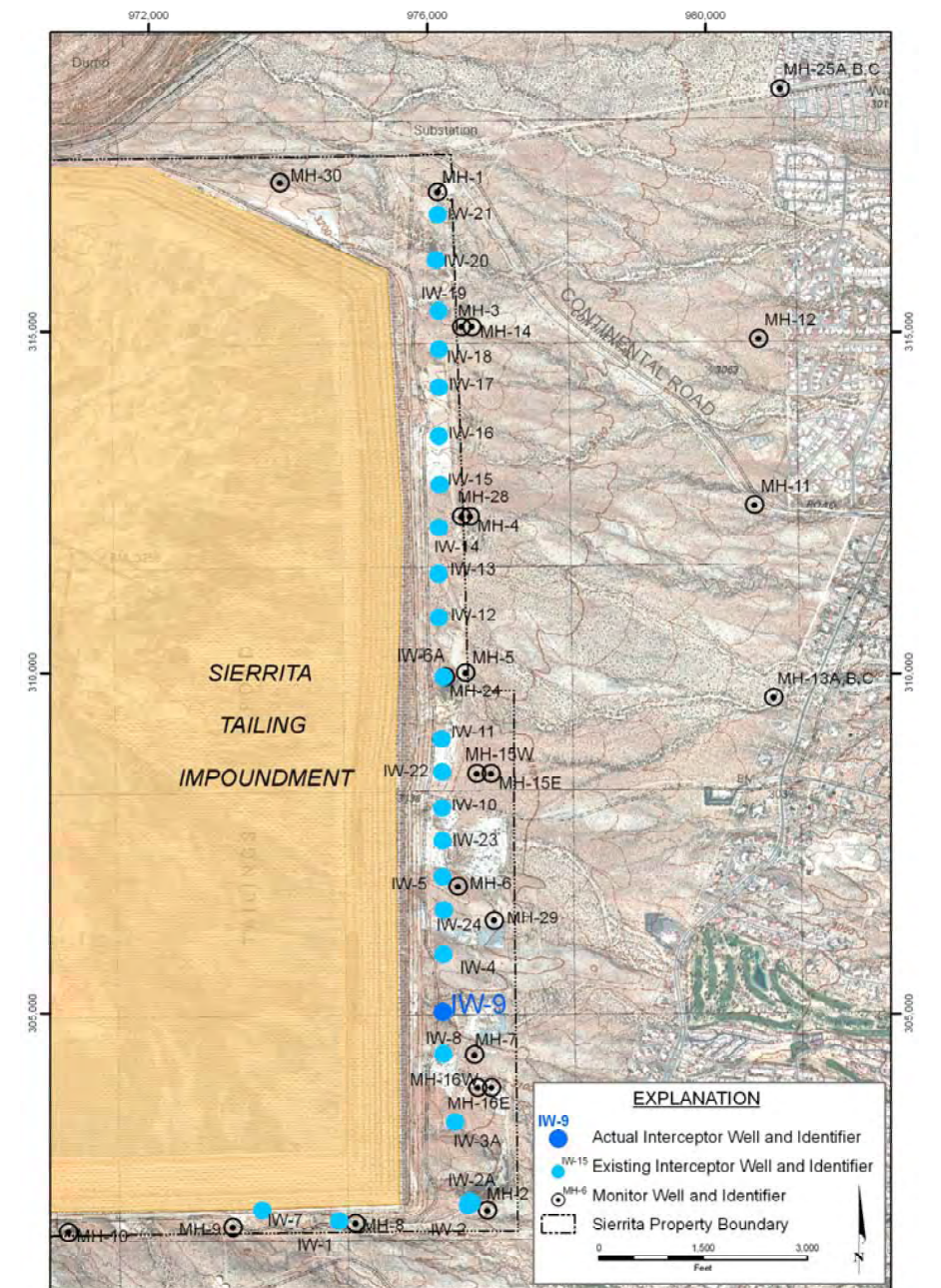
WELL IW-8: YEAR 2003 THROUGH 2009 WATER LEVELS, PUMPING RATES, AND SULFATE CONCENTRATIONS, SIERRITA INTERCEPTOR WELLFIELD, PIMA COUNTY, ARIZONA



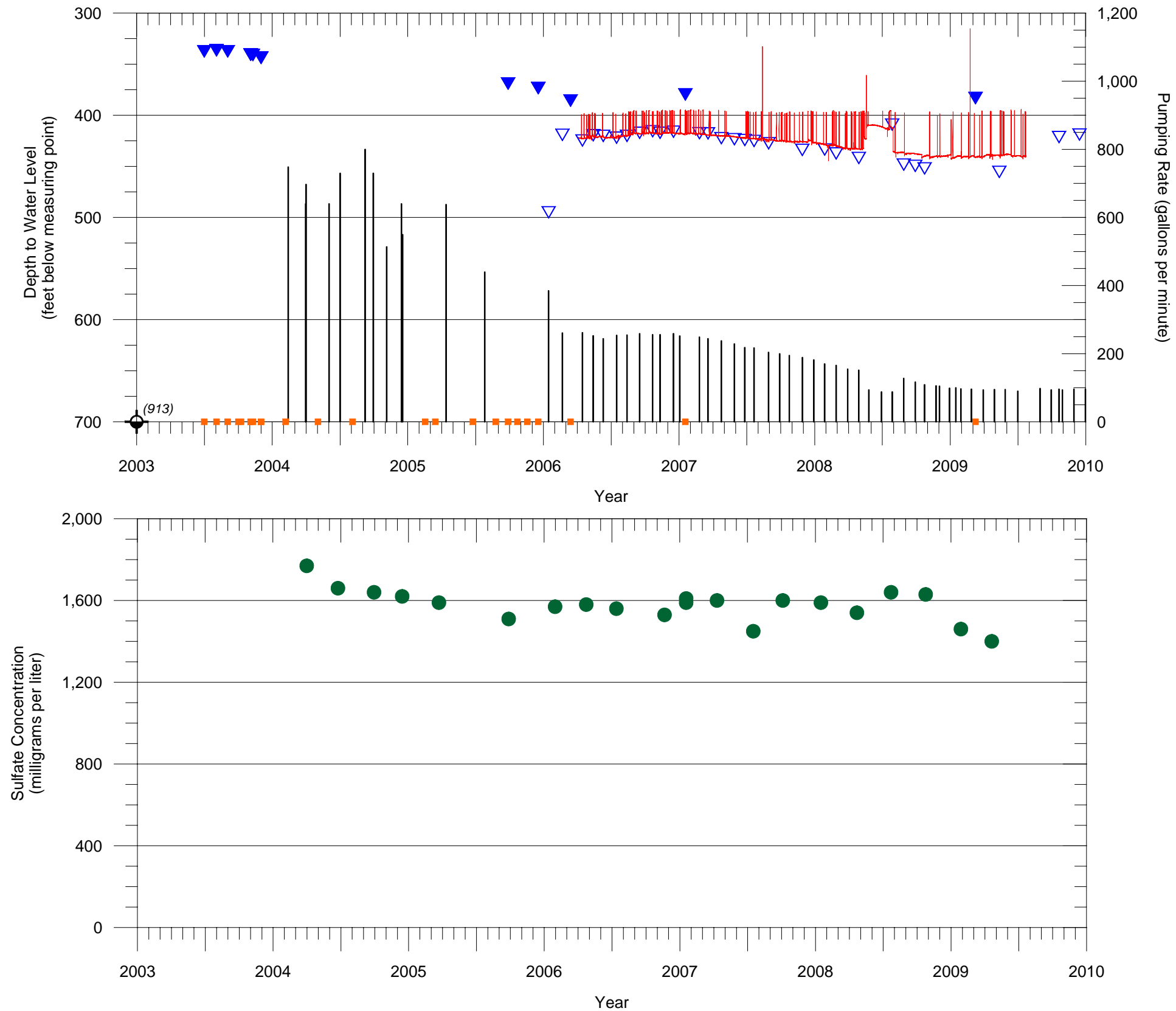
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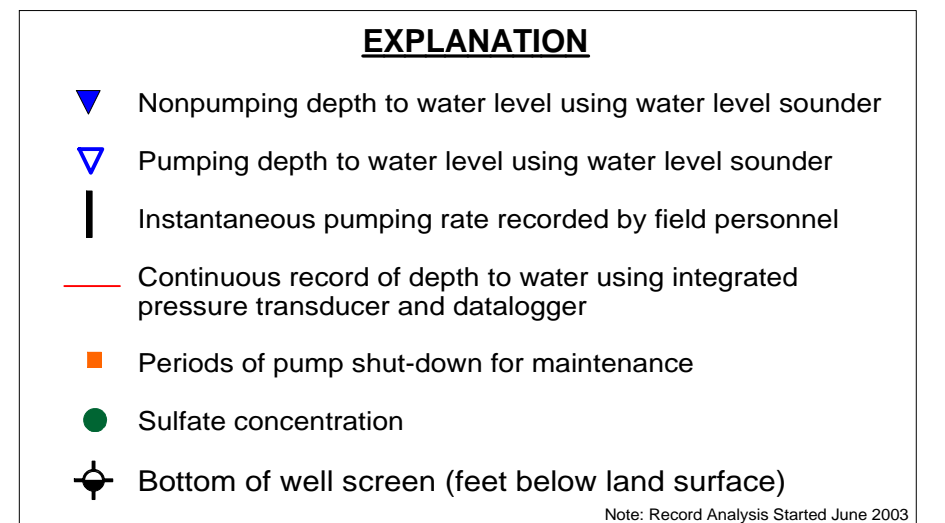
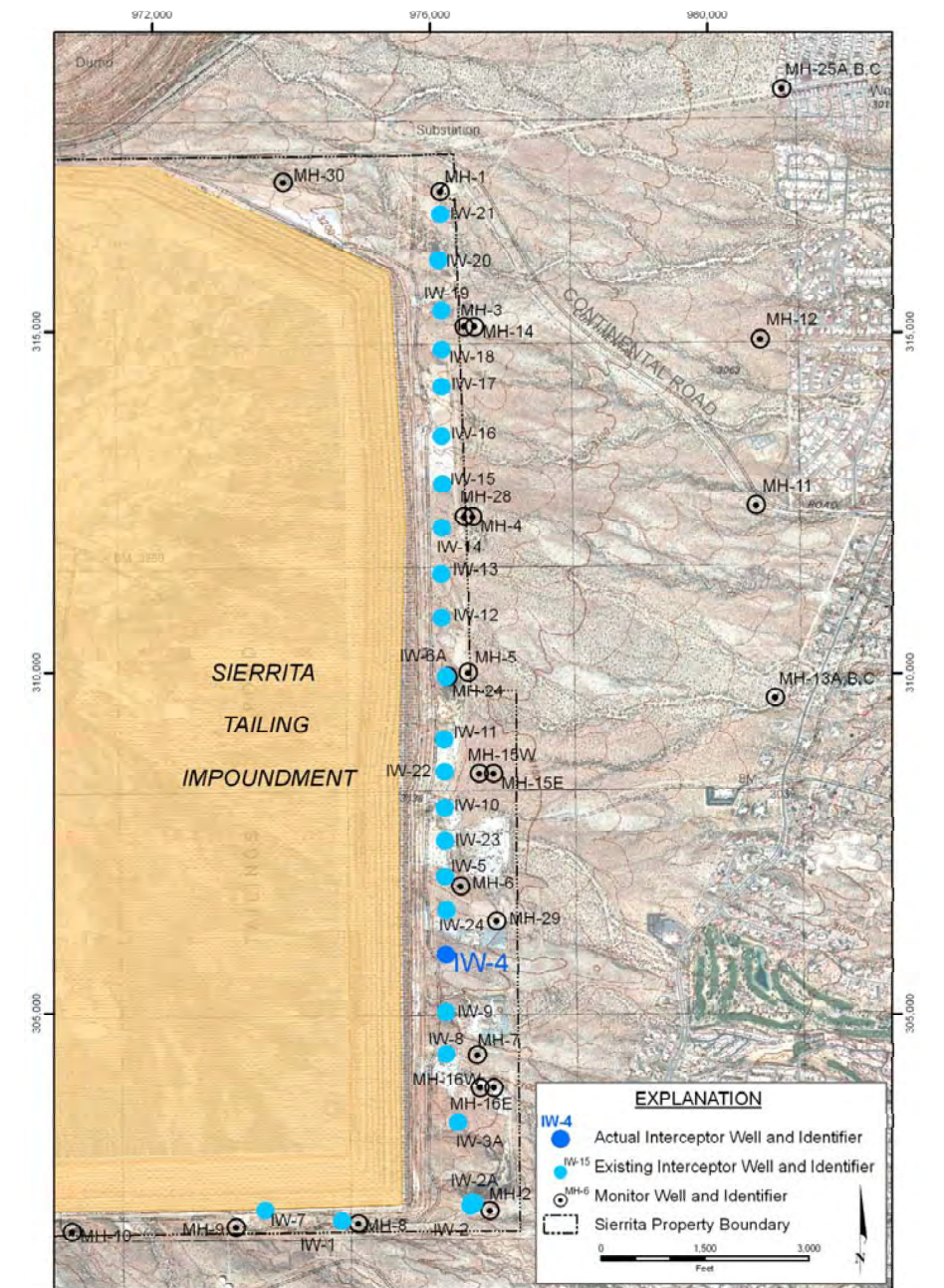
WELL IW-9: YEAR 2003 THROUGH 2009 WATER LEVELS, PUMPING RATES, AND SULFATE CONCENTRATIONS, SIERRITA INTERCEPTOR WELLFIELD, PIMA COUNTY, ARIZONA



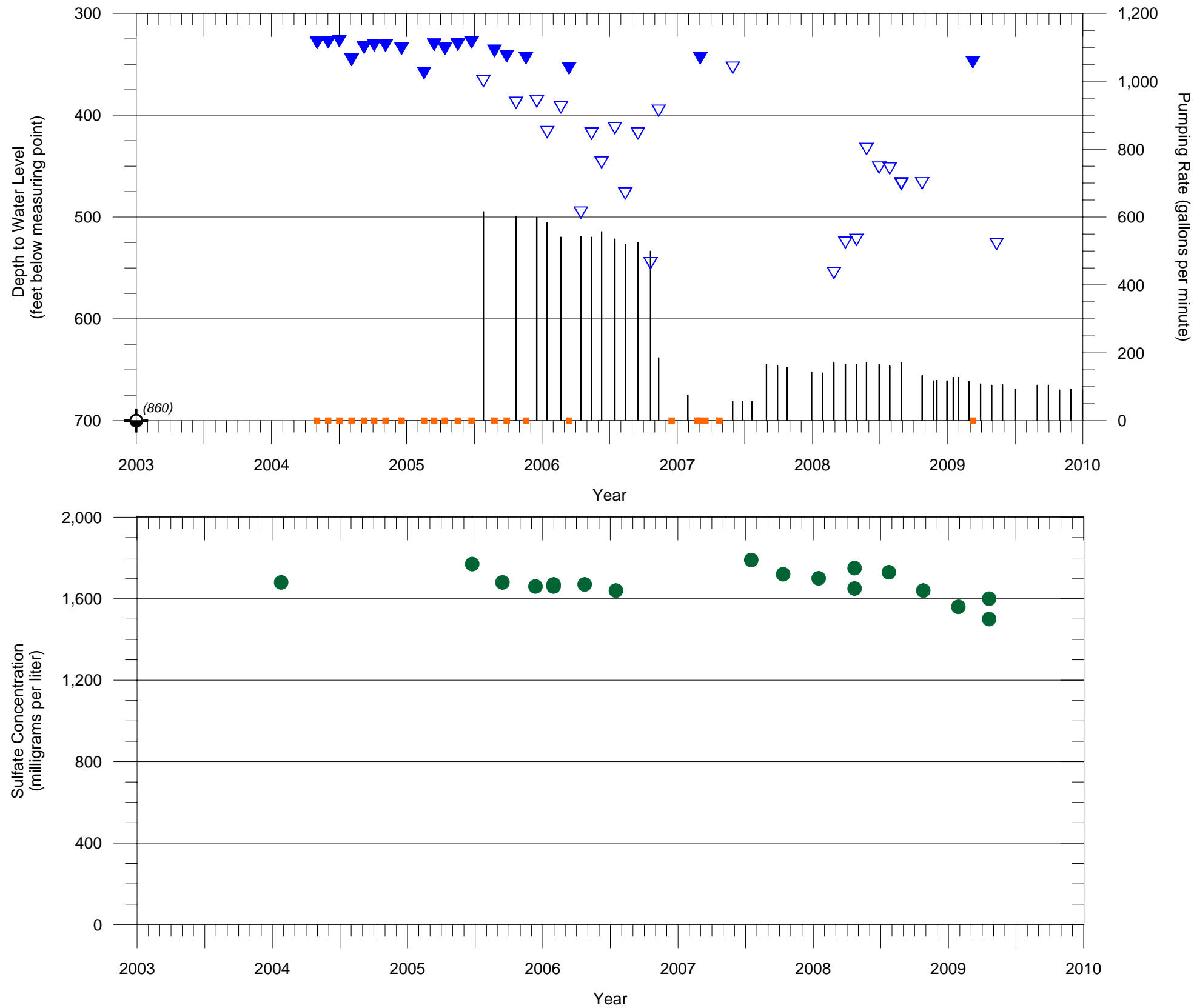
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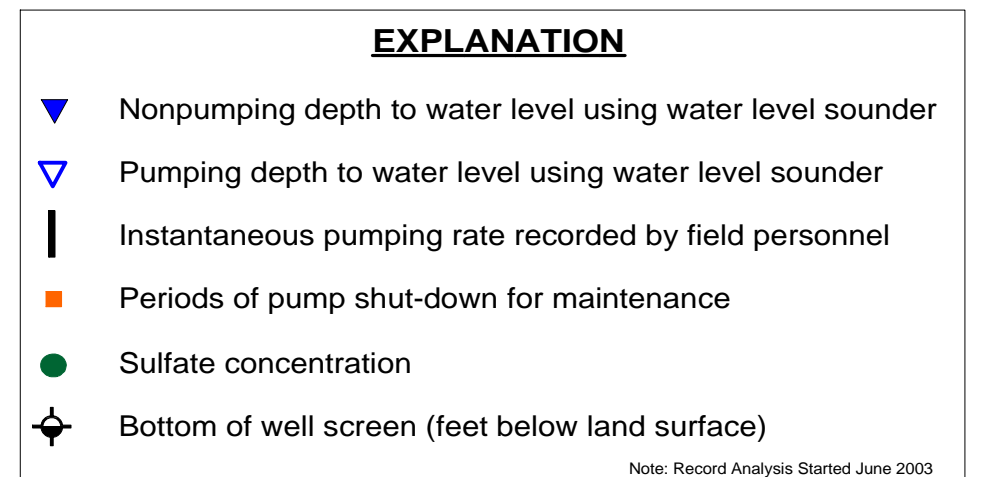
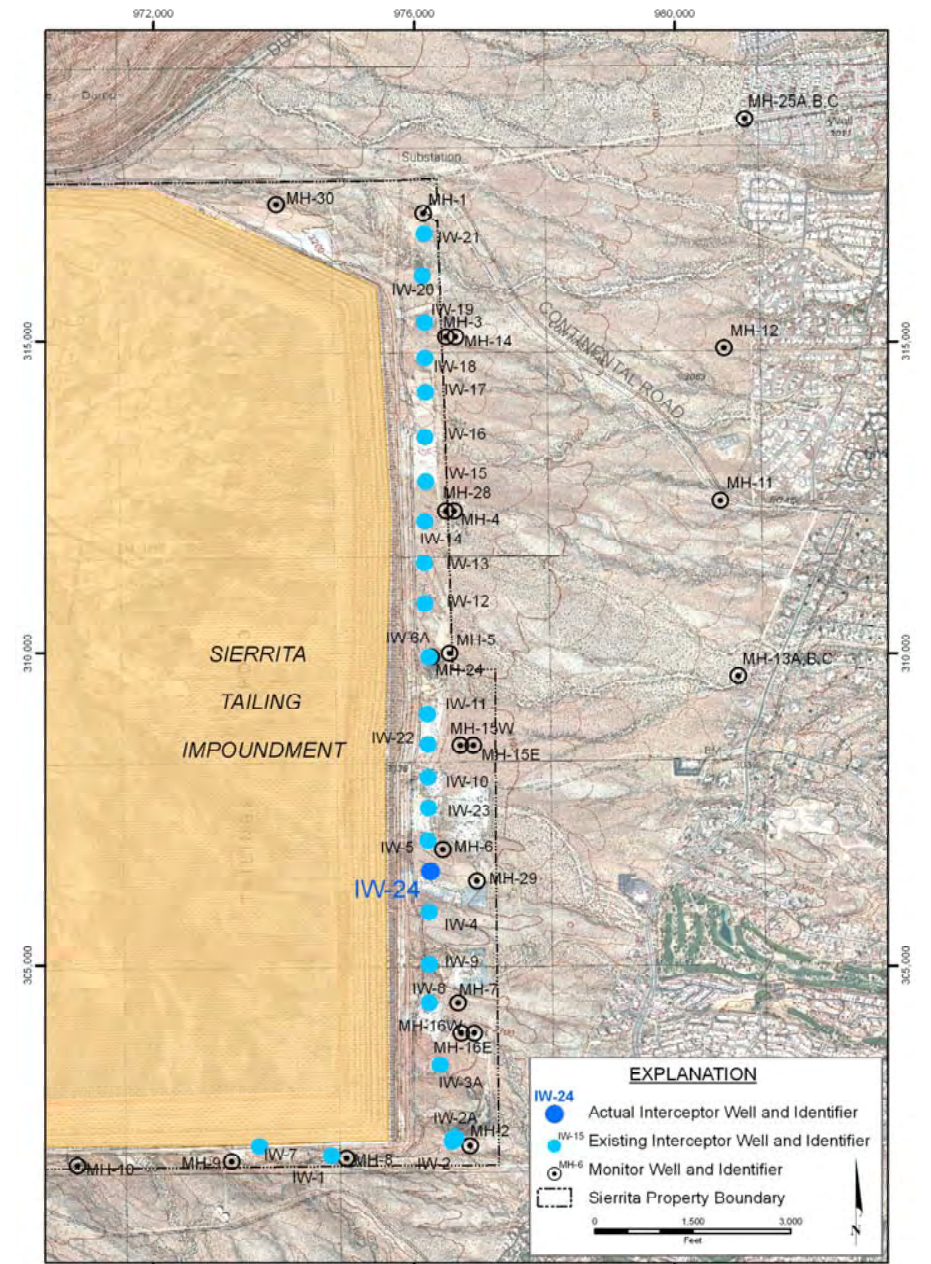
WELL IW-4: YEAR 2003 THROUGH 2009 WATER LEVELS, PUMPING RATES, AND SULFATE CONCENTRATIONS, SIERRITA INTERCEPTOR WELLFIELD, PIMA COUNTY, ARIZONA



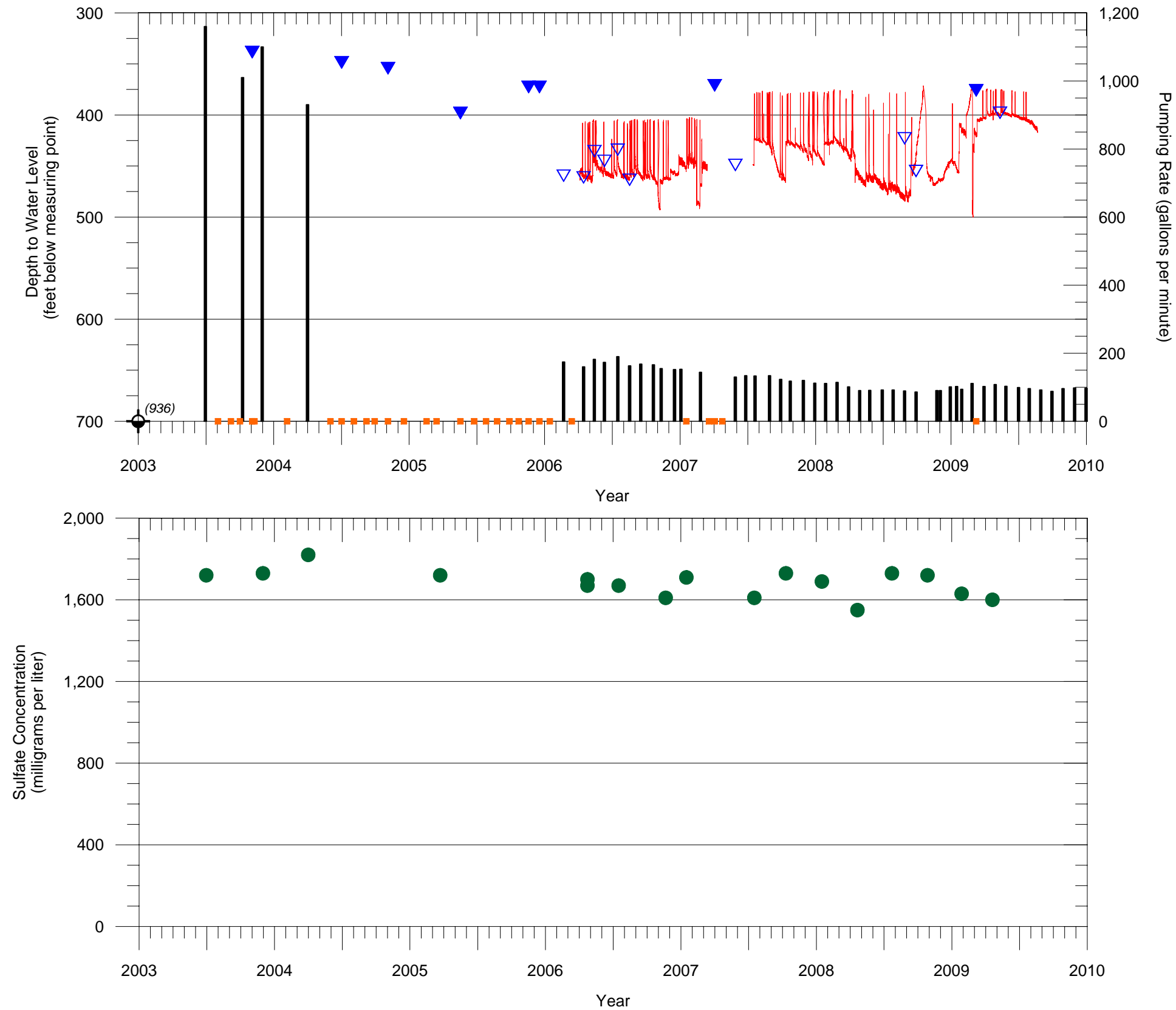
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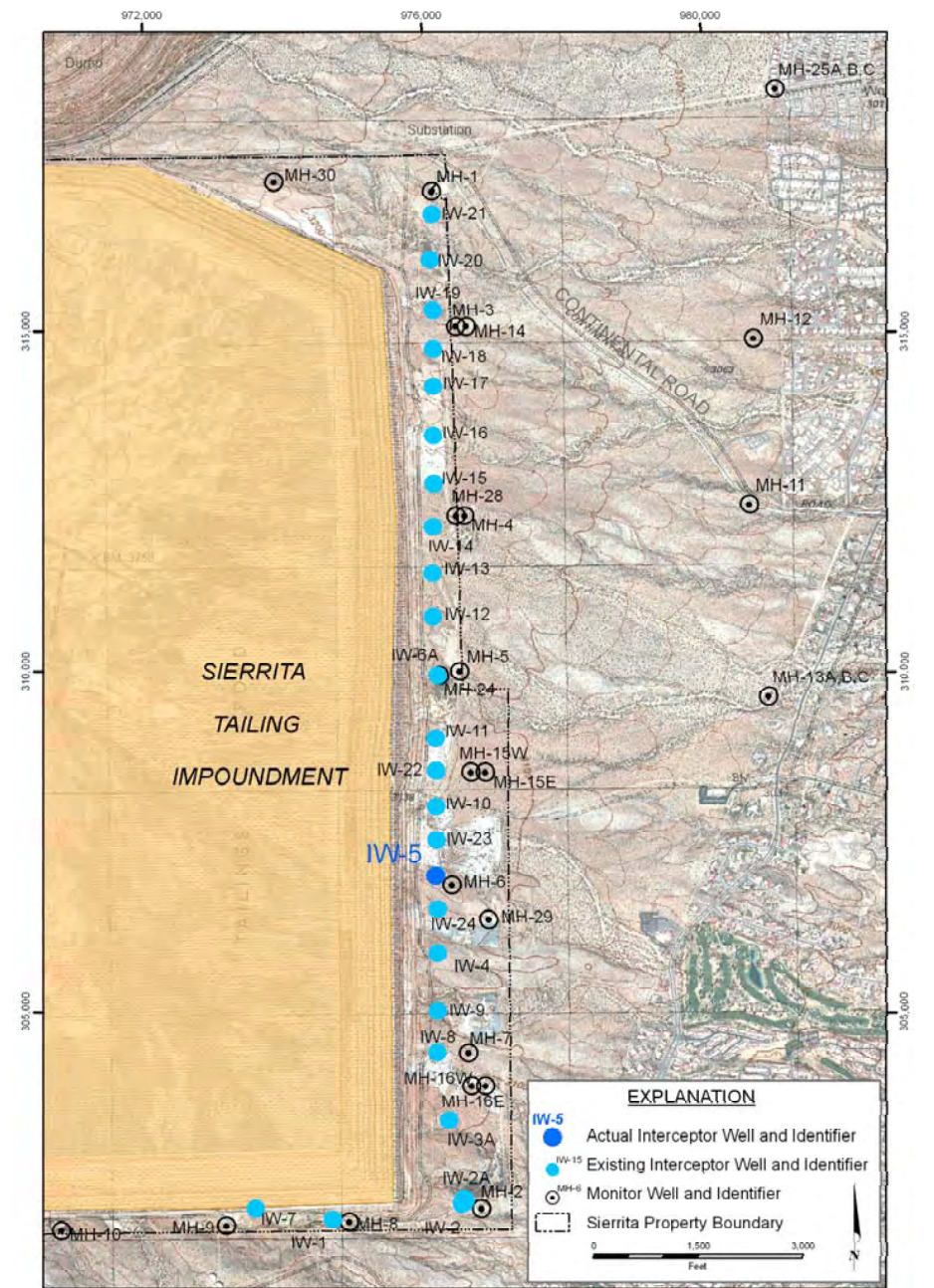
WELL IW-24: YEAR 2003 THROUGH 2009 WATER LEVELS, PUMPING RATES, AND SULFATE CONCENTRATIONS, SIERRITA INTERCEPTOR WELLFIELD, PIMA COUNTY, ARIZONA



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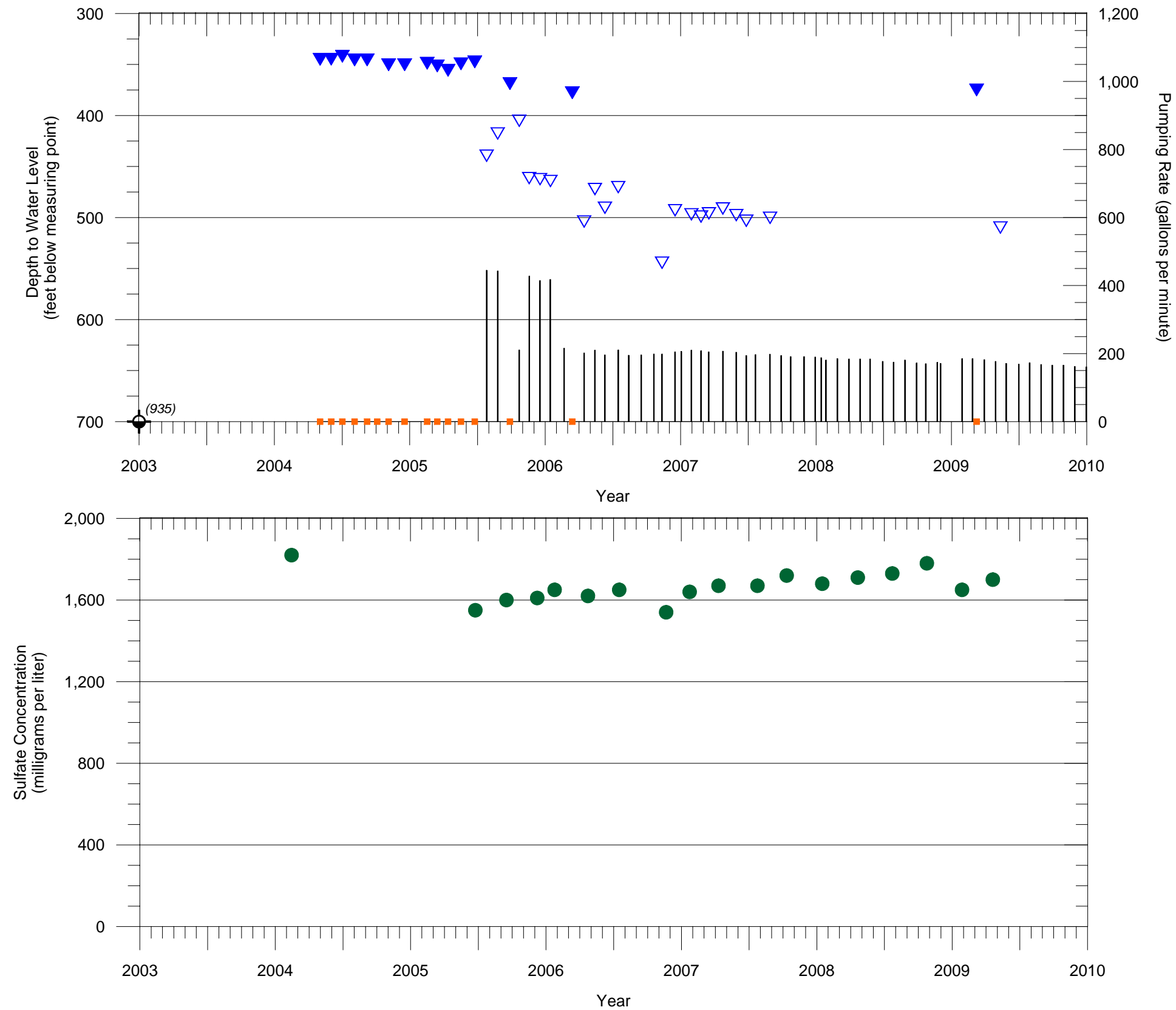
WELL IW-5: YEAR 2003 THROUGH 2009 WATER LEVELS, PUMPING RATES, AND SULFATE CONCENTRATIONS, SIERRITA INTERCEPTOR WELLFIELD, PIMA COUNTY, ARIZONA



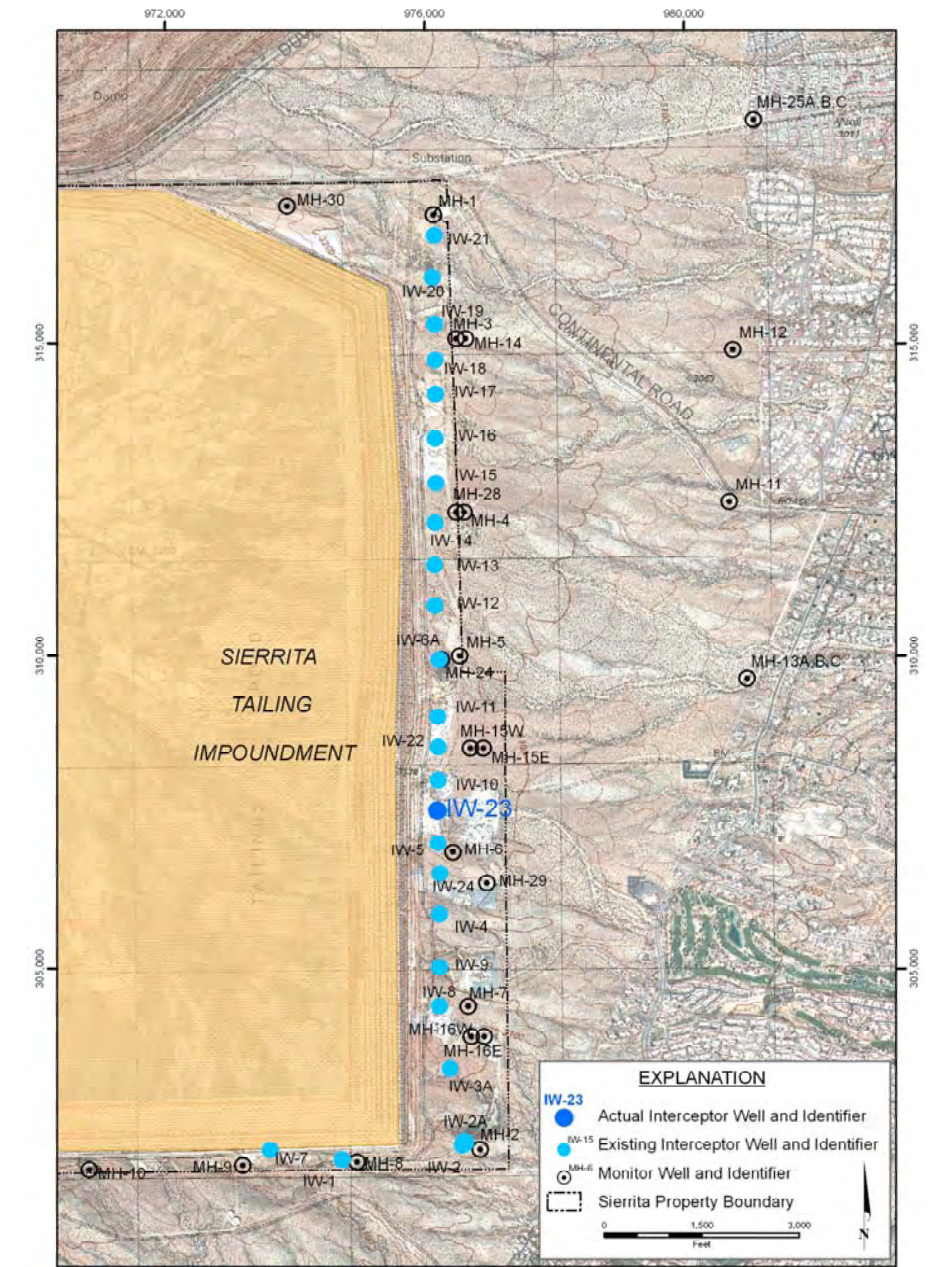
- EXPLANATION**
- ▼ Nonpumping depth to water level using water level sounder
 - ▽ Pumping depth to water level using water level sounder
 - | Instantaneous pumping rate recorded by field personnel
 - Continuous record of depth to water using integrated pressure transducer and datalogger
 - Periods of pump shut-down for maintenance
 - Sulfate concentration
 - ⊕ Bottom of well screen (feet below land surface)

Note: Record Analysis Started June 2003

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WELL IW-23: YEAR 2003 THROUGH 2009 WATER LEVELS, PUMPING RATES, AND SULFATE CONCENTRATIONS, SIERRITA INTERCEPTOR WELLFIELD, PIMA COUNTY, ARIZONA

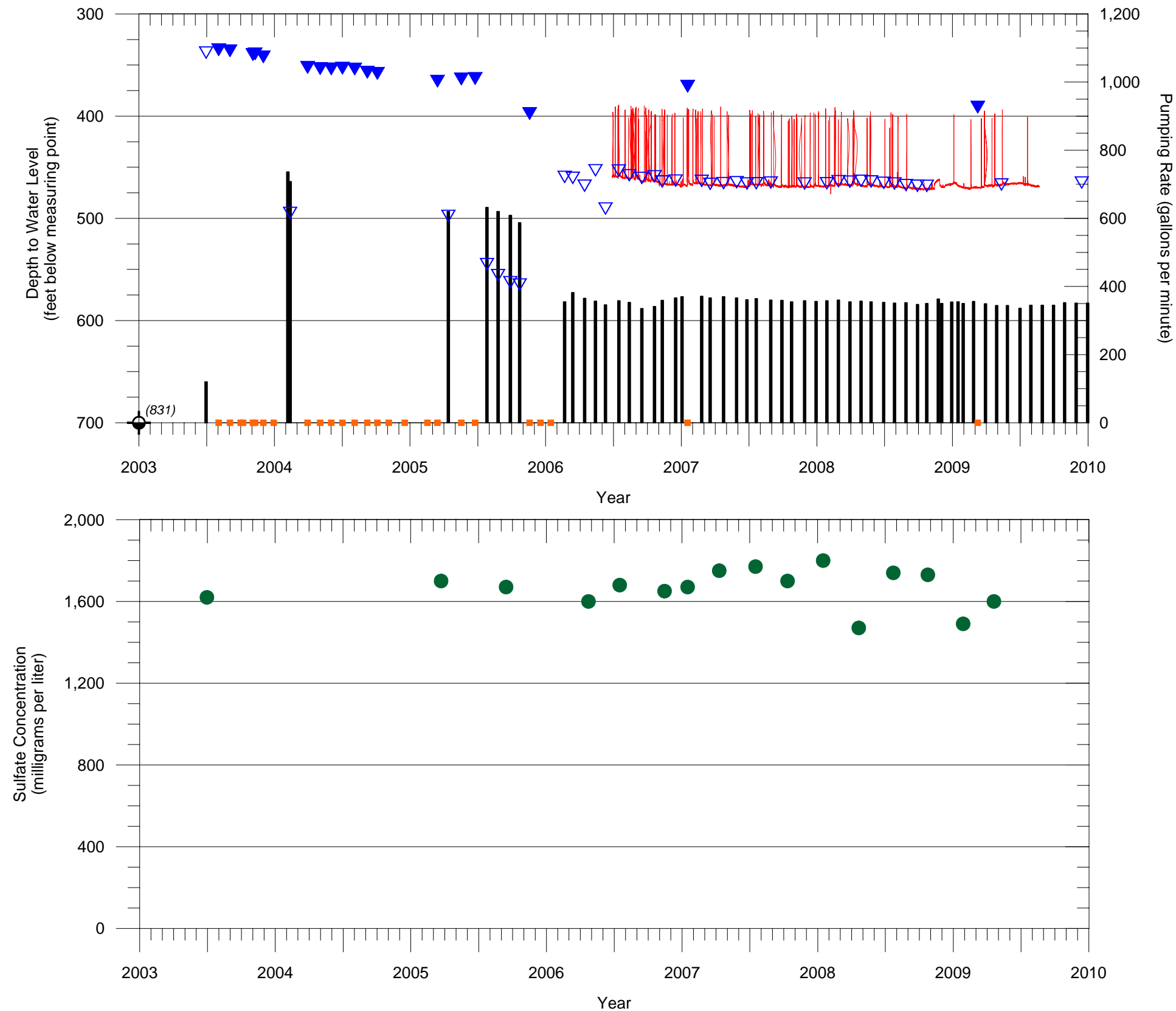


EXPLANATION

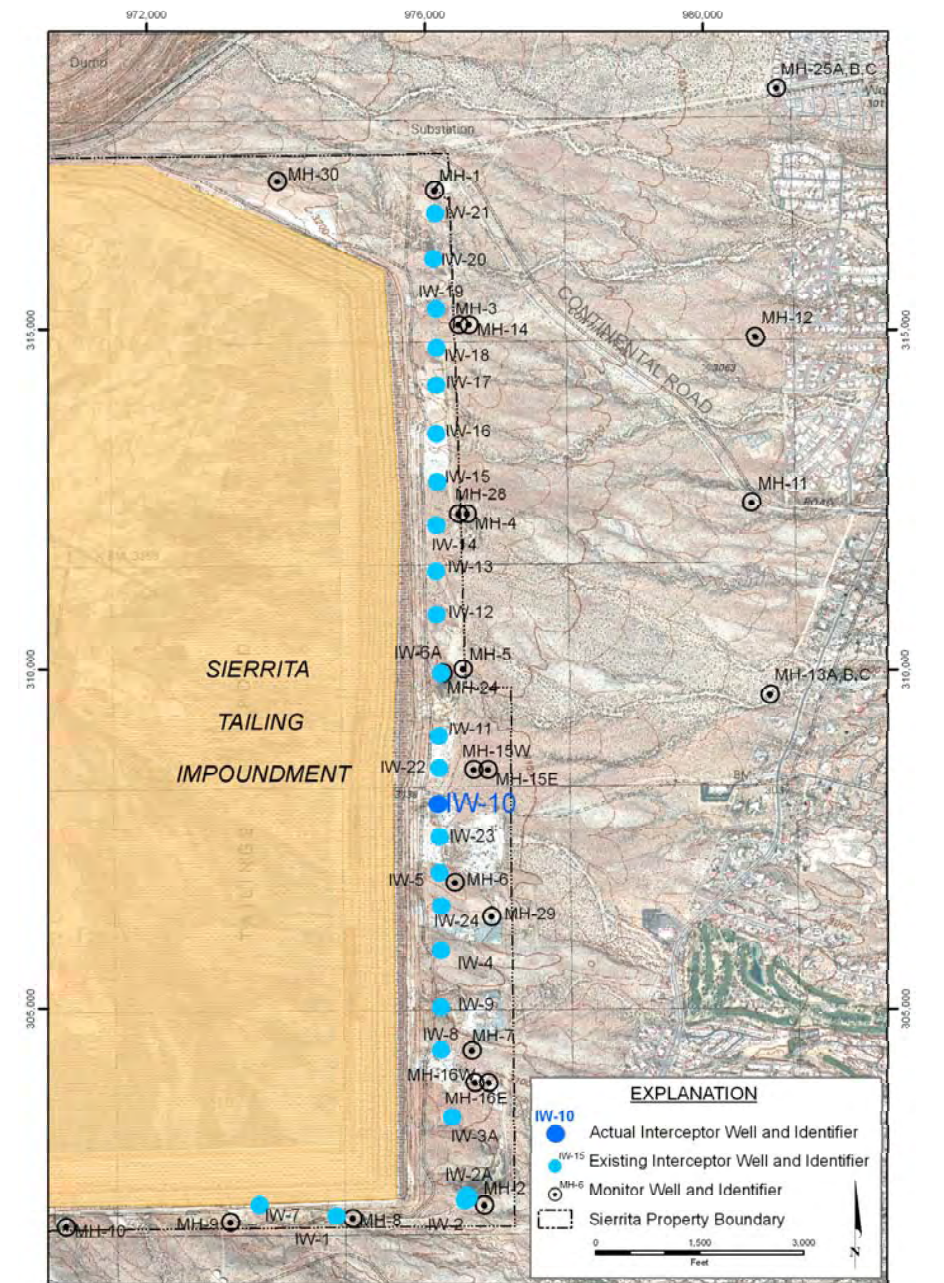
- ▼ Nonpumping depth to water level using water level sounder
- ▽ Pumping depth to water level using water level sounder
- | Instantaneous pumping rate recorded by field personnel
- Periods of pump shut-down for maintenance
- Sulfate concentration
- ⊕ Bottom of well screen (feet below land surface)

Note: Record Analysis Started June 2003

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WELL IW-10: YEAR 2003 THROUGH 2009 WATER LEVELS, PUMPING RATES, AND SULFATE CONCENTRATIONS, SIERRITA INTERCEPTOR WELLFIELD, PIMA COUNTY, ARIZONA

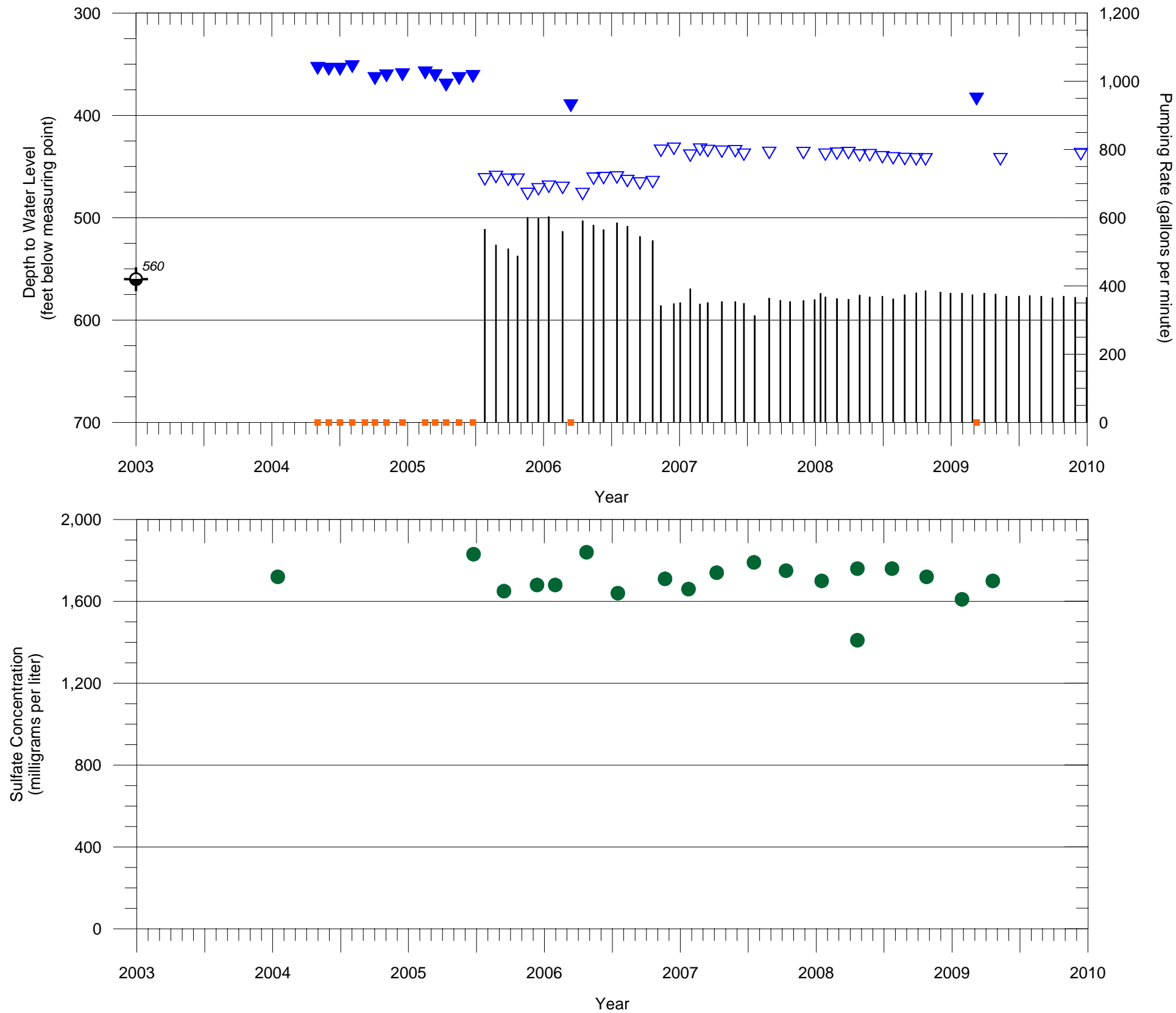


EXPLANATION

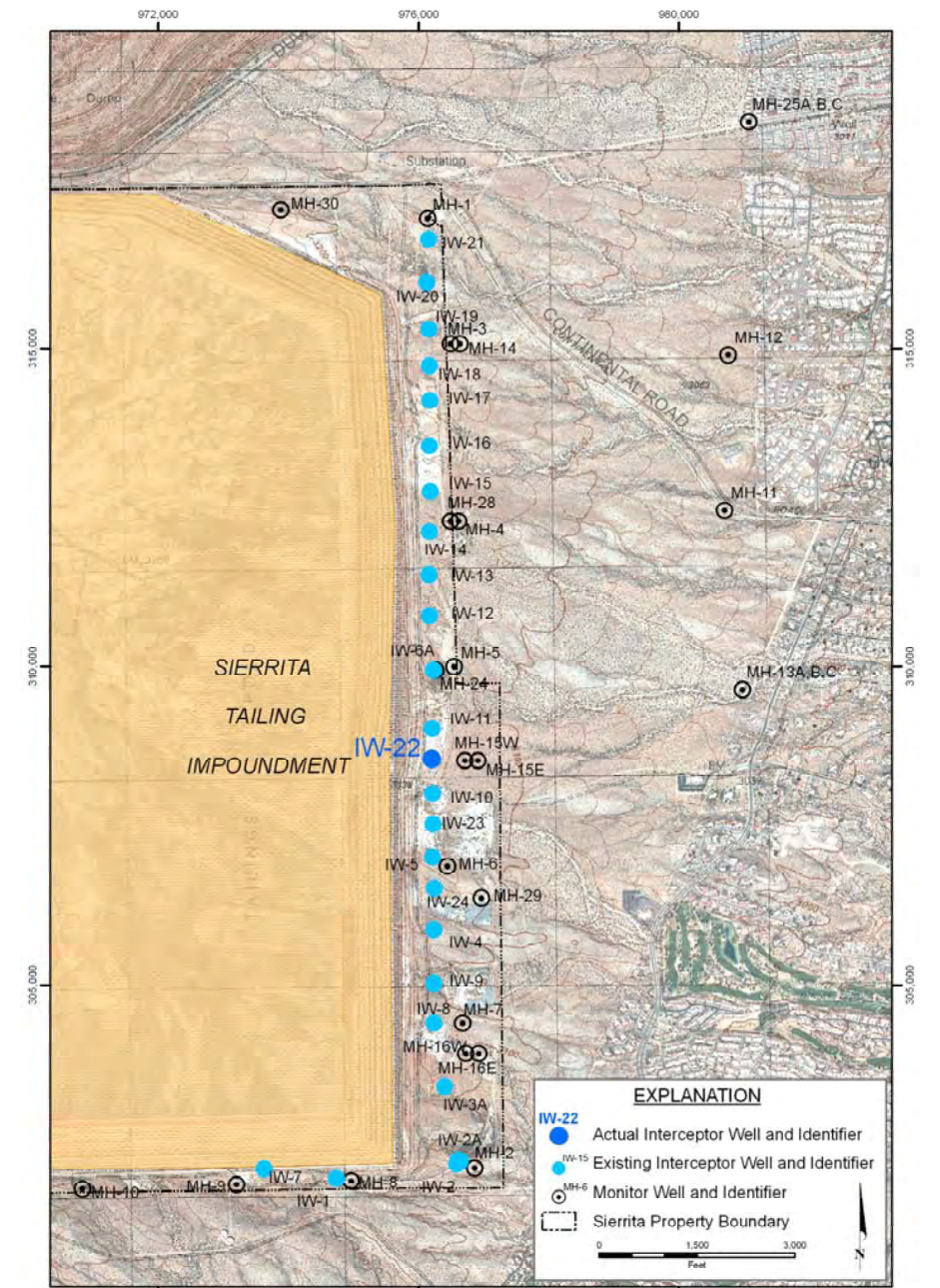
- ▼ Nonpumping depth to water level using water level sounder
- ▽ Pumping depth to water level using water level sounder
- | Instantaneous pumping rate recorded by field personnel
- Continuous record of depth to water using integrated pressure transducer and datalogger
- Periods of pump shut-down for maintenance
- Sulfate concentration
- ⊕ Bottom of well screen (feet below land surface)

Note: Record Analysis Started June 2003

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WELL IW-22: YEAR 2003 THROUGH 2009 WATER LEVELS, PUMPING RATES, AND SULFATE CONCENTRATIONS, SIERRITA INTERCEPTOR WELLFIELD, PIMA COUNTY, ARIZONA

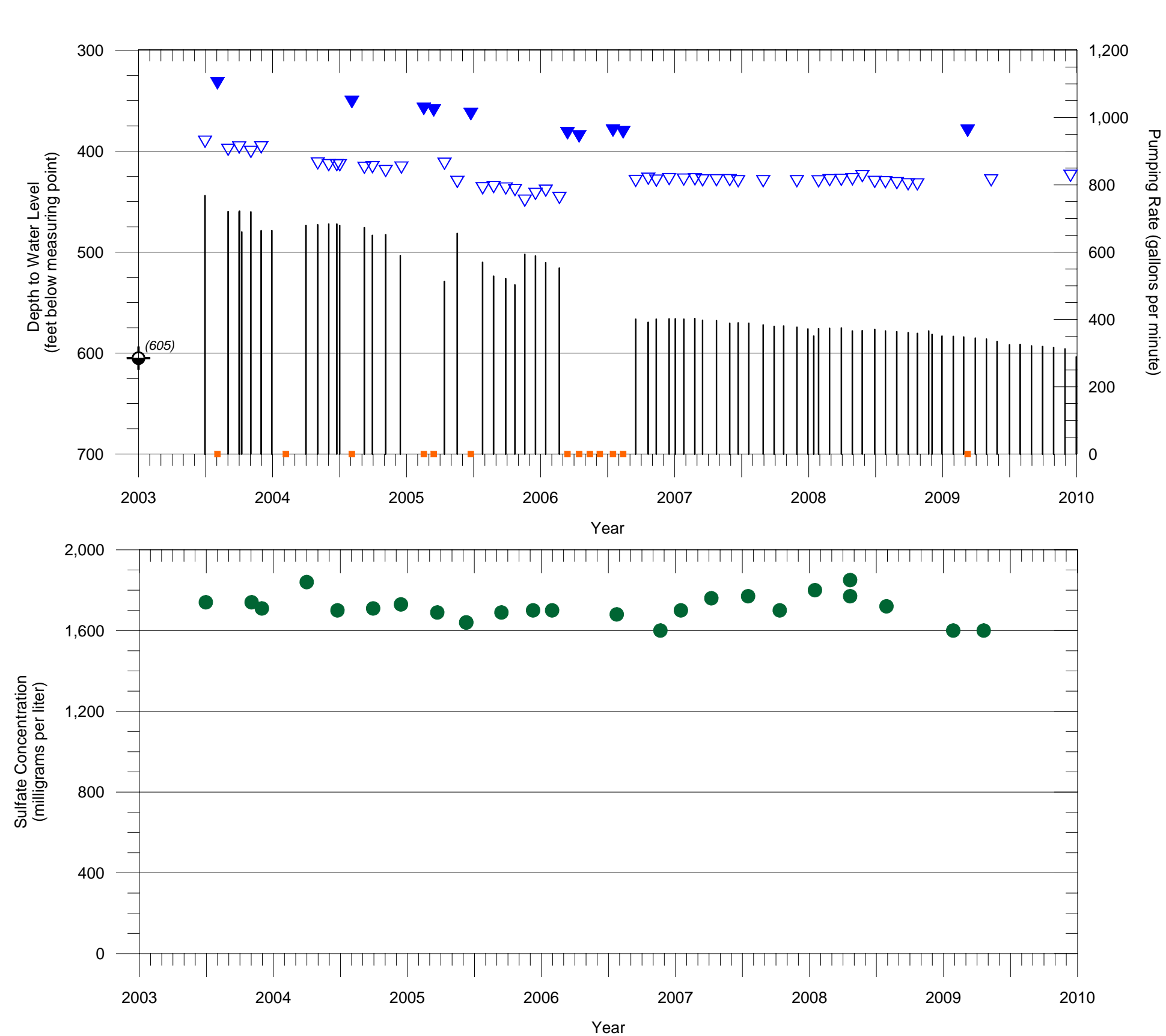


EXPLANATION

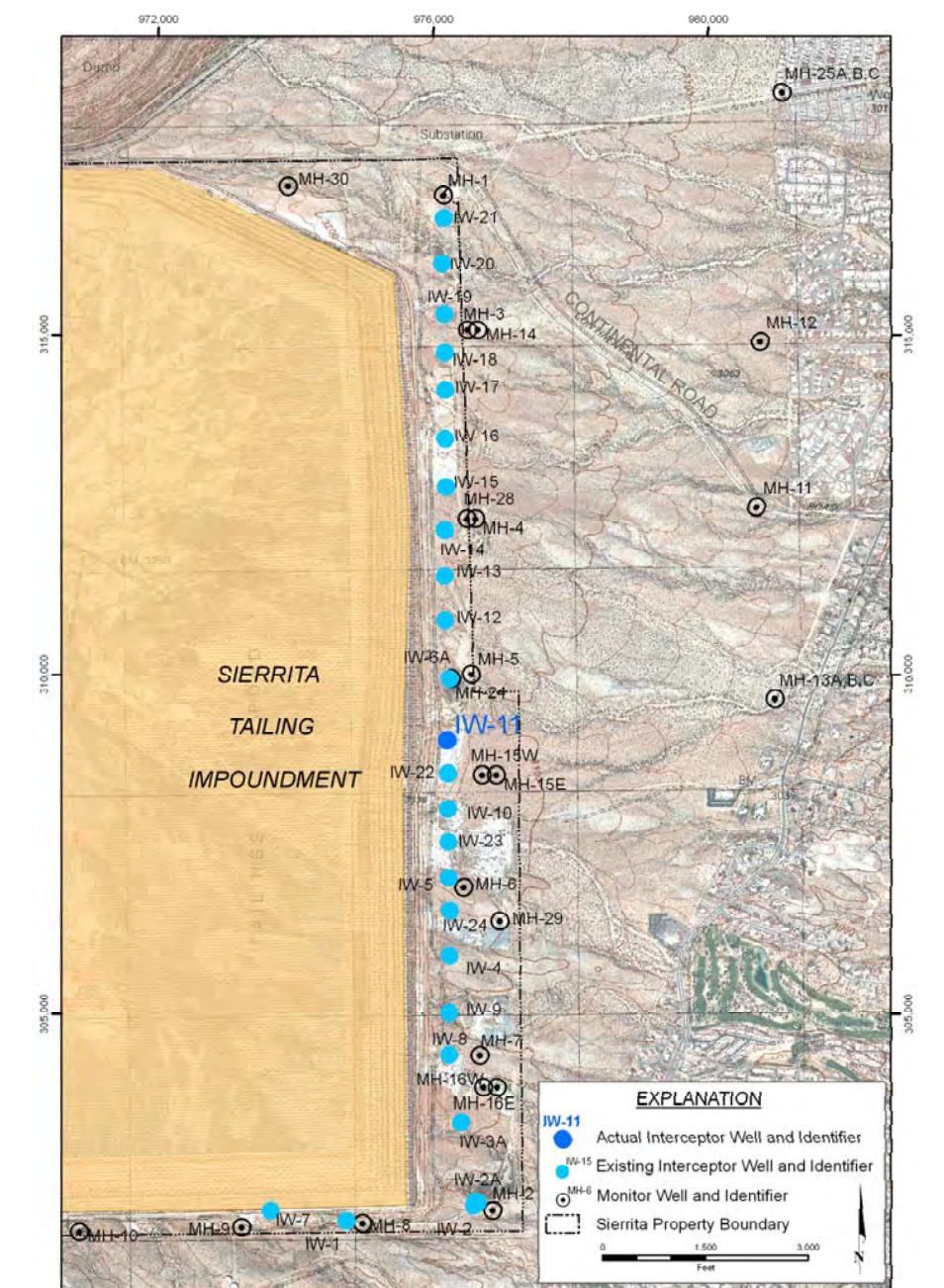
- ▼ Nonpumping depth to water level using water level sounder
- ▽ Pumping depth to water level using water level sounder
- | Instantaneous pumping rate recorded by field personnel
- Periods of pump shut-down for maintenance
- Sulfate concentration
- ⊕ Bottom of well screen (feet below land surface)

Note: Record Analysis Started June 2003

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WELL IW-11: YEAR 2003 THROUGH 2009 WATER LEVELS, PUMPING RATES, AND SULFATE CONCENTRATIONS, SIERRITA INTERCEPTOR WELLFIELD, PIMA COUNTY, ARIZONA

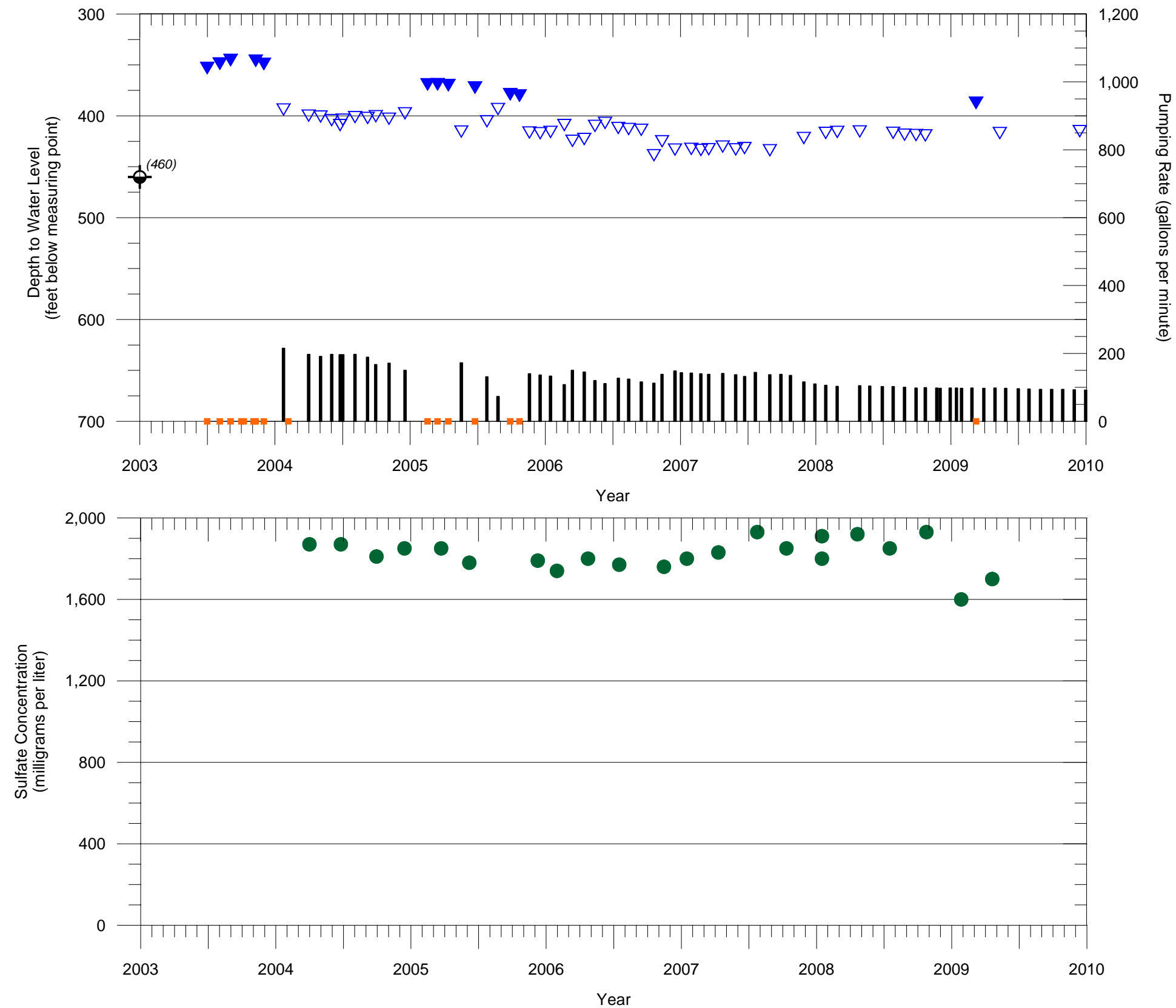


EXPLANATION

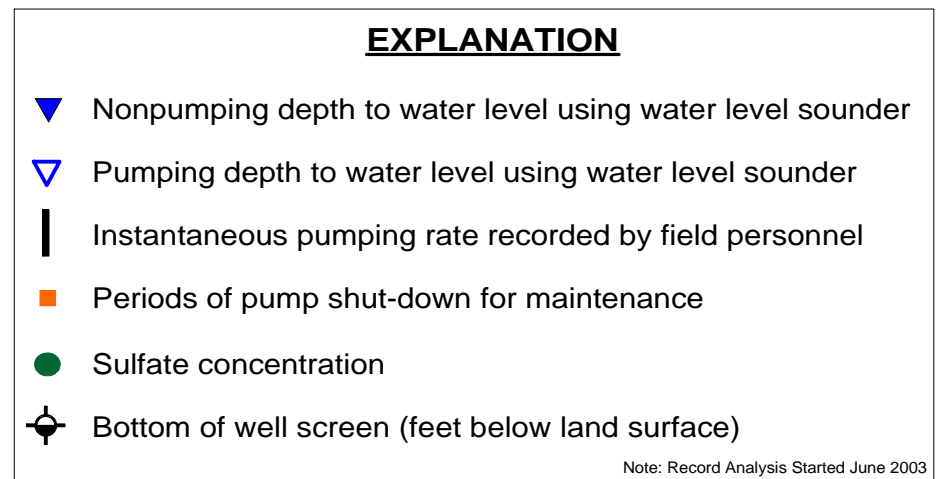
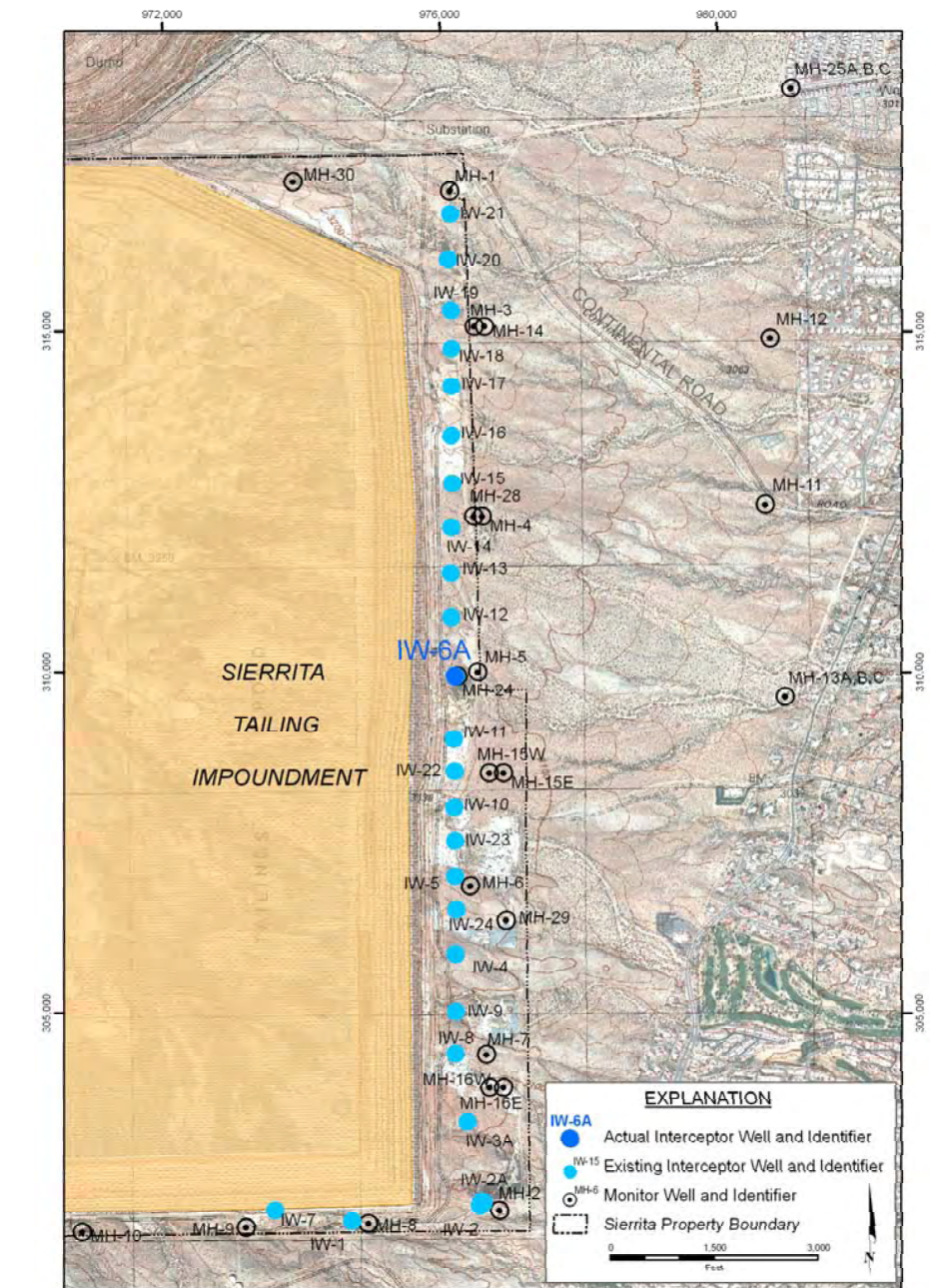
- ▼ Nonpumping depth to water level using water level sounder
- ▽ Pumping depth to water level using water level sounder
- | Instantaneous pumping rate recorded by field personnel
- Periods of pump shut-down for maintenance
- Sulfate concentration
- ⊕ Bottom of well screen (feet below land surface)

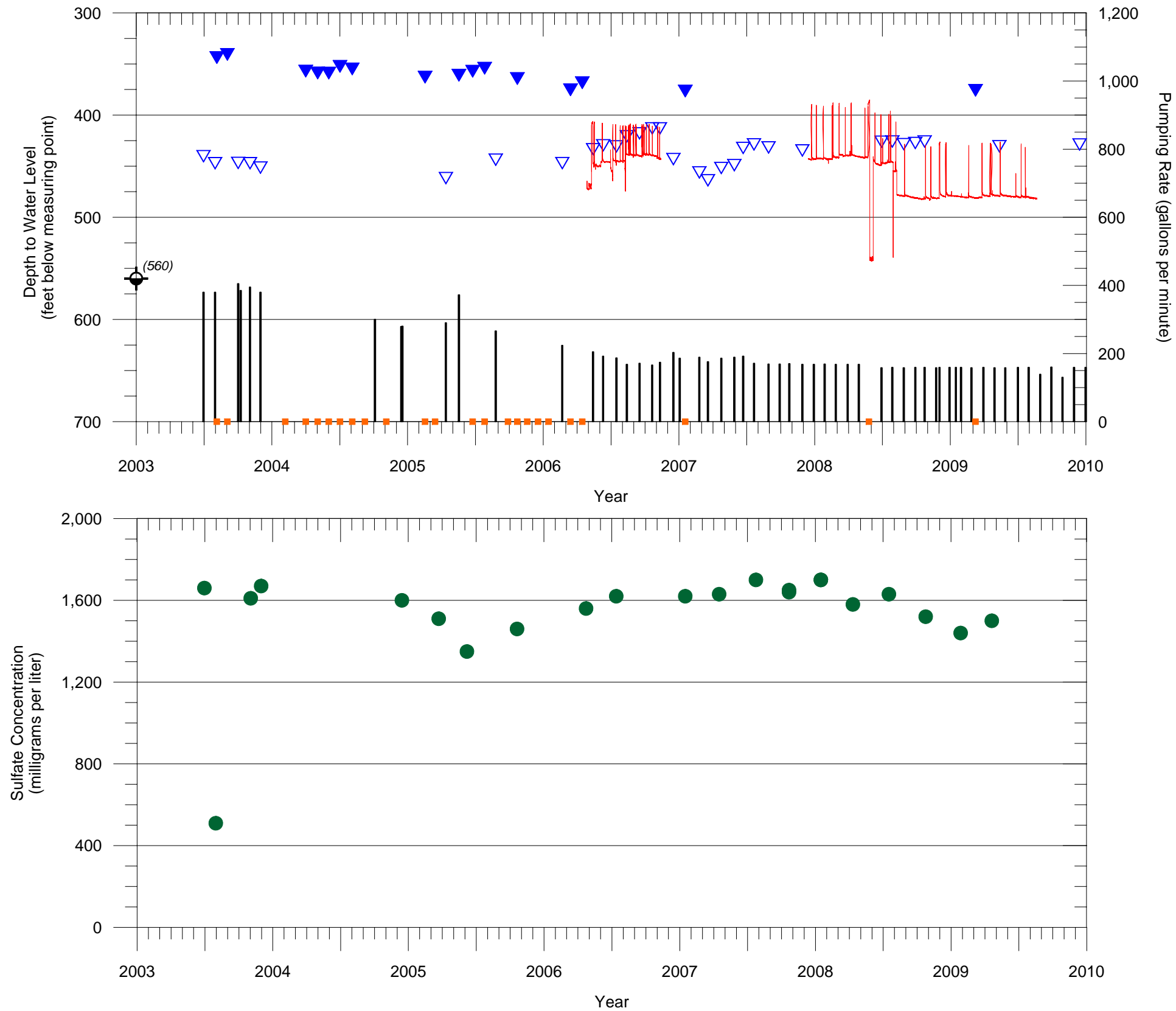
Note: Record Analysis Started June 2003

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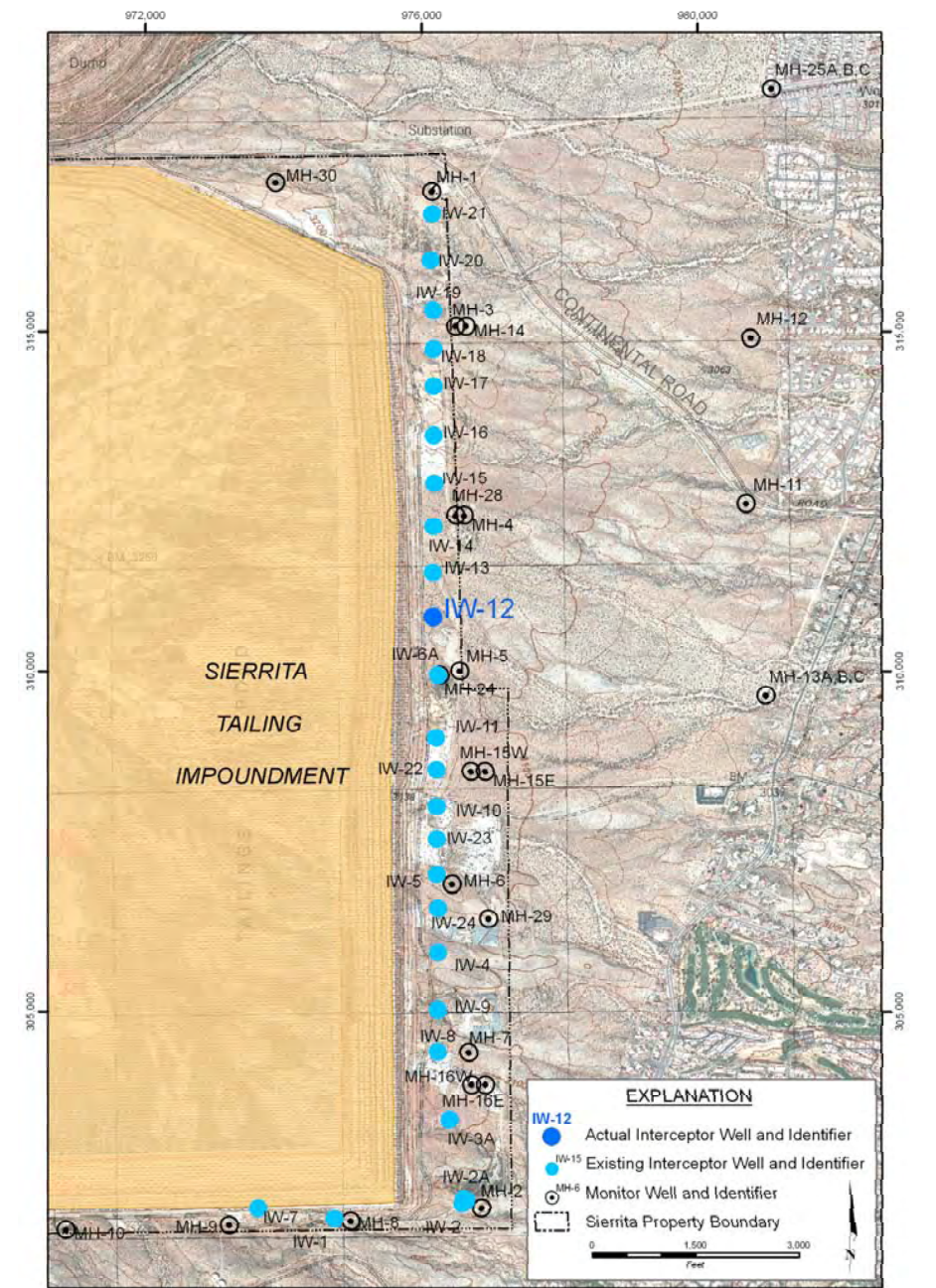


WELL IW-6A: YEAR 2003 THROUGH 2009 WATER LEVELS, PUMPING RATES, AND SULFATE CONCENTRATIONS, SIERRITA INTERCEPTOR WELLFIELD, PIMA COUNTY, ARIZONA





WELL IW-12: YEAR 2003 THROUGH 2009 WATER LEVELS, PUMPING RATES, AND SULFATE CONCENTRATIONS, SIERRITA INTERCEPTOR WELLFIELD, PIMA COUNTY, ARIZONA

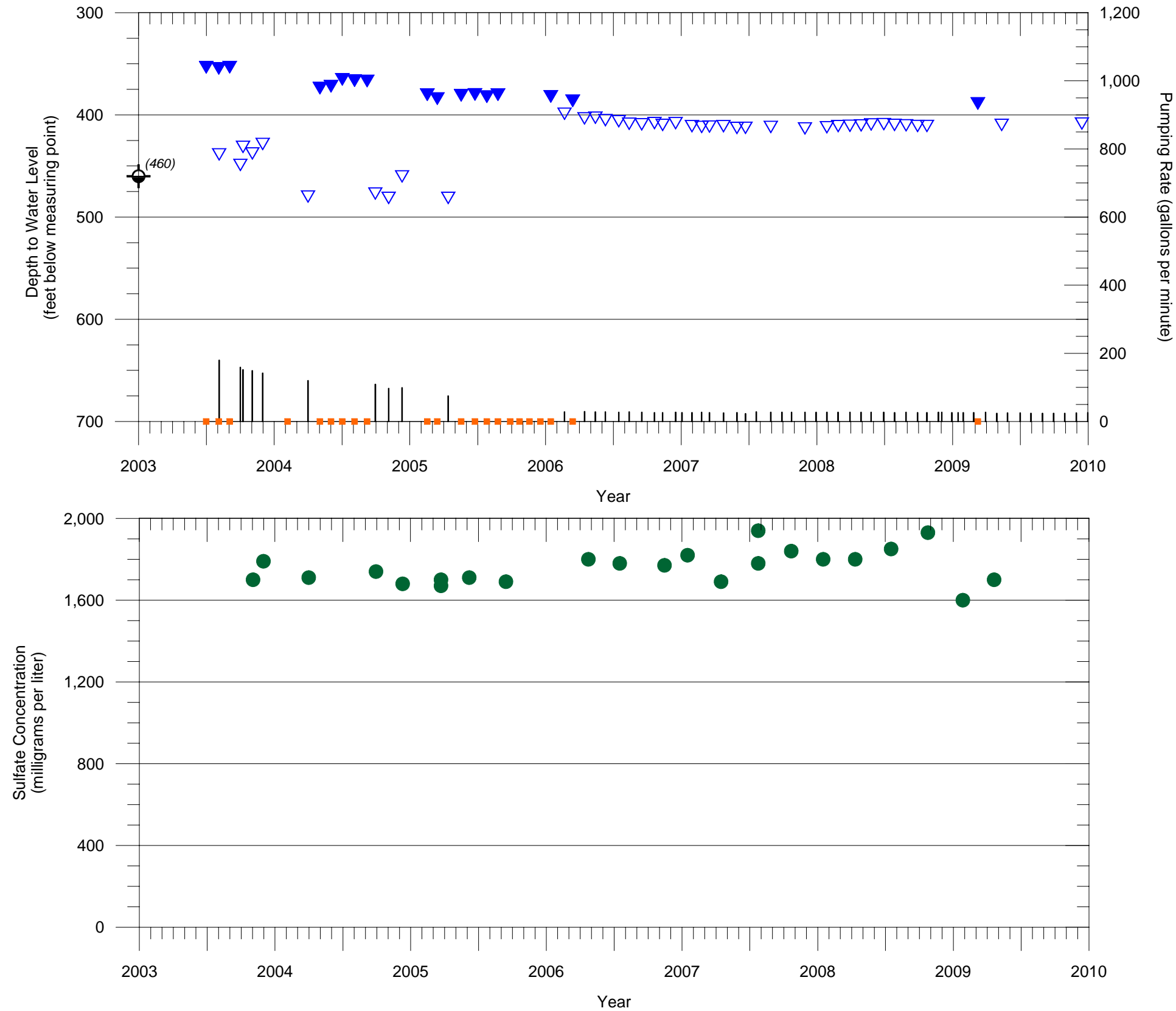


EXPLANATION

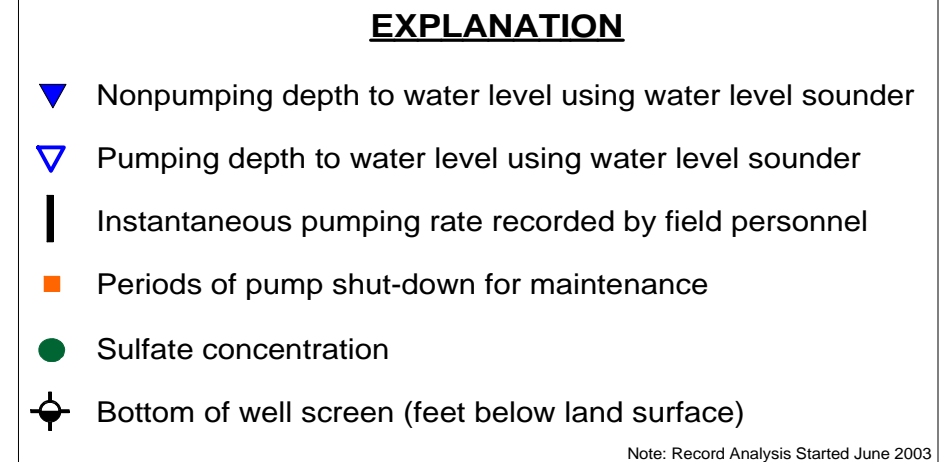
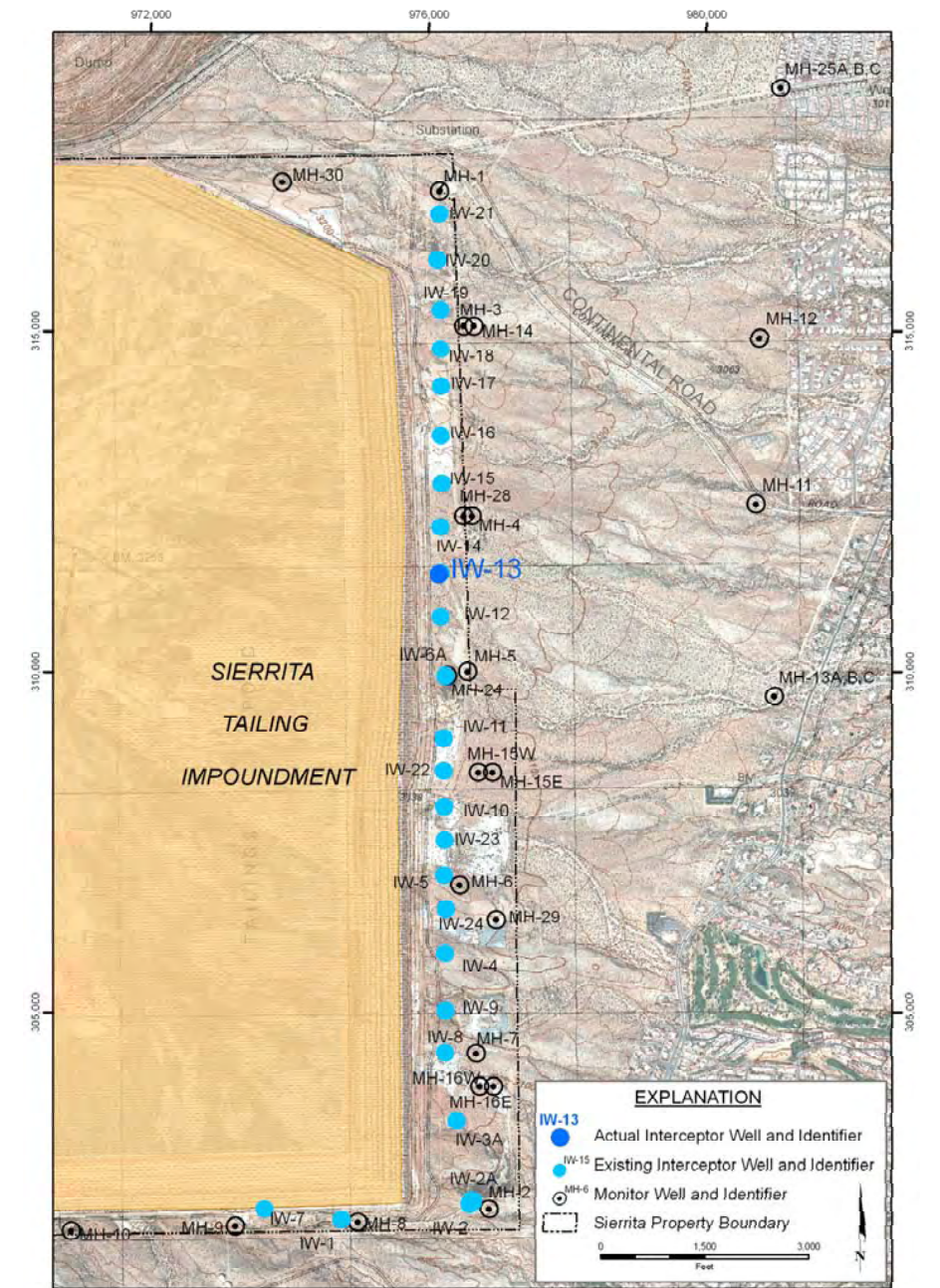
- ▼ Nonpumping depth to water level using water level sounder
- ▽ Pumping depth to water level using water level sounder
- | Instantaneous pumping rate recorded by field personnel
- Continuous record of depth to water using integrated pressure transducer and datalogger
- Periods of pump shut-down for maintenance
- Sulfate concentration
- ⊕ Bottom of well screen (feet below land surface)

Note: Record Analysis Started June 2003

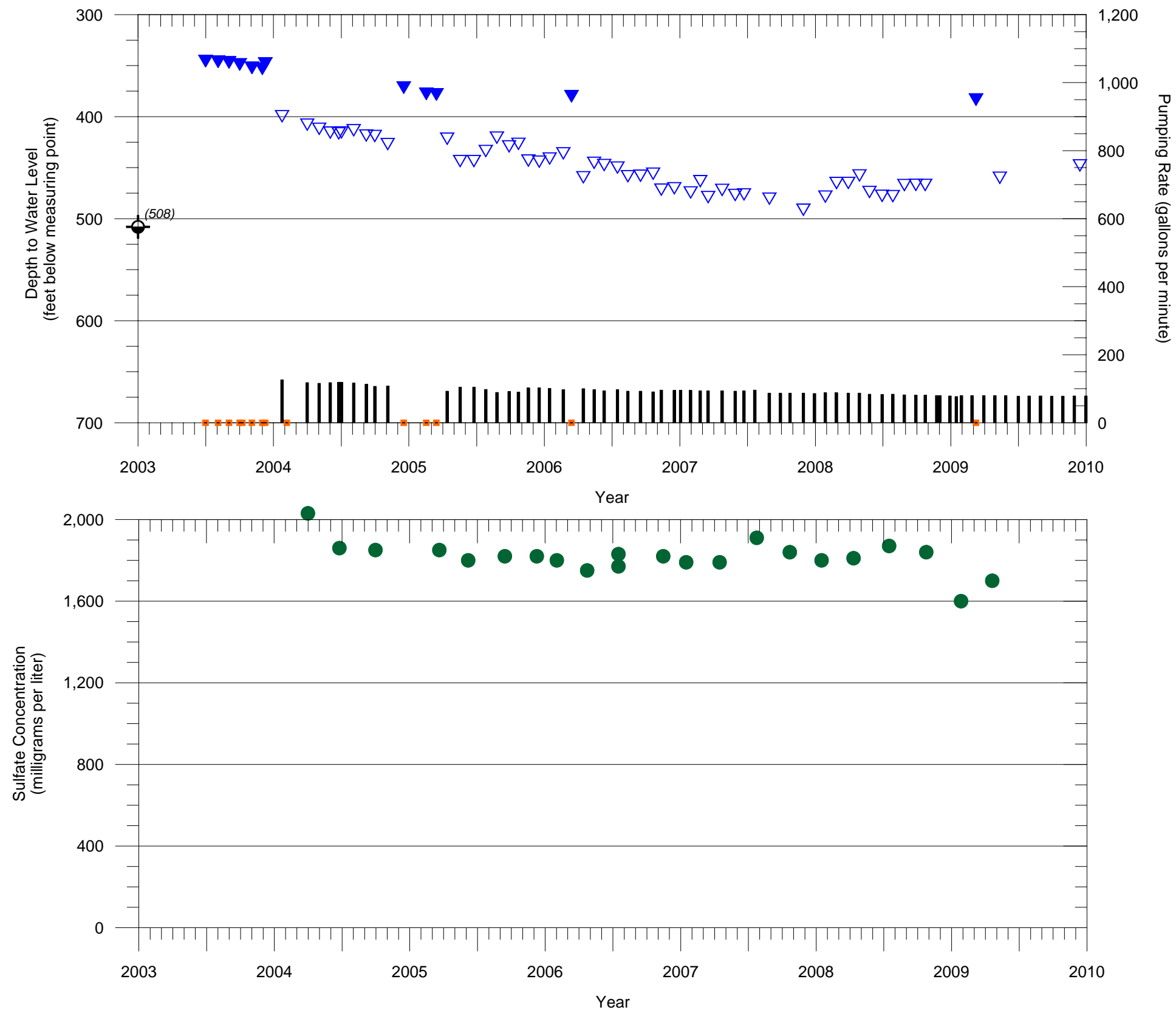
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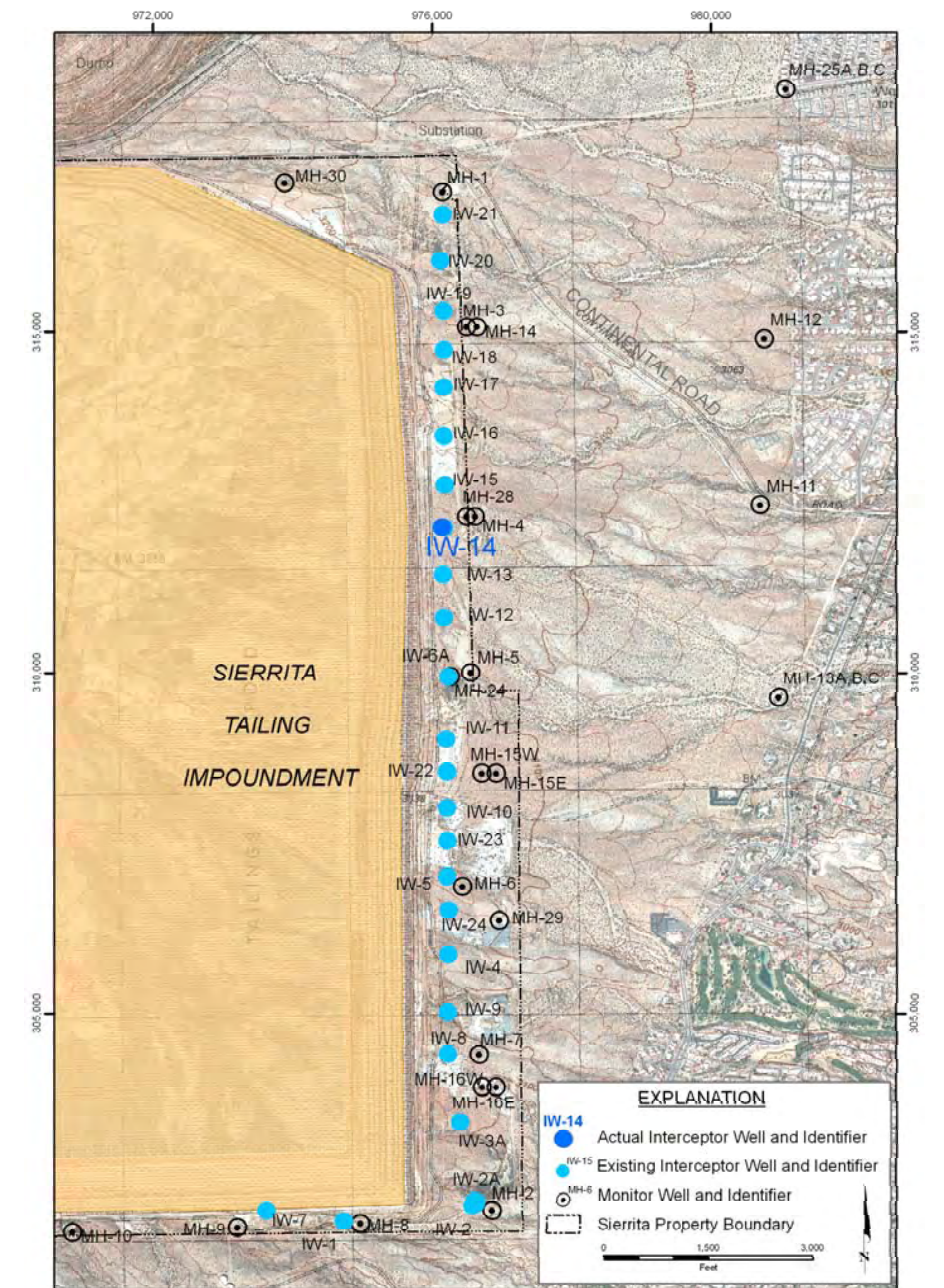
WELL IW-13: YEAR 2003 THROUGH 2009 WATER LEVELS, PUMPING RATES, AND SULFATE CONCENTRATIONS, SIERRITA INTERCEPTOR WELLFIELD, PIMA COUNTY, ARIZONA



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WELL IW-14: YEAR 2003 THROUGH 2009 WATER LEVELS, PUMPING RATES, AND SULFATE CONCENTRATIONS, SIERRITA INTERCEPTOR WELLFIELD, PIMA COUNTY, ARIZONA

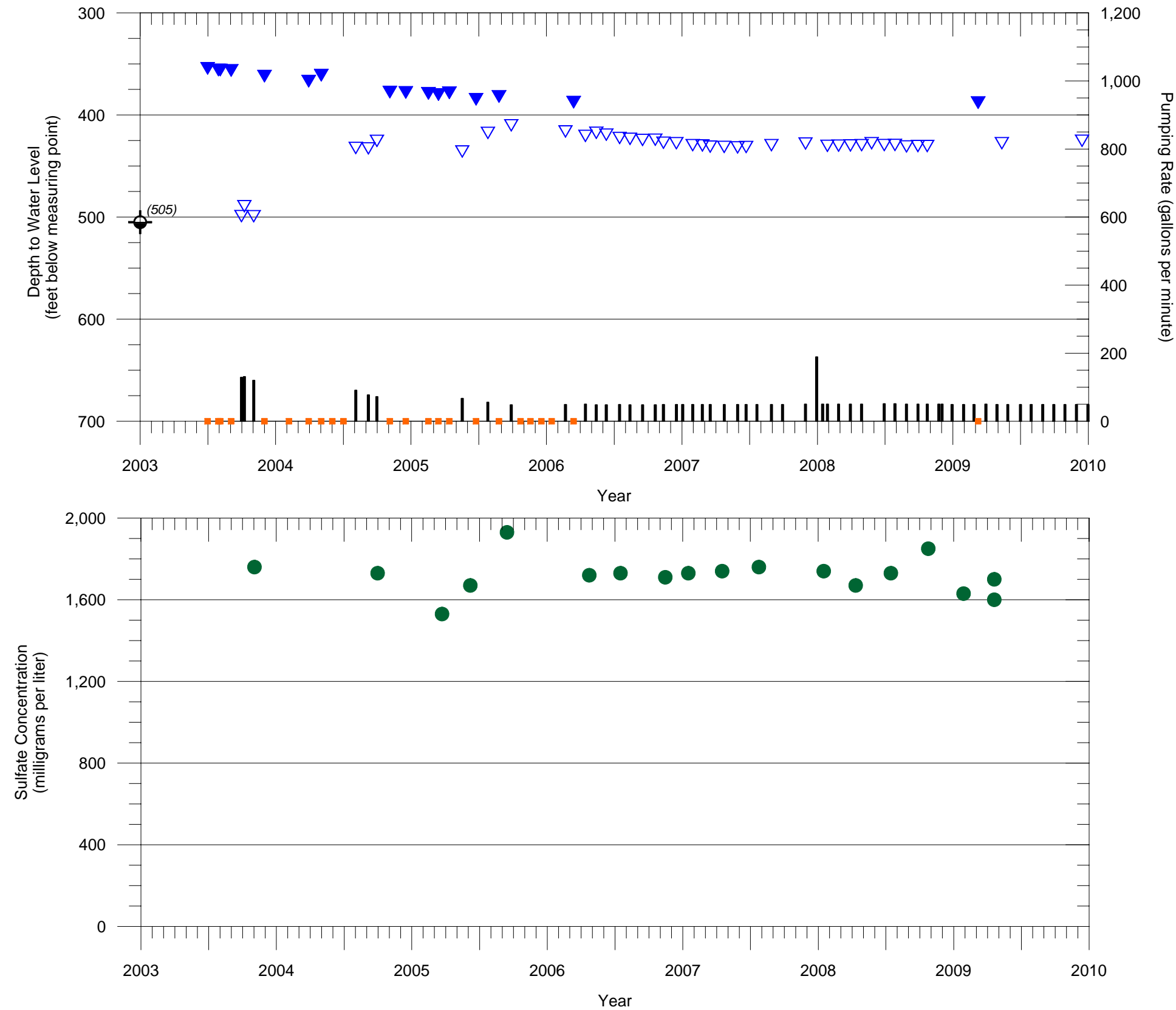


EXPLANATION

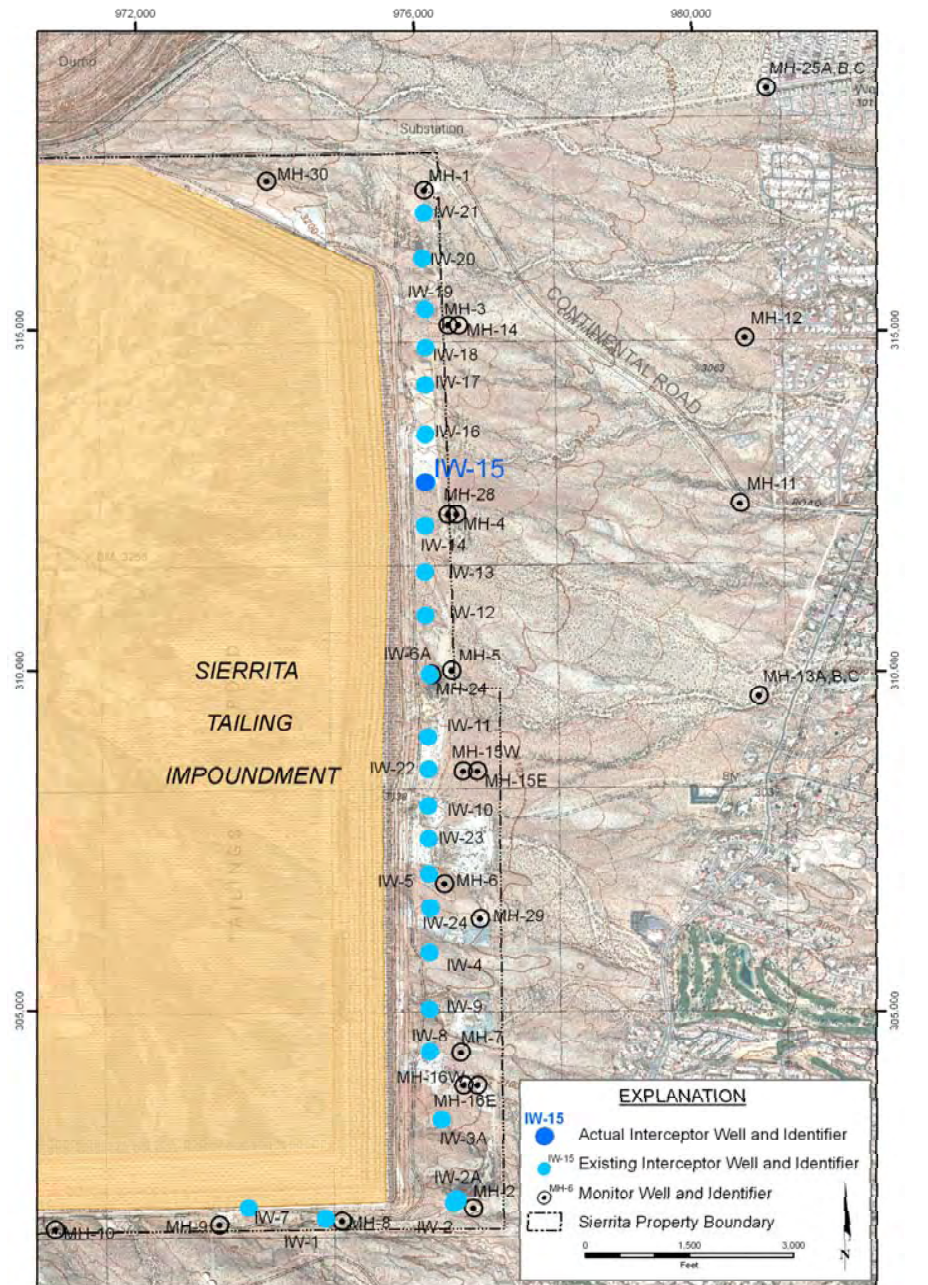
- ▼ Nonpumping depth to water level using water level sounder
- ▽ Pumping depth to water level using water level sounder
- | Instantaneous pumping rate recorded by field personnel
- Periods of pump shut-down for maintenance
- Sulfate concentration
- ⊕ Bottom of well screen (feet below land surface)

Note: Record Analysis Started June 2003

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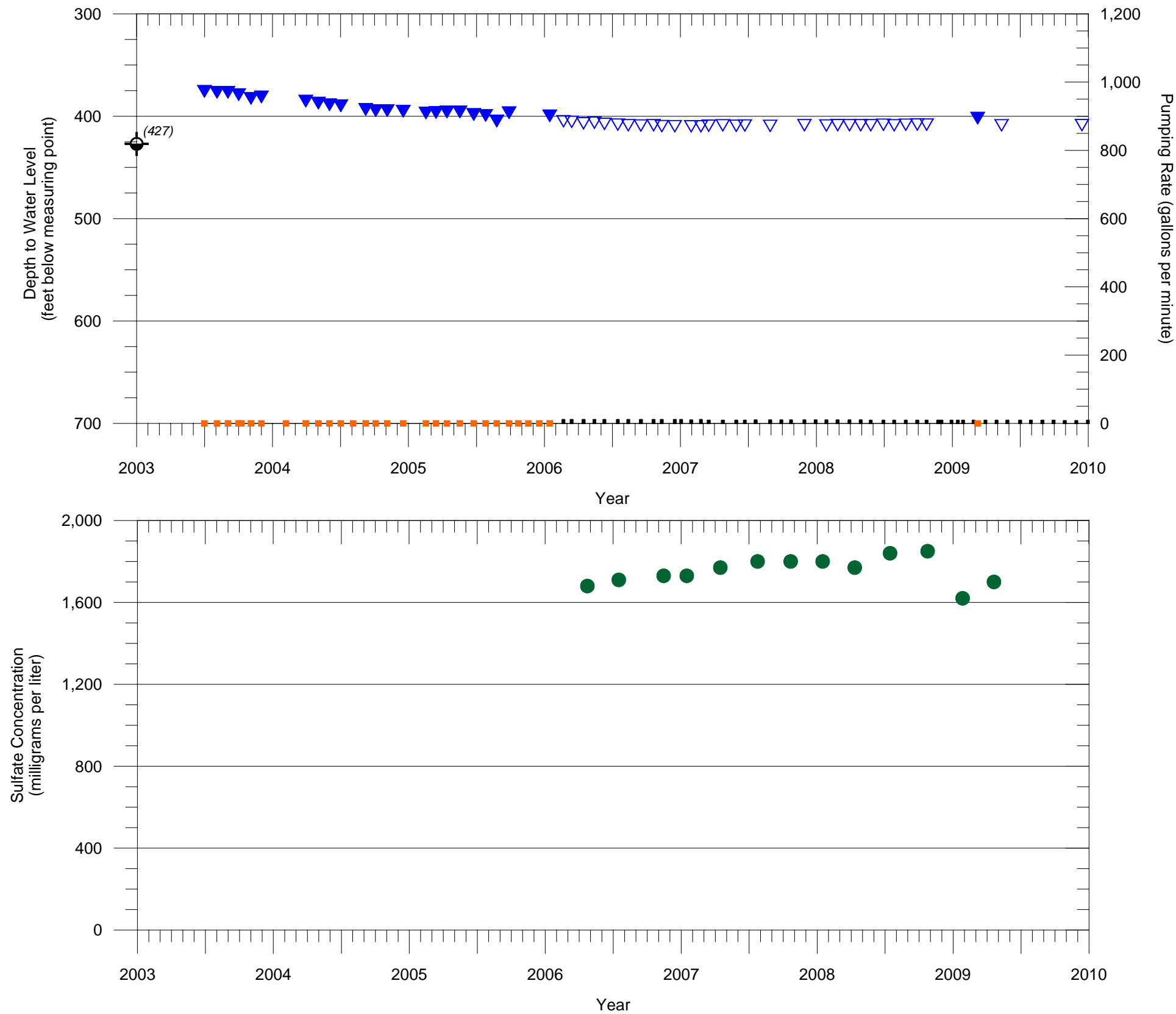
WELL IW-15: YEAR 2003 THROUGH 2009 WATER LEVELS, PUMPING RATES, AND SULFATE CONCENTRATIONS, SIERRITA INTERCEPTOR WELLFIELD, PIMA COUNTY, ARIZONA



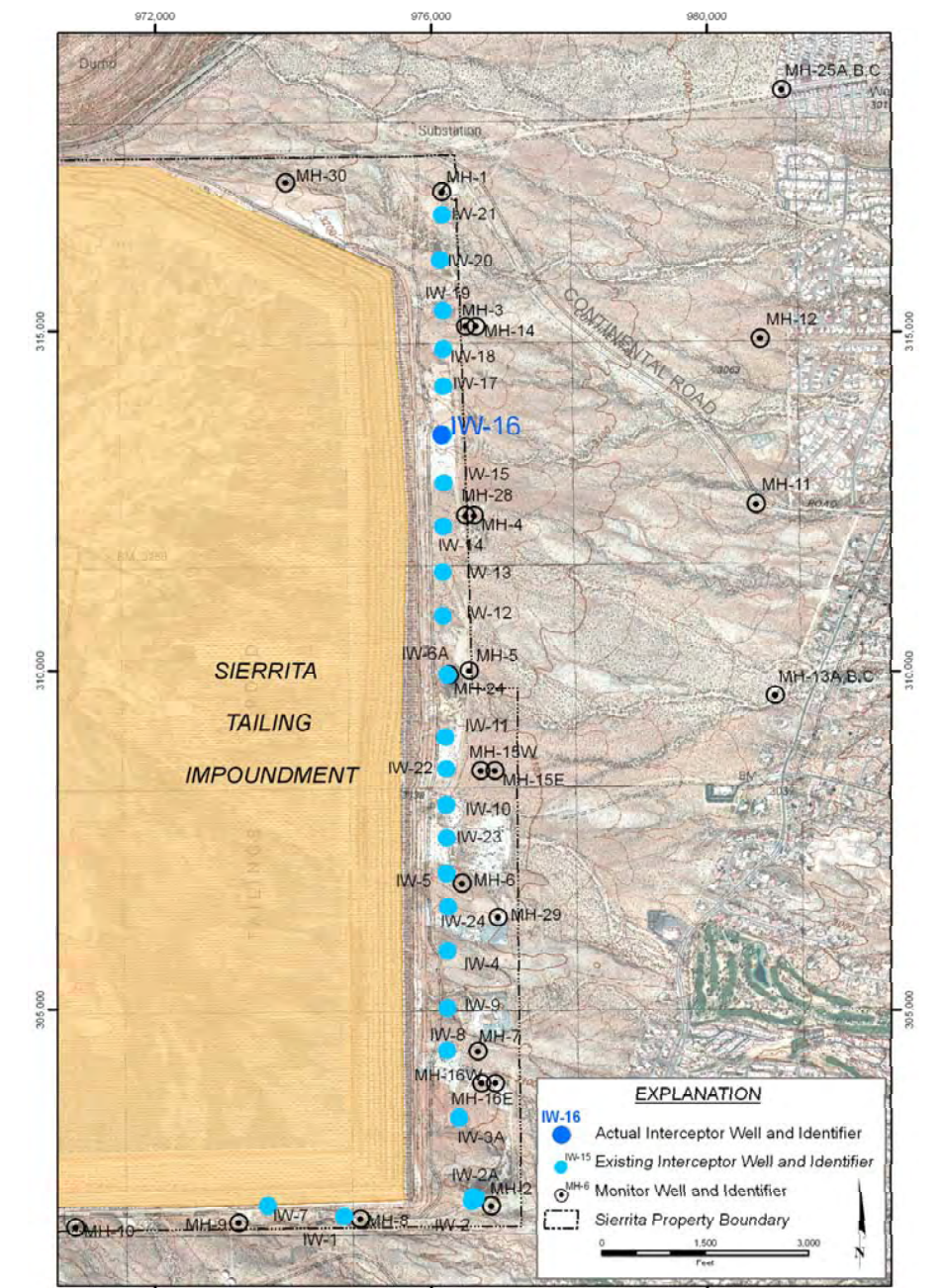
EXPLANATION

- ▼ Nonpumping depth to water level using water level sounder
- ▽ Pumping depth to water level using water level sounder
- | Instantaneous pumping rate recorded by field personnel
- Periods of pump shut-down for maintenance
- Sulfate concentration
- ⊕ Bottom of well screen (feet below land surface)

Note: Record Analysis Started June 2003



WELL IW-16: YEAR 2003 THROUGH 2009 WATER LEVELS, PUMPING RATES, AND SULFATE CONCENTRATIONS, SIERRITA INTERCEPTOR WELLFIELD, PIMA COUNTY, ARIZONA

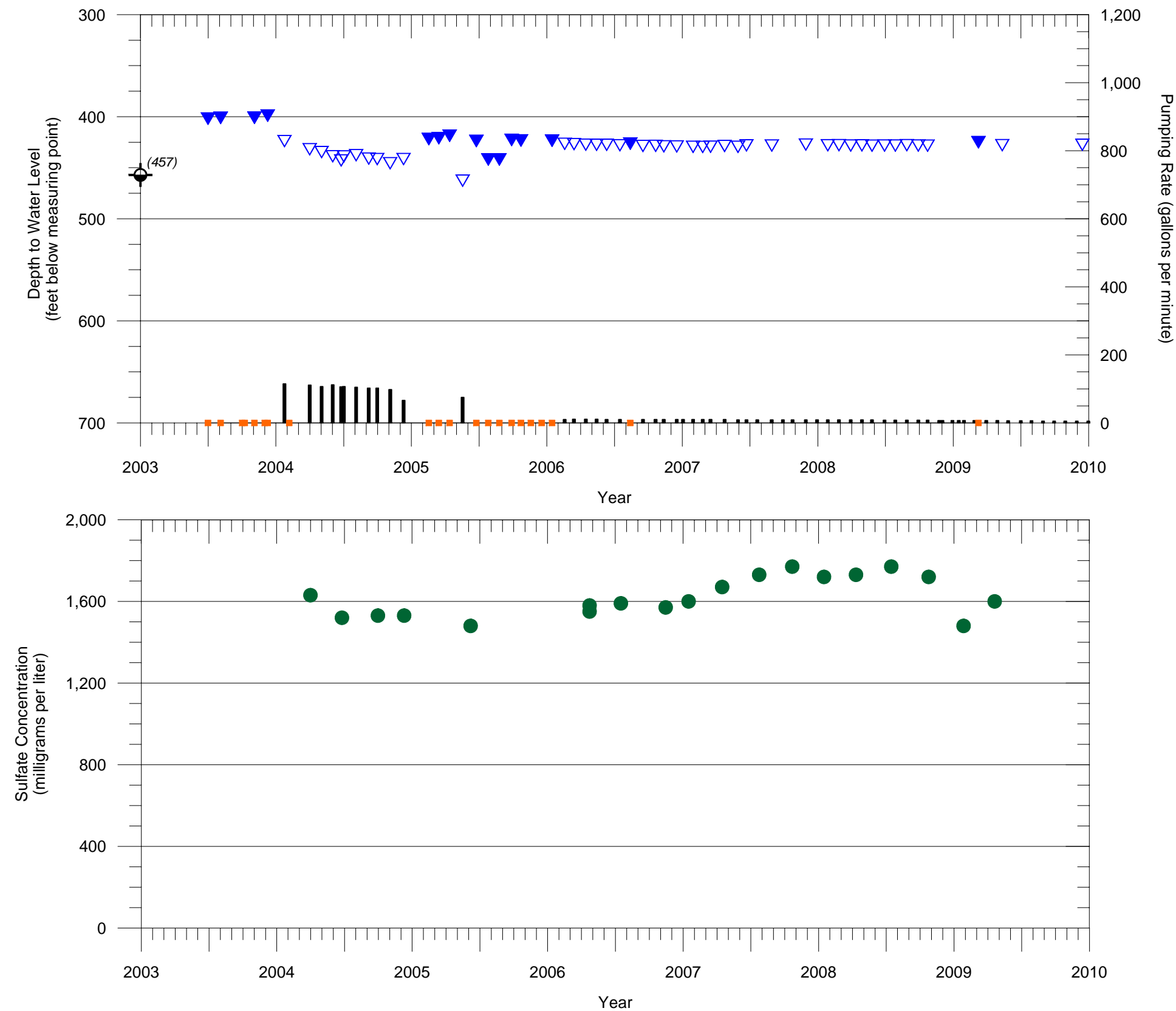


EXPLANATION

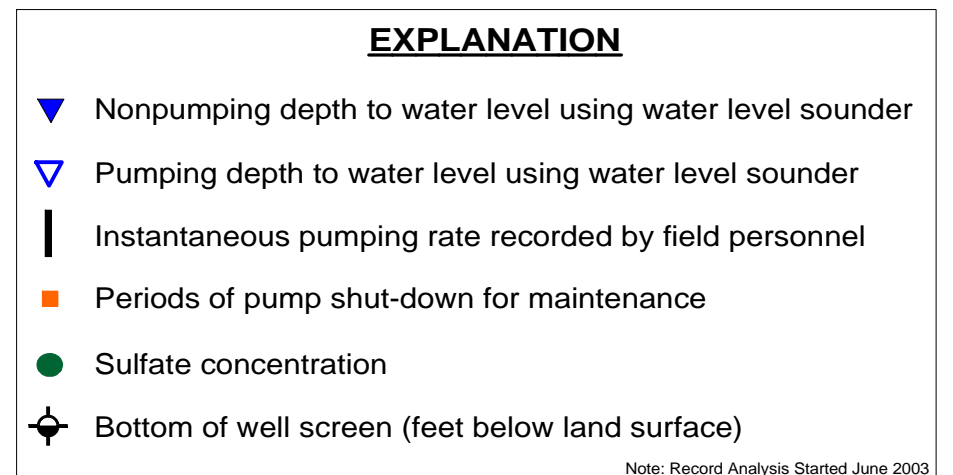
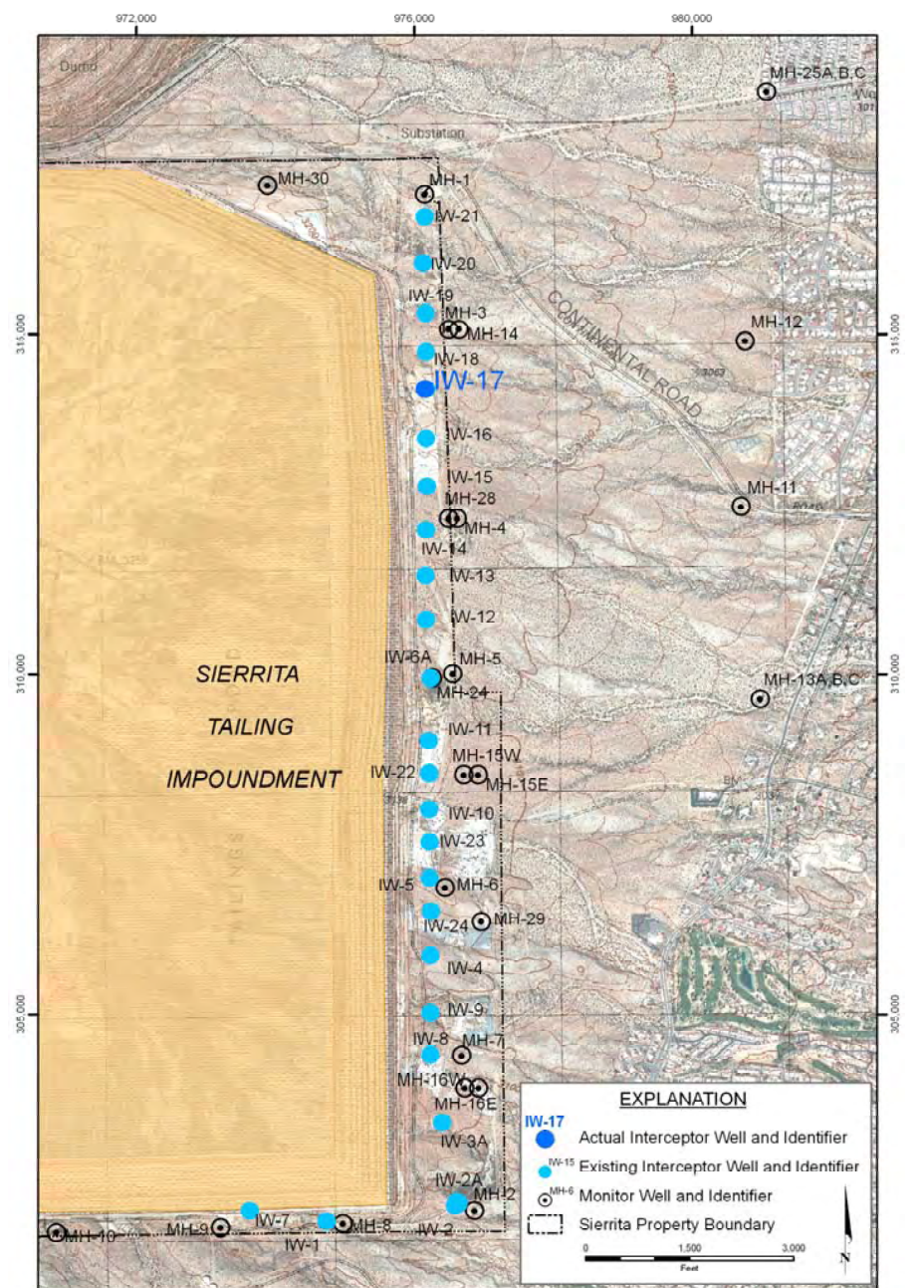
- ▼ Nonpumping depth to water level using water level sounder
- ▽ Pumping depth to water level using water level sounder
- | Instantaneous pumping rate recorded by field personnel
- Periods of pump shut-down for maintenance
- Sulfate concentration
- ⊕ Bottom of well screen (feet below land surface)

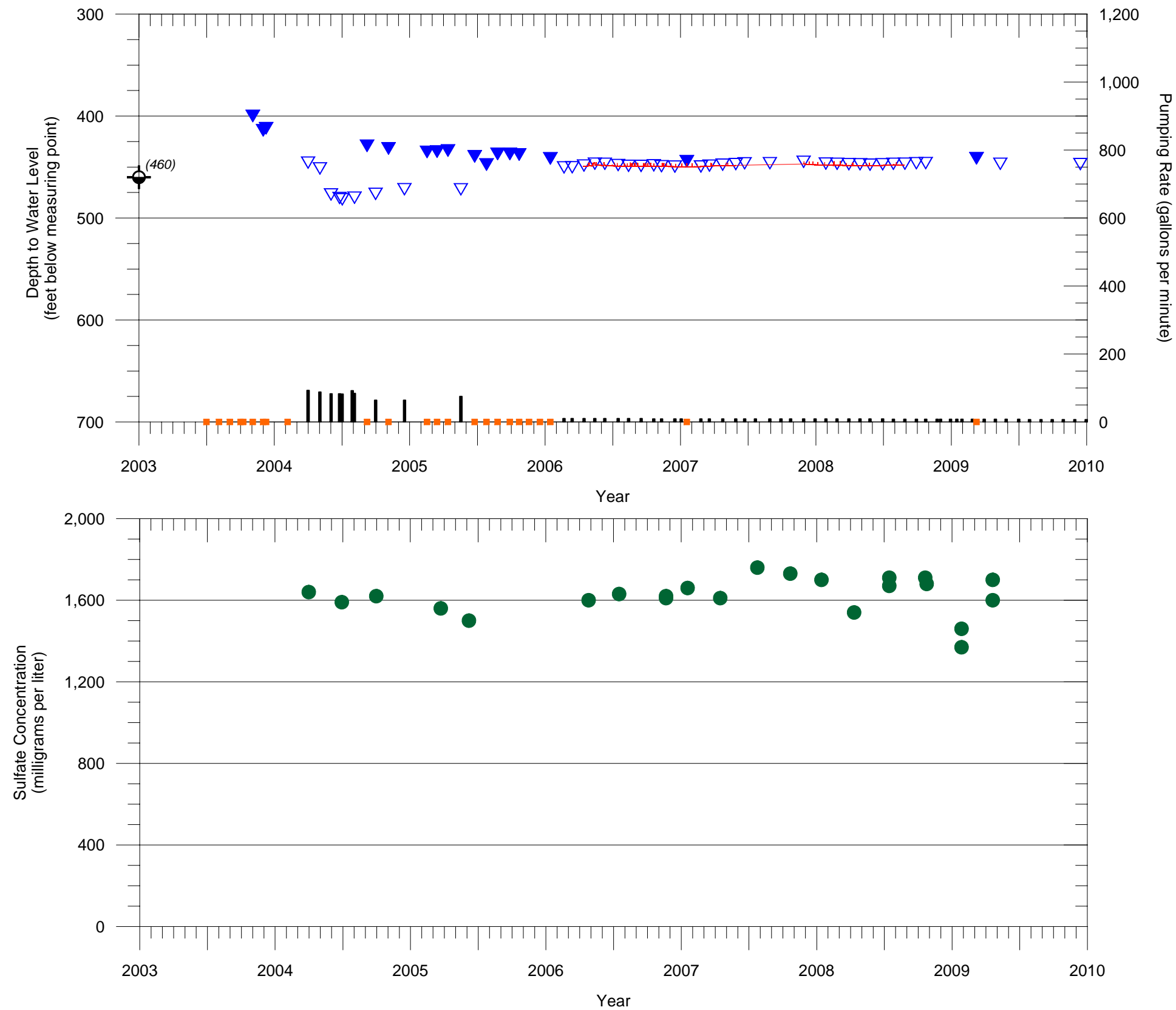
Note: Record Analysis Started June 2003

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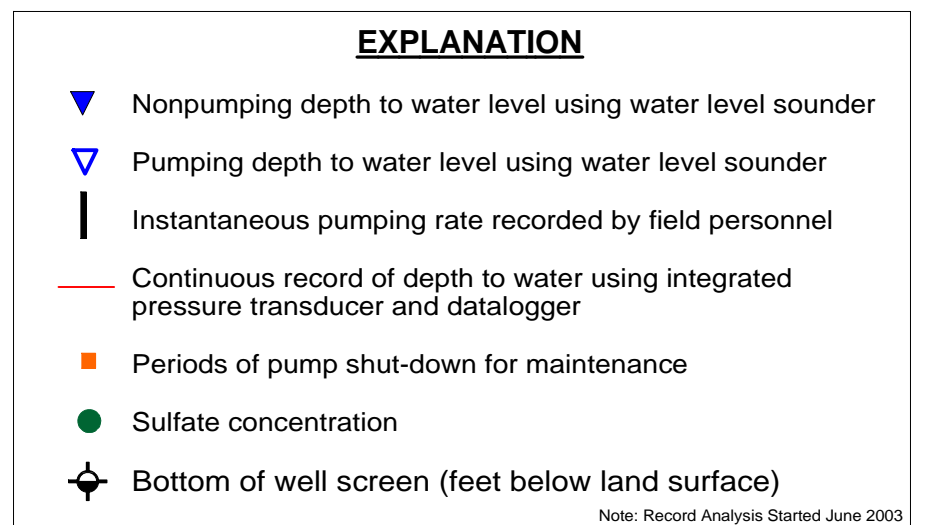
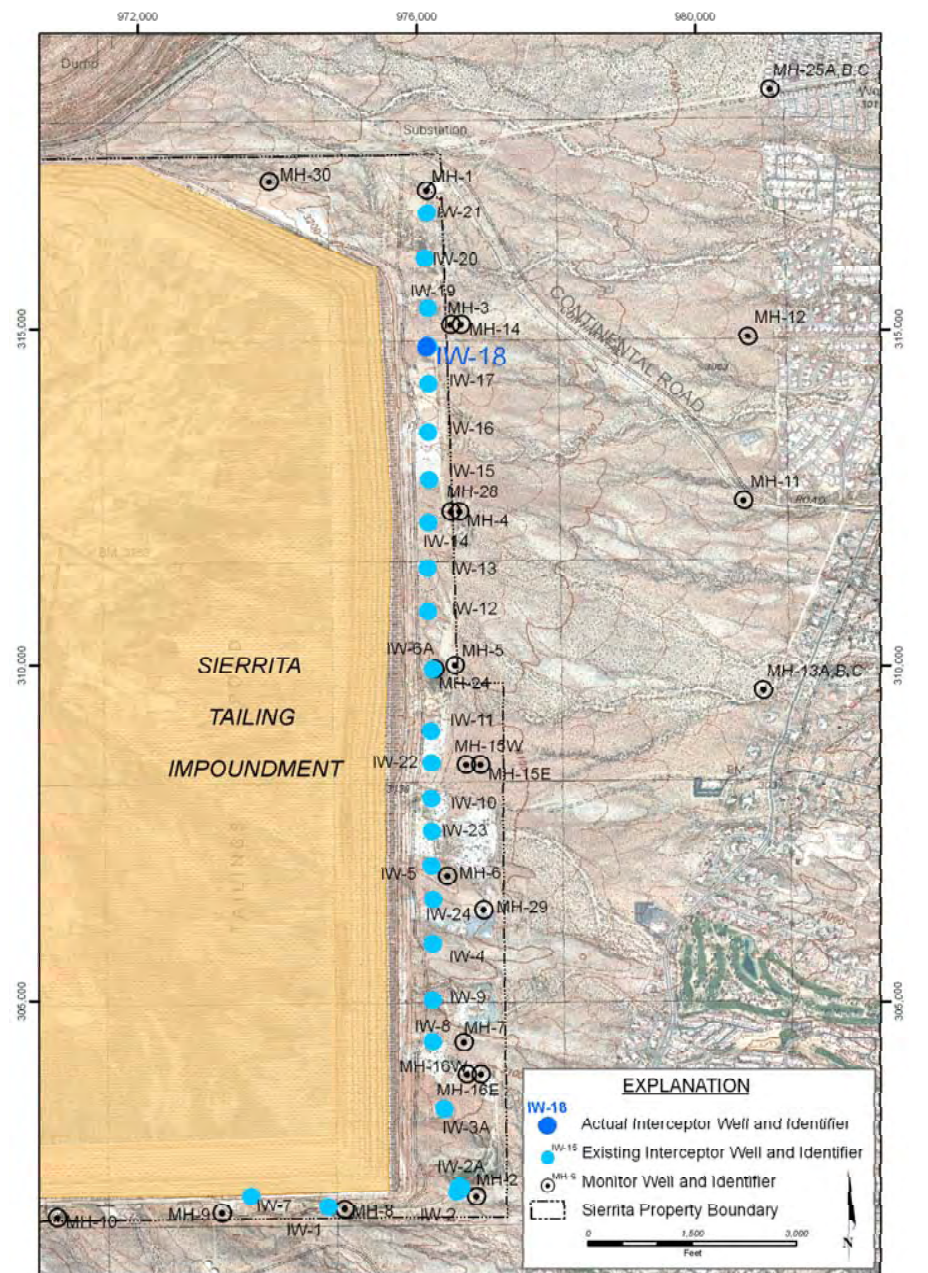


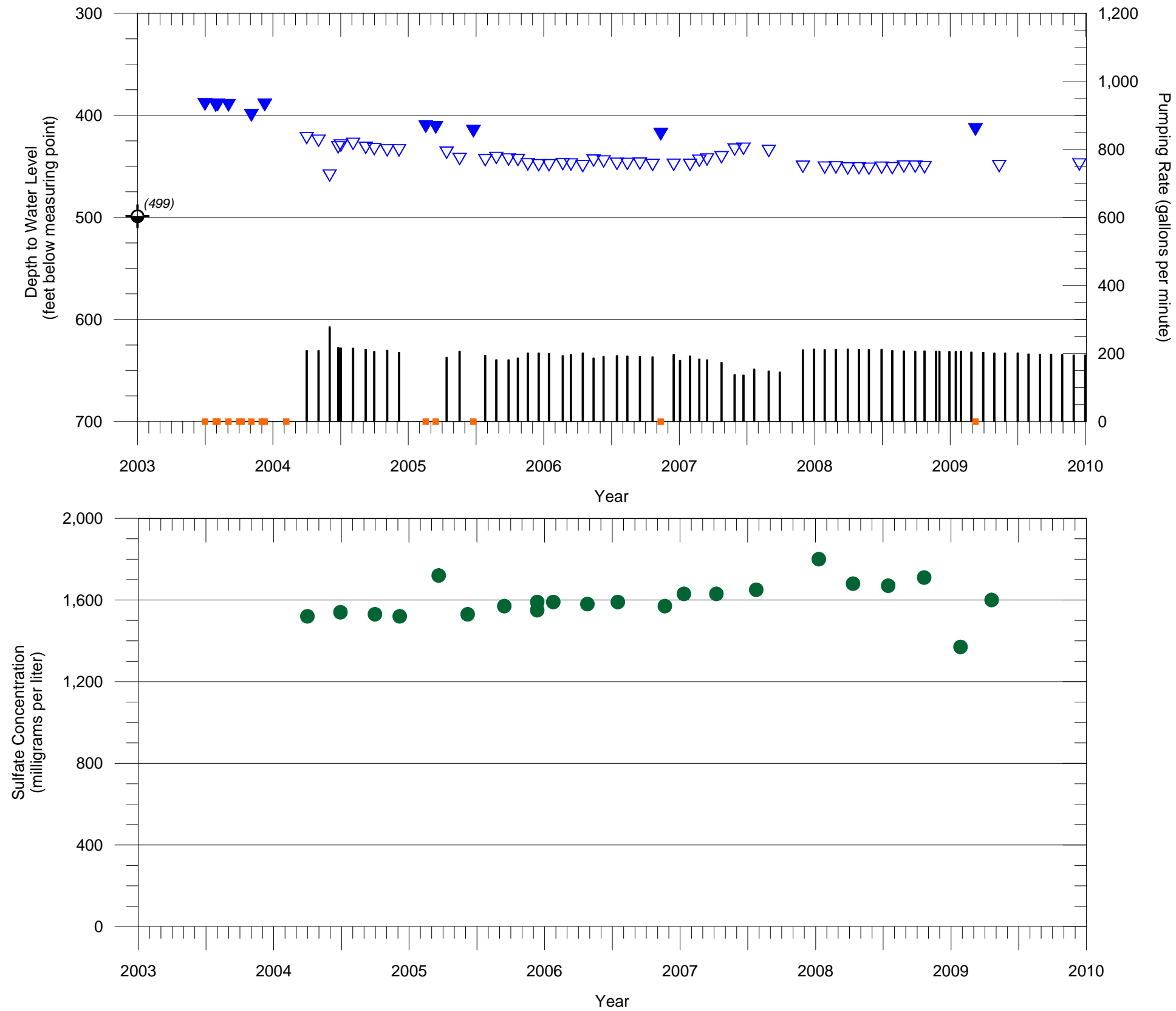
WELL IW-17: YEAR 2003 THROUGH 2009 WATER LEVELS, PUMPING RATES, AND SULFATE CONCENTRATIONS, SIERRITA INTERCEPTOR WELLFIELD, PIMA COUNTY, ARIZONA



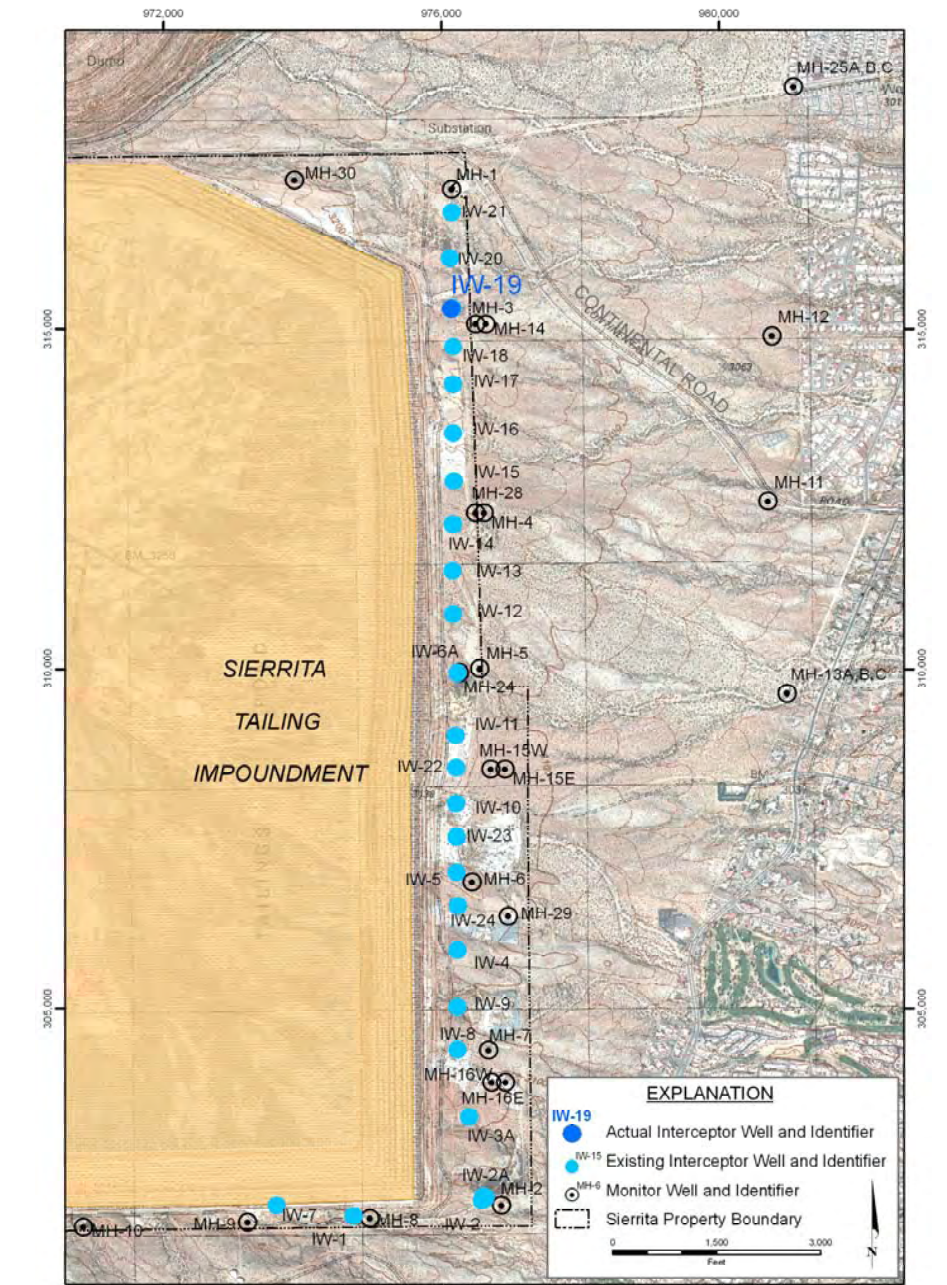


WELL IW-18: YEAR 2003 THROUGH 2009 WATER LEVELS, PUMPING RATES, AND SULFATE CONCENTRATIONS, SIERRITA INTERCEPTOR WELLFIELD, PIMA COUNTY, ARIZONA





WELL IW-19: YEAR 2003 THROUGH 2009 WATER LEVELS, PUMPING RATES, AND SULFATE CONCENTRATIONS, SIERRITA INTERCEPTOR WELLFIELD, PIMA COUNTY, ARIZONA

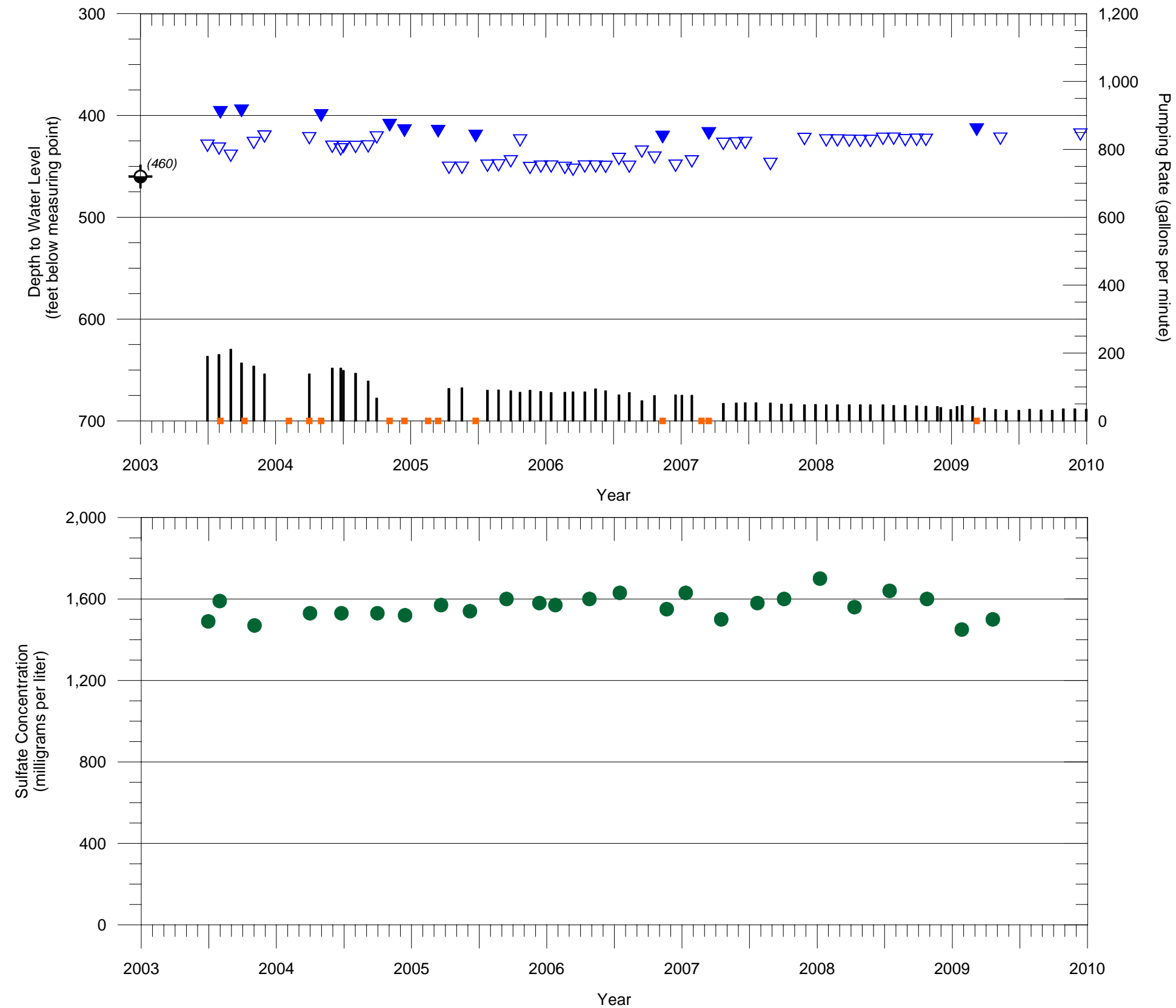


EXPLANATION

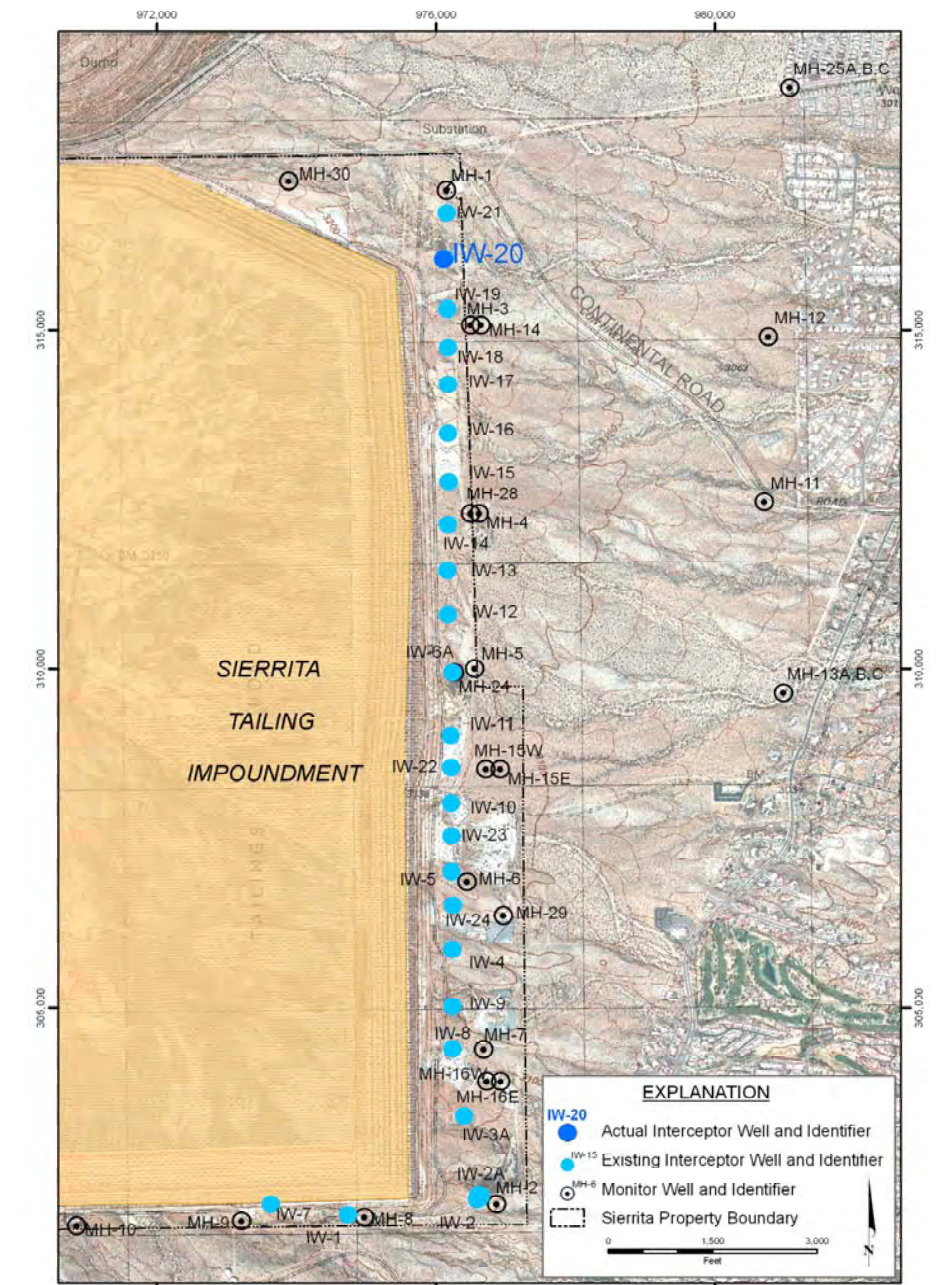
- ▼ Nonpumping depth to water level using water level sounder
- ▽ Pumping depth to water level using water level sounder
- | Instantaneous pumping rate recorded by field personnel
- Periods of pump shut-down for maintenance
- Sulfate concentration
- ⊕ Bottom of well screen (feet below land surface)

Note: Record Analysis Started June 2003

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WELL IW-20: YEAR 2003 THROUGH 2009 WATER LEVELS, PUMPING RATES, AND SULFATE CONCENTRATIONS, SIERRITA INTERCEPTOR WELLFIELD, PIMA COUNTY, ARIZONA

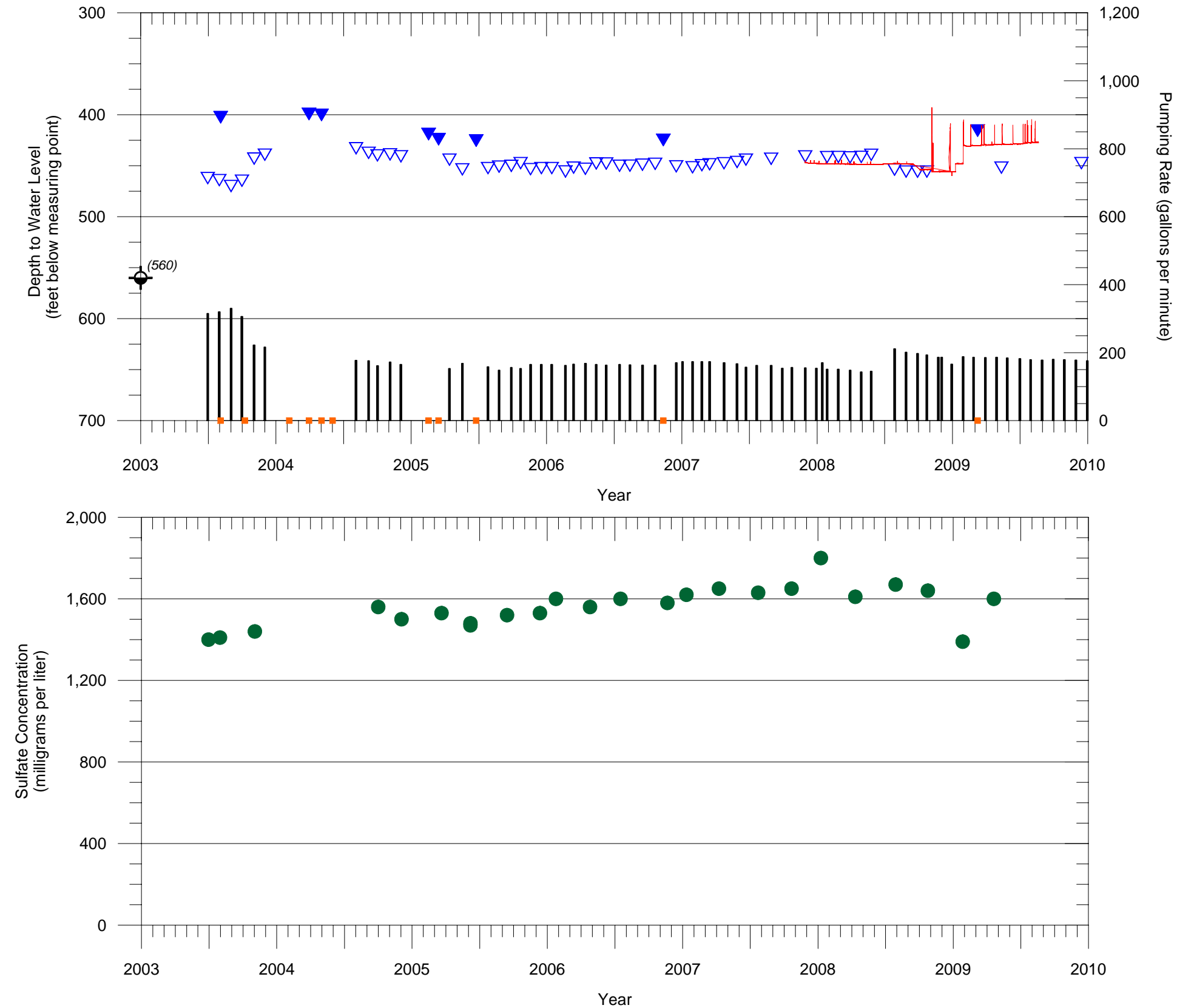


EXPLANATION

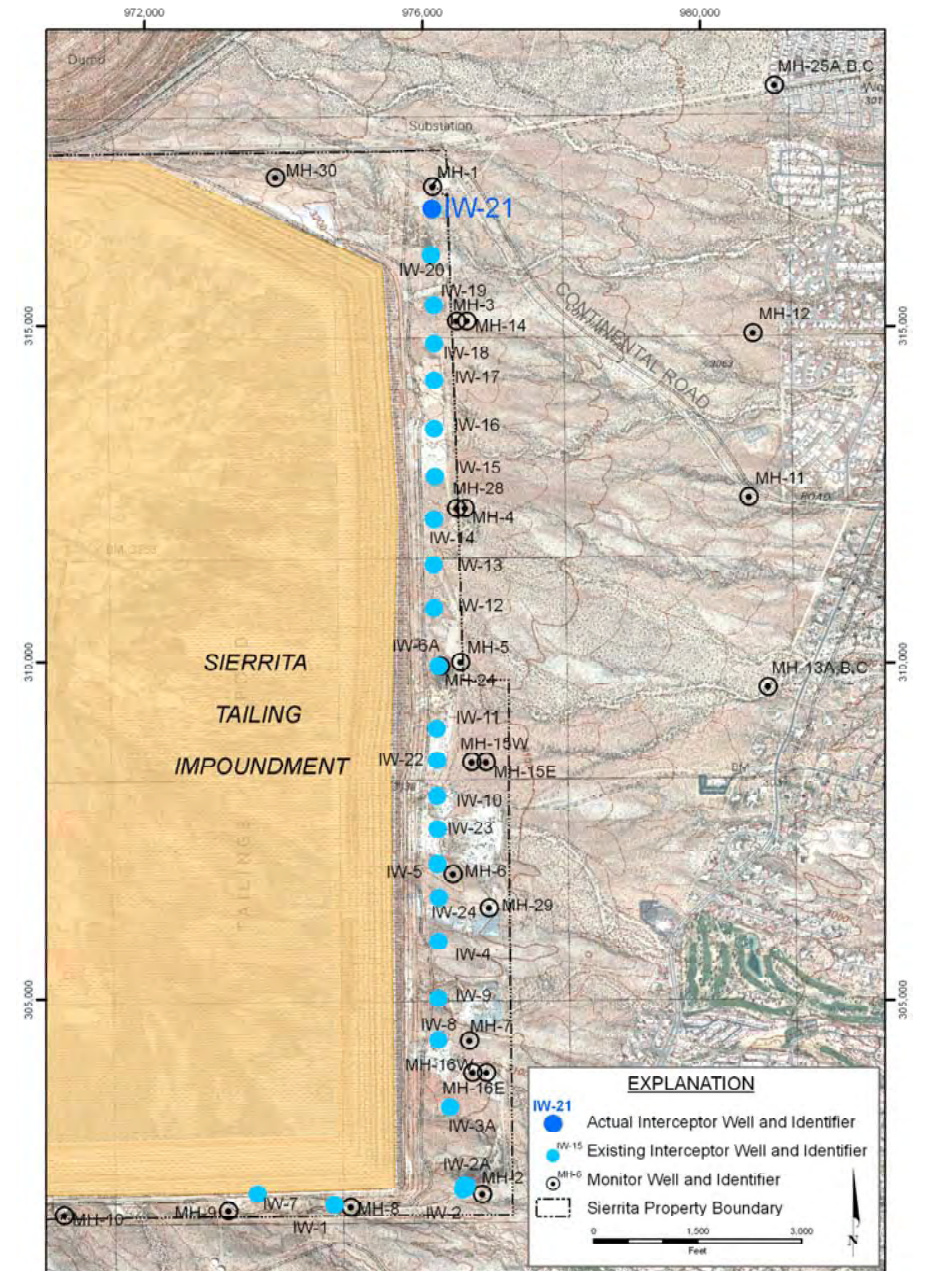
- ▼ Nonpumping depth to water level using water level sounder
- ▽ Pumping depth to water level using water level sounder
- | Instantaneous pumping rate recorded by field personnel
- Periods of pump shut-down for maintenance
- Sulfate concentration
- ⊕ Bottom of well screen (feet below land surface)

Note: Record Analysis Started June 2003

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WELL IW-21: YEAR 2003 THROUGH 2009 WATER LEVELS, PUMPING RATES, AND SULFATE CONCENTRATIONS, SIERRITA INTERCEPTOR WELLFIELD, PIMA COUNTY, ARIZONA



EXPLANATION

- ▼ Nonpumping depth to water level using water level sounder
- ▽ Pumping depth to water level using water level sounder
- | Instantaneous pumping rate recorded by field personnel
- Continuous record of depth to water using integrated pressure transducer and datalogger
- Periods of pump shut-down for maintenance
- Sulfate concentration
- ⊗ Bottom of well screen (feet below land surface)

Note: Record Analysis Started June 2003

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