



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

March 28, 2022

**Via Email**

Ashley Devore  
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  
Reporting Year 2021 Mitigation Facilities Monitoring Report**

Dear Ms. Devore:

In accordance with Section 5.1.1 of the Mitigation Plan<sup>1</sup>, Freeport-McMoRan Sierrita Inc. (Sierrita) submits the enclosed *Mitigation Facilities Monitoring Report* for reporting year 2021.

Prior to March 2015, Sierrita has submitted this report annually under the title of *Well Field Operations Monitoring Report*, which Sierrita agreed to submit in the Mitigation Plan approval deferral letter sent to ADEQ on March 18, 2009<sup>2</sup>.

Please do not hesitate to contact me at (520) 393-2014 if you have any questions regarding this submittal.

Sincerely,

William Hart  
Sr. Environmental Scientist

WH:  
20220328\_001

xc: Dave Gosen, Freeport-McMoRan Inc.  
Jim Norris, Clear Creek Associates

<sup>1</sup> Clear Creek Associates. 2013. Mitigation Plan for Sulfate with Respect to Drinking Water Supplies in the Vicinity of the Freeport-McMoRan Sierrita Inc. Tailing Impoundment. Mitigation Order on Consent Docket No. P-50-06. December 18, 2013.

<sup>2</sup> Correspondence from Chad D. Fretz, Sierrita, to Cynthia S. Campbell, ADEQ Water Quality Compliance Section. Re: Mitigation Order on Consent Docket No. P-50-06 - Mitigation Plan. March 18, 2010.

## TECHNICAL MEMORANDUM REPORT



TO: Mr. William Hart, R.G.  
Senior Environmental Scientist  
Freeport--McMoRan Sierrita Inc.  
6200 West Duval Mine Road  
Post Office Box 527  
Green Valley, AZ 85622-0527

FROM: BasinWells Associates, PLLC

PREPARED BY: Buck Schmidt, Principal Hydrologist  
BasinWells Associates, PLLC

REVIEWED BY: Martin J. Rex, R.G.,  
BasinWells Associates, PLLC

DATE: March 23, 2022

PROJECT NO.: 20-006

SUBJECT: 2021 Freeport – McMoran-Sierrita Inc. - Mitigation Facilities Monitoring Report.

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### 1.0 INTRODUCTION

This Mitigation Facilities Monitoring Report documents groundwater pumping for the Freeport-McMoRan Sierrita Inc. (Sierrita) Sulfate Mitigation Action Well Field (Well Field) under the *Mitigation Plan for Sulfate with Respect to Drinking Water Supplies in the Vicinity of the Freeport-McMoran Sierrita Inc. Tailing Impoundment, Mitigation Order on Consent, Docket No. P-50-06* (Clear Creek Associates PLC, 2013). This report describes wellfield and conveyance operational conditions for calendar year 2021 and consists of data for pumping system availability, well pumping rates, and total system pumping. The actual system pumping is compared to design specifications to assess the mitigation facilities with respect to their mechanical capacity to pump and convey the required volumes of water.

The Well Field consists of two major parts: the Interceptor Well Field and the Mitigation Well Field. The Interceptor Well Field currently consists of 26 active interceptor wells (IWs). The Mitigation Well Field consists of four plume stabilization (PS) wells, four mass capture (MC) wells, and six focused feasibility study (FFS) wells. The PS, MC, and FFS wells were installed between 2011 and 2013 with full operation occurring in early 2014. The locations of the wells of the Well Field are shown on Figure 1. Table 1

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tabulates well information including cadastral legal locations; performance and target yield rates; well construction details; completion date and well age.



Figure 1. Sierrita Sulfate Mitigation Action Well Field

**BasinWells Associates PLLC**



**TABLE 1. SIERRITA SULFATE MITIGATION ACTION WELL FIELD CONSTRUCTION INFORMATION**

Well	Cadastral Location	ADWR Reg. No. (55-)	2021-2025 Performance Goal Pumping Rates (gpm)	Target Pumping Rates (gpm)	Well Depth (ft)	Well Dia. (in.)	Borehole Diameter (in.)	Casing Material	Upper Screen Depth (ft bls)	Lower Screen Depth (ft bls)	Pump Gallery?/Interval (ft bls)	Current Pump Setting (ft bls)	Filter Pack Material	Basinfill Alluvium Base Depth (ft bls)	Drill Year	Well Age
IW-1	D-18-13 29DCD	623129	250	250	855	14		STEEL	234	843	No	480	GRAVEL	760	1978	43.6
IW-2A	D-18-13 28CCC	216464	300	300	1051	14	20	STEEL	350	1031	600-640	620	GRAVEL	1020	2008	14.0
IW-3A	D-18-13 28CBC	201732	500	500	1052	14	20	STEEL	400	1030	No	540	GRAVEL	820	2004	18.2
IW-8	D-18-13 28BCC	508236	350	350	783	14	20	STEEL	382	783	No	540	GRAVEL	759	1984	37.6
IW-9	D-18-13 28BCC	508238	200	200	853	14	20	STEEL	412	853	No	605	GRAVEL	740	1984	37.6
IW-4	D-18-13 28BCB	623132	40	40	946	14		STEEL	312	946	No	600	GRAVEL	490	1978	43.6
IW-24	D-18-13 28BBB	200556	50	50	884	14	20	STEEL	348	860	No	602	GRAVEL	410	2004	18.2
IW-5A	D-18-13 28BBB	219131	40	40	900	14.5	20	STAINLESS STEEL	382	890	620-640	630	TACNA	436	2010	11.8
IW-23	D-18-13 21CCB	200555	120	120	964	14	20	STEEL	375	935	No	550	TACNA	420	2004	18.2
IW-10	D-18-13 21CBC	508237	250	250	831	14	20	STEEL	420	831	No	600	GRAVEL	730	1984	37.6
IW-22	D-18-13 21CBC	200554	300	300	590	14	20	STEEL	359	560	No	550	GRAVEL	550	2004	18.2
IW-11	D-18-13 21CBC	508235	325	325	605	14	20	STEEL	371	605	No	500	GRAVEL	563	1984	37.5
IW-6A	D-18-13 21BCC	545565	80	80	497	12	20	STEEL	356	456	No	460	GRAVEL	456	1994	27.3
IW-12	D-18-13 21BCB	545555	125	125	600	12	20	STEEL	358	560	No	560	GRAVEL	498	1994	27.3
IW-13	D-18-13 21BBC	545556	0	0	497	12	20	STEEL	355	456	No	460	GRAVEL	452	1994	27.3
IW-14	D-18-13 21BBB	545557	60	60	549	12	20	STEEL	357	508	No	520	GRAVEL	509	1994	27.2
IW-15	D-18-13 16CCC	545558	40	40	547	12	20	STEEL	357	506	No	505	GRAVEL	507	1995	27.2
IW-19	D-18-13 16BCC	545562	150	150	540	12	20	STEEL	379	499	No	522	GRAVEL	498	1995	27.1
IW-20	D-18-13 16BCB	545563	0	0	502	12	20	STEEL	380	460	No	460	GRAVEL	470	1995	27.1
IW-21	D-18-13 16BBC	545564	100	100	601	12	20	STEEL	400	560	No	520	GRAVEL	520	1995	27.1
IW-25	D-18-13 28CBD	219596	400	400	782	16	24	STAINLESS STEEL	359	720	No	732	SILICA SAND	475	2010	11.3
IW-26	D-18-13 28BCD	219143	350	350	780	16	24	STAINLESS STEEL	340	720	No	732	SILICA SAND	475	2010	11.3
IW-27	D-18-13 28BBD	219136	100	100	720	14	22	STAINLESS STEEL	380	660	No	672	SILICA SAND	465	2010	11.3
IW-28	D-18-13 21CCA	219137	400	400	760	16	24	STAINLESS STEEL	380	700	No	712	SILICA SAND	680	2010	11.3
IW-29	D-18-13 21CDA	222865	-	-	770	16.62	24	STAINLESS STEEL	440	730	No		SILICA SAND	730	2014	7.9
PS-1	D-18-13 03BBA	220861	700	700	1020	16.62	24	HSLA	560	980	640-680	890	SILICA SAND	914	2011	10.2
PS-2	D-17-13 34CDC	220862	800	800	1130	16.62	24	HSLA	560	1090	640-680	870	SILICA SAND	1090	2012	9.8
PS-3	D-17-13 34CDD	220863	800	800	1200	16.62	24	HSLA	520	1160	600-640		SILICA SAND	1160	2012	9.9
PS-4	D-18-13 03BCA	220864	1000	1000	1060	16.62	24	HSLA	560	1020	640-680	893	SILICA SAND	1020	2012	9.7
MC-1	D-18-13 16DAA	221660	0	900	915	16.62	24	HSLA	479	875	599-639	824	SILICA SAND	875	2013	8.8
MC-2	D-18-13 10CCB	221761	0	700	980	16.62	24	HSLA	479	940	600-640	855	SILICA SAND	940	2013	9.0
MC-3	D-18-13 09AAA	221661	750	600	870	16.62	24	HSLA	530	810	No	830	SILICA SAND	810	2012	9.4
MC-4	D-18-13 04DDC	220842	600	600	830	16.62	24	HSLA	560	770	No	810	SILICA SAND	770	2012	9.6
FFS-1	D-18-13 21ABC	221662	338	800	790	16.62	24	HSLA	448	729	No	753	SILICA SAND	730	2013	9.0
FFS-2	D-18-13 16DCA	221663	300	700	750	16.62	24	HSLA	470	690	No	703	SILICA SAND	680	2013	8.9
FFS-3	D-18-13 16ACD	221664	225	400	800	16.62	24	HSLA	510	740	No	762	SILICA SAND	736	2013	9.1
FFS-4	D-18-13 16ABA	221665	150	200	871	16.62	24	HSLA	540	830	640-680	788	SILICA SAND	830	2012	9.2
FFS-5	D-18-13 09DBA	221666	225	1000	800	16.62	24	HSLA	569	739	No	775	SILICA SAND	740	2012	9.3
FFS-6	D-18-13 09ACA	221667	225	600	830	16.62	24	HSLA	528	769	No	750	SILICA SAND	770	2012	9.3

Notes: ft bls = feet below land surface; in. = inches; HSLA = High Strength Low Alloy Steel



**2.0 WELL FIELD OPERATIONS**

Total groundwater withdrawals in 2021 of the Well Field are tabulated on Table 2. The well field withdrew approximately 15,801 acre-feet (AF) of groundwater in 2021 (average pumping rate of 9,797gpm).

TABLE 2. 2021 SIERRITA SULFATE MITIGATION ACTION WELL FIELD TOTAL GROUNDWATER WITHDRAWAL	
<b>Total Gallons Pumped:</b>	<b>5,149,228,603</b>
<b>Total Acre-Feet Pumped:</b>	<b>15,801</b>

The Well Field, in total, produced approximately 92.0 percent of the performance goals with respect to potential total groundwater withdrawal considering the 2021-2025 performance goal rates (Table 1) at a 100% duty cycle (total pumping rate of 10,643 gpm or 17,166 AF).

The Well Field, in total, produced approximately 68.4 percent of the target goals with respect to potential total groundwater withdrawal considering the target goal rates (Table 1) at a 100% duty cycle (total pumping rate of 14,330 gpm or 23,113 AF).

Well performance in 2021 on a well-by-well basis is tabulated in Attachment A. Run time percentages of the Interceptor Well Field wells, if active in 2021, ranged from 30 to 93 percent when active. Run time percentages of the Mitigation Well Field wells ranged from 6 to 96 percent with the exception of FFS-6 which was offline the entire year due to a well casing issue. IW-5A, IW-6A, IW-13, IW-14, IW-15, and IW-20 have zero runtime percentages in 2021 due to low flow conditions and are not considered for re-activation and will be used as monitor wells. (See Table 1. Both IW-13 and IW-20 have target and performance goals of 0 gpm.) IW-24, IW-23, and IW-21 have zero to minimum runtime percentages in 2021 due to pump equipment issues.

Shutdown of wells was required due the following:

- As needed well and transmission line maintenance activities,
- Perform non-pumping monitoring activities,
- Exceedance of storage capacity of the Mill Reservoir.

Well field data plots including a well construction diagram; static and pumping water levels; yield rates; calculated specific capacity; sulfate concentrations; static saturated thickness of basin fill alluvium; and annotated descriptions of maintenance activities from 2013 to 2021 are included in Attachment B.

**3.0 SUMMARY OF WELL MAINTENANCE ACTIVITIES**

Summary of well and pump maintenance activities performed in 2021 are tabulated on Table 3 below. All maintenance activities were performed following collection and evaluation of maintenance monitoring parameters as described in the *Sulfate Mitigation Action Well Field (Well Field) Operation and Maintenance Plan* (BasinWells, 2013).



<b>TABLE 3. 2021 SIERRITA MITIGATION ACTION WELL FIELD SUMMARY OF WELL AND PUMP MAINTENANCE ACTIVITIES</b>		
<b>Well</b>	<b>Approx. Months Off Line for Maintenance and/or Evaluation</b>	<b>Maintenance Activities</b>
IW-3A	Oct-Dec	<b>Well casing to be repaired</b>
IW-8	May-Jun	Down for repair and rehab
IW-4	Jan-Jul	Well cleaned and new pump
IW-24	Jan-Dec	<b>Well rehabilitated and new pump to be installed</b>
IW-5A	Jan-Dec	Well out of service; monitor well
IW-23	Jan-Dec	<b>Well cleaned and new pump to be installed</b>
IW-11	Aug-Sep	Well cleaned and new pump
IW-6A	Jan-Dec	Well out of service; monitor well
IW-12	Jan	Well cleaned and new pump
IW-13	Jan-Dec	Well out of service; monitor well
IW-14	Jan-Dec	Well out of service; monitor well
IW-15	Jan-Dec	Well out of service; monitor well
IW-20	Jan-Dec	Well out of service; monitor well
IW-21	Jan-Dec	<b>Well cleaned and pump to be rebuilt</b>
IW-29	Jan-Feb	Well cleaned and pump rebuilt
PS-4	Jan-Feb	Well cleaned and new pump
MC-1	Mar & May	Well cleaned and pump rebuilt
FFS-3	Feb-Mar, Oct-Dec	<b>Down for filter pack intrusion, well cleaned and new pump; pump under evaluation</b>
FFS-4	Feb-Apr, Nov-Dec	<b>Well cleaned and new pump; pump under evaluation</b>
FFS-5	Aug-Sep	Down for filter pack intrusion and new pump
FFS-6	Jan-Feb	Well rehabilitated and new pump

**4.0 FUTURE MAINTENANCE ACTIVITIES**

Future maintenance activities will continue to adhere to activities and frequencies as described in *Sulfate Mitigation Action Well Field (Well Field) Operation and Maintenance Plan* (BasinWells, 2013). All maintenance activities to be performed following collection and evaluation of maintenance monitoring parameters.

Well casing of IW-3A will be repaired in 2022. Pump equipment in IW-24, IW-23, and IW-21 will have pump equipment rebuilt or replaced in 2022. Pump equipment in FFS-3 and FFS-4 are under evaluation.



## 5.0 REFERENCES

BasinWells Associates, PLLC, *Freeport-McMoran Sierrita Inc., Sulfate Mitigation Action Well Field (Well Field) Operation and Maintenance Plan*, December 31, 2013.

Clear Creek Associates, PLC, *Mitigation Plan for Sulfate with Respect to Drinking Water Supplies in the Vicinity of the Freeport-McMoran Sierrita Inc. Tailing Impoundment, Mitigation Order on Consent, Docket No. P-50-06*, December 18, 2013.

**BasinWells Associates PLLC**



ATTACHMENT A

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**SIERRITA SULFATE MITIGATION ACTION WELL FIELD PERFORMANCE SUMMARY**



**ATTACHMENT A.  
SUMMARY OF 2021 INTERCEPTOR WELL PERFORMANCE  
FREEPORT MCMORAN SIERRITA, INC.**

Well	Month	Gallons Pumped	Estimated Hours	Yield (Acrefeet)	Approx. Yield Rate (gpm)
IW-1	Jan	12,725,322	744	39.1	285
	Feb	11,108,025	650	34.1	285
	Mar	12,631,827	739	38.8	285
	Apr	12,189,091	713	37.4	285
	May	12,449,852	728	38.2	285
	Jun	11,433,321	669	35.1	285
	Jul	11,189,102	654	34.3	285
	Aug	9,282,150	543	28.5	285
	Sep	11,685,314	683	35.9	285
	Oct	8,673,168	507	26.6	285
	Nov	11,639,353	681	35.7	285
	Dec	11,800,208	690	36.2	285

IW-1 Total Gallons Pumped:	136,806,733
IW-1 Total Acre-Feet Pumped:	420
IW-1 Average Yield Rate (gpm):	285
IW-1 % Run Time:	91.3%

Well	Month	Gallons Pumped	Estimated Hours	Yield (Acrefeet)	Approx. Yield Rate (gpm)
IW-2A	Jan	7,448,020	743	22.9	167
	Feb	6,521,672	651	20.0	167
	Mar	6,763,154	675	20.8	167
	Apr	6,436,771	642	19.8	167
	May	6,558,181	655	20.1	167
	Jun	6,017,637	601	18.5	167
	Jul	5,906,973	590	18.1	167
	Aug	4,846,940	484	14.9	167
	Sep	6,121,429	611	18.8	167
	Oct	4,761,363	475	14.6	167
	Nov	6,520,407	651	20.0	167
	Dec	6,249,473	624	19.2	167

IW-2A Total Gallons Pumped:	74,152,020
IW-2A Total Acre-Feet Pumped:	228
IW-2A Average Yield Rate (gpm):	167
IW-2A % Run Time:	84.5%

Well	Month	Gallons Pumped	Estimated Hours	Yield (Acrefeet)	Approx. Yield Rate (gpm)*
IW-3A	Jan	0	0	0.0	
	Feb	5,544,196	173	17.0	535
	Mar	16,326,029	509	50.1	535
	Apr	8,901,892	277	27.3	535
	May	23,951,422	746	73.5	535
	Jun	19,972,577	622	61.3	535
	Jul	21,755,790	678	66.8	535
	Aug	17,955,556	559	55.1	535
	Sep	15,148,852	472	46.5	535
	Oct	2,023	0	0.0	535
	Nov	0	0	0.0	
	Dec	0	0	0.0	

IW-3A Total Gallons Pumped:	129,558,337
IW-3A Total Acre-Feet Pumped:	398
IW-3A Average Yield Rate (gpm):	535
IW-3A % Run Time:	46.1%

Well	Month	Gallons Pumped	Estimated Hours	Yield (Acrefeet)	Approx. Yield Rate (gpm)
IW-8	Jan	17,616,054	743	54.1	395
	Feb	15,441,387	652	47.4	395
	Mar	16,424,118	693	50.4	395
	Apr	11,817,207	499	36.3	395
	May	0	0	0.0	
	Jun	0	0	0.0	
	Jul	9,360,969	395	28.7	395
	Aug	5,619,295	237	17.2	395
	Sep	8,496,666	359	26.1	395
	Oct	7,144,971	301	21.9	395
	Nov	9,593,451	405	29.4	395
	Dec	9,798,358	413	30.1	395

IW-8 Total Gallons Pumped:	111,312,475
IW-8 Total Acre-Feet Pumped:	342
IW-8 Average Yield Rate (gpm):	395
IW-8 % Run Time:	53.6%

Well	Month	Gallons Pumped	Estimated Hours	Yield (Acrefeet)	Approx. Yield Rate (gpm)
IW-9	Jan	7,770,416	744	23.8	174
	Feb	6,787,565	650	20.8	174
	Mar	7,413,596	710	22.7	174
	Apr	7,135,769	684	21.9	174
	May	7,650,834	733	23.5	174
	Jun	6,103,176	585	18.7	174
	Jul	6,552,718	628	20.1	174
	Aug	5,130,322	491	15.7	174
	Sep	6,259,584	600	19.2	174
	Oct	4,805,632	460	14.7	174
	Nov	6,081,249	582	18.7	174
	Dec	6,002,478	575	18.4	174

IW-9 Total Gallons Pumped:	77,693,338
IW-9 Total Acre-Feet Pumped:	238
IW-9 Average Yield Rate (gpm):	174
IW-9 % Run Time:	85.0%

Well	Month	Gallons Pumped	Estimated Hours	Yield (Acrefeet)	Approx. Yield Rate (gpm)
IW-4	Jan	0	0	0.0	
	Feb	0	0	0.0	
	Mar	0	0	0.0	
	Apr	0	0	0.0	
	May	0	0	0.0	
	Jun	0	0	0.0	
	Jul	0	0	0.0	
	Aug	2,511,842	320	7.7	131
	Sep	3,552,302	452	10.9	131
	Oct	3,960,690	504	12.2	131
	Nov	4,884,729	621	15.0	131
	Dec	5,859,132	745	18.0	131

IW-4 Total Gallons Pumped:	20,768,696
IW-4 Total Acre-Feet Pumped:	64
IW-4 Average Yield Rate (gpm):	131
IW-4 % Run Time:	30.2%

Well	Month	Gallons Pumped	Estimated Hours	Yield (Acrefeet)	Approx. Yield Rate (gpm)
IW-24	Jan	0	0	0.0	0
	Feb	0	0	0.0	0
	Mar	0	0	0.0	0
	Apr	0	0	0.0	0
	May	0	0	0.0	0
	Jun	0	0	0.0	0
	Jul	0	0	0.0	0
	Aug	0	0	0.0	0
	Sep	0	0	0.0	0
	Oct	0	0	0.0	0
	Nov	0	0	0.0	0
	Dec	0	0	0.0	0

IW-24 Total Gallons Pumped:	0
IW-24 Total Acre-Feet Pumped:	0
IW-24 Average Yield Rate (gpm):	0
IW-24 % Run Time:	0.0%

Well	Month	Gallons Pumped	Estimated Hours	Yield (Acrefeet)	Approx. Yield Rate (gpm)
IW-5A	Jan	0	0	0.0	0
	Feb	0	0	0.0	0
	Mar	0	0	0.0	0
	Apr	0	0	0.0	0
	May	0	0	0.0	0
	Jun	0	0	0.0	0
	Jul	0	0	0.0	0
	Aug	0	0	0.0	0
	Sep	0	0	0.0	0
	Oct	0	0	0.0	0
	Nov	0	0	0.0	0
	Dec	0	0	0.0	0

IW-5A Total Gallons Pumped:	0
IW-5A Total Acre-Feet Pumped:	0
IW-5A Average Yield Rate (gpm):	0
IW-5A % Run Time:	0.0%



**ATTACHMENT A.  
SUMMARY OF 2021 INTERCEPTOR WELL PERFORMANCE  
FREEPORT MCMORAN SIERRITA, INC.**

Well	Month	Gallons Pumped	Estimated Hours	Yield (Acrefeet)	Approx. Yield Rate (gpm)
IW-23	Jan	0	0	0.0	0
	Feb	0	0	0.0	0
	Mar	0	0	0.0	0
	Apr	0	0	0.0	0
	May	0	0	0.0	0
	Jun	0	0	0.0	0
	Jul	0	0	0.0	0
	Aug	0	0	0.0	0
	Sep	0	0	0.0	0
	Oct	0	0	0.0	0
	Nov	0	0	0.0	0
	Dec	0	0	0.0	0

IW-23 Total Gallons Pumped:	19,501,392
IW-23 Total Acre-Feet Pumped:	60
IW-23 Average Yield Rate (gpm):	119
IW-23 % Run Time:	31.2%

Well	Month	Gallons Pumped	Estimated Hours	Yield (Acrefeet)	Approx. Yield Rate (gpm)
IW-10	Jan	7,450,397	463	22.9	268
	Feb	9,825,473	611	30.2	268
	Mar	11,785,417	733	36.2	268
	Apr	10,460,872	651	32.1	268
	May	10,755,502	669	33.0	268
	Jun	11,149,357	693	34.2	268
	Jul	10,768,650	670	33.0	268
	Aug	8,951,449	557	27.5	268
	Sep	11,143,810	693	34.2	268
	Oct	8,109,466	504	24.9	268
	Nov	11,060,467	688	33.9	268
	Dec	11,332,173	705	34.8	268

IW-10 Total Gallons Pumped:	122,799,093
IW-10 Total Acre-Feet Pumped:	377
IW-10 Average Yield Rate (gpm):	268
IW-10 % Run Time:	87.2%

Well	Month	Gallons Pumped	Estimated Hours	Yield (Acrefeet)	Approx. Yield Rate (gpm)
IW-22	Jan	13,726,428	745	42.1	307
	Feb	12,094,695	657	37.1	307
	Mar	12,578,050	683	38.6	307
	Apr	12,206,466	663	37.5	307
	May	12,567,541	682	38.6	307
	Jun	11,391,445	618	35.0	307
	Jul	11,486,147	624	35.2	307
	Aug	9,720,900	528	29.8	307
	Sep	11,055,530	600	33.9	307
	Oct	9,152,382	497	28.1	307
	Nov	8,263,753	449	25.4	307
	Dec	11,264,892	612	34.6	307

IW-22 Total Gallons Pumped:	135,508,229
IW-22 Total Acre-Feet Pumped:	416
IW-22 Average Yield Rate (gpm):	307
IW-22 % Run Time:	84.0%

Well	Month	Gallons Pumped	Estimated Hours	Yield (Acrefeet)	Approx. Yield Rate (gpm)
IW-11	Jan	10,548,129	726	32.4	242
	Feb	9,794,763	675	30.1	242
	Mar	9,200,842	634	28.2	242
	Apr	6,428,932	443	19.7	242
	May	6,179,223	426	19.0	242
	Jun	4,596,177	317	14.1	242
	Jul	1,796,481	124	5.5	242
	Aug	0	0	0.0	
	Sep	0	0	0.0	
	Oct	557,377	38	1.7	242
	Nov	4,401,399	303	13.5	242
	Dec	4,512,166	311	13.8	242

IW-11 Total Gallons Pumped:	58,015,490
IW-11 Total Acre-Feet Pumped:	178
IW-11 Average Yield Rate (gpm):	242
IW-11 % Run Time:	45.6%

Well	Month	Gallons Pumped	Estimated Hours	Yield (Acrefeet)	Approx. Yield Rate (gpm)
IW-6A	Jan	0	0	0.0	0
	Feb	0	0	0.0	0
	Mar	0	0	0.0	0
	Apr	0	0	0.0	0
	May	0	0	0.0	0
	Jun	0	0	0.0	0
	Jul	0	0	0.0	0
	Aug	0	0	0.0	0
	Sep	0	0	0.0	0
	Oct	0	0	0.0	0
	Nov	0	0	0.0	0
	Dec	0	0	0.0	0

IW-6A Total Gallons Pumped:	0
IW-6A Total Acre-Feet Pumped:	0
IW-6A Average Yield Rate (gpm):	0
IW-6A % Run Time:	0.0%

Well	Month	Gallons Pumped*	Estimated Hours	Yield (Acrefeet)	Approx. Yield Rate (gpm)
IW-12	Jan	0	0	0.0	
	Feb	933,533	144	2.9	108
	Mar	4,829,991	745	14.8	108
	Apr	4,577,792	706	14.0	108
	May	4,591,851	709	14.1	108
	Jun	4,164,553	643	12.8	108
	Jul	4,234,779	654	13.0	108
	Aug	3,579,651	552	11.0	108
	Sep	4,182,442	645	12.8	108
	Oct	3,430,961	529	10.5	108
	Nov	4,296,985	663	13.2	108
	Dec	3,396,413	524	10.4	108

IW-12 Total Gallons Pumped:	42,218,950
IW-12 Total Acre-Feet Pumped:	130
IW-12 Average Yield Rate (gpm):	108
IW-12 % Run Time:	74.4%

Well	Month	Gallons Pumped	Estimated Hours	Yield (Acrefeet)	Approx. Yield Rate (gpm)
IW-13	Jan	0	0	0.0	0
	Feb	0	0	0.0	0
	Mar	0	0	0.0	0
	Apr	0	0	0.0	0
	May	0	0	0.0	0
	Jun	0	0	0.0	0
	Jul	0	0	0.0	0
	Aug	0	0	0.0	0
	Sep	0	0	0.0	0
	Oct	0	0	0.0	0
	Nov	0	0	0.0	0
	Dec	0	0	0.0	0

IW-13 Total Gallons Pumped:	0
IW-13 Total Acre-Feet Pumped:	0
IW-13 Average Yield Rate (gpm):	0
IW-13 % Run Time:	0.0%

Well	Month	Gallons Pumped	Estimated Hours	Yield (Acrefeet)	Approx. Yield Rate (gpm)
IW-14	Jan	1,000	0	0.0	60
	Feb	1,000	0	0.0	60
	Mar	0	0	0.0	0
	Apr	0	0	0.0	0
	May	0	0	0.0	0
	Jun	0	0	0.0	0
	Jul	0	0	0.0	0
	Aug	0	0	0.0	0
	Sep	0	0	0.0	0
	Oct	0	0	0.0	0
	Nov	0	0	0.0	0
	Dec	0	0	0.0	0

IW-14 Total Gallons Pumped:	2,000
IW-14 Total Acre-Feet Pumped:	0
IW-14 Average Yield Rate (gpm):	60
IW-14 % Run Time:	0.0%





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Well	Month	Gallons Pumped	Estimated Hours	Yield (Acrefeet)	Approx. Yield Rate (gpm)
IW-15	Jan	0	0	0.0	0
	Feb	0	0	0.0	0
	Mar	0	0	0.0	0
	Apr	0	0	0.0	0
	May	0	0	0.0	0
	Jun	0	0	0.0	0
	Jul	0	0	0.0	0
	Aug	0	0	0.0	0
	Sep	0	0	0.0	0
	Oct	0	0	0.0	0
	Nov	0	0	0.0	0
	Dec	0	0	0.0	0

IW-15 Total Gallons Pumped:	0
IW-15 Total Acre-Feet Pumped:	0
IW-15 Average Yield Rate (gpm):	0
IW-15 % Run Time:	0.0%

Well	Month	Gallons Pumped	Estimated Hours	Yield (Acrefeet)	Approx. Yield Rate (gpm)
IW-19	Jan	4,731,637	652	14.5	121
	Feb	4,842,081	667	14.9	121
	Mar	5,311,328	732	16.3	121
	Apr	5,236,296	721	16.1	121
	May	5,147,951	709	15.8	121
	Jun	4,603,042	634	14.1	121
	Jul	4,253,334	586	13.1	121
	Aug	4,301,414	592	13.2	121
	Sep	4,934,475	680	15.1	121
	Oct	3,862,195	532	11.9	121
	Nov	4,759,810	656	14.6	121
	Dec	4,706,558	648	14.4	121

IW-19 Total Gallons Pumped:	56,690,119
IW-19 Total Acre-Feet Pumped:	174
IW-19 Average Yield Rate (gpm):	121
IW-19 % Run Time:	89.1%

Well	Month	Gallons Pumped	Estimated Hours	Yield (Acrefeet)	Approx. Yield Rate (gpm)
IW-20	Jan	0	0	0.0	0
	Feb	0	0	0.0	0
	Mar	0	0	0.0	0
	Apr	0	0	0.0	0
	May	0	0	0.0	0
	Jun	0	0	0.0	0
	Jul	0	0	0.0	0
	Aug	0	0	0.0	0
	Sep	0	0	0.0	0
	Oct	0	0	0.0	0
	Nov	0	0	0.0	0
	Dec	0	0	0.0	0

IW-20 Total Gallons Pumped:	0
IW-20 Total Acre-Feet Pumped:	0
IW-20 Average Yield Rate (gpm):	0
IW-20 % Run Time:	0.0%

Well	Month	Gallons Pumped	Estimated Hours	Yield (Acrefeet)	Approx. Yield Rate (gpm)
IW-21	Jan	0	0	0.0	0
	Feb	0	0	0.0	0
	Mar	0	0	0.0	0
	Apr	0	0	0.0	0
	May	0	0	0.0	0
	Jun	0	0	0.0	0
	Jul	0	0	0.0	0
	Aug	0	0	0.0	0
	Sep	0	0	0.0	0
	Oct	0	0	0.0	0
	Nov	0	0	0.0	0
	Dec	0	0	0.0	0

IW-21 Total Gallons Pumped:	0
IW-21 Total Acre-Feet Pumped:	0
IW-21 Average Yield Rate (gpm):	0
IW-21 % Run Time:	0.0%

Well	Month	Gallons Pumped	Estimated Hours	Yield (Acrefeet)	Approx. Yield Rate (gpm)
IW-25	Jan	20,155,522	743	61.9	452
	Feb	18,241,780	673	56.0	452
	Mar	19,197,472	708	58.9	452
	Apr	19,131,839	705	58.7	452
	May	19,357,385	714	59.4	452
	Jun	17,777,433	656	54.6	452
	Jul	18,089,116	667	55.5	452
	Aug	14,404,481	531	44.2	452
	Sep	17,448,434	643	53.5	452
	Oct	11,910,601	439	36.5	452
	Nov	17,108,803	631	52.5	452
	Dec	17,314,019	638	53.1	452

IW-25 Total Gallons Pumped:	210,136,886
IW-25 Total Acre-Feet Pumped:	645
IW-25 Average Yield Rate (gpm):	452
IW-25 % Run Time:	88.5%

Well	Month	Gallons Pumped	Estimated Hours	Yield (Acrefeet)	Approx. Yield Rate (gpm)
IW-26	Jan	10,151,509	736	31.2	230
	Feb	9,162,523	664	28.1	230
	Mar	9,980,829	723	30.6	230
	Apr	9,974,539	723	30.6	230
	May	10,228,981	741	31.4	230
	Jun	9,539,679	691	29.3	230
	Jul	9,651,551	699	29.6	230
	Aug	7,832,630	568	24.0	230
	Sep	9,184,229	666	28.2	230
	Oct	6,246,185	453	19.2	230
	Nov	9,627,484	698	29.5	230
	Dec	10,130,744	734	31.1	230

IW-26 Total Gallons Pumped:	111,710,883
IW-26 Total Acre-Feet Pumped:	343
IW-26 Average Yield Rate (gpm):	230
IW-26 % Run Time:	92.4%

Well	Month	Gallons Pumped	Estimated Hours	Yield (Acrefeet)	Approx. Yield Rate (gpm)
IW-27	Jan	7,257,482	747	22.3	162
	Feb	6,503,798	669	20.0	162
	Mar	6,254,716	643	19.2	162
	Apr	5,895,546	607	18.1	162
	May	6,259,858	644	19.2	162
	Jun	5,965,599	614	18.3	162
	Jul	6,070,845	625	18.6	162
	Aug	4,991,498	514	15.3	162
	Sep	6,042,522	622	18.5	162
	Oct	4,425,808	455	13.6	162
	Nov	6,102,366	628	18.7	162
	Dec	6,335,683	652	19.4	162

IW-27 Total Gallons Pumped:	72,105,721
IW-27 Total Acre-Feet Pumped:	221
IW-27 Average Yield Rate (gpm):	162
IW-27 % Run Time:	84.7%

Well	Month	Gallons Pumped	Estimated Hours	Yield (Acrefeet)	Approx. Yield Rate (gpm)
IW-28	Jan	16,247,625	744	49.9	364
	Feb	14,410,258	660	44.2	364
	Mar	15,731,843	720	48.3	364
	Apr	15,241,992	698	46.8	364
	May	15,314,387	701	47.0	364
	Jun	14,312,551	655	43.9	364
	Jul	14,525,093	665	44.6	364
	Aug	11,849,831	543	36.4	364
	Sep	14,575,546	667	44.7	364
	Oct	11,239,811	515	34.5	364
	Nov	14,634,802	670	44.9	364
	Dec	15,017,207	688	46.1	364

IW-28 Total Gallons Pumped:	173,100,948
IW-28 Total Acre-Feet Pumped:	531
IW-28 Average Yield Rate (gpm):	364
IW-28 % Run Time:	90.5%



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Well	Month	Gallons Pumped	Estimated Hours	Yield (Acrefeet)	Approx. Yield Rate (gpm)
IW-29	Jan	0	0	0.0	
	Feb	0	0	0.0	
	Mar	13,987,986	662	42.9	352
	Apr	15,176,833	719	46.6	352
	May	15,579,360	738	47.8	352
	Jun	14,668,916	695	45.0	352
	Jul	14,850,432	703	45.6	352
	Aug	12,115,929	574	37.2	352
	Sep	14,963,281	708	45.9	352
	Oct	11,912,647	564	36.6	352
	Nov	15,043,695	712	46.2	352
	Dec	15,401,505	729	47.3	352

IW-29 Total Gallons Pumped:	143,700,584
IW-29 Total Acre-Feet Pumped:	441
IW-29 Average Yield Rate (gpm):	352
IW-29 % Run Time:	77.7%

Well	Month	Gallons Pumped	Estimated Hours	Yield (Acrefeet)	Approx. Yield Rate (gpm)
PS-1	Jan	35,060,686	740	107.6	790
	Feb	31,743,633	670	97.4	790
	Mar	34,965,112	738	107.3	790
	Apr	33,337,599	703	102.3	790
	May	34,241,952	722	105.1	790
	Jun	31,172,124	658	95.7	790
	Jul	33,634,361	710	103.2	790
	Aug	30,148,055	636	92.5	790
	Sep	33,604,797	709	103.1	790
	Oct	31,328,689	661	96.1	790
	Nov	33,128,289	699	101.7	790
	Dec	33,928,106	716	104.1	790

PS-1 Total Gallons Pumped:	396,293,403
PS-1 Total Acre-Feet Pumped:	1216
PS-1 Average Yield Rate (gpm):	790
PS-1 % Run Time:	95.4%

Well	Month	Gallons Pumped	Estimated Hours	Yield (Acrefeet)	Approx. Yield Rate (gpm)
PS-2	Jan	35,451,883	723	108.8	817
	Feb	32,995,818	673	101.3	817
	Mar	36,148,825	737	110.9	817
	Apr	34,594,184	706	106.2	817
	May	35,628,899	727	109.3	817
	Jun	32,431,783	662	99.5	817
	Jul	36,152,328	738	110.9	817
	Aug	31,941,220	652	98.0	817
	Sep	35,268,892	719	108.2	817
	Oct	33,168,401	677	101.8	817
	Nov	32,372,585	660	99.3	817
	Dec	36,006,092	735	110.5	817

PS-2 Total Gallons Pumped:	412,160,908
PS-2 Total Acre-Feet Pumped:	1265
PS-2 Average Yield Rate (gpm):	817
PS-2 % Run Time:	96.0%

Well	Month	Gallons Pumped	Estimated Hours	Yield (Acrefeet)	Approx. Yield Rate (gpm)
PS-3	Jan	44,538,594	746	136.7	995
	Feb	39,790,232	667	122.1	995
	Mar	42,314,902	709	129.9	995
	Apr	40,082,311	671	123.0	995
	May	39,781,171	666	122.1	995
	Jun	33,667,291	564	103.3	995
	Jul	27,089,315	454	83.1	995
	Aug	26,646,520	446	81.8	995
	Sep	41,159,653	689	126.3	995
	Oct	39,617,267	664	121.6	995
	Nov	41,765,146	700	128.2	995
	Dec	42,740,234	716	131.2	995

PS-3 Total Gallons Pumped:	459,192,635
PS-3 Total Acre-Feet Pumped:	1409
PS-3 Average Yield Rate (gpm):	995
PS-3 % Run Time:	87.8%

Well	Month	Gallons Pumped	Estimated Hours	Yield (Acrefeet)	Approx. Yield Rate (gpm)
PS-4	Jan	0	0	0.0	
	Feb	0	0	0.0	
	Mar	42,943,920	685	131.8	1045
	Apr	45,162,137	720	138.6	1045
	May	46,460,564	741	142.6	1045
	Jun	34,303,486	547	105.3	1045
	Jul	44,641,047	712	137.0	1045
	Aug	39,373,495	628	120.8	1045
	Sep	13,484,310	215	41.4	1045
	Oct	37,340,837	596	114.6	1045
	Nov	44,712,109	713	137.2	1045
	Dec	46,022,894	734	141.2	1045

PS-4 Total Gallons Pumped:	394,444,800
PS-4 Total Acre-Feet Pumped:	1210
PS-4 Average Yield Rate (gpm):	1045
PS-4 % Run Time:	71.8%

Well	Month	Gallons Pumped	Estimated Hours	Yield (Acrefeet)	Approx. Yield Rate (gpm)
MC-1	Jan	35,741,896	740	109.7	805
	Feb	32,553,671	674	99.9	805
	Mar	0	0	0.0	
	Apr	2,279	0	0.0	805
	May	0	0	0.0	
	Jun	26,871,920	556	82.5	805
	Jul	27,665,412	573	84.9	805
	Aug	32,498,643	673	99.7	805
	Sep	30,735,356	636	94.3	805
	Oct	25,029,910	518	76.8	805
	Nov	30,675,524	635	94.1	805
	Dec	28,930,852	599	88.8	805

MC-1 Total Gallons Pumped:	270,705,463
MC-1 Total Acre-Feet Pumped:	831
MC-1 Average Yield Rate (gpm):	805
MC-1 % Run Time:	64.0%

Well	Month	Gallons Pumped	Estimated Hours	Yield (Acrefeet)	Approx. Yield Rate (gpm)
MC-2	Jan	24,943,959	729	76.5	570
	Feb	23,047,978	674	70.7	570
	Mar	24,362,297	712	74.8	570
	Apr	23,645,802	691	72.6	570
	May	24,345,215	712	74.7	570
	Jun	22,044,684	645	67.6	570
	Jul	20,887,729	611	64.1	570
	Aug	17,356,980	508	53.3	570
	Sep	22,301,681	652	68.4	570
	Oct	18,828,690	551	57.8	570
	Nov	17,668,017	517	54.2	570
	Dec	23,040,886	674	70.7	570

MC-2 Total Gallons Pumped:	262,473,920
MC-2 Total Acre-Feet Pumped:	805
MC-2 Average Yield Rate (gpm):	570
MC-2 % Run Time:	87.6%



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Well	Month	Gallons Pumped	Estimated Hours	Yield (Acrefeet)	Approx. Yield Rate (gpm)
MC-3	Jan	19,721,043	735	60.5	447
	Feb	18,099,988	675	55.5	447
	Mar	19,864,993	741	61.0	447
	Apr	18,809,744	701	57.7	447
	May	19,005,814	709	58.3	447
	Jun	17,305,882	645	53.1	447
	Jul	17,760,576	662	54.5	447
	Aug	14,437,302	538	44.3	447
	Sep	18,377,036	685	56.4	447
	Oct	14,795,416	552	45.4	447
	Nov	18,099,845	675	55.5	447
	Dec	18,166,148	677	55.7	447

MC-3 Total Gallons Pumped:	214,443,788
MC-3 Total Acre-Feet Pumped:	658
MC-3 Average Yield Rate (gpm):	447
MC-3 % Run Time:	91.3%

Well	Month	Gallons Pumped	Estimated Hours	Yield (Acrefeet)	Approx. Yield Rate (gpm)
MC-4	Jan	14,410,325	728	44.2	330
	Feb	13,213,778	667	40.5	330
	Mar	14,766,429	746	45.3	330
	Apr	13,302,745	672	40.8	330
	May	13,603,863	687	41.7	330
	Jun	11,890,418	601	36.5	330
	Jul	12,892,558	651	39.6	330
	Aug	11,147,733	563	34.2	330
	Sep	14,032,526	709	43.1	330
	Oct	11,225,770	567	34.4	330
	Nov	11,679,708	590	35.8	330
	Dec	12,018,265	607	36.9	330

MC-4 Total Gallons Pumped:	154,184,117
MC-4 Total Acre-Feet Pumped:	473
MC-4 Average Yield Rate (gpm):	330
MC-4 % Run Time:	88.9%

Well	Month	Gallons Pumped	Estimated Hours	Yield (Acrefeet)	Approx. Yield Rate (gpm)
FFS-1	Jan	35,080,529	745	107.7	785
	Feb	27,908,320	593	85.6	785
	Mar	31,730,032	674	97.4	785
	Apr	29,481,164	626	90.5	785
	May	29,980,839	637	92.0	785
	Jun	27,514,742	584	84.4	785
	Jul	29,025,615	616	89.1	785
	Aug	25,681,683	545	78.8	785
	Sep	29,561,924	628	90.7	785
	Oct	28,168,826	598	86.4	785
	Nov	29,265,339	621	89.8	785
	Dec	30,714,509	652	94.3	785

FFS-1 Total Gallons Pumped:	354,113,524
FFS-1 Total Acre-Feet Pumped:	1087
FFS-1 Average Yield Rate (gpm):	785
FFS-1 % Run Time:	85.8%

Well	Month	Gallons Pumped	Estimated Hours	Yield (Acrefeet)	Approx. Yield Rate (gpm)
FFS-2	Jan	36,702,767	680	112.6	900
	Feb	36,237,600	671	111.2	900
	Mar	33,077,050	613	101.5	900
	Apr	36,462,834	675	111.9	900
	May	37,710,212	698	115.7	900
	Jun	28,466,302	527	87.4	900
	Jul	20,830,543	386	63.9	900
	Aug	15,079,956	279	46.3	900
	Sep	29,561,699	547	90.7	900
	Oct	26,212,749	485	80.4	900
	Nov	26,744,759	495	82.1	900
	Dec	28,960,860	536	88.9	900

FFS-2 Total Gallons Pumped:	356,047,331
FFS-2 Total Acre-Feet Pumped:	1093
FFS-2 Average Yield Rate (gpm):	900
FFS-2 % Run Time:	75.3%

Well	Month	Gallons Pumped	Estimated Hours	Yield (Acrefeet)	Approx. Yield Rate (gpm)
FFS-3	Jan	5,072	1	0.0	115
	Feb	0	0	0.0	
	Mar	0	0	0.0	
	Apr	40,407	6	0.1	115
	May	81,296	12	0.2	115
	Jun	324,868	47	1.0	115
	Jul	941,149	136	2.9	115
	Aug	589,174	85	1.8	115
	Sep	1,701,780	247	5.2	115
	Oct	0	0	0.0	
	Nov	0	0	0.0	
	Dec	0	0	0.0	

FFS-3 Total Gallons Pumped:	3,683,745
FFS-3 Total Acre-Feet Pumped:	11
FFS-3 Average Yield Rate (gpm):	115
FFS-3 % Run Time:	6.1%

Well	Month	Gallons Pumped	Estimated Hours	Yield (Acrefeet)	Approx. Yield Rate (gpm)
FFS-4	Jan	279,336	129	0.9	36
	Feb	0	0	0.0	
	Mar	0	0	0.0	
	Apr	0	0	0.0	
	May	1,441,411	667	4.4	36
	Jun	1,367,892	633	4.2	36
	Jul	1,563,925	724	4.8	36
	Aug	1,356,023	628	4.2	36
	Sep	1,522,504	705	4.7	36
	Oct	620,898	287	1.9	36
	Nov	0	0	0.0	
	Dec	0	0	0.0	

FFS-4 Total Gallons Pumped:	8,151,989
FFS-4 Total Acre-Feet Pumped:	25
FFS-4 Average Yield Rate (gpm):	36
FFS-4 % Run Time:	43.1%

Well	Month	Gallons Pumped	Estimated Hours	Yield (Acrefeet)	Approx. Yield Rate (gpm)
FFS-5	Jan	19,932,373	503	61.2	660
	Feb	17,597,780	444	54.0	660
	Mar	16,991,091	429	52.1	660
	Apr	13,625,173	344	41.8	660
	May	14,974,537	378	46.0	660
	Jun	11,351,463	287	34.8	660
	Jul	1,476,387	37	4.5	660
	Aug	0	0	0.0	
	Sep	0	0	0.0	
	Oct	15,808,105	399	48.5	660
	Nov	28,501,695	720	87.5	660
	Dec	27,300,543	689	83.8	660

FFS-5 Total Gallons Pumped:	167,559,145
FFS-5 Total Acre-Feet Pumped:	514
FFS-5 Average Yield Rate (gpm):	660
FFS-5 % Run Time:	48.3%

Well	Month	Gallons Pumped	Estimated Hours	Yield (Acrefeet)	Approx. Yield Rate (gpm)
FFS-6	Jan	0	0	0.0	0
	Feb	6,722	1	0.0	175
	Mar	0	0	0.0	0
	Apr	0	0	0.0	0
	May	0	0	0.0	0
	Jun	0	0	0.0	0
	Jul	0	0	0.0	0
	Aug	0	0	0.0	0
	Sep	0	0	0.0	0
	Oct	0	0	0.0	0
	Nov	0	0	0.0	0
	Dec	0	0	0.0	0

FFS-6 Total Gallons Pumped:	0
FFS-6 Total Acre-Feet Pumped:	0
FFS-6 Average Yield Rate (gpm):	0
FFS-6 % Run Time:	0.0%



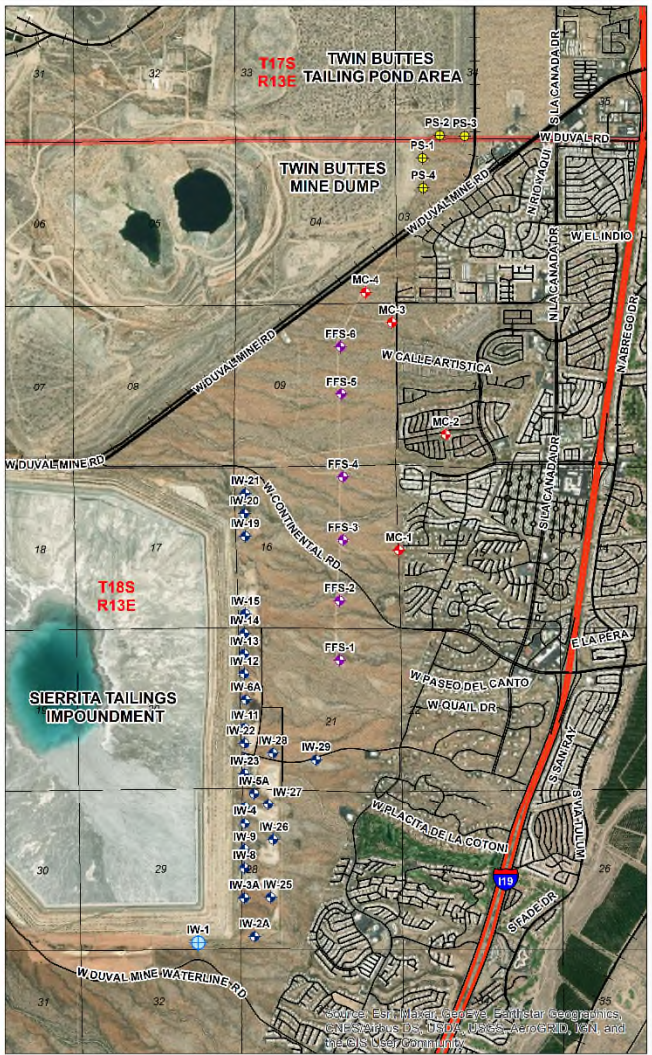
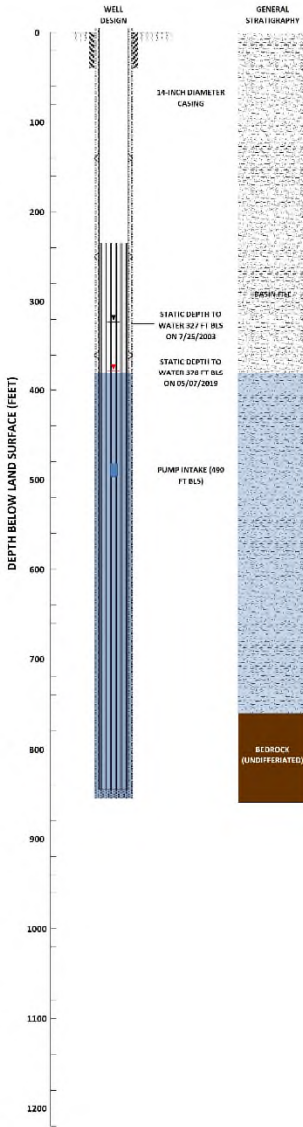
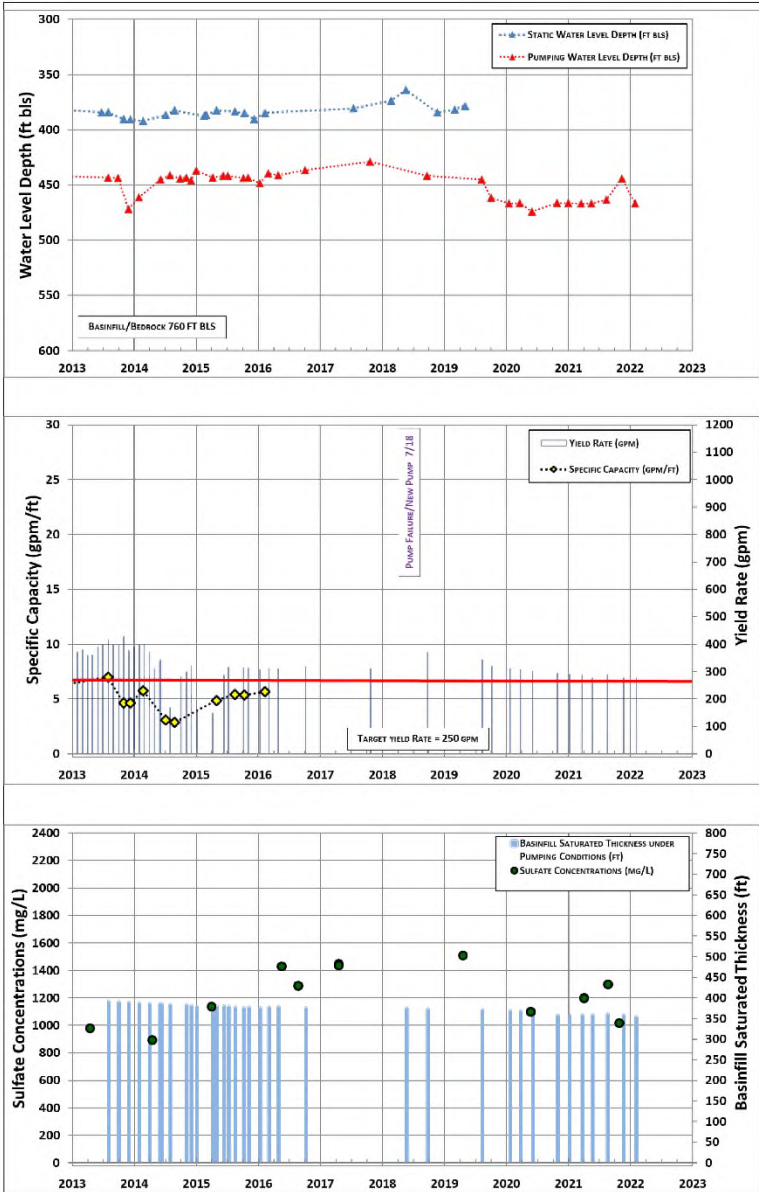


ATTACHMENT B

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**SIERRITA SULFATE MITIGATION ACTION WELL FIELD WELL FIELD DATA PLOTS**

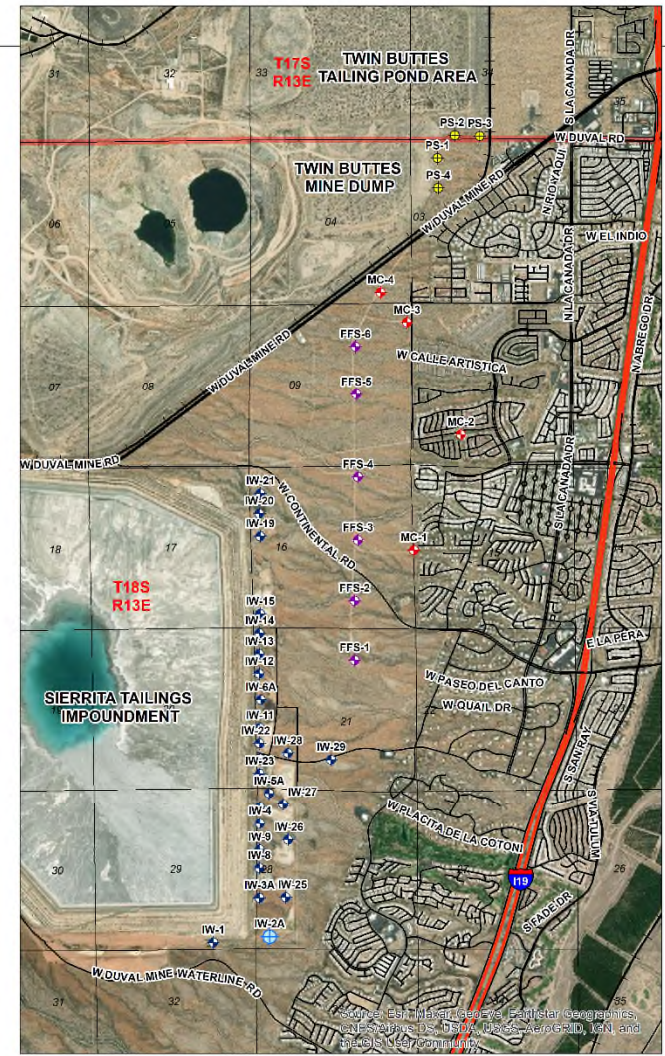
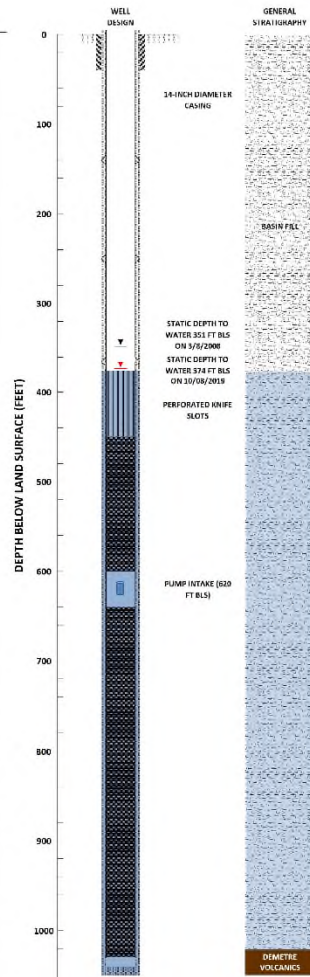
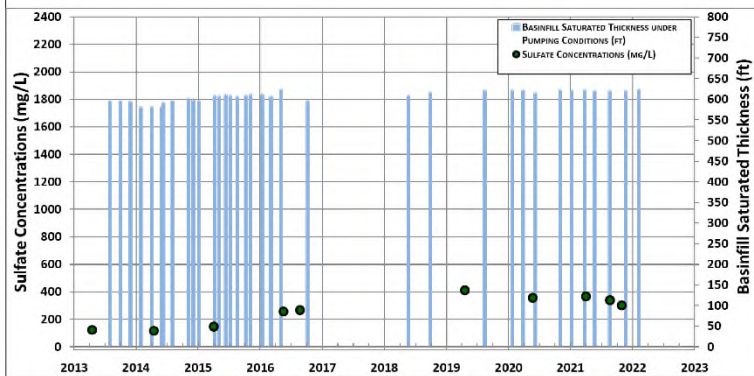
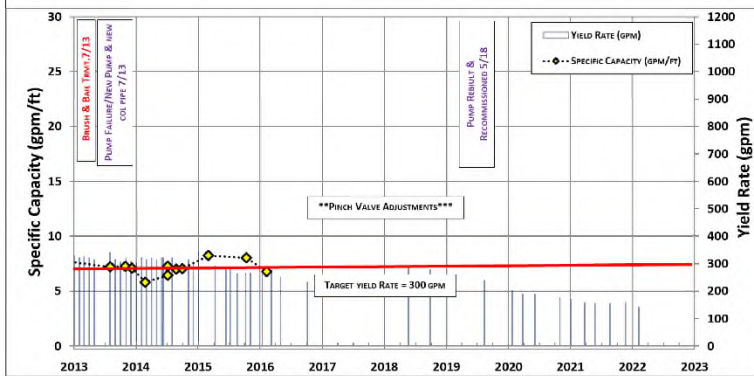
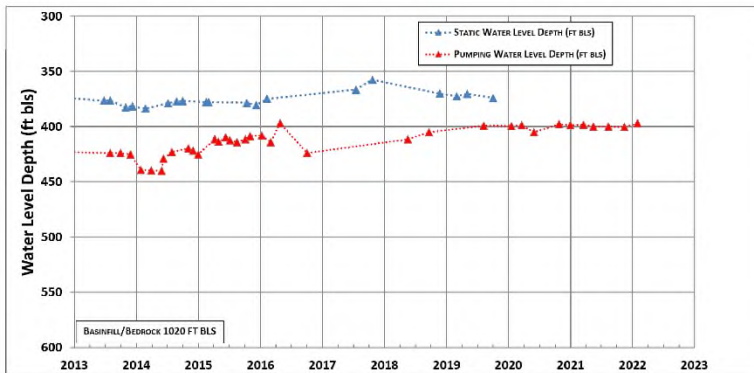
**BasinWells Associates PLLC**



<p><b>BasinWells ASSOCIATES PLLC</b> SPECIALISTS IN GROUNDWATER DEVELOPMENT</p>	<p><b>FREEPORT-McMoRan COPPER &amp; GOLD</b></p> <p><b>VERSION DATE: FEBRUARY, 2022</b></p>	<p>IW-1: WATER LEVELS, YIELD, SPECIFIC CAPACITY, BASINFLL SAT. THK. AND SULFATE</p> <p>CADASTRAL: D-18-13 29DCD ADWR REG. NO.: 55-623129 DRILL YEAR: 1978</p>
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# BasinWells Associates PLLC

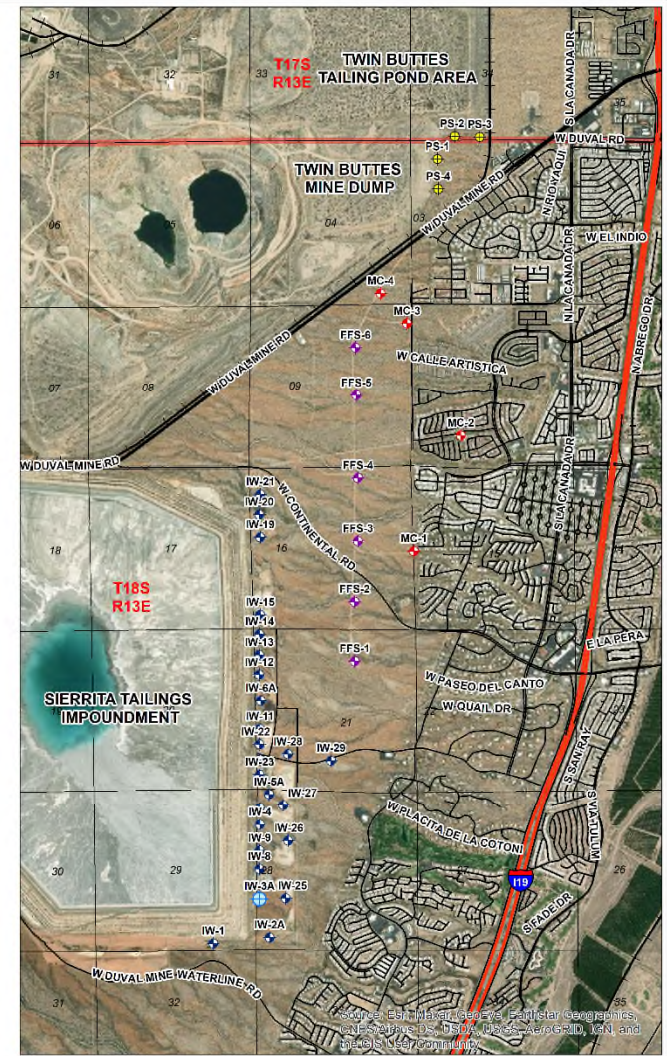
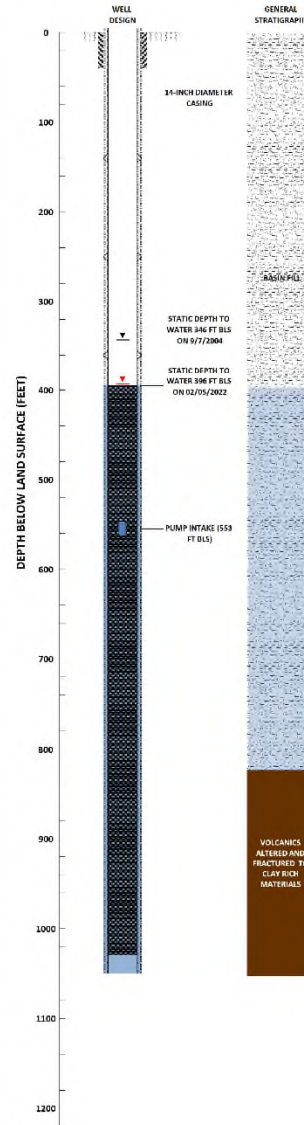
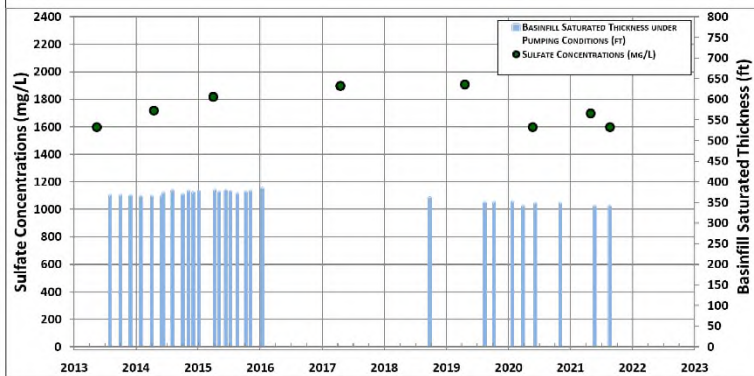
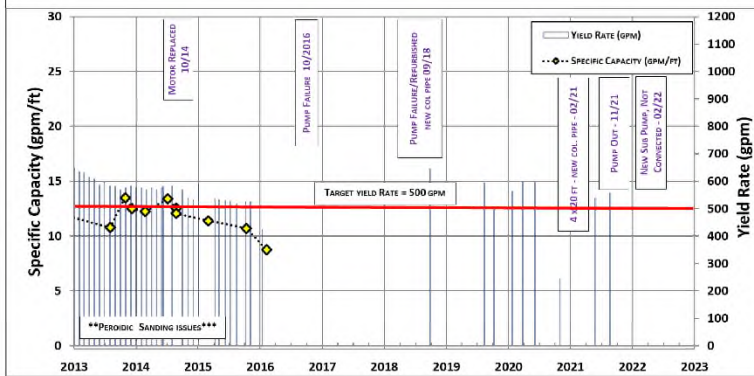
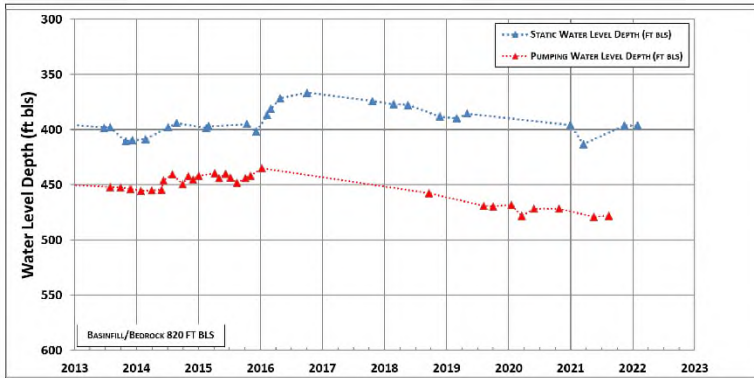




<p><b>BasinWells</b> ASSOCIATES PLLC <small>SPECIALISTS IN GOVERNANCE &amp; DEVELOPMENT</small></p>	<p><b>FREEPORT-McMORAN</b> COPPER &amp; GOLD</p>	<p>IW-2A: WATER LEVELS, YIELD, SPECIFIC CAPACITY, BASINFILL SAT. THK. AND SULFATE</p>
	<p><b>VERSION DATE:</b> FEBRUARY, 2022</p>	<p>CADASTRAL: D-18-13 28CCC ADWR REG. NO.: 55-216464 DRILL YEAR: 2008</p>

**BasinWells Associates PLLC**

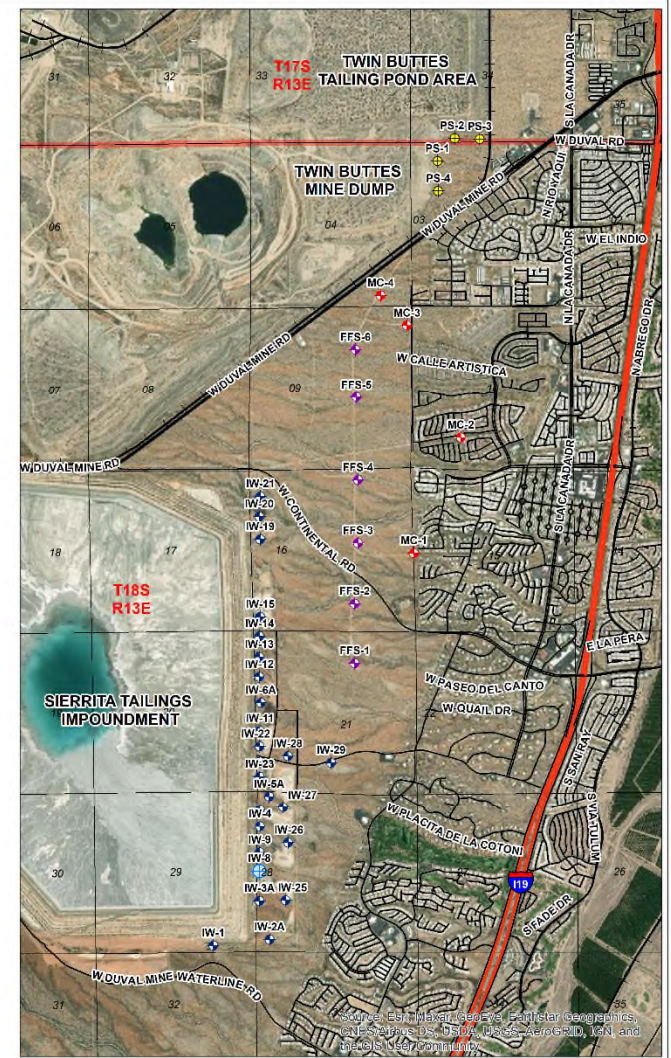
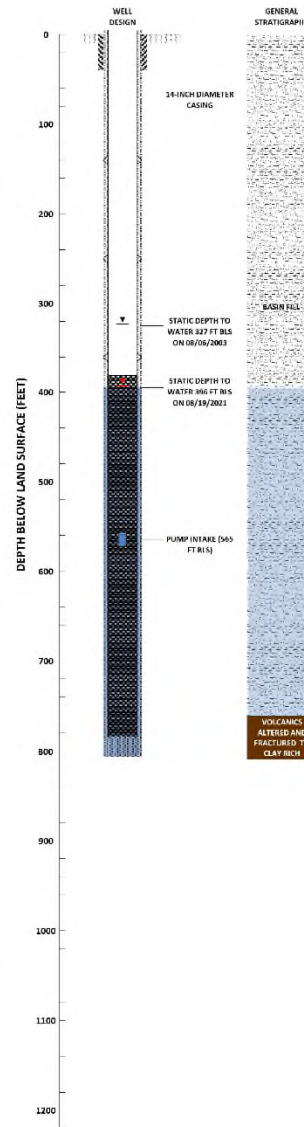
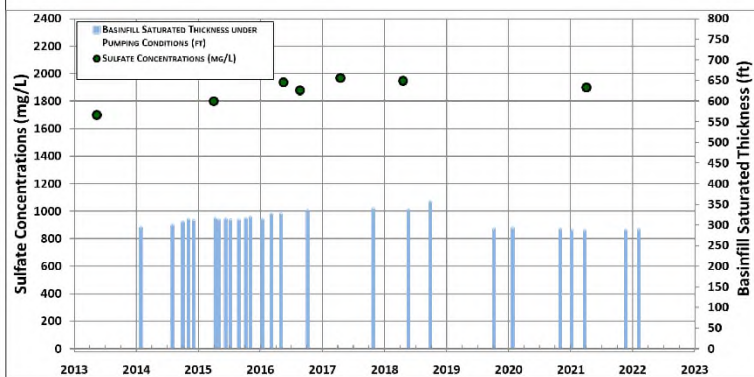
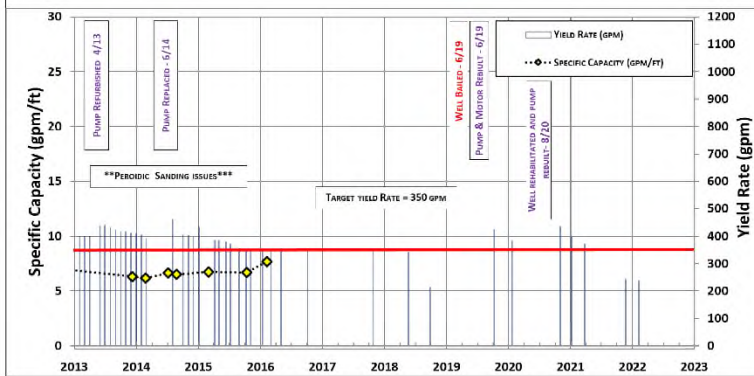
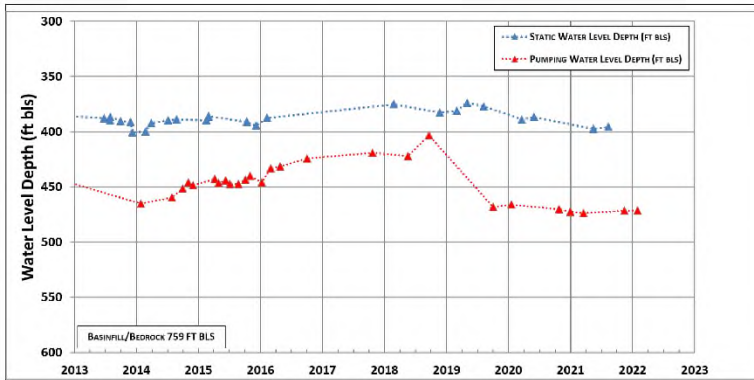




<p><b>BasinWells</b> ASSOCIATES PLLC <small>SPECIALISTS IN GROUNDWATER DEVELOPMENT</small></p>	<p><b>FREEPORT-McMoRAN</b> COPPER &amp; GOLD</p>	<p>IW-3A: WATER LEVELS, YIELD, SPECIFIC CAPACITY, BASINFILL SAT. THK. AND SULFATE</p>
	<p><b>VERSION DATE:</b> FEBRUARY, 2022</p>	<p>CADASTRAL: D-18-13 28CBC ADWR REG. NO.: 55-201732 DRILL YEAR: 2004</p>

**BasinWells Associates PLLC**

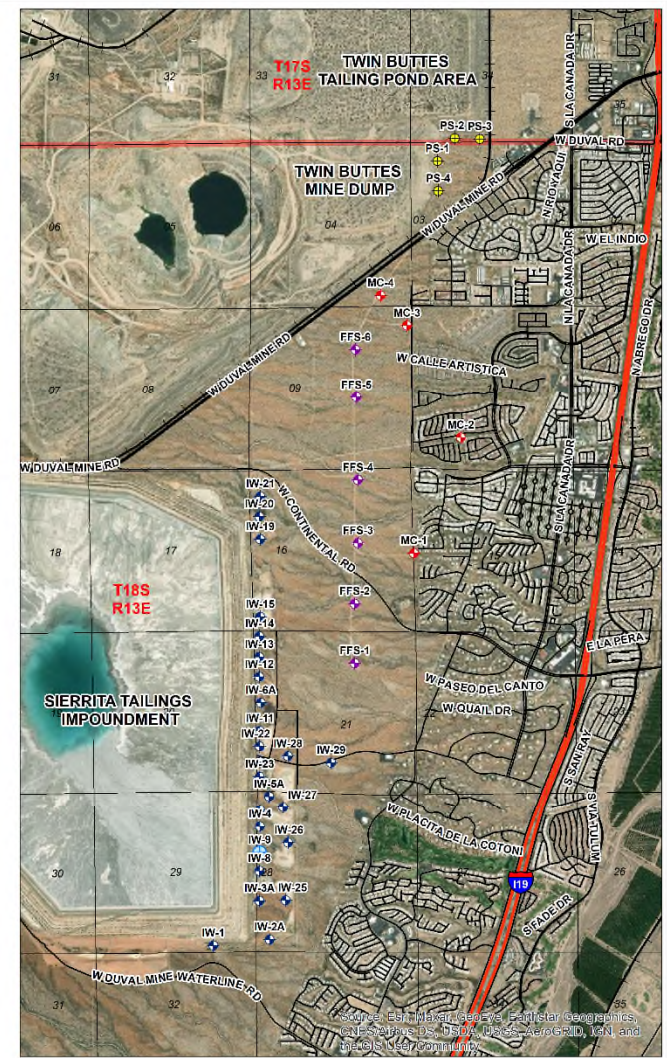
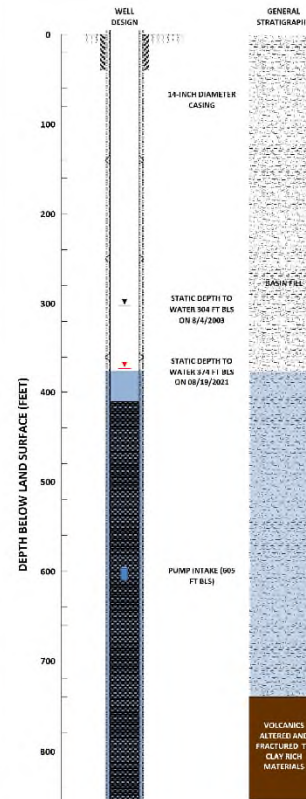
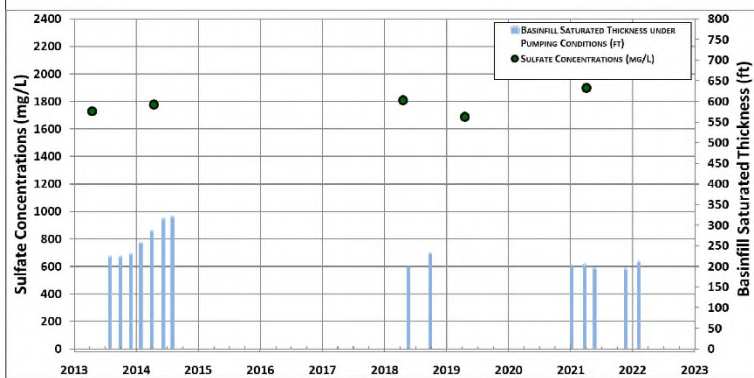
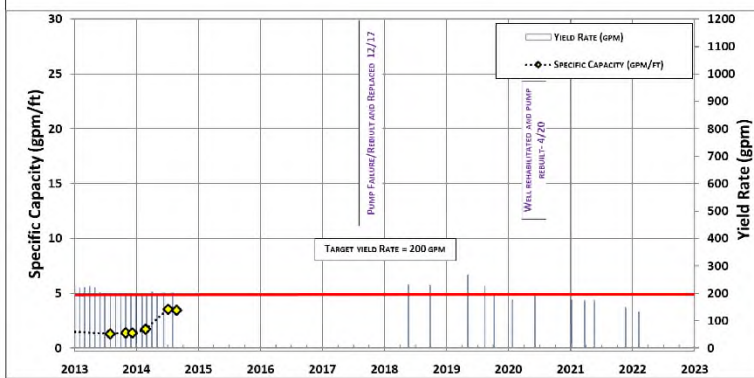
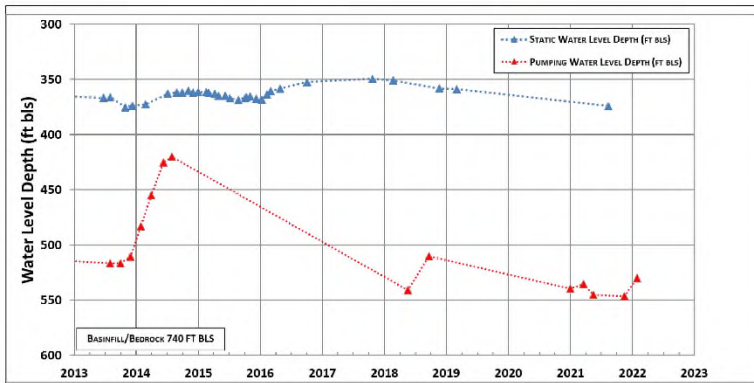




<p>SPECIALISTS IN GROUNDWATER DEVELOPMENT</p>		IW-8: WATER LEVELS, YIELD, SPECIFIC CAPACITY, BASINFILL SAT. THK. AND SULFATE
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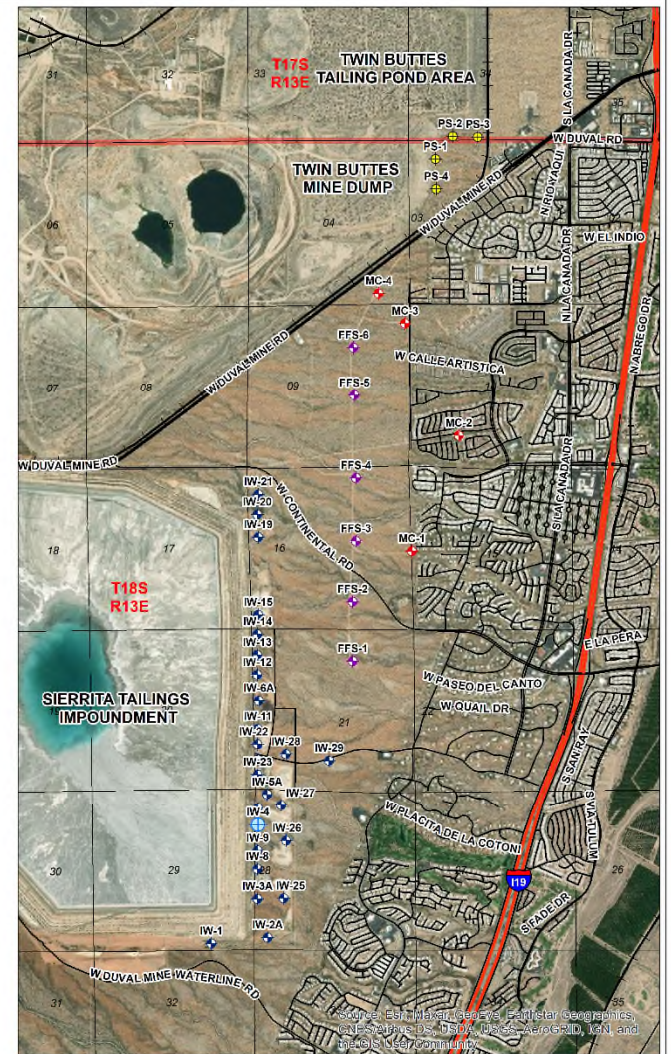
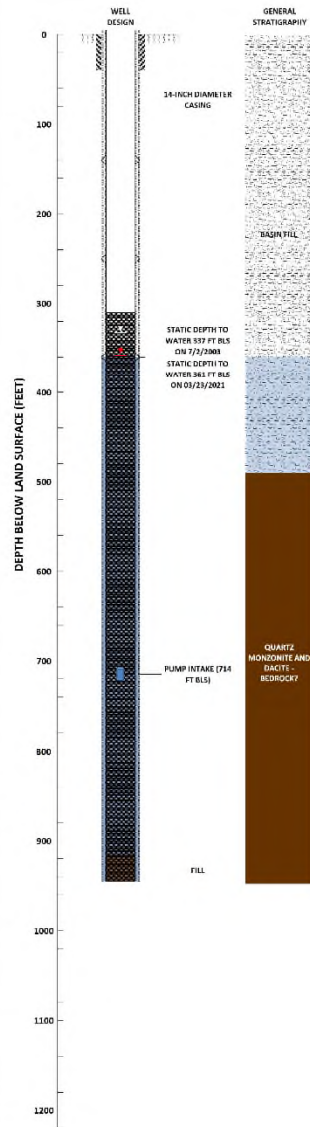
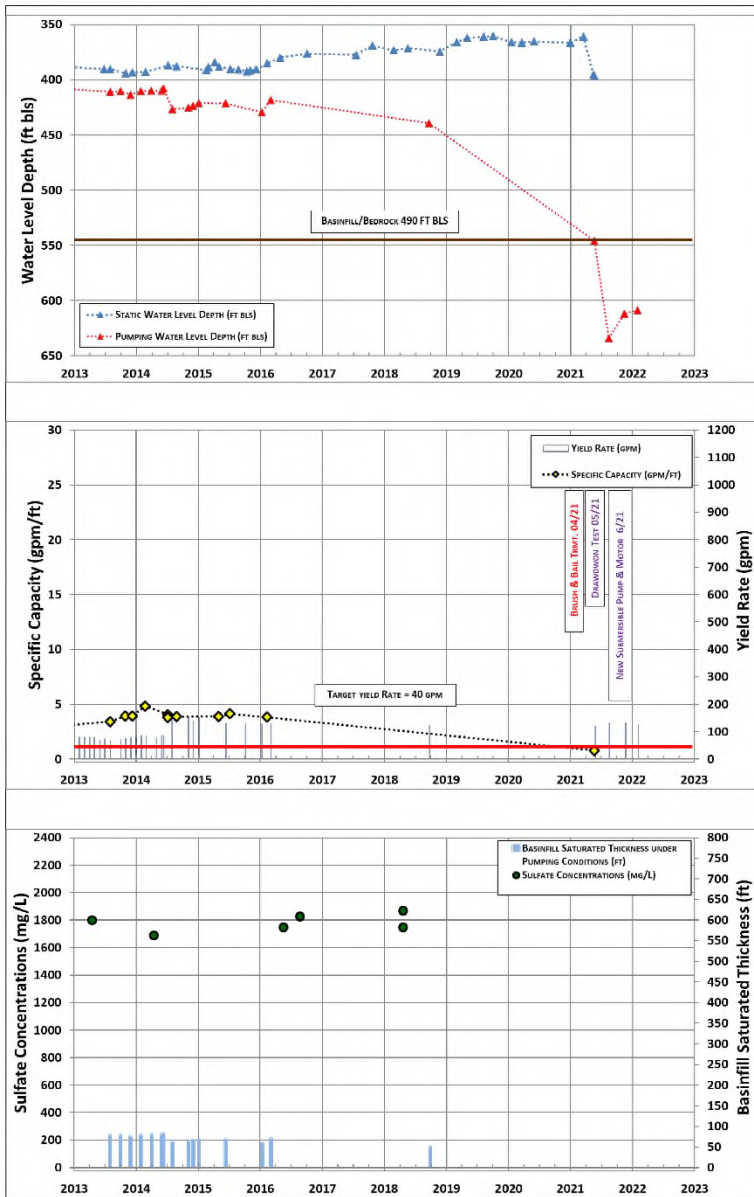
**BasinWells Associates PLLC**





<p>SPECIALISTS IN GROUNDWATER DEVELOPMENT</p>		IW-9: WATER LEVELS, YIELD, SPECIFIC CAPACITY, BASINFILL SAT. THK. AND SULFATE
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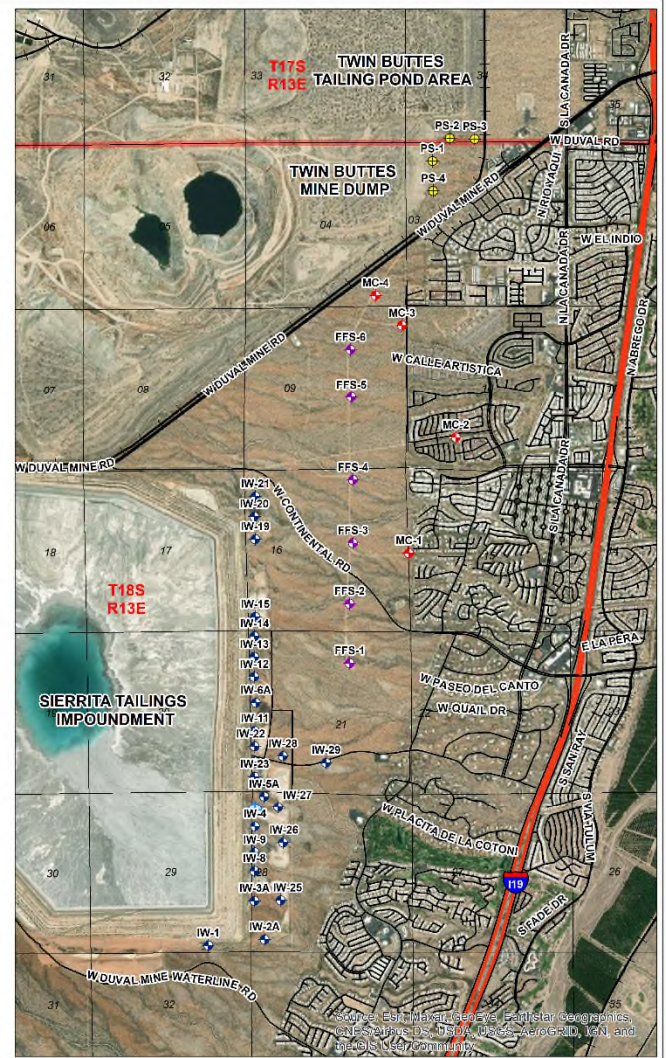
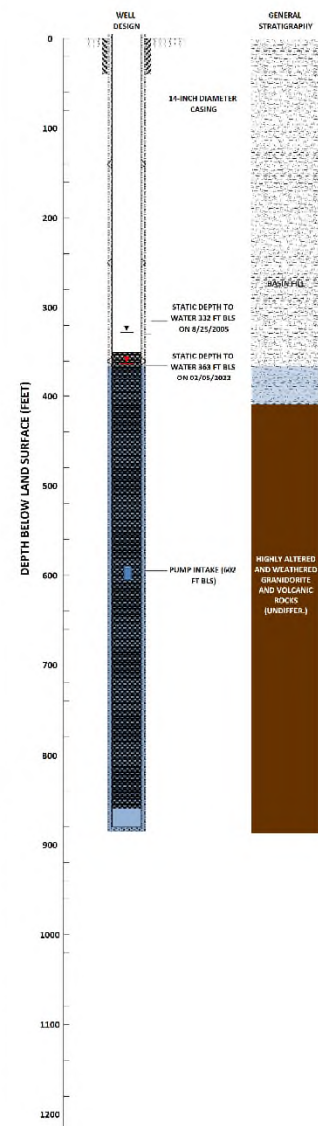
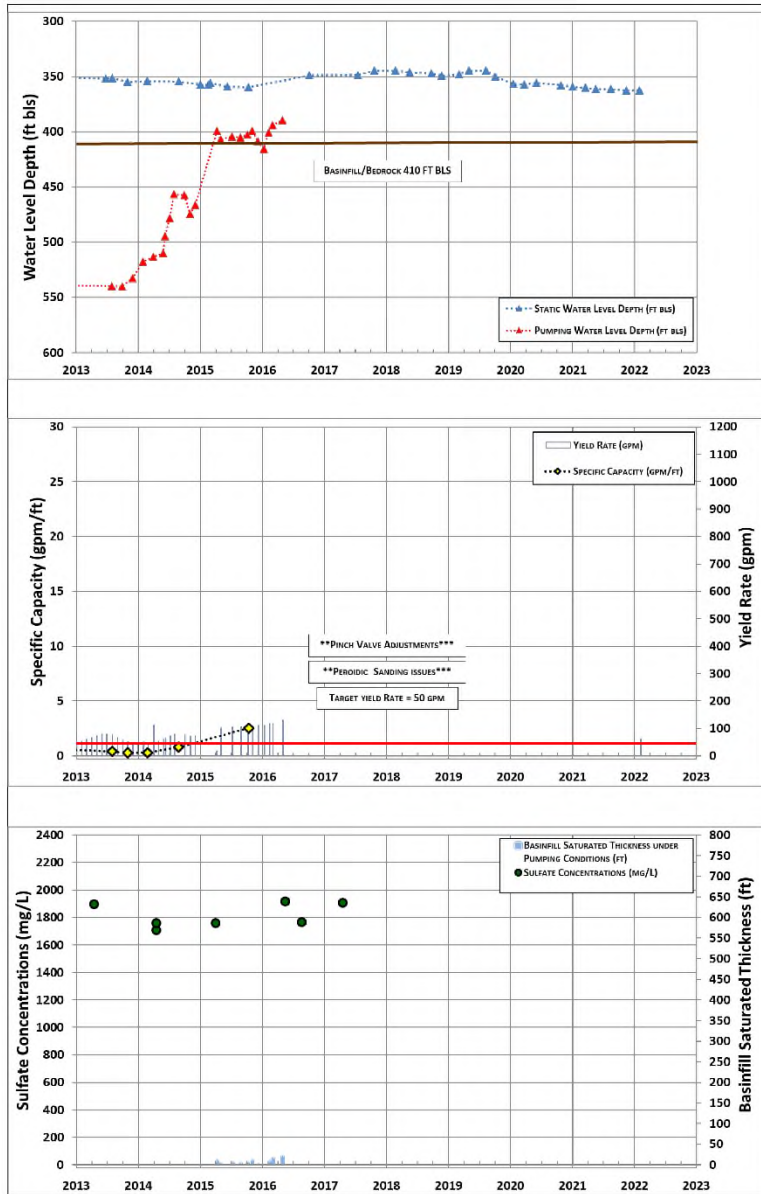




<p><b>BasinWells ASSOCIATES PLLC</b> SPECIALISTS IN GOVERNANCE AND DEVELOPMENT</p>	<p><b>FREEPORT-McMoRan COPPER &amp; GOLD</b></p>	<p>IW-4: WATER LEVELS, YIELD, SPECIFIC CAPACITY, BASINFILL SAT. THK. AND SULFATE</p>
	<p><b>VERSION DATE:</b> FEBRUARY, 2022</p>	<p>CADASTRAL: D-18-13 288CB ADWR REG. NO.: 55-623132 DRILL YEAR: 1978</p>

**BasinWells Associates PLLC**

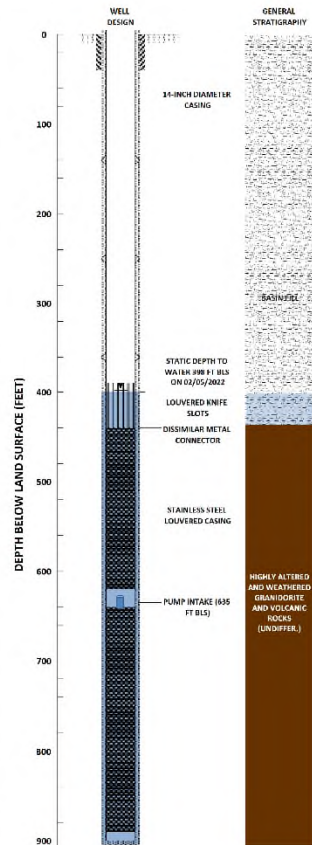
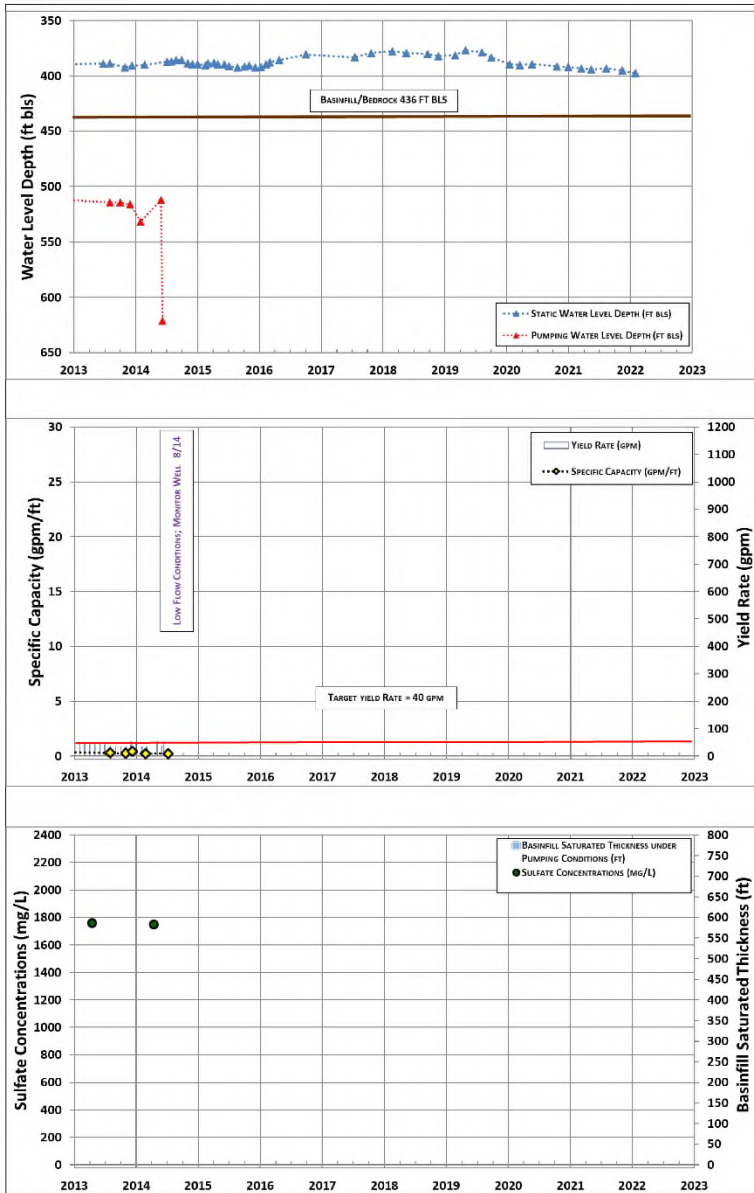




<p><b>BasinWells</b> ASSOCIATES PLLC <small>SPECIALISTS IN GROUNDWATER DEVELOPMENT</small></p>	<p><b>FREEPORT-McMORAN</b> COPPER &amp; GOLD</p>	<p>IW-24: WATER LEVELS, YIELD, SPECIFIC CAPACITY, BASINFILL SAT. THK. AND SULFATE</p>
	<p>VERSION DATE: <b>FEBRUARY, 2022</b></p>	<p>CADASTRAL: D-18-13 28888 ADWR REG. NO.: 55-200556 DRILL YEAR: 2004</p>

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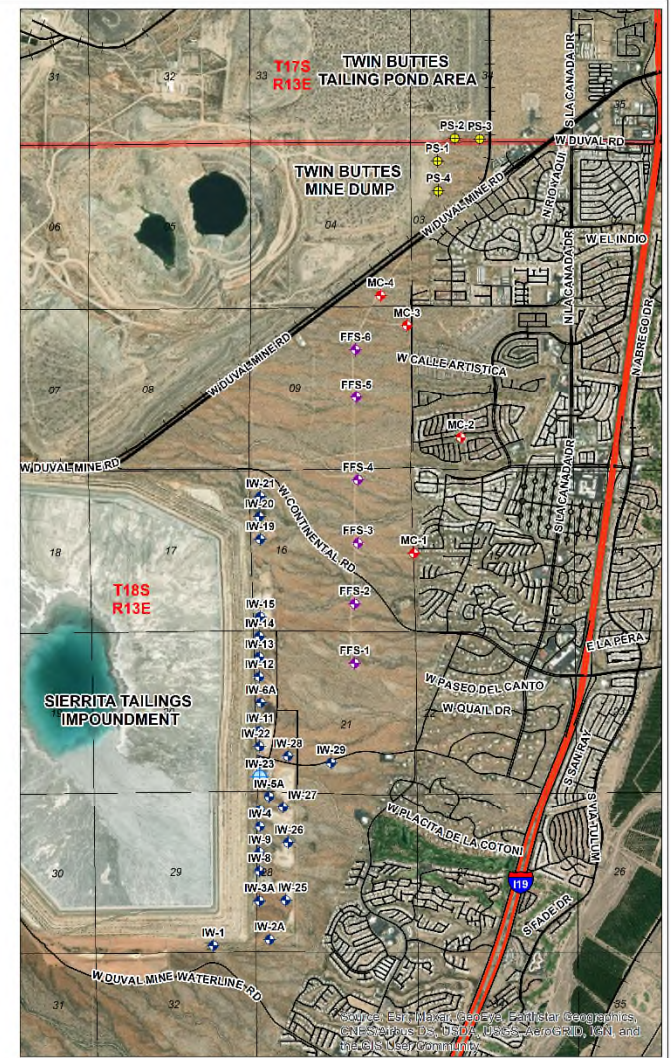
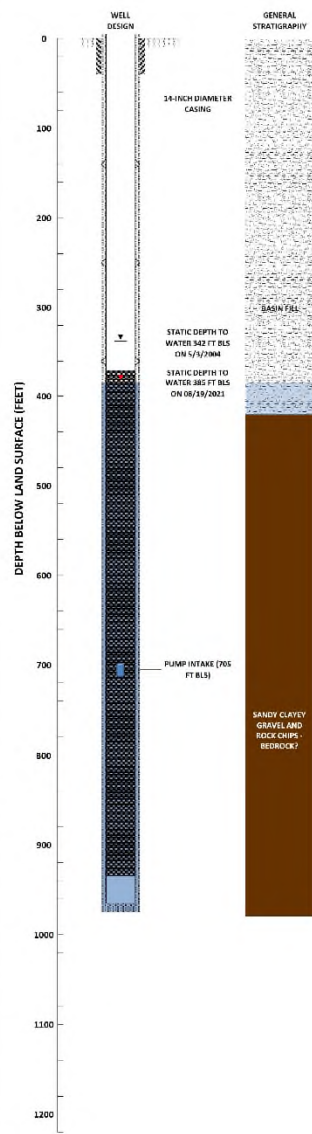
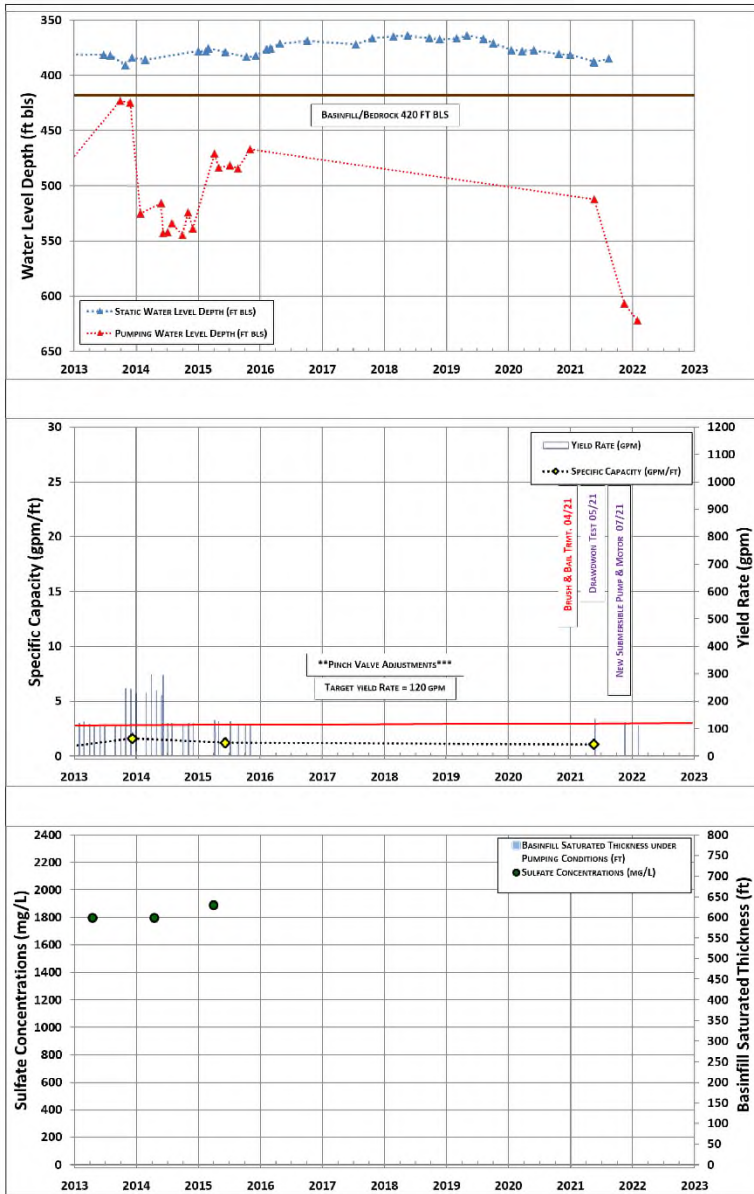




<p><b>BasinWells ASSOCIATES PLLC</b> SPECIALISTS IN GOVERNANCE AND DEVELOPMENT</p>	<p><b>FREEPORT-McMORAN COPPER &amp; GOLD</b></p>	<p>IW-5A: WATER LEVELS, YIELD, SPECIFIC CAPACITY, BASINFILL SAT. THK. AND SULFATE</p>
	<p><b>VERSION DATE:</b> FEBRUARY, 2022</p>	<p>CADASTRAL:D-18-13 28888 ADWR REG. NO.: 55-219131 DRILL YEAR: 2010</p>

**BasinWells Associates PLLC**

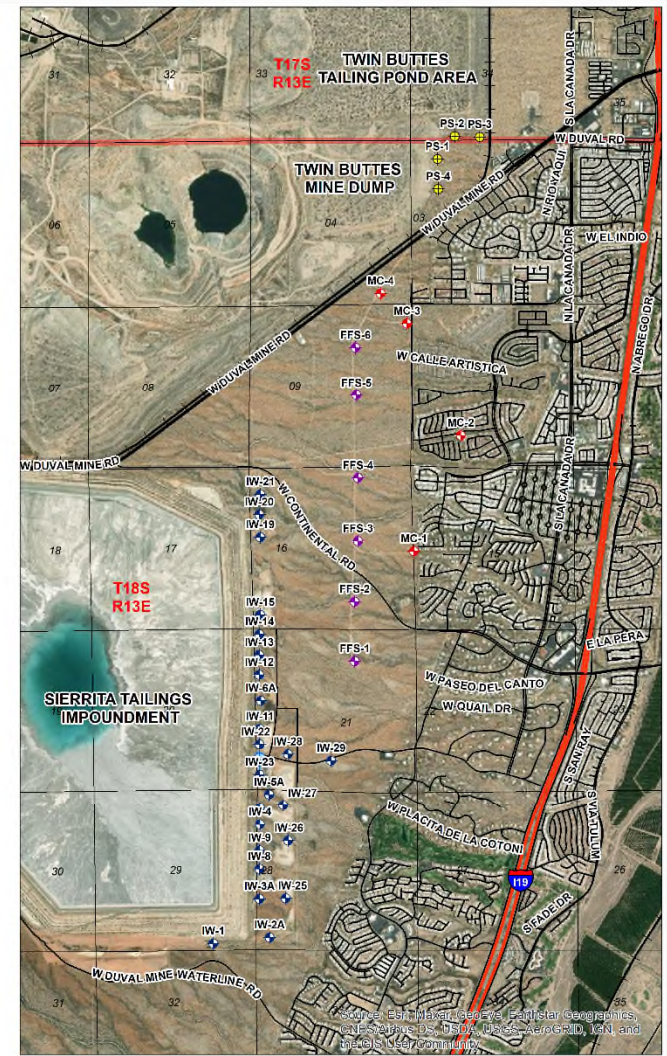
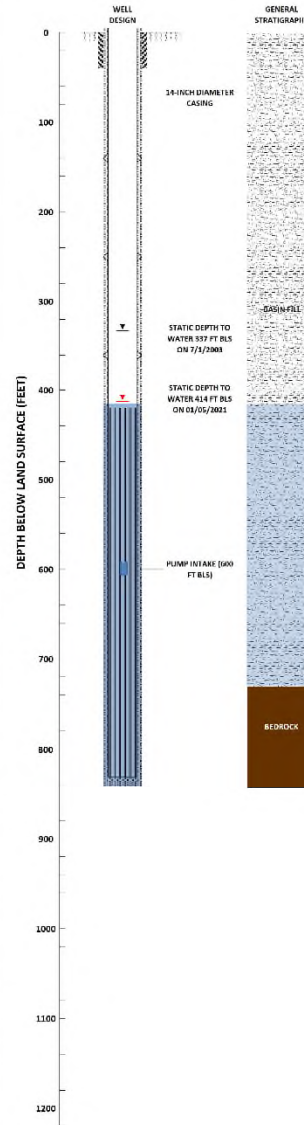
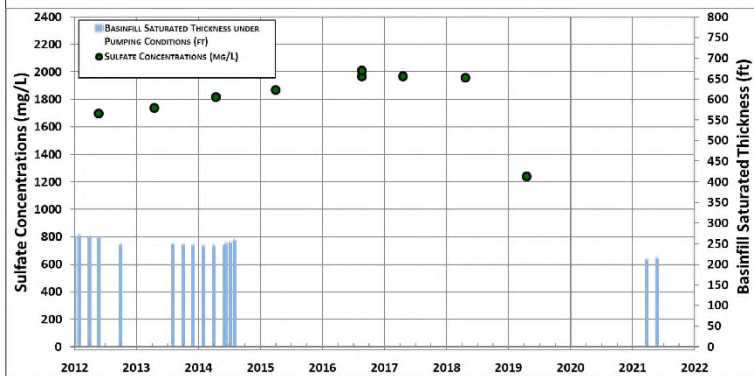
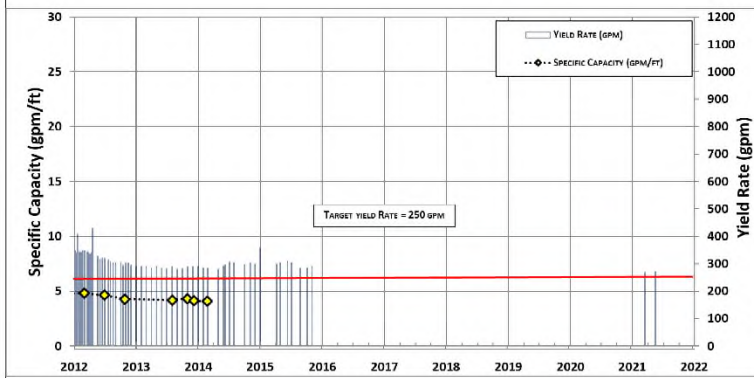
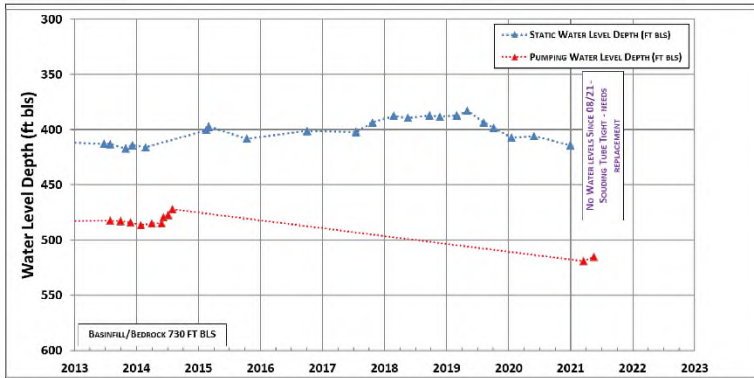




<p><b>BasinWells</b> ASSOCIATES PLLC <small>SPECIALISTS IN GROUNDWATER DEVELOPMENT</small></p>	<p><b>FREEPORT-McMORAN</b> COPPER &amp; GOLD</p>	<p>IW-23: WATER LEVELS, YIELD, SPECIFIC CAPACITY, BASINFILL SAT. THK. AND SULFATE</p>
	<p><b>VERSION DATE:</b> FEBRUARY, 2022</p>	<p>CADASTRAL: D-18-13 21CCB ADWR REG. NO.: 55-200555 DRILL YEAR: 2004</p>

**BasinWells Associates PLLC**





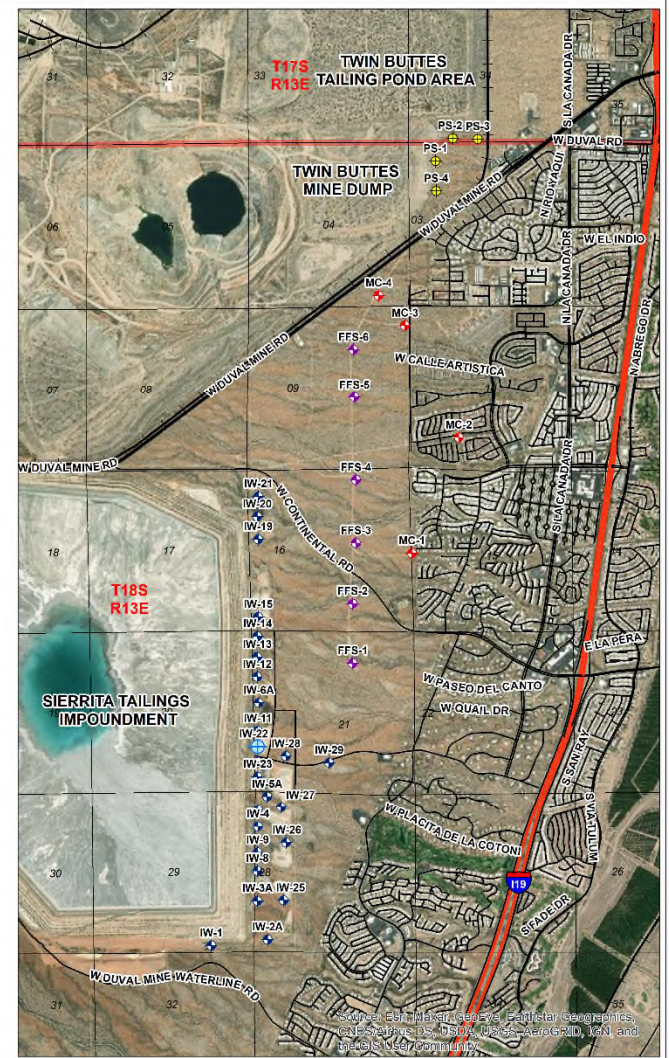
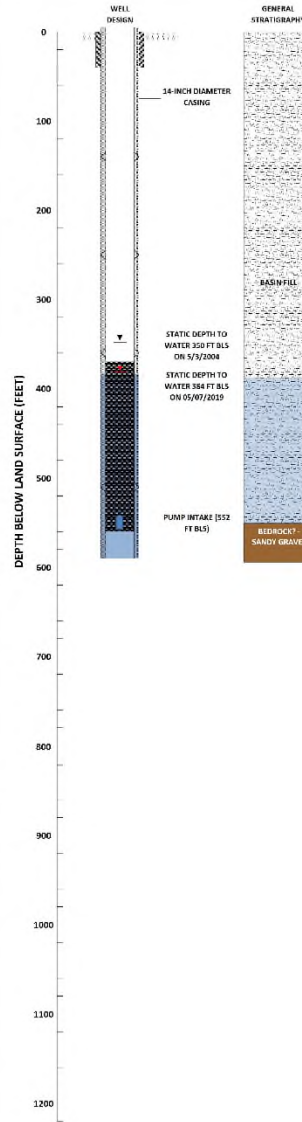
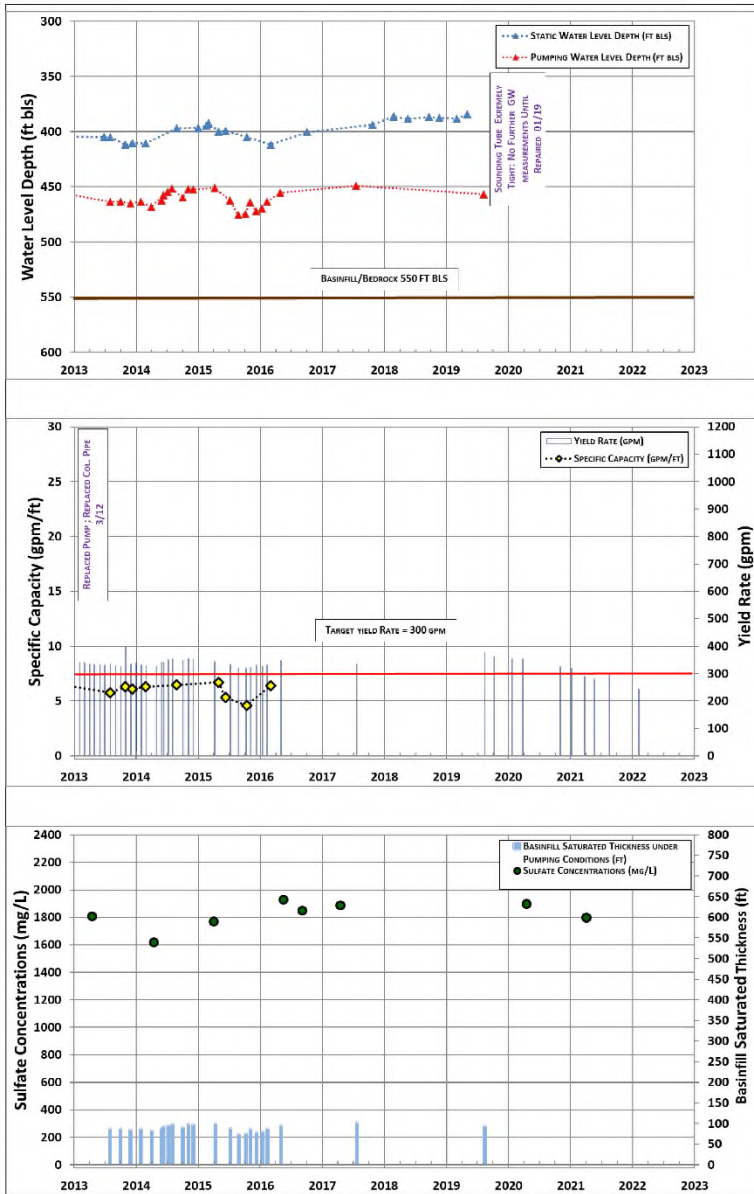
**BasinWells**  
ASSOCIATES PLLC  
SPECIALISTS IN GROUNDWATER DEVELOPMENT

**Freeport-McMoran**  
COPPER & GOLD  
  
**VERSION DATE:**  
**FEBRUARY, 2022**

IW-10: WATER LEVELS, YIELD,  
SPECIFIC CAPACITY, BASINFILL SAT.  
THK. AND SULFATE  
  
CADASTRAL: D-18-13 21CBC  
ADWR REG. NO.: 55-508237  
DRILL YEAR: 1984

**BasinWells Associates PLLC**

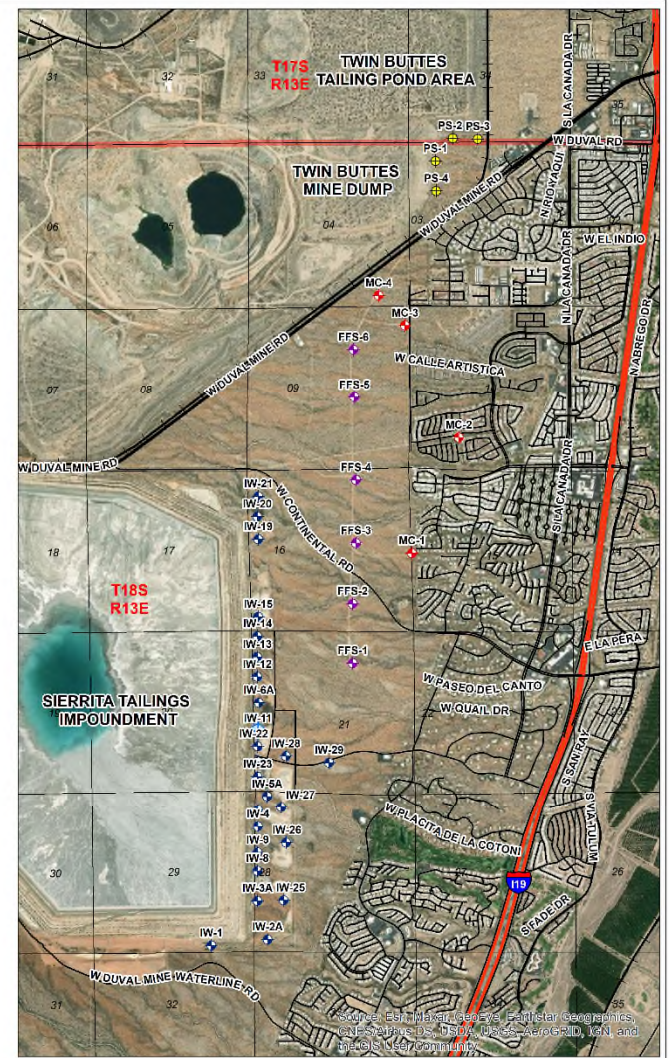
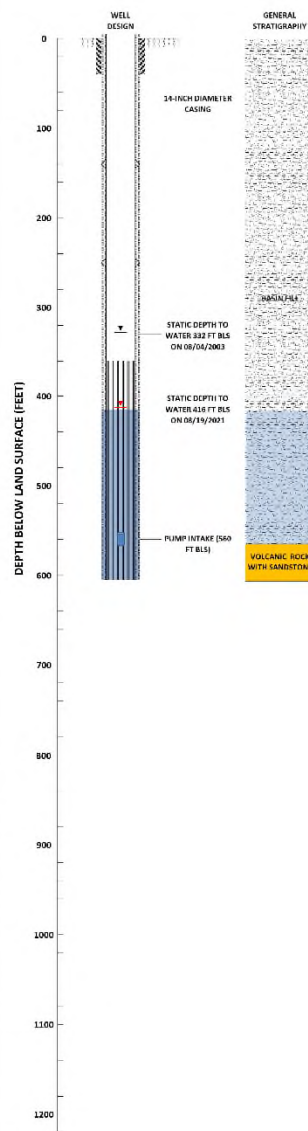
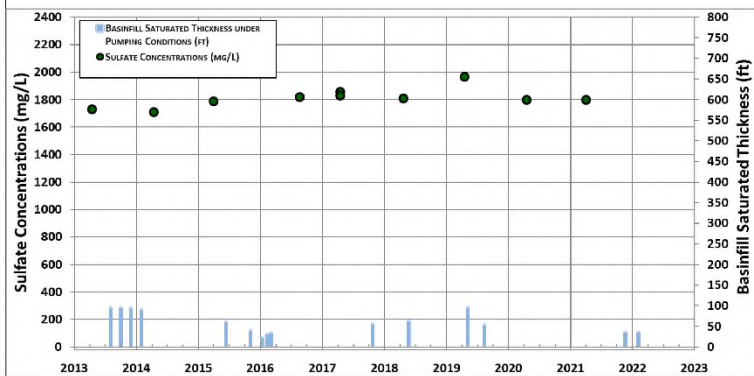
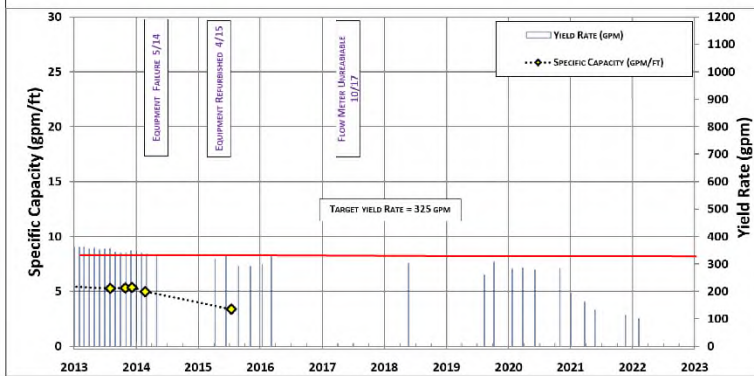
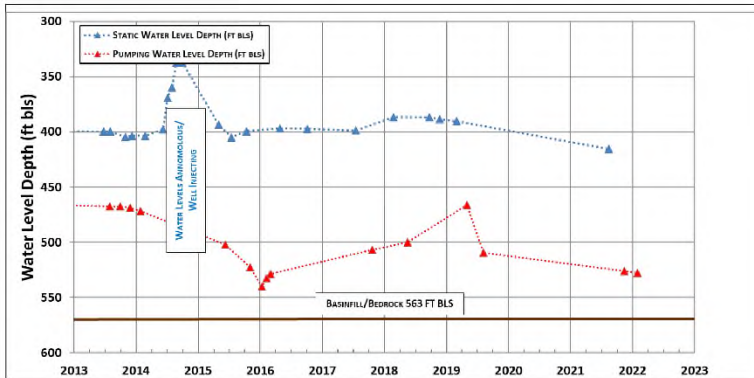




<p><b>BasinWells</b> ASSOCIATES PLLC <small>SPECIALISTS IN GOVERNANCE AND DEVELOPMENT</small></p>	<p><b>FREEPORT-McMoRAN</b> COPPER &amp; GOLD</p>	IW-22: WATER LEVELS, YIELD, SPECIFIC CAPACITY, BASINFILL SAT. THK. AND SULFATE
	<p><b>VERSION DATE:</b> FEBRUARY, 2022</p>	CADASTRAL: D-18-13 21CBC ADWR REG. NO.: 55-200554 DRILL YEAR: 2004

**BasinWells Associates PLLC**

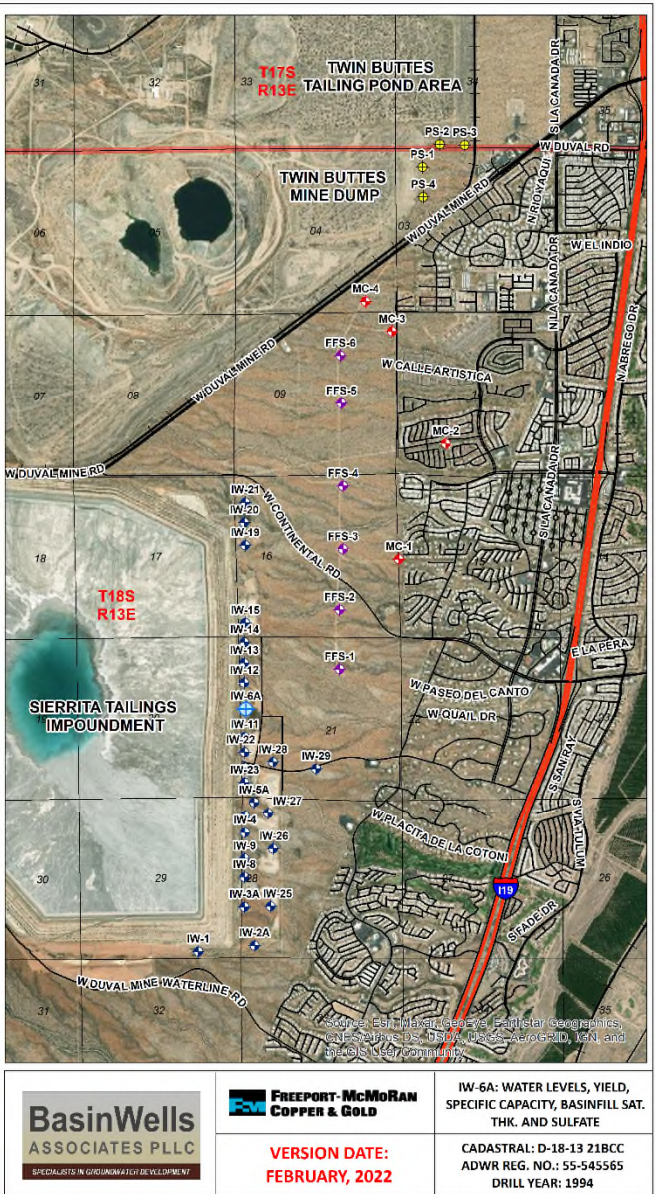
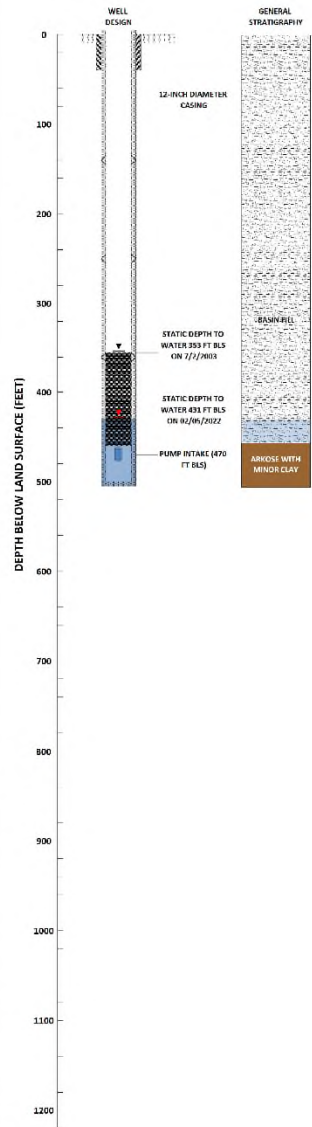
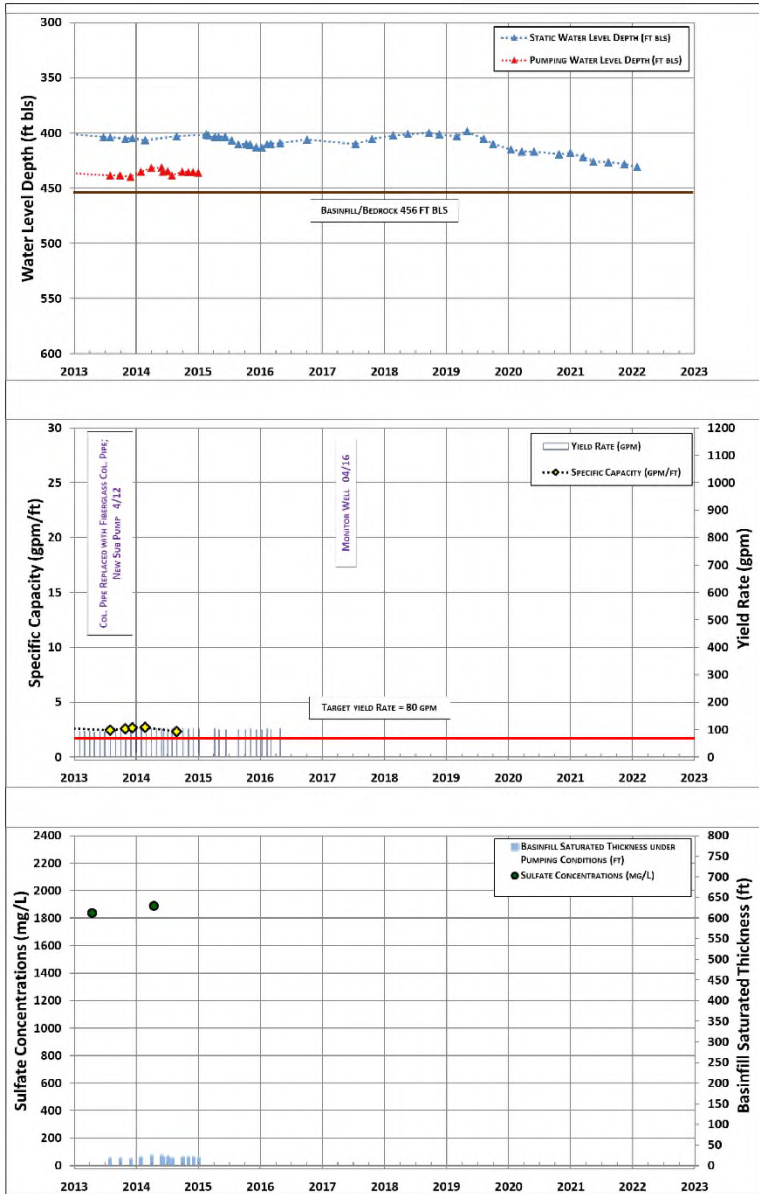




<p>SPECIALISTS IN GROUNDWATER DEVELOPMENT</p>		IW-11: WATER LEVELS, YIELD, SPECIFIC CAPACITY, BASINFILL SAT. THK. AND SULFATE
	<p><b>VERSION DATE:</b> <b>FEBRUARY, 2022</b></p>	CADASTRAL: D-18-13 21CBC ADWR REG. NO.: 55-508235 DRILL YEAR: 1984

**BasinWells Associates PLLC**

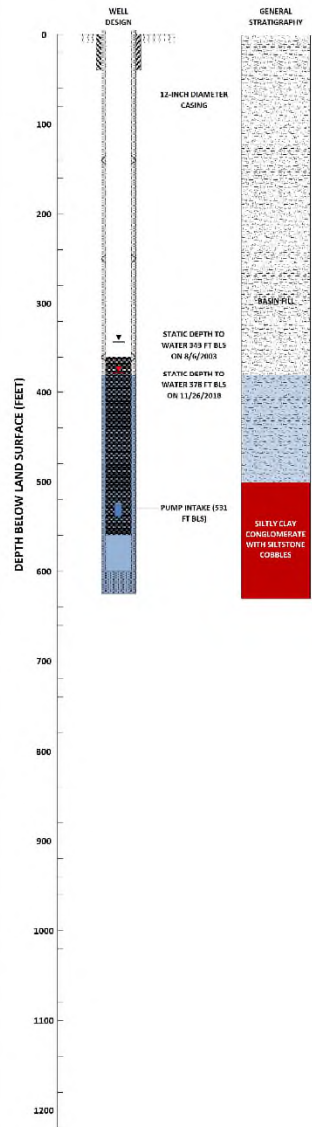
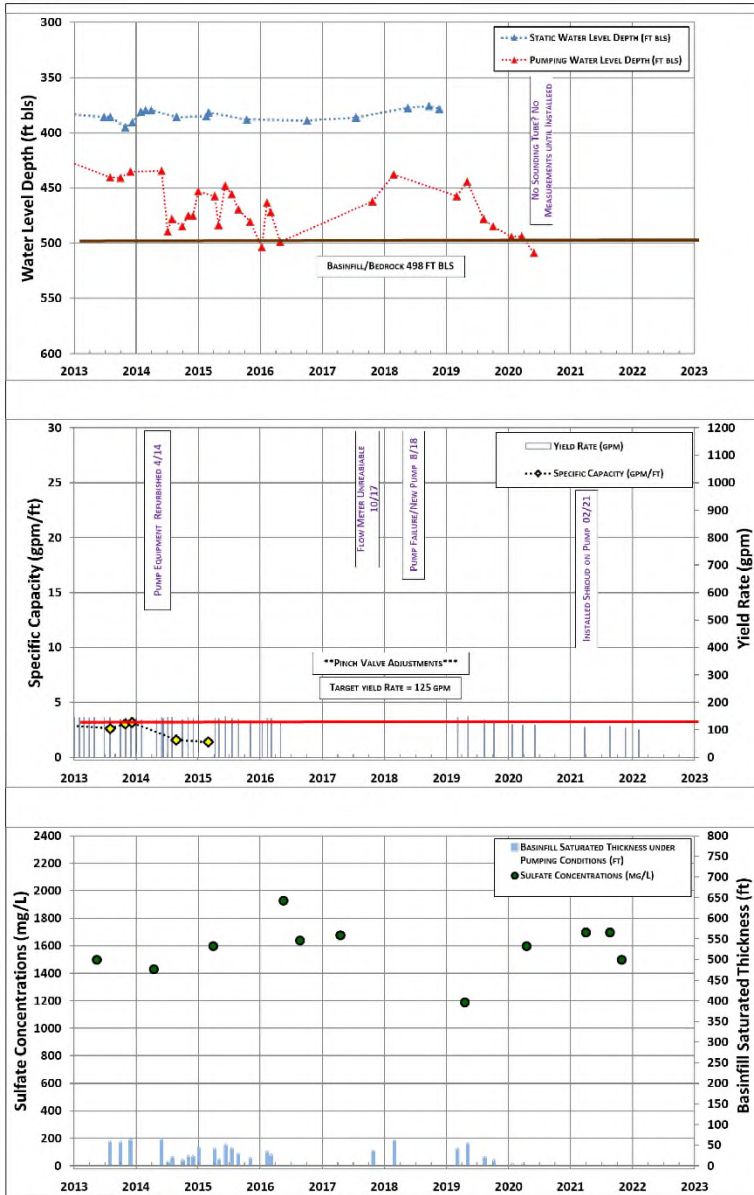




<p>BasinWells Associates PLLC SPECIALISTS IN GROUNDWATER DEVELOPMENT</p>	<p>Freeport-McMoRan Copper &amp; Gold</p> <p><b>VERSION DATE:</b> <b>FEBRUARY, 2022</b></p>	<p>IW-6A: WATER LEVELS, YIELD, SPECIFIC CAPACITY, BASINFILL SAT. THK. AND SULFATE</p> <p>CADASTRAL: D-18-13 21BCC ADWR REG. NO.: 55-545565 DRILL YEAR: 1994</p>
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**BasinWells Associates PLLC**

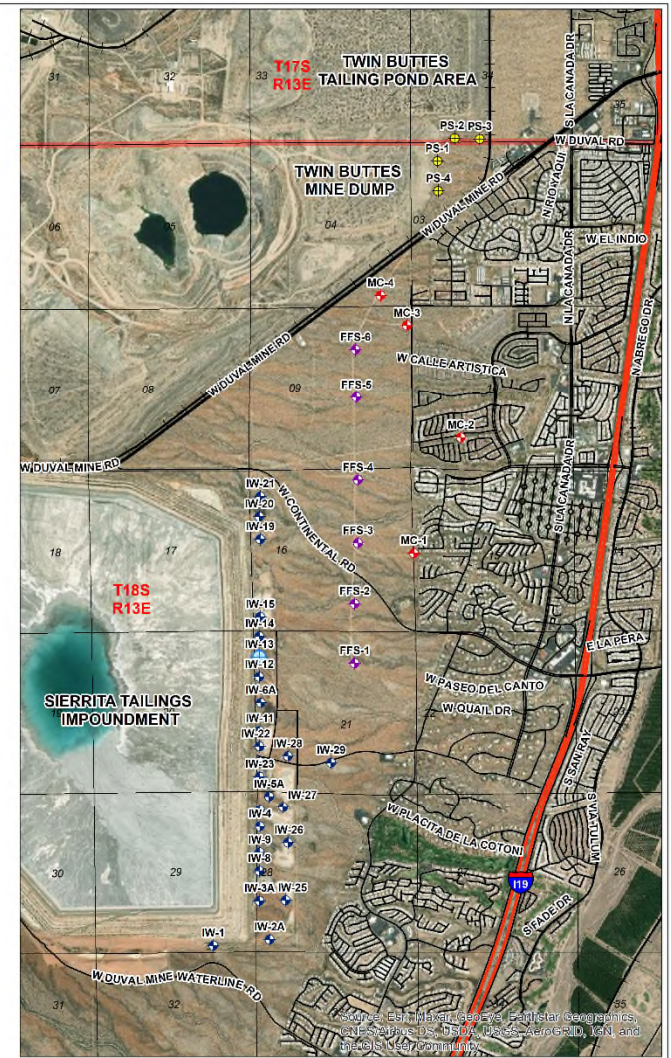
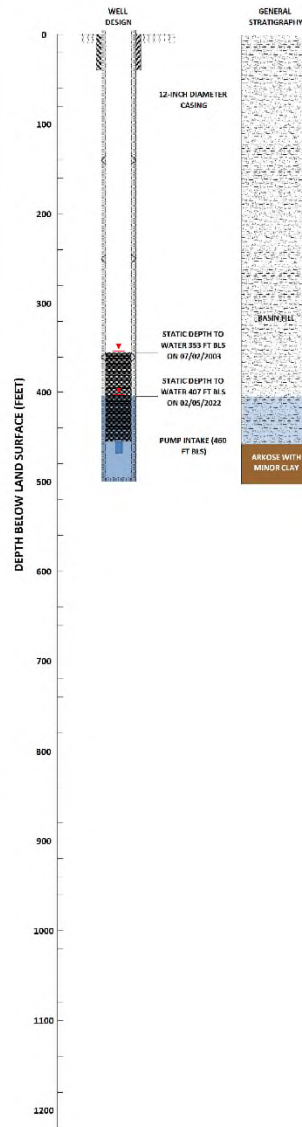
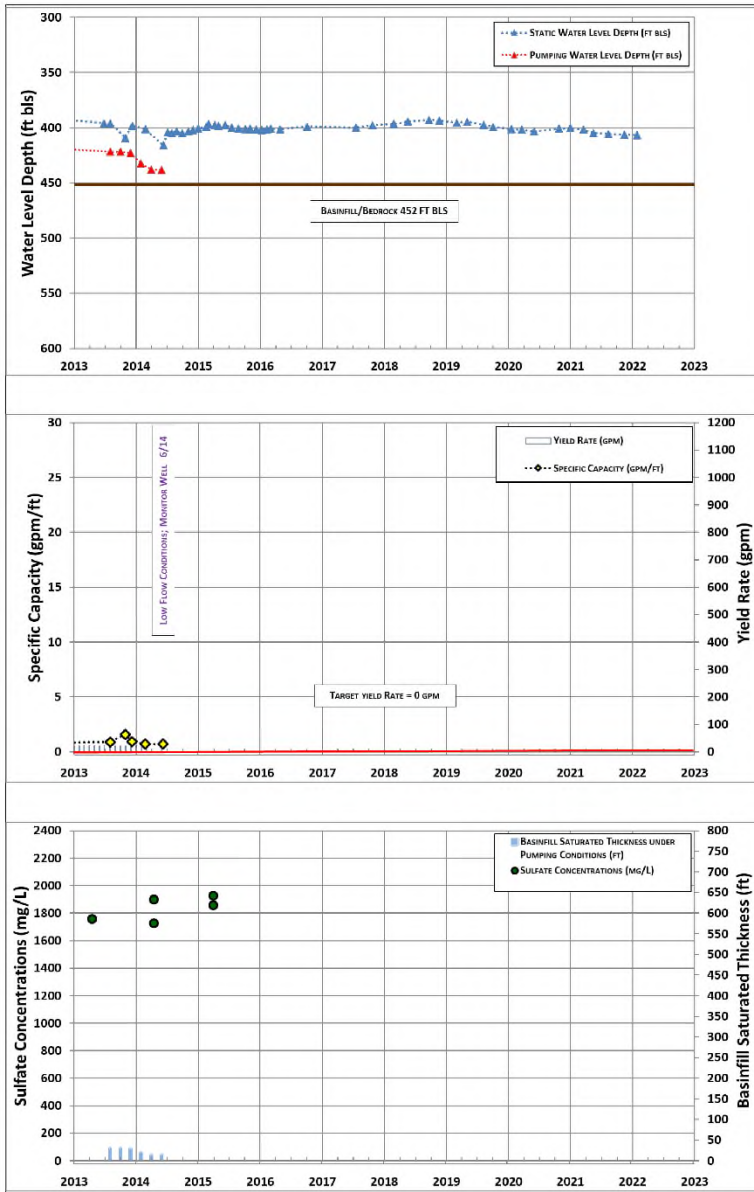




<p>SPECIALISTS IN GROUNDWATER DEVELOPMENT</p>		IW-12: WATER LEVELS, YIELD, SPECIFIC CAPACITY, BASINFILL SAT. THK. AND SULFATE
	VERSION DATE: <b>FEBRUARY, 2022</b>	CADASTRAL: D-18-13 21BCB ADWR REG. NO.: 55-545555 DRILL YEAR: 1994

**BasinWells Associates PLLC**

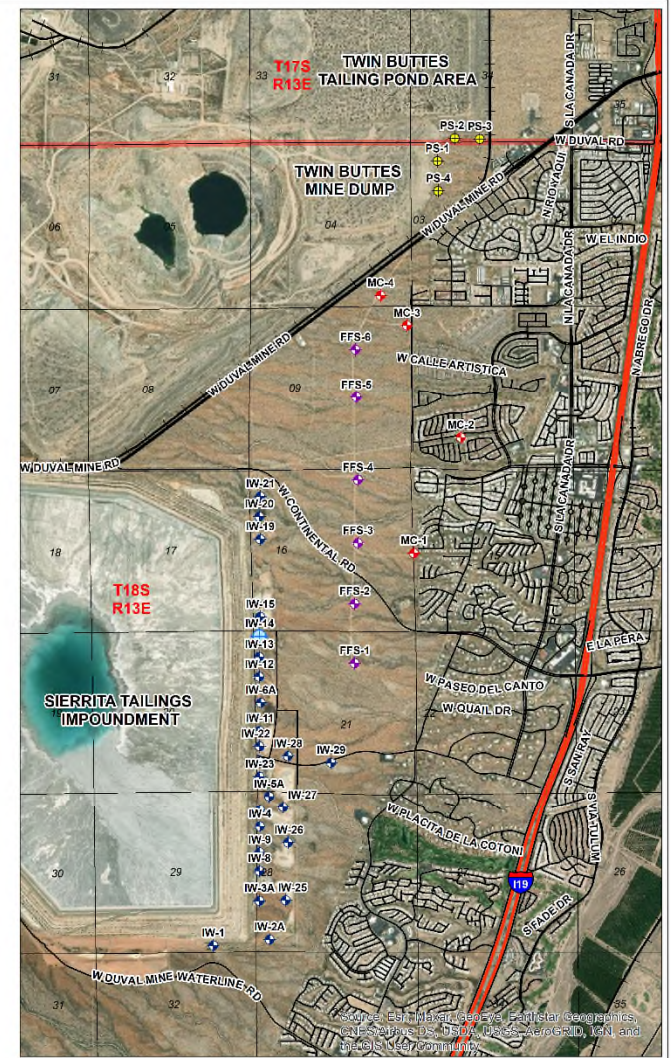
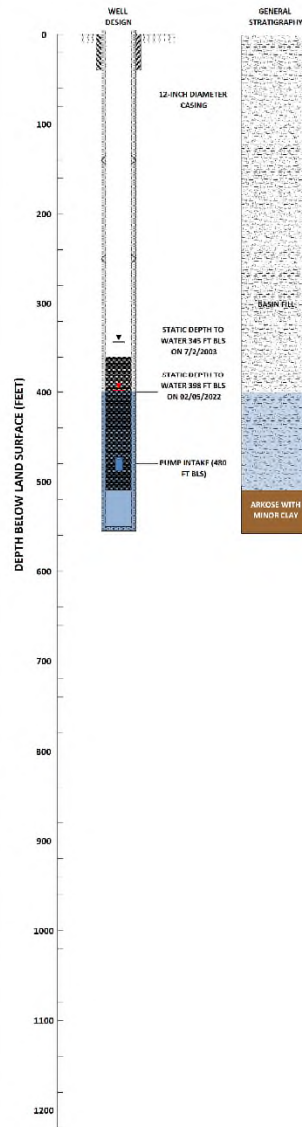
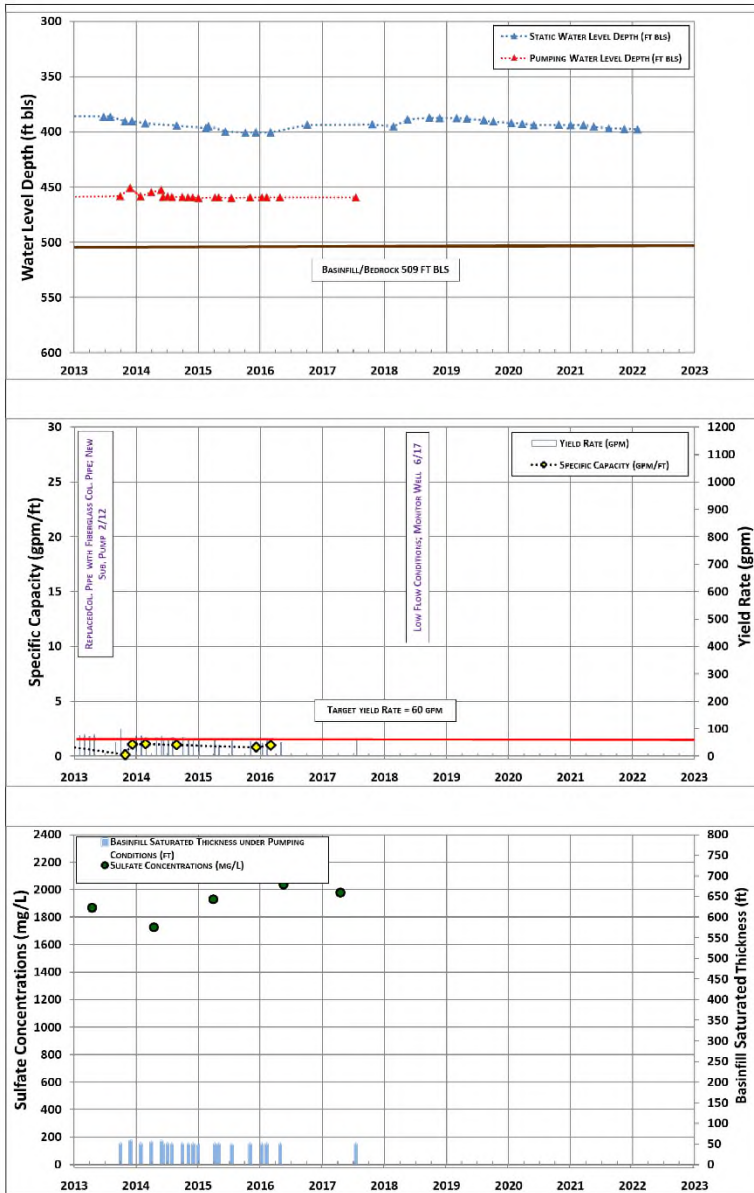




<p><b>BasinWells</b> ASSOCIATES PLLC <small>SPECIALISTS IN GOVERNANCE AND DEVELOPMENT</small></p>	<p><b>FREEPORT-McMoRAN</b> COPPER &amp; GOLD</p>	IW-13: WATER LEVELS, YIELD, SPECIFIC CAPACITY, BASINFILL SAT. THK. AND SULFATE
	<p><b>VERSION DATE:</b> FEBRUARY, 2022</p>	CADASTRAL: D-18-13 21BBC ADWR REG. NO.: 55-545556 DRILL YEAR: 1994

**BasinWells Associates PLLC**

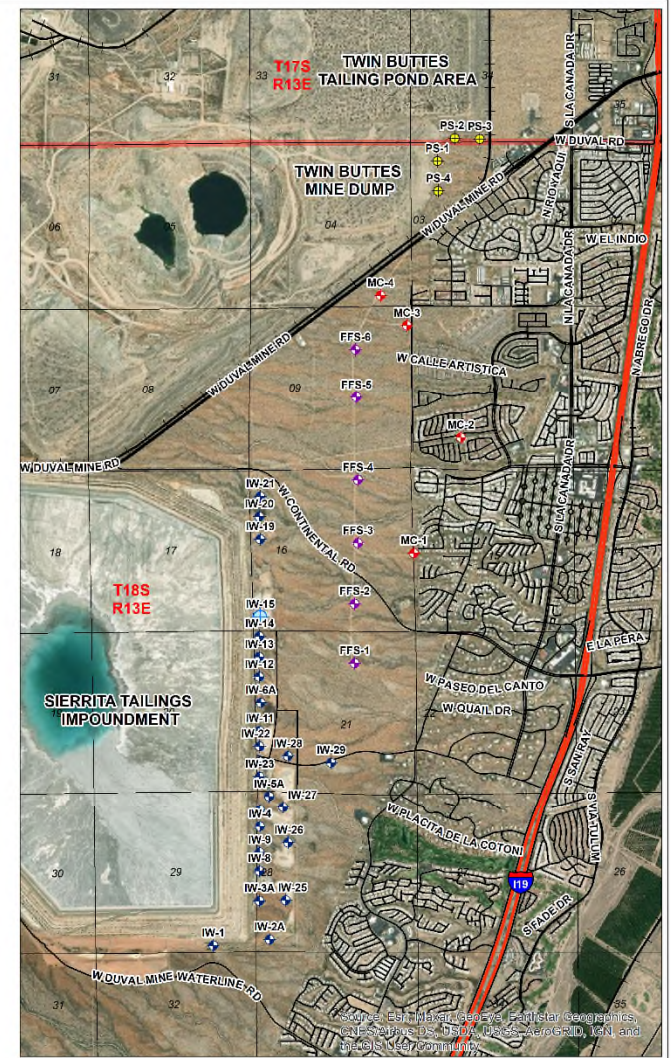
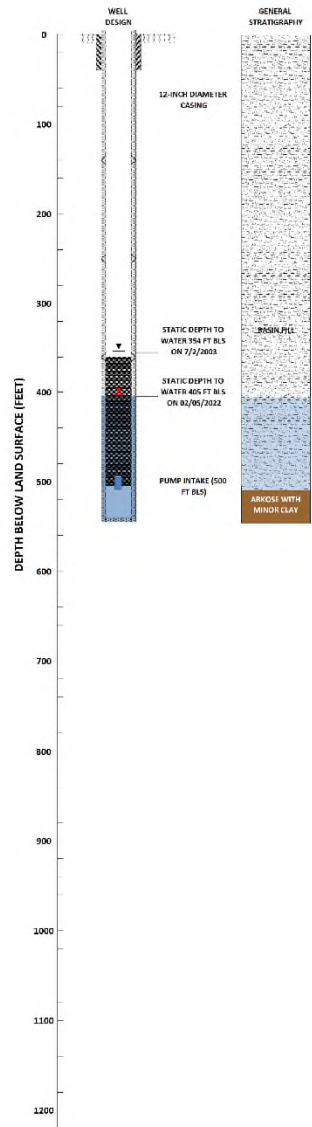
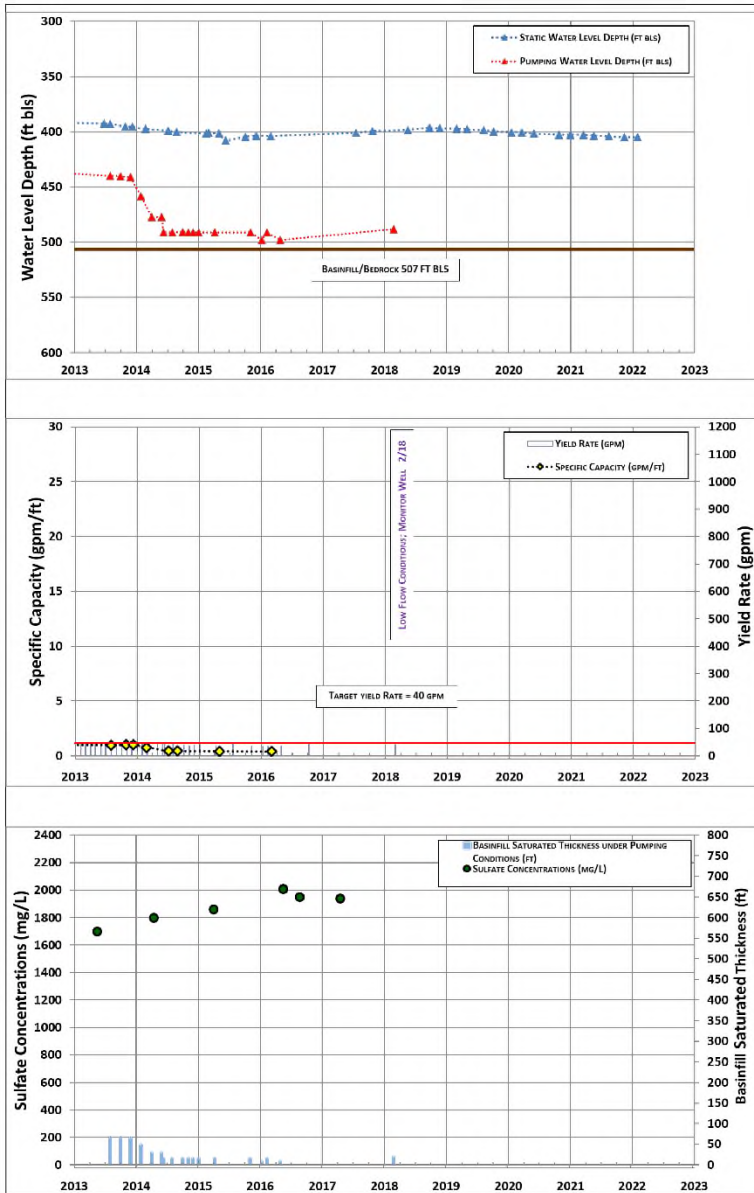




<p><b>BasinWells</b> ASSOCIATES PLLC <small>SPECIALISTS IN GOVERNANCE AND DEVELOPMENT</small></p>	<p><b>FREEPORT-McMoRAN</b> COPPER &amp; GOLD</p>	<p>IW-14: WATER LEVELS, YIELD, SPECIFIC CAPACITY, BASINFILL SAT. THK. AND SULFATE</p>
	<p><b>VERSION DATE:</b> FEBRUARY, 2022</p>	<p>CADASTRAL: D-18-13 218BB ADWR REG. NO.: 55-545557 DRILL YEAR: 1994</p>

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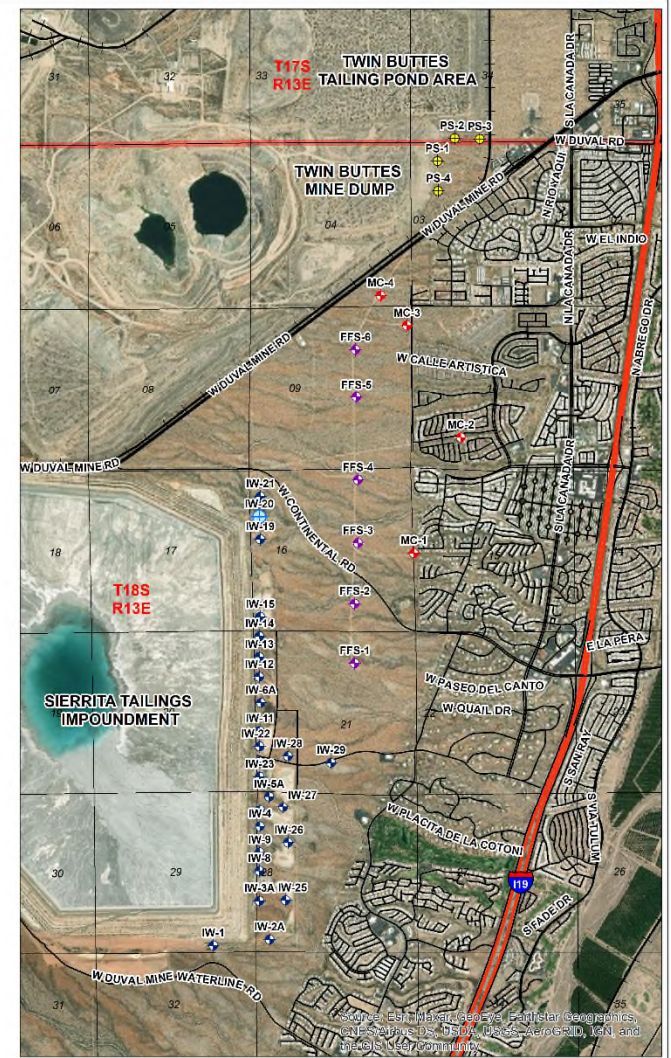
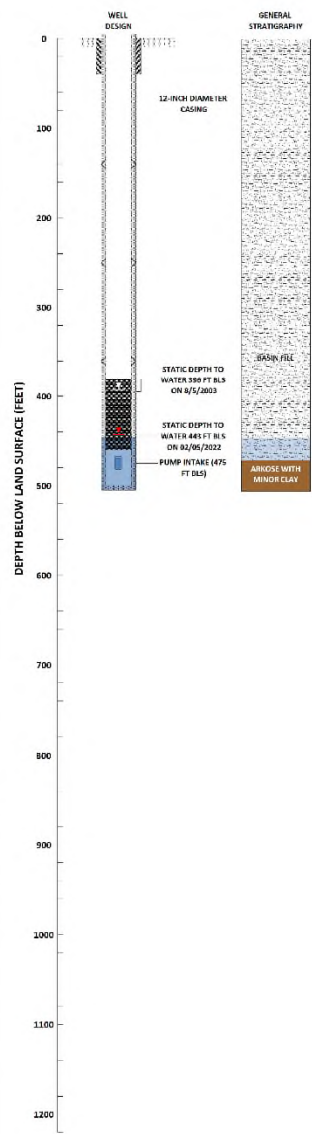
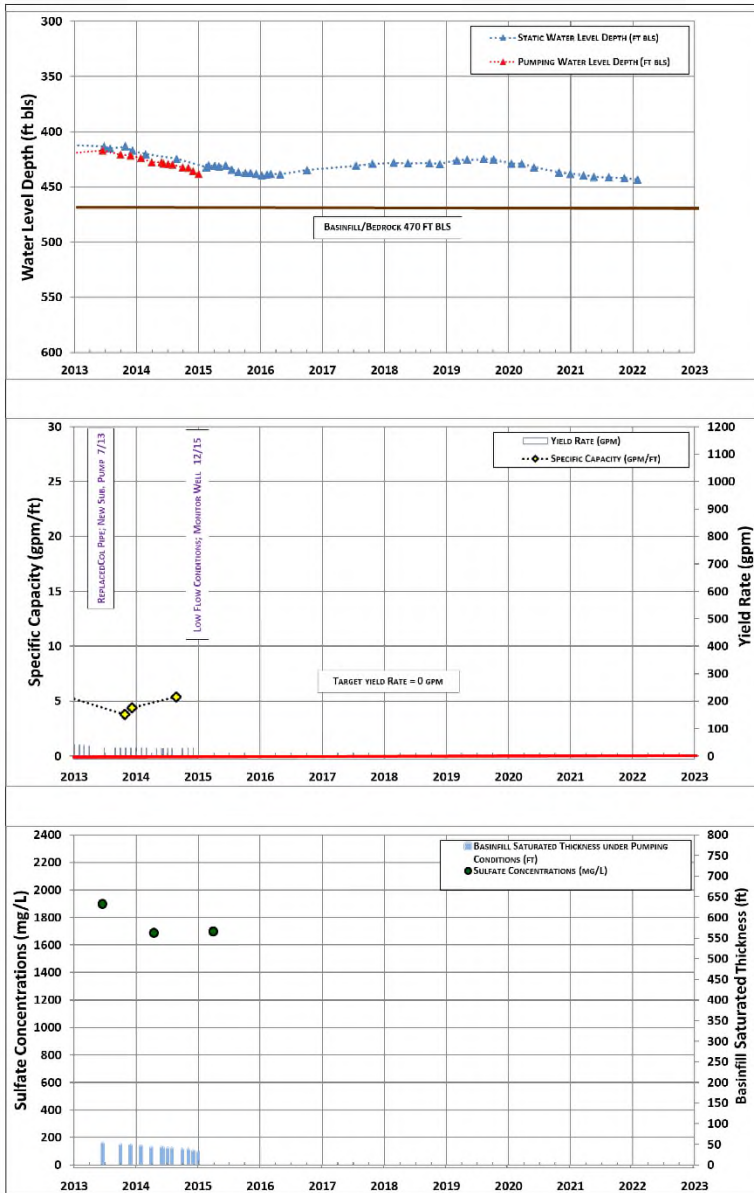
<p><b>BasinWells</b> ASSOCIATES PLLC <small>SPECIALISTS IN GOVERNANCE &amp; DEVELOPMENT</small></p>	<p><b>FREEPORT-McMoRAN</b> COPPER &amp; GOLD</p>	<p>IW-15: WATER LEVELS, YIELD, SPECIFIC CAPACITY, BASINFILL SAT. THK. AND SULFATE</p>
	<p><b>VERSION DATE:</b> FEBRUARY, 2022</p>	<p>CADASTRAL: D-18-13 16CCC ADWR REG. NO.: 55-545558 DRILL YEAR: 1995</p>

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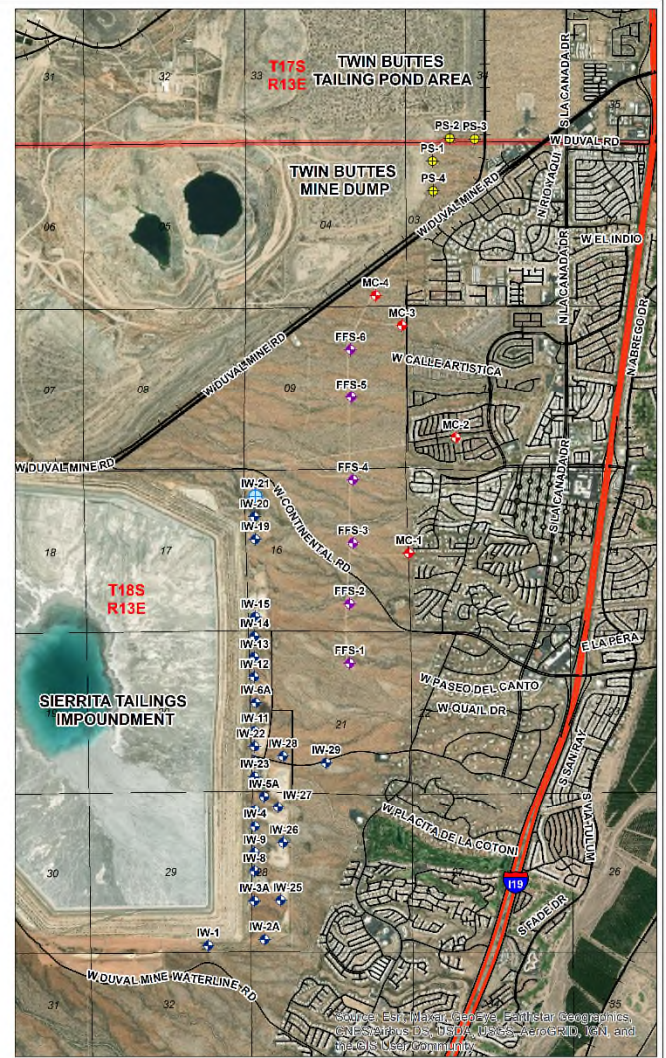
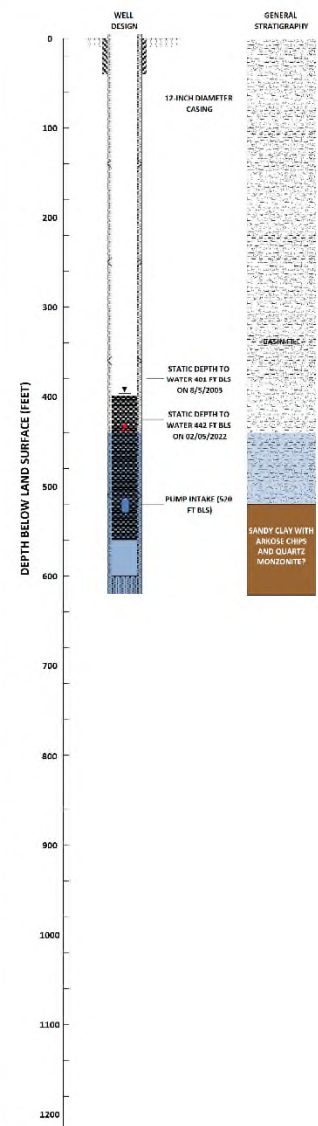
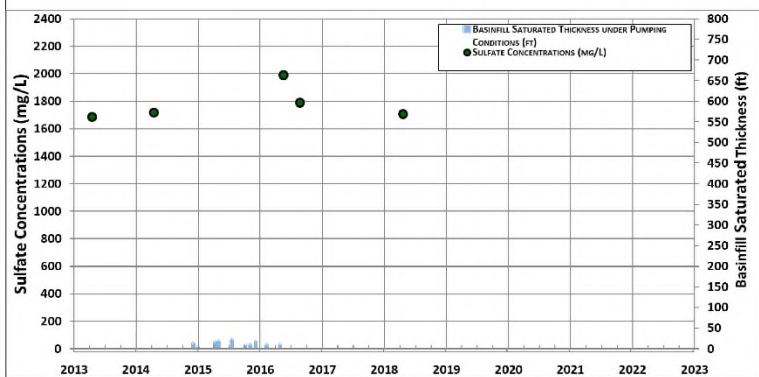
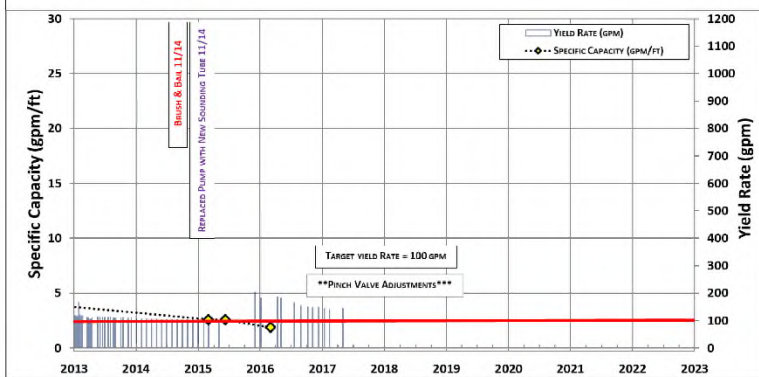
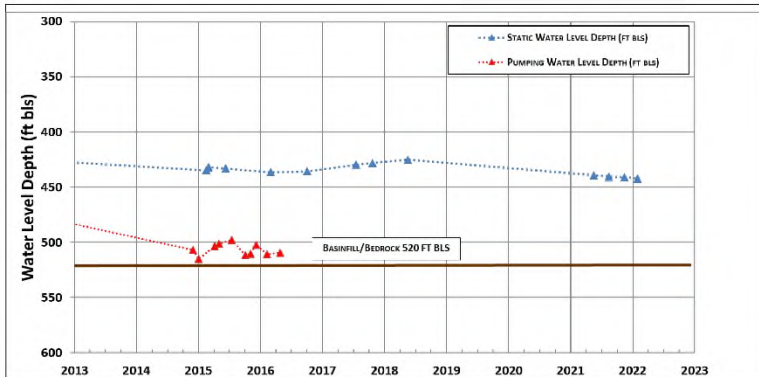




<p><b>BasinWells</b> ASSOCIATES PLLC <small>SPECIALISTS IN GROUNDWATER DEVELOPMENT</small></p>	<p><b>FREEPORT-McMoRAN</b> COPPER &amp; GOLD</p>	<p>IW-20: WATER LEVELS, YIELD, SPECIFIC CAPACITY, BASINFILL SAT. THK. AND SULFATE</p>
	<p><b>VERSION DATE:</b> FEBRUARY, 2022</p>	<p>CADASTRAL: D-18-13 168CB ADWR REG. NO.: 55-545563 DRILL YEAR: 1995</p>

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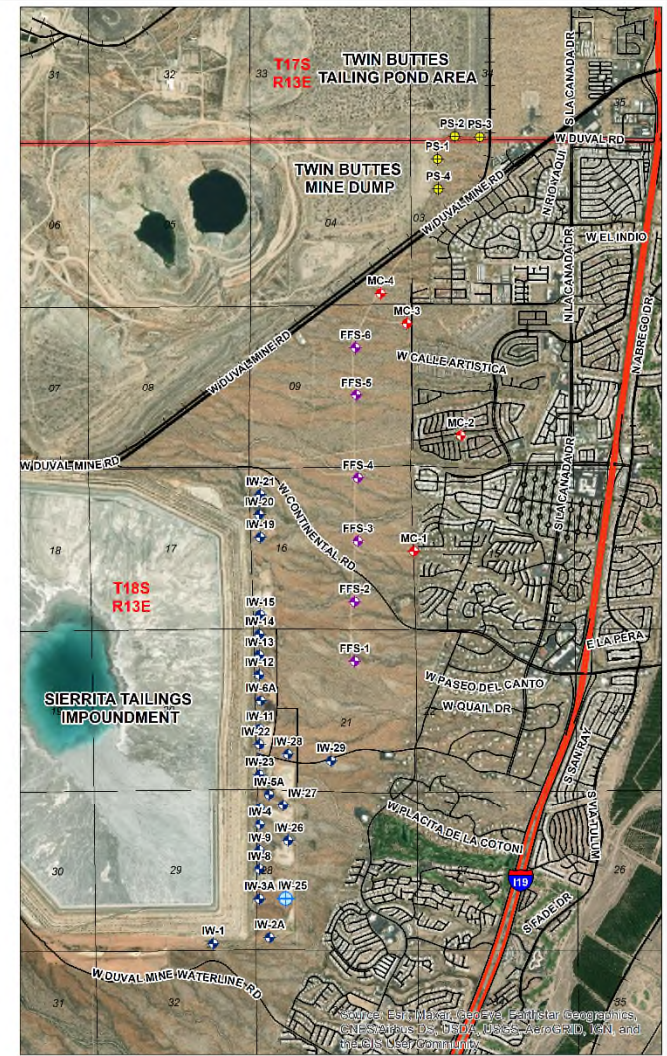
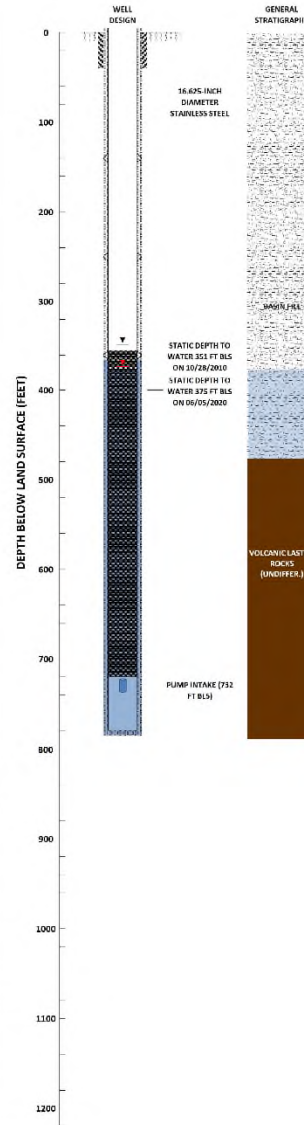
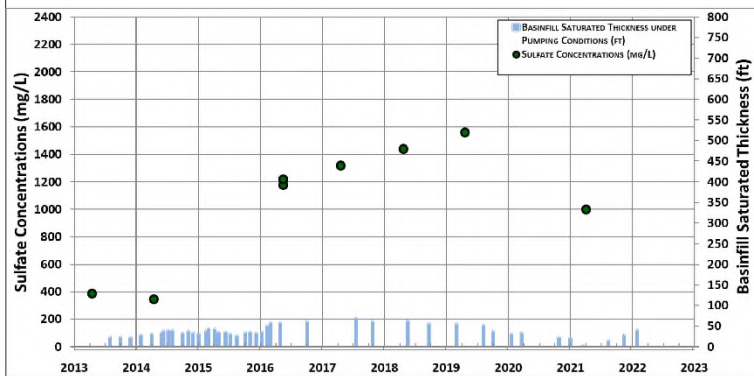
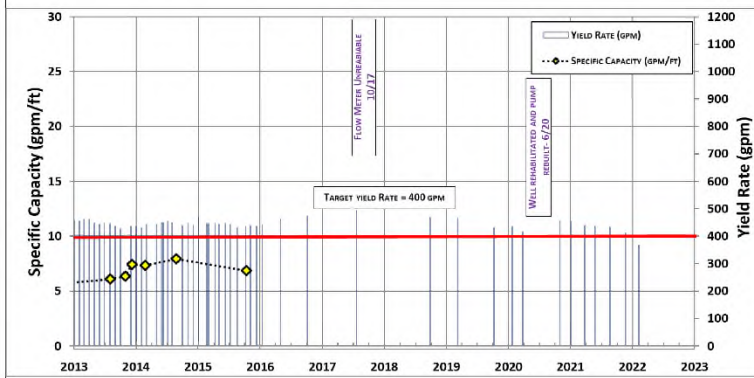
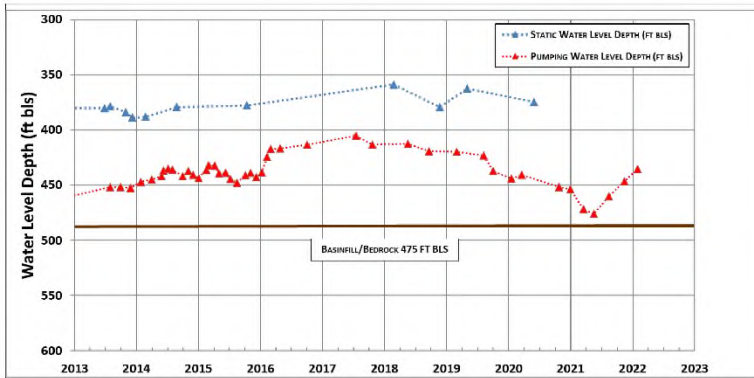




		IW-21: WATER LEVELS, YIELD, SPECIFIC CAPACITY, BASINFILL SAT. THK. AND SULFATE
	<b>VERSION DATE:</b> <b>FEBRUARY, 2022</b>	CADASTRAL: D-18-13 16BBC ADWR REG. NO.: 55-545564 DRILL YEAR: 1995

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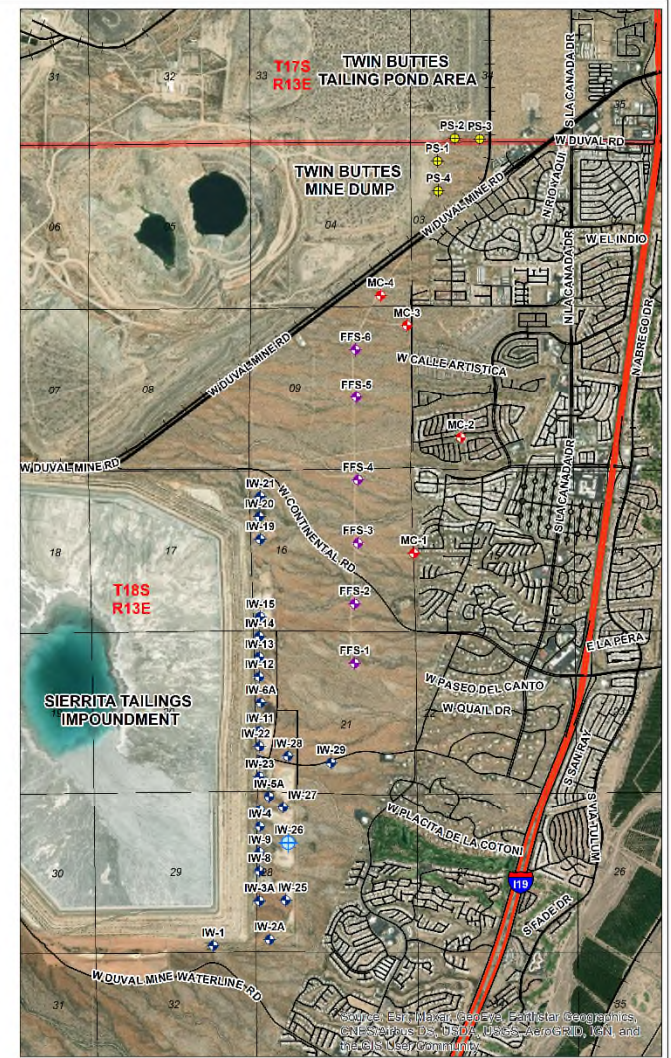
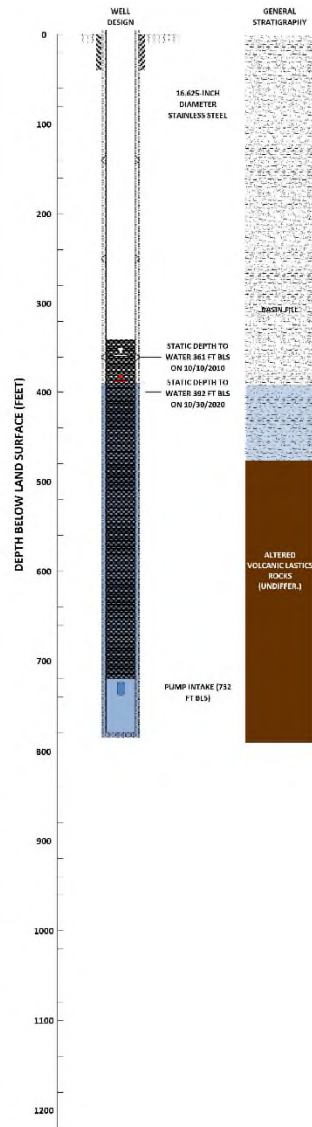
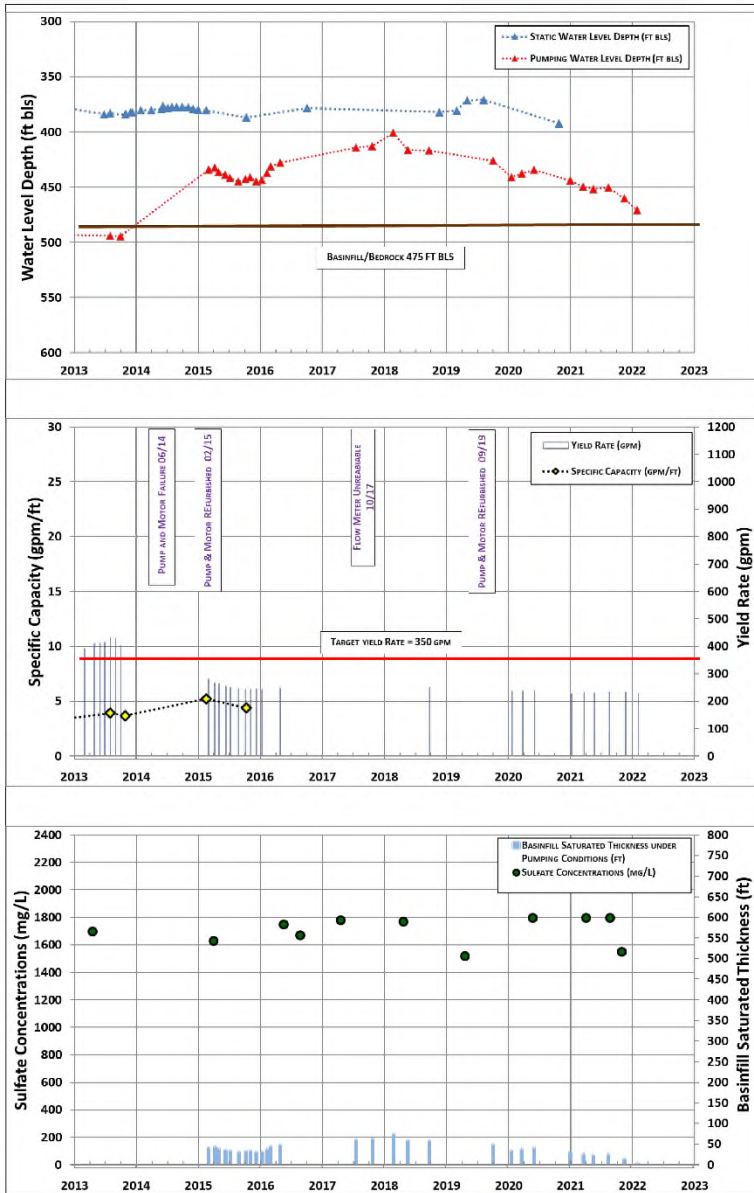




<p>SPECIALIZED MITIGATION FACILITIES DEVELOPMENT</p>		IW-25: WATER LEVELS, YIELD, SPECIFIC CAPACITY, BASINFILL SAT. THK. AND SULFATE  CADASTRAL: D-18-13 28CBD ADWR REG. NO.: 55-219596 DRILL YEAR: 2010
	<p><b>VERSION DATE:</b> <b>FEBRUARY, 2022</b></p>	

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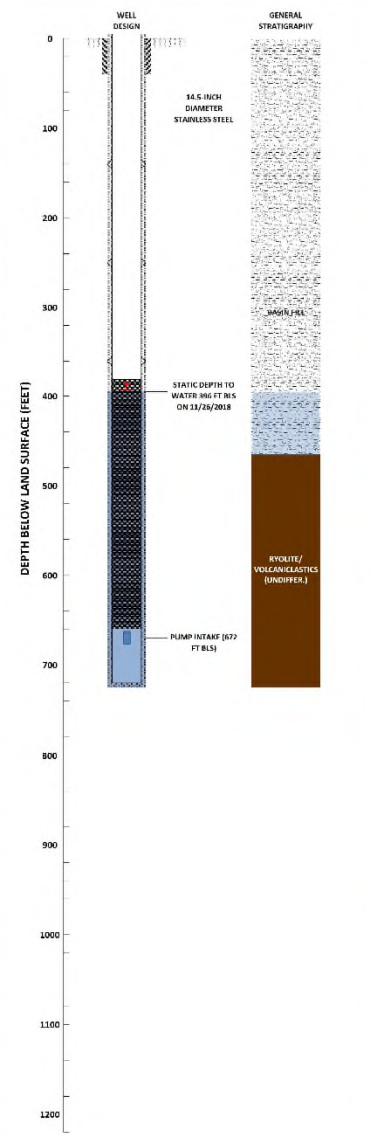
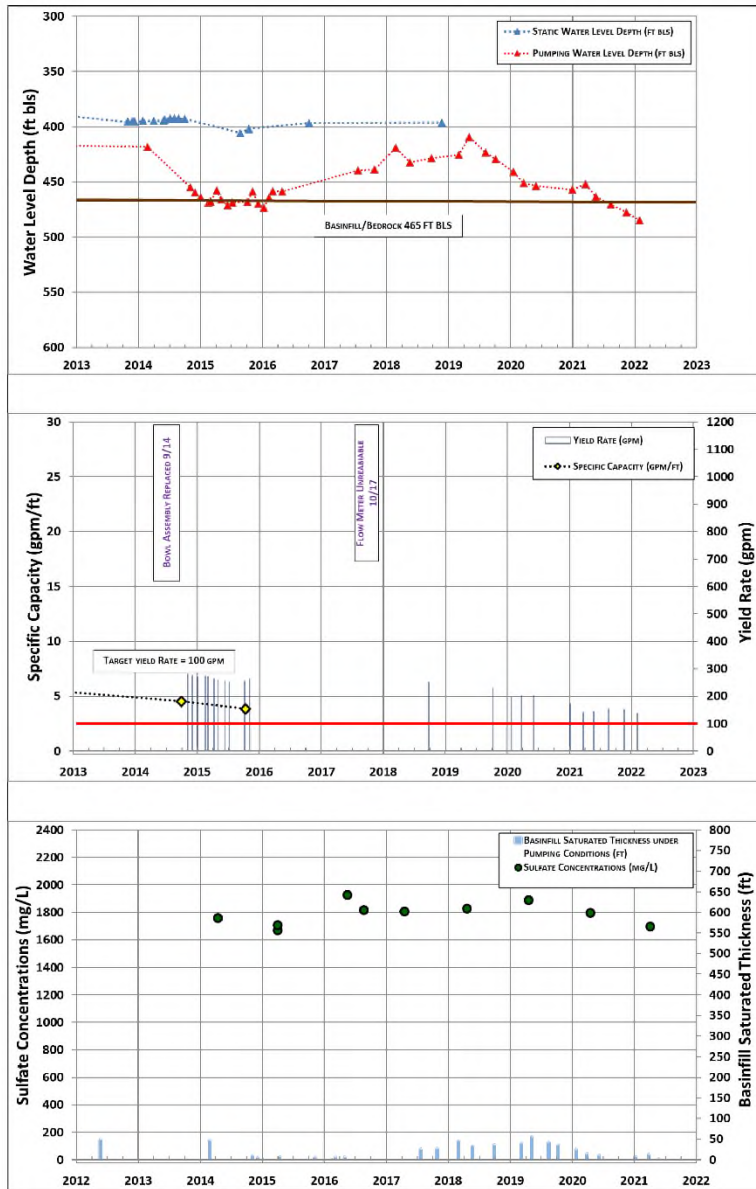




<p><b>BasinWells</b> ASSOCIATES PLLC <small>SPECIALISTS IN GROUNDWATER DEVELOPMENT</small></p>	<p><b>FREEPORT-McMoRan</b> COPPER &amp; GOLD</p>	<p>IW-26: WATER LEVELS, YIELD, SPECIFIC CAPACITY, BASINFILL SAT. THK. AND SULFATE</p>
	<p><b>VERSION DATE:</b> FEBRUARY, 2022</p>	<p>CADASTRAL: D-18-13 28BCD ADWR REG. NO.: 55-219143 DRILL YEAR: 2010</p>

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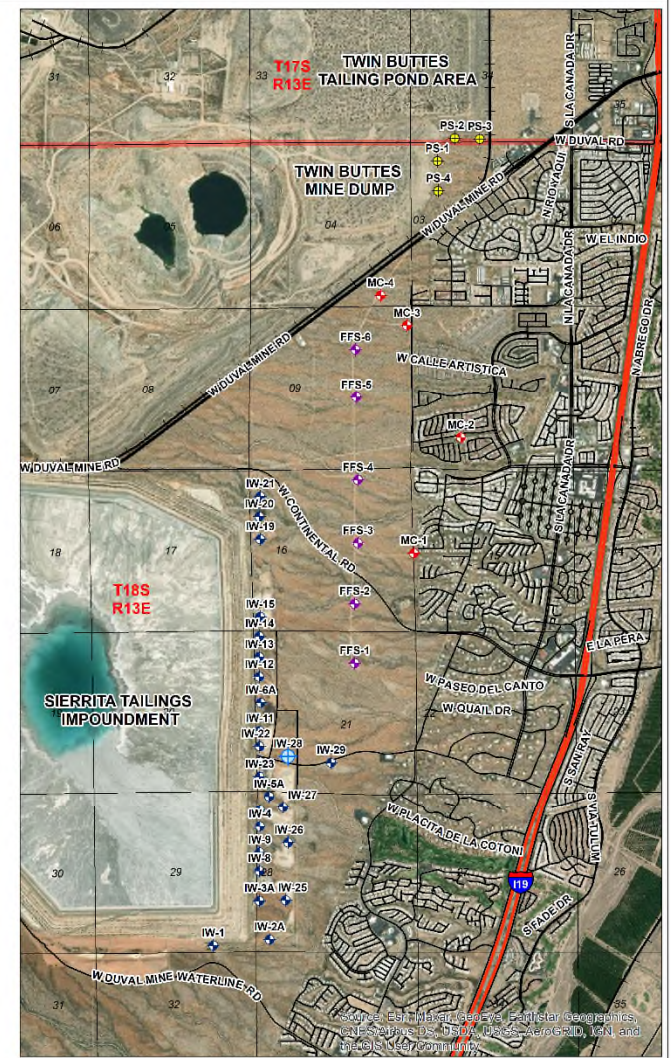
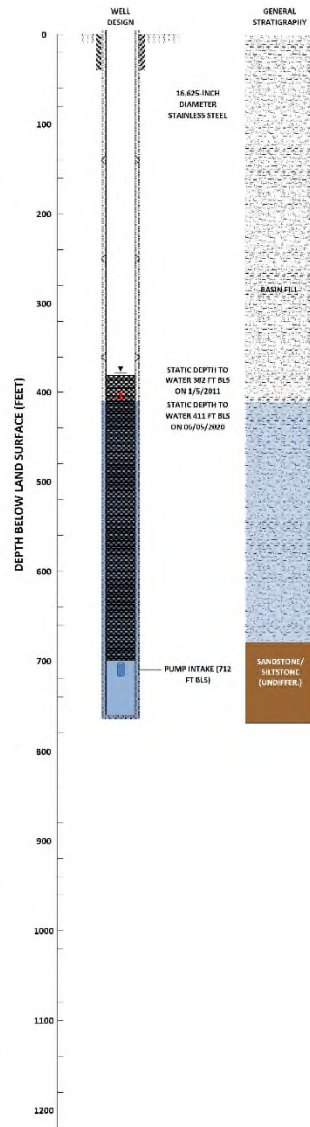
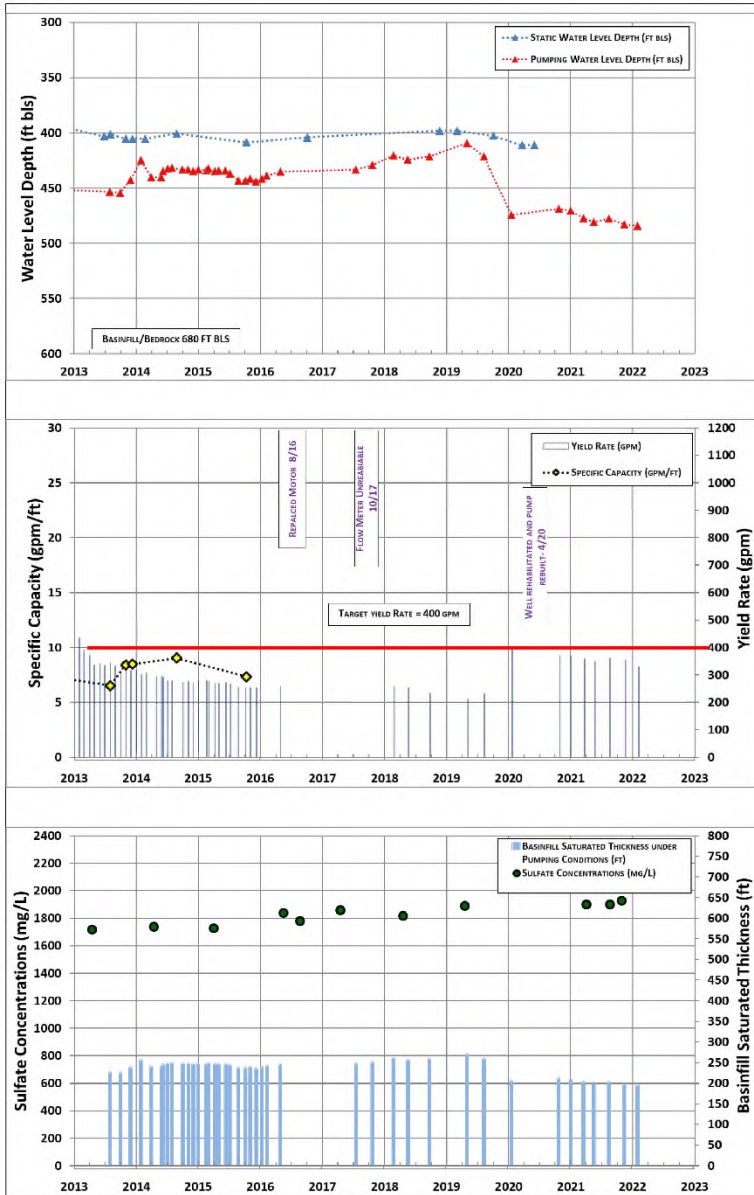




 <p><b>BasinWells</b> ASSOCIATES PLLC <small>SPECIALISTS IN GROUNDWATER DEVELOPMENT</small></p>		<p>IW-27: WATER LEVELS, YIELD, SPECIFIC CAPACITY, BASINFILL SAT. THK. AND SULFATE</p>
	<p><b>VERSION DATE:</b> FEBRUARY, 2022</p>	<p>CADASTRAL: D-18-13 288BD ADWR REG. NO.: 55-219136 DRILL YEAR: 2010</p>

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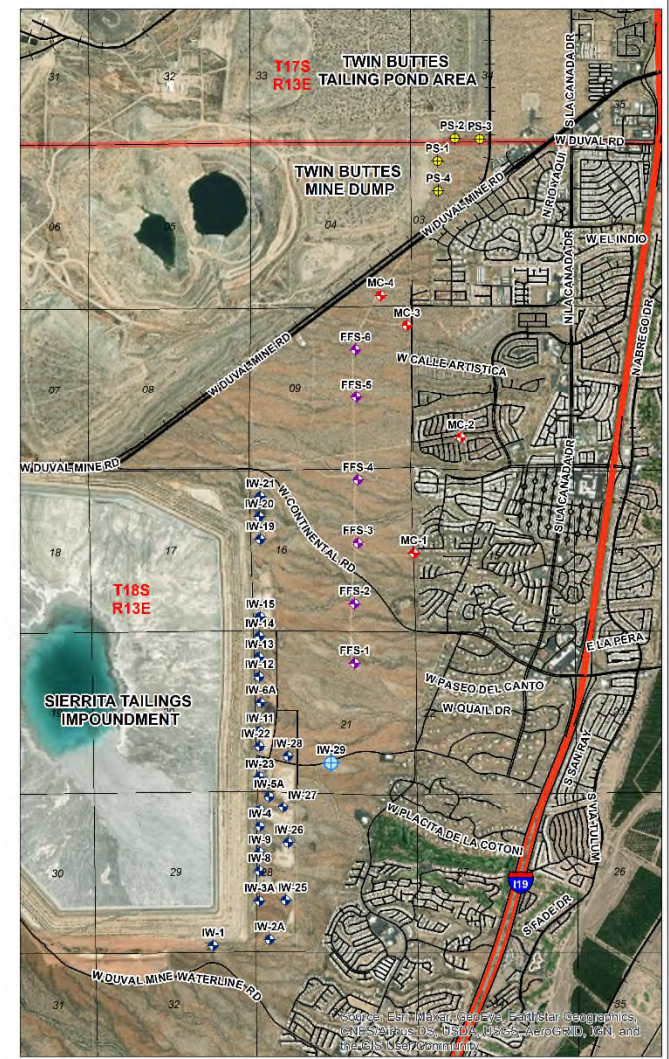
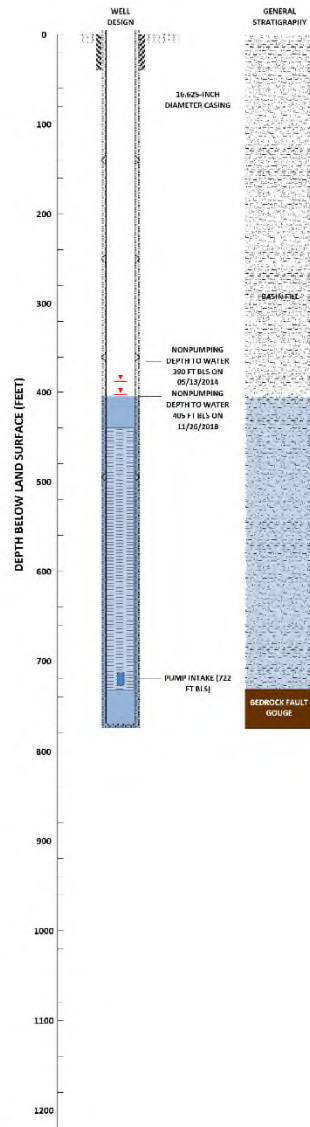
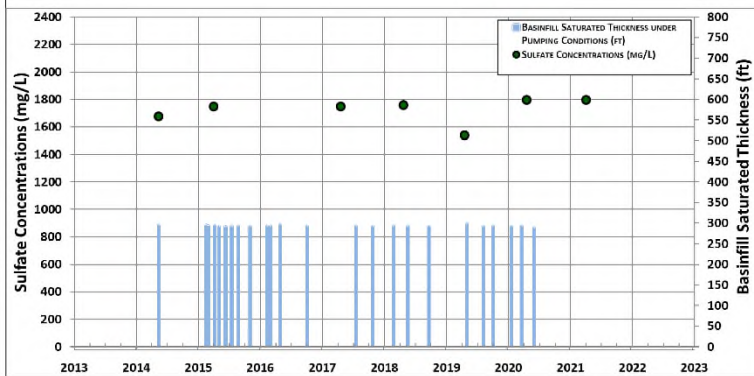
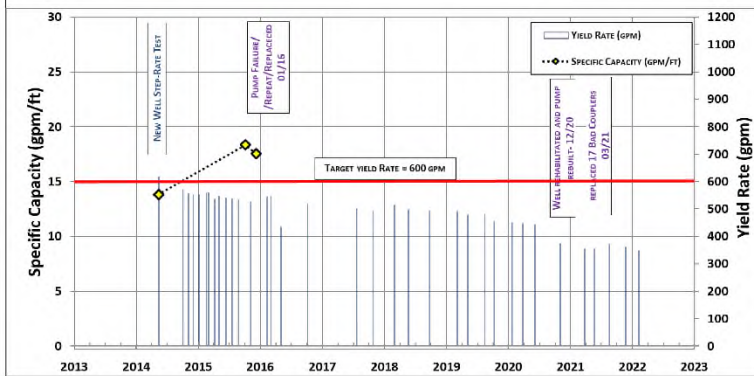
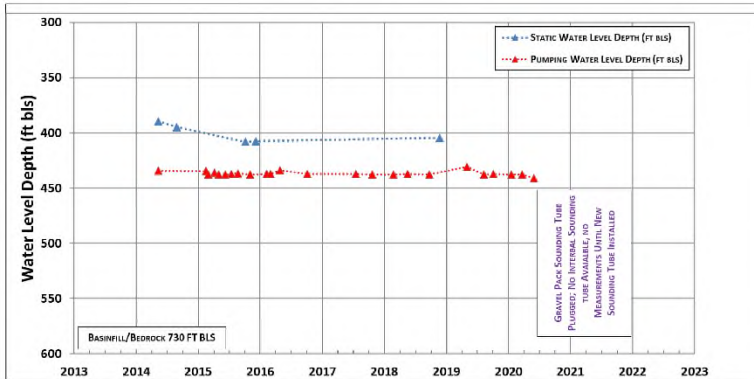




<p><b>BasinWells ASSOCIATES PLLC</b> SPECIALISTS IN GROUNDWATER DEVELOPMENT</p>	<p><b>FREEPORT-McMORAN COPPER &amp; GOLD</b></p>	<p>IW-28: WATER LEVELS, YIELD, SPECIFIC CAPACITY, BASINFILL SAT. THK. AND SULFATE</p>
	<p>VERSION DATE: <b>FEBRUARY, 2022</b></p>	<p>CADASTRAL: D-18-13 21CCA ADWR REG. NO.: 55-219137 DRILL YEAR: 2010</p>

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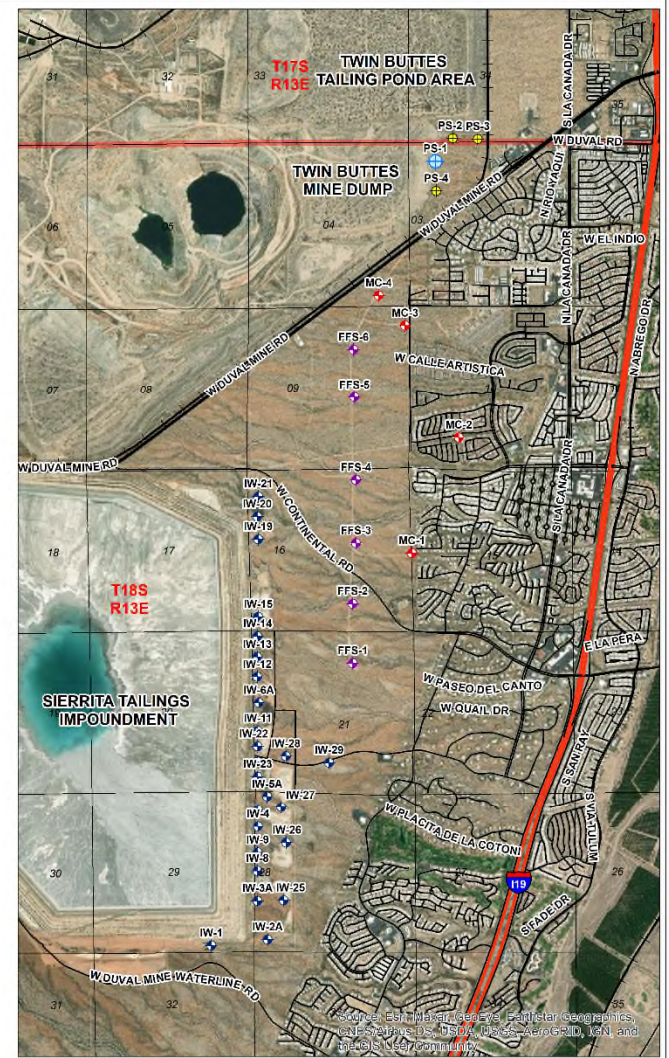
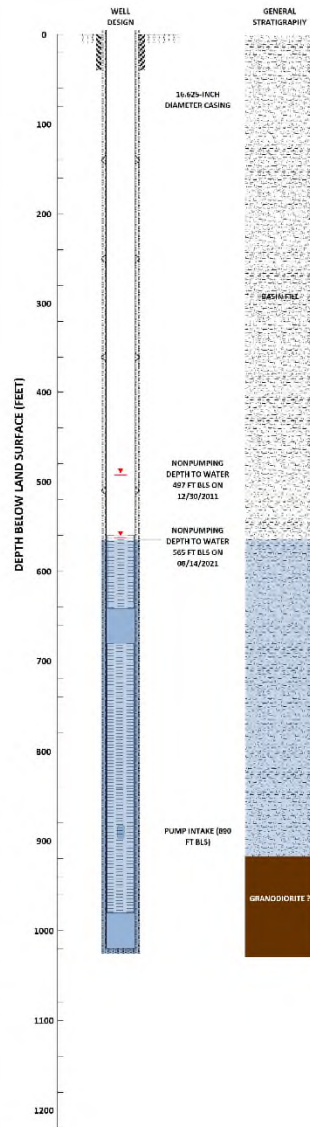
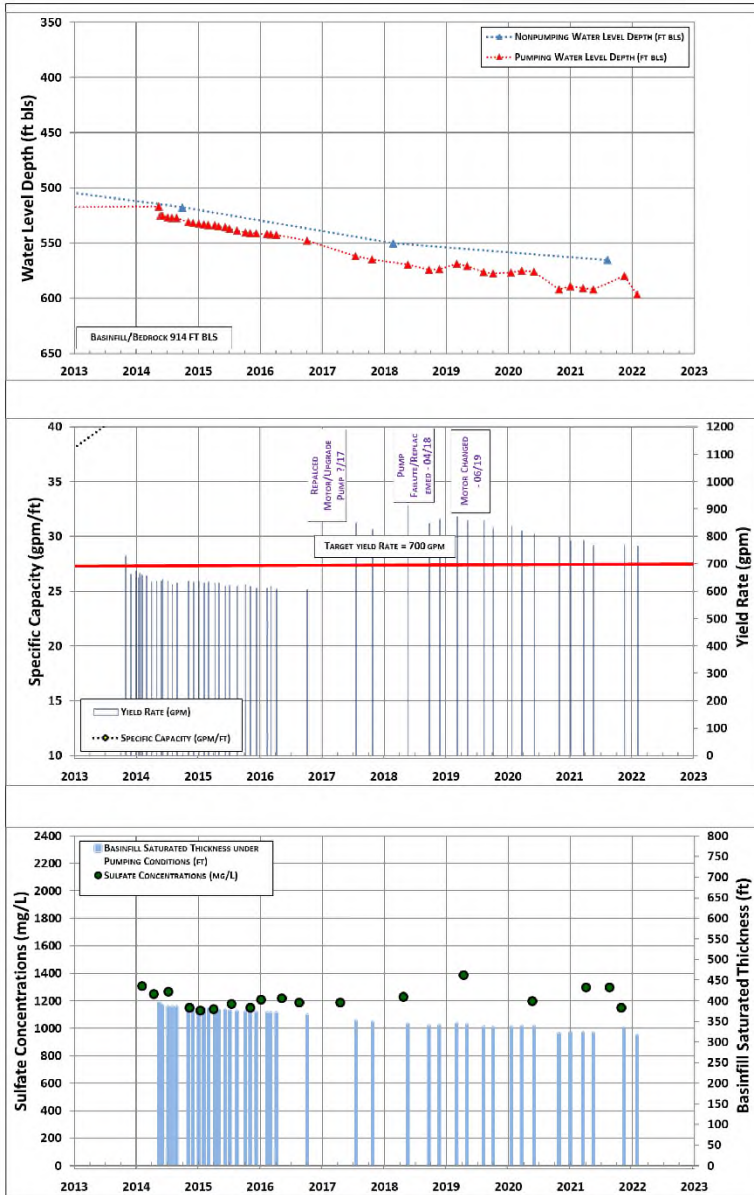
**BasinWells**  
ASSOCIATES PLLC  
SPECIALISTS IN GROUNDWATER DEVELOPMENT

**Freeport-McMoran**  
COPPER & GOLD  
  
VERSION DATE:  
FEBRUARY, 2022

IW-29: WATER LEVELS, YIELD,  
SPECIFIC CAPACITY, BASINFILL SAT.  
THK. AND SULFATE  
  
CADASTRAL: D-18-13 21CDA  
ADWR REG. NO.: 55-222865  
DRILL YEAR: 2014

**BasinWells Associates PLLC**

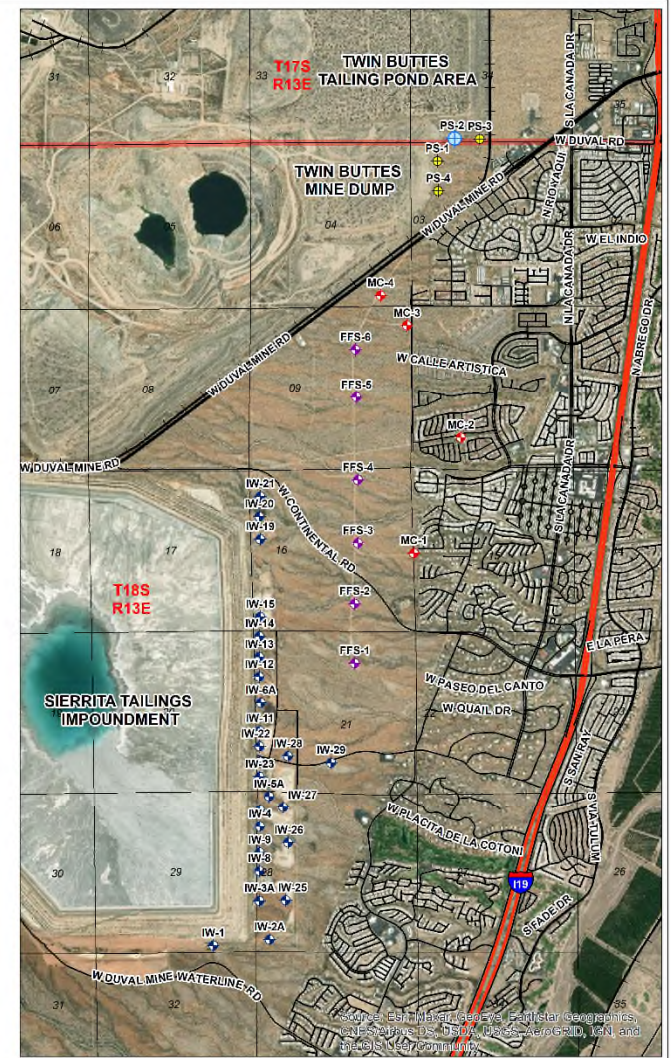
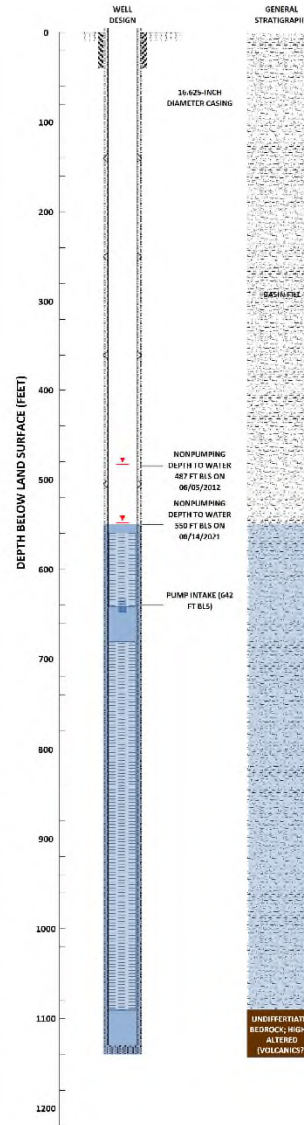
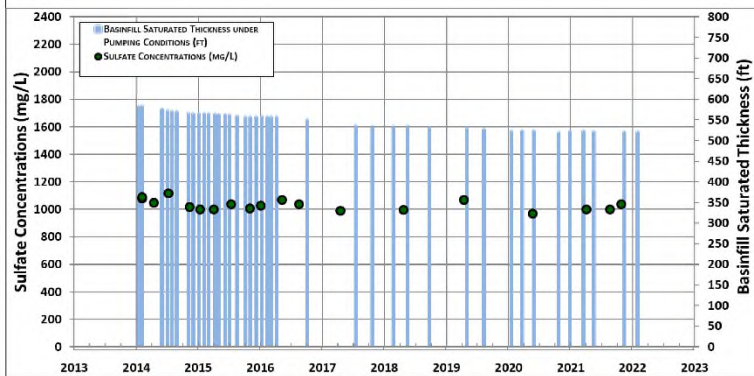
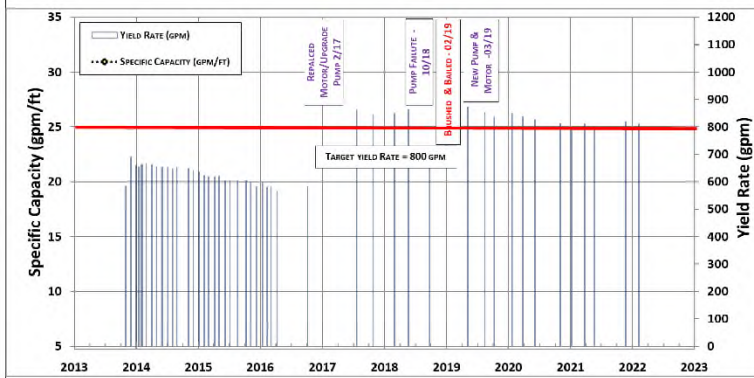
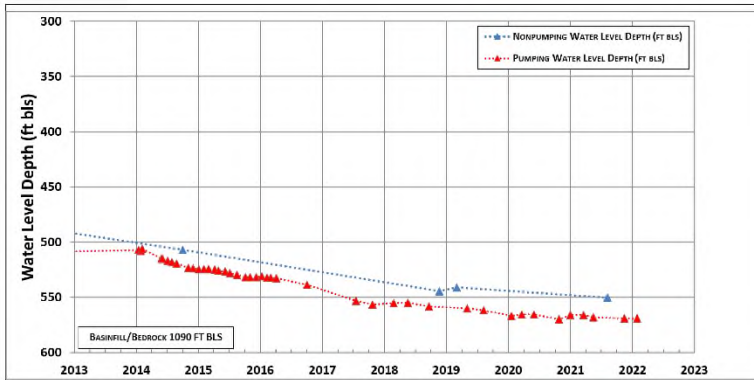




<p><b>BasinWells</b> ASSOCIATES PLLC <small>SPECIALISTS IN GROUNDWATER DEVELOPMENT</small></p>	<p><b>FREEPORT-McMoRan</b> COPPER &amp; GOLD</p>	<p>PS-1: WATER LEVELS, YIELD, SPECIFIC CAPACITY, BASINFILL SAT. THK. AND SULFATE</p>
	<p><b>VERSION DATE:</b> FEBRUARY, 2022</p>	<p>CADASTRAL: D-18-13 03BBA ADWR REG. NO.: 55-220861 DRILL YEAR: 2011</p>

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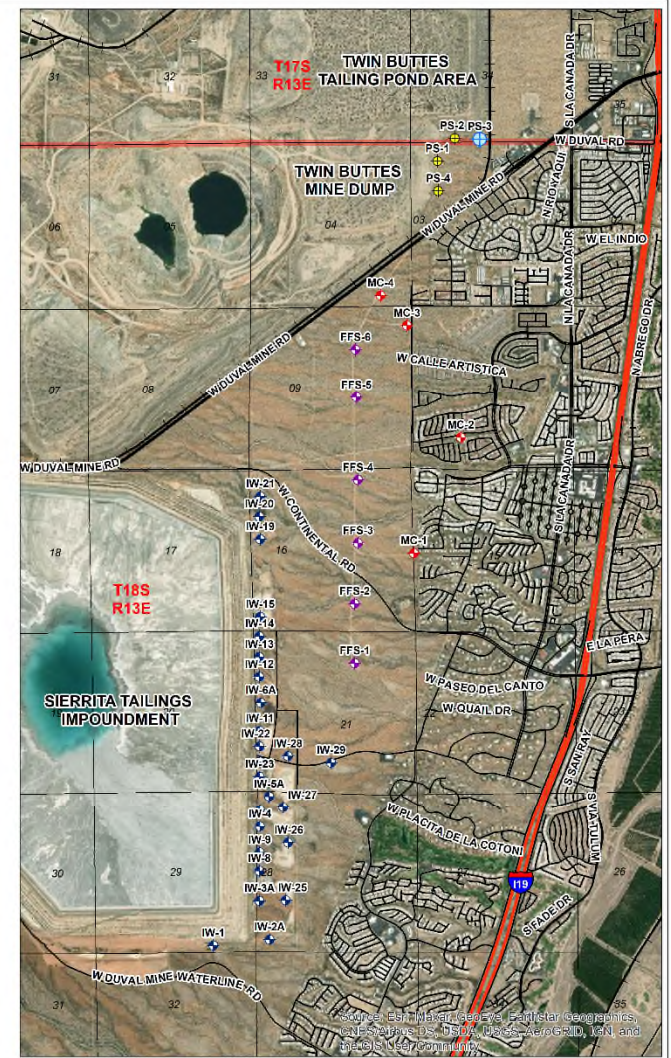
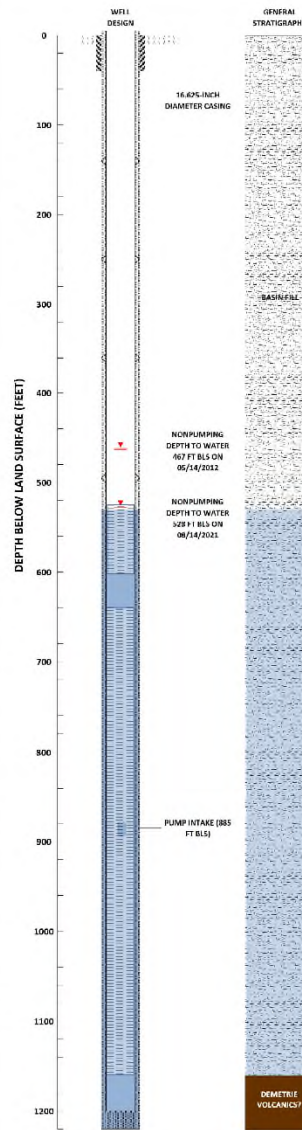
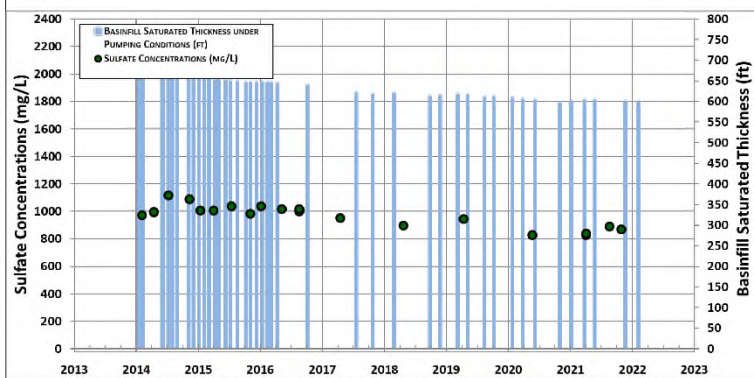
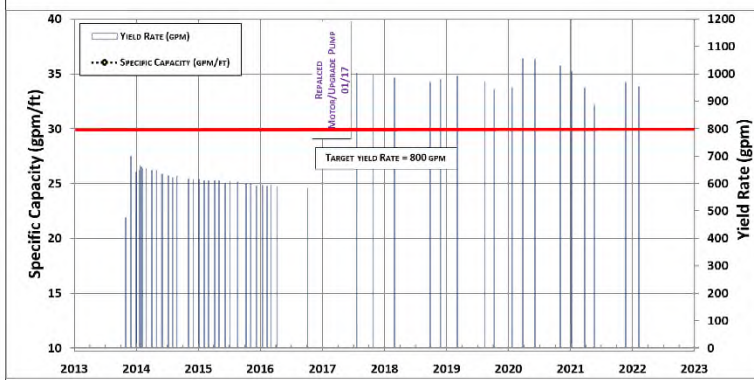
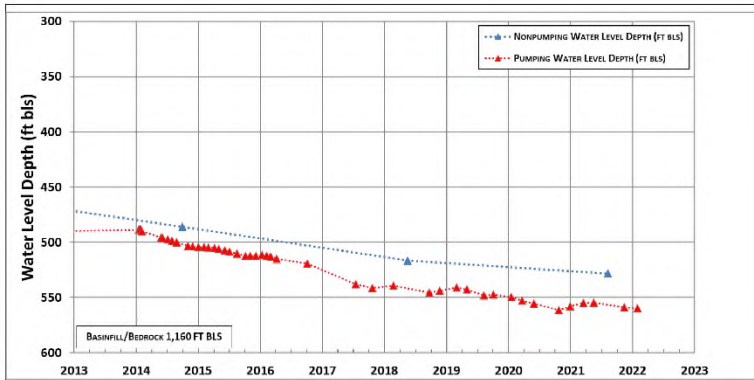




<p>SPECIALISTS IN GOVERNANCE AND DEVELOPMENT</p>		PS-2: WATER LEVELS, YIELD, SPECIFIC CAPACITY, BASINFILL SAT. THK. AND SULFATE
	VERSION DATE: <b>FEBRUARY, 2022</b>	CADASTRAL: D-17-13 34CDC ADWR REG. NO.: 55-220862 DRILL YEAR: 2012

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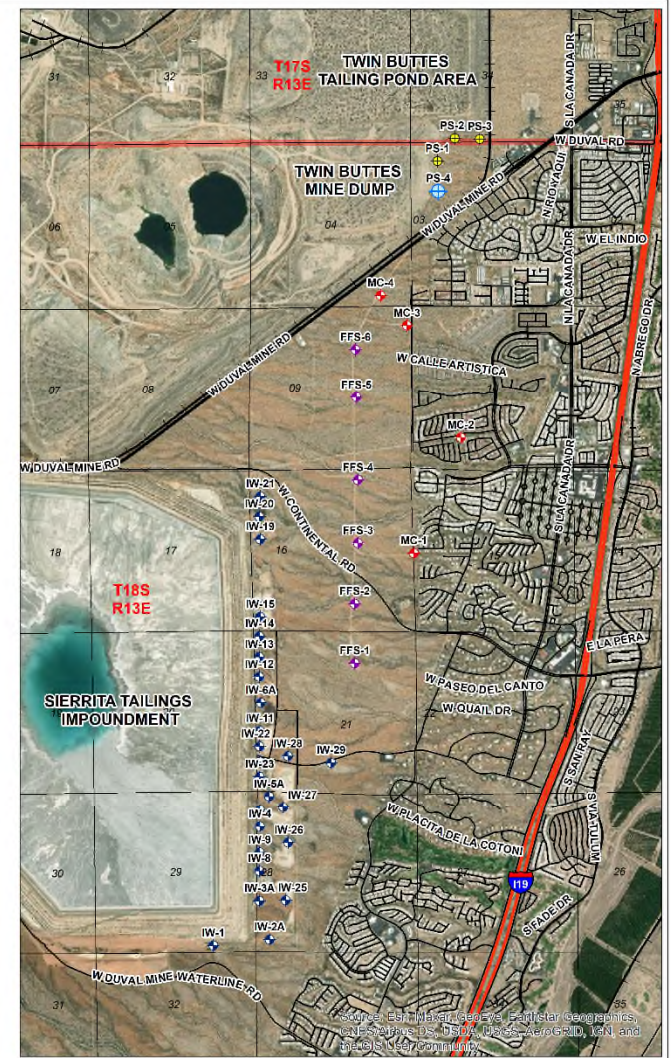
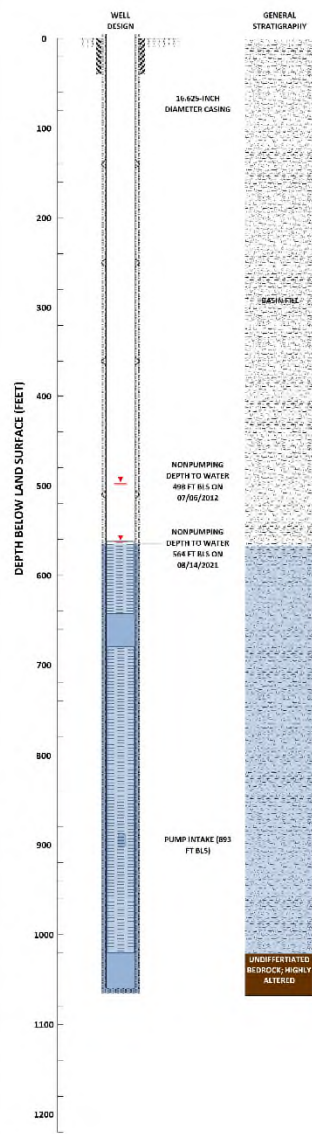
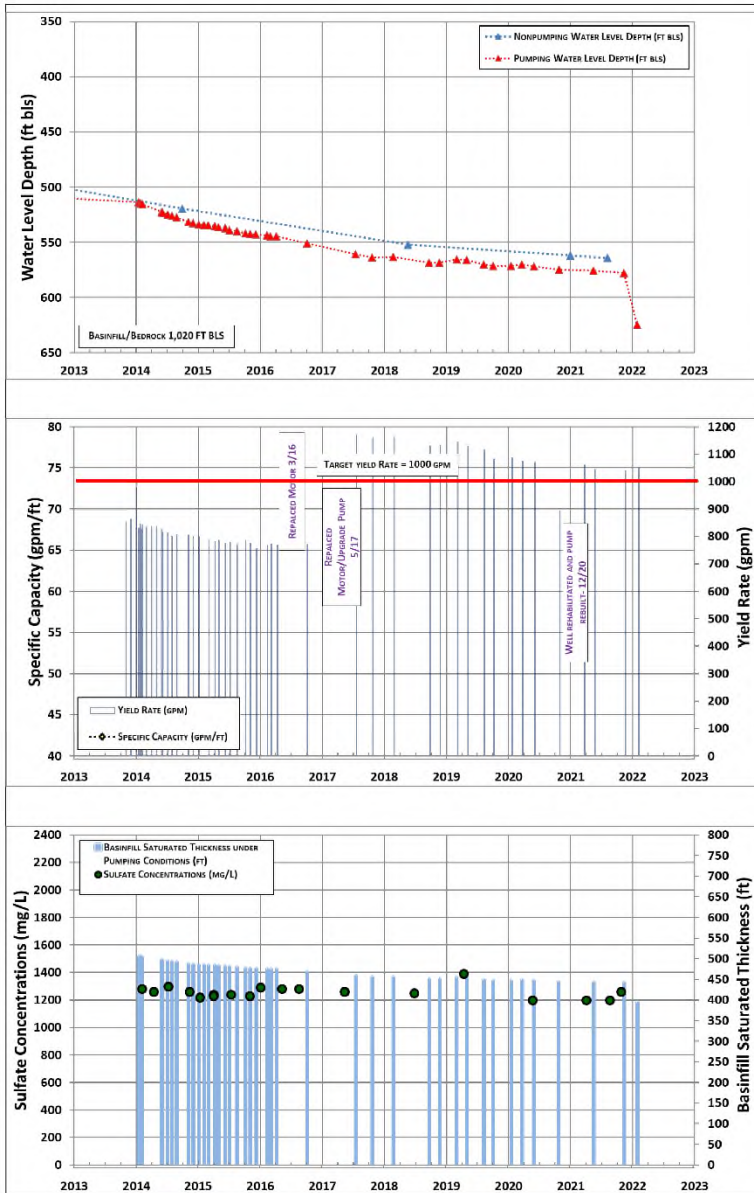




<p>SPECIALISTS IN GROUNDWATER DEVELOPMENT</p>		PS-3: WATER LEVELS, YIELD, SPECIFIC CAPACITY, BASINFILL SAT. THK. AND SULFATE
	VERSION DATE: <b>FEBRUARY, 2022</b>	CADASTRAL: D-17-13 34CDD ADWR REG. NO.: 55-220863 DRILL YEAR: 2012

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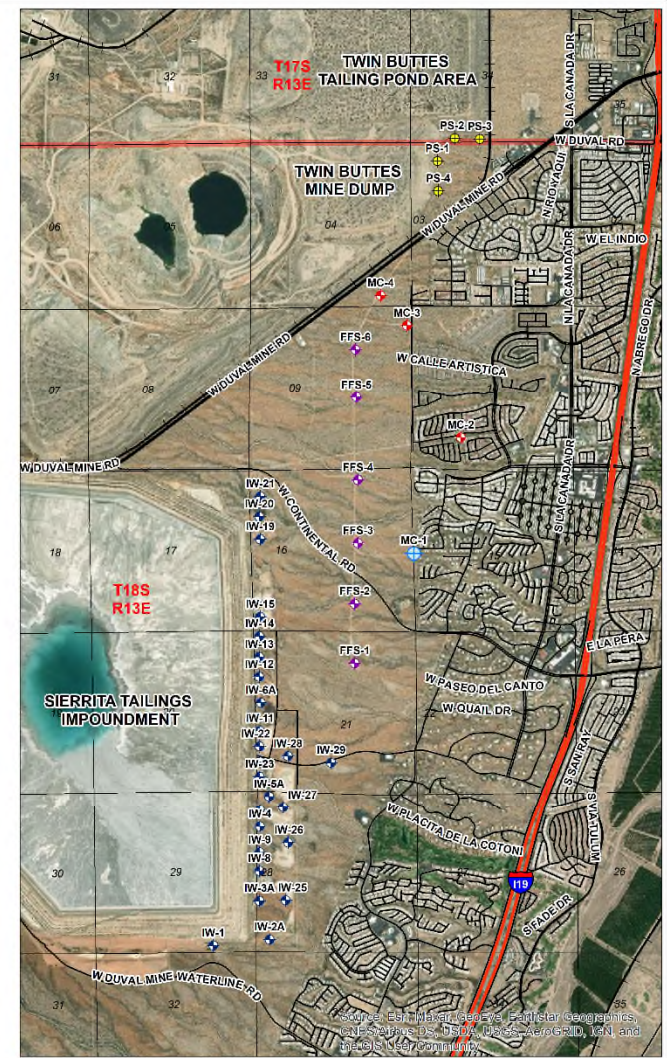
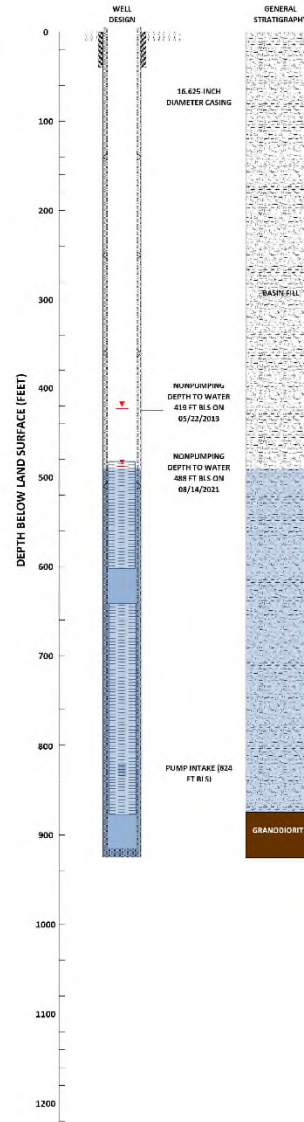
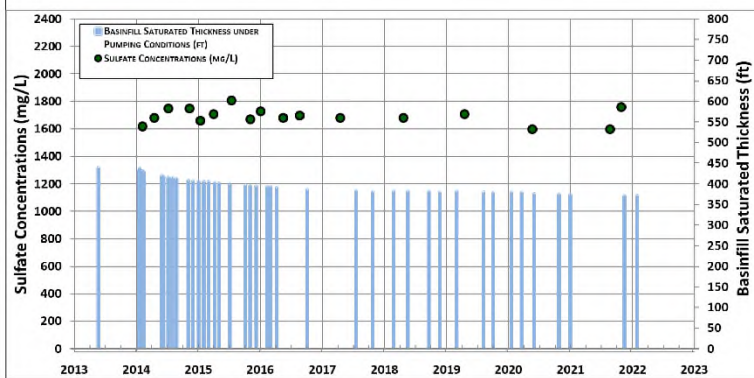
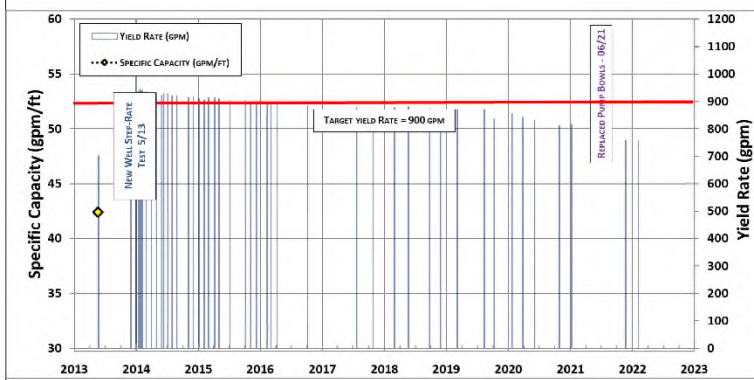
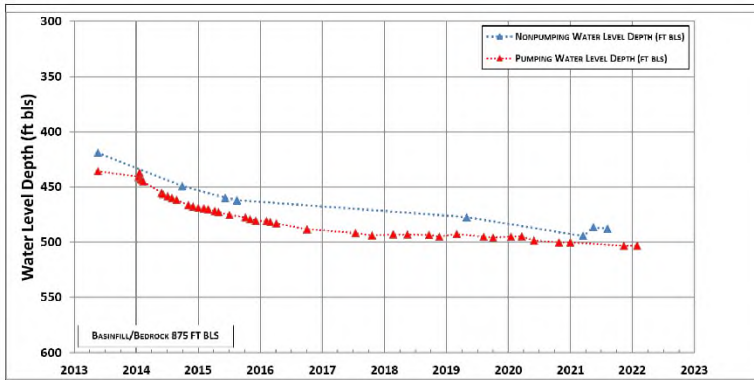




<p><b>BasinWells</b> ASSOCIATES PLLC <small>SPECIALISTS IN GROUNDWATER DEVELOPMENT</small></p>	<p><b>FREEPORT-McMORAN</b> COPPER &amp; GOLD</p>	PS-4: WATER LEVELS, YIELD, SPECIFIC CAPACITY, BASINFLL SAT. THK. AND SULFATE
	<p><b>VERSION DATE:</b> FEBRUARY, 2022</p>	CADASTRAL: D-18-13 03BCA ADWR REG. NO.: 55-220864 DRILL YEAR: 2012

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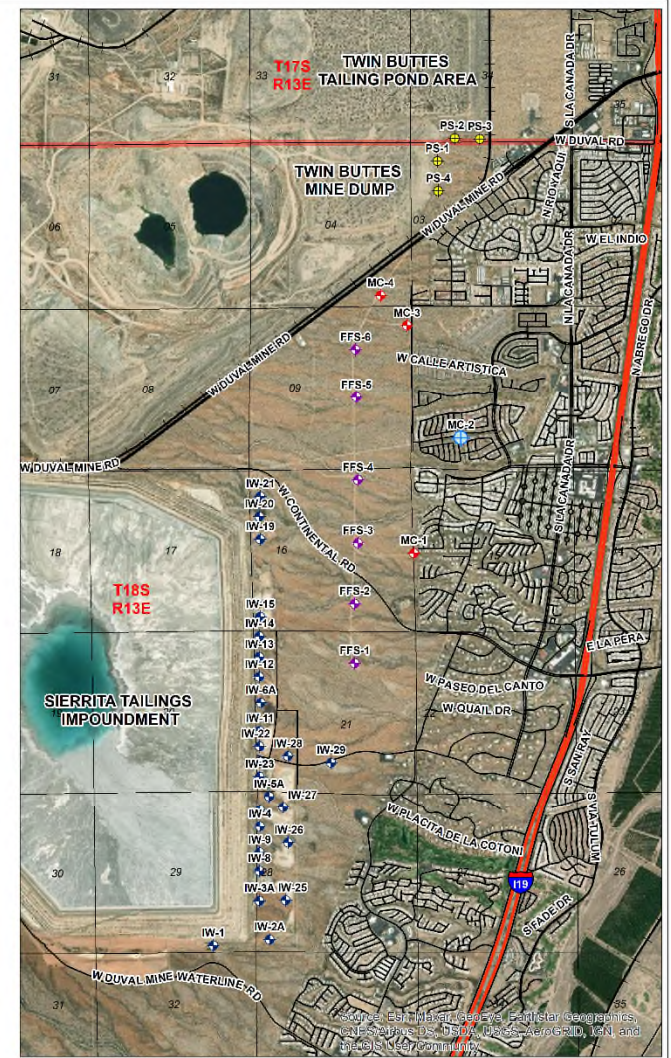
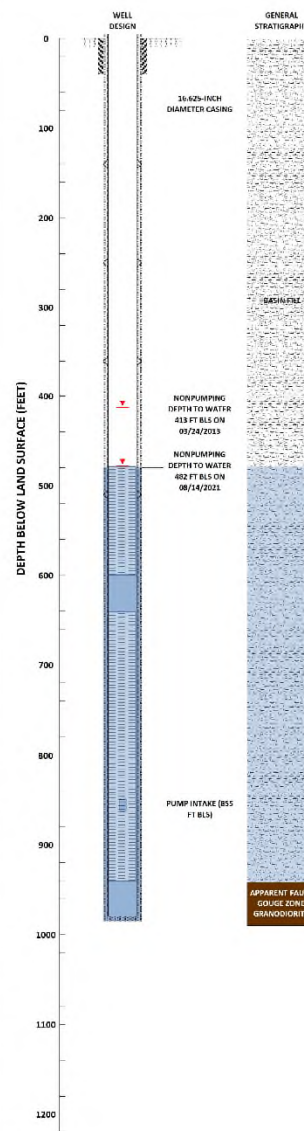
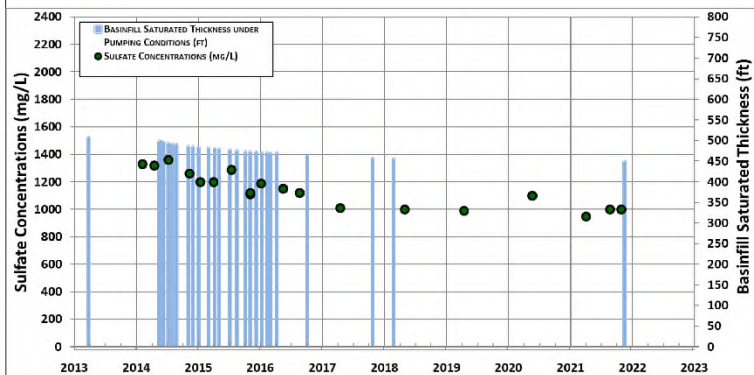
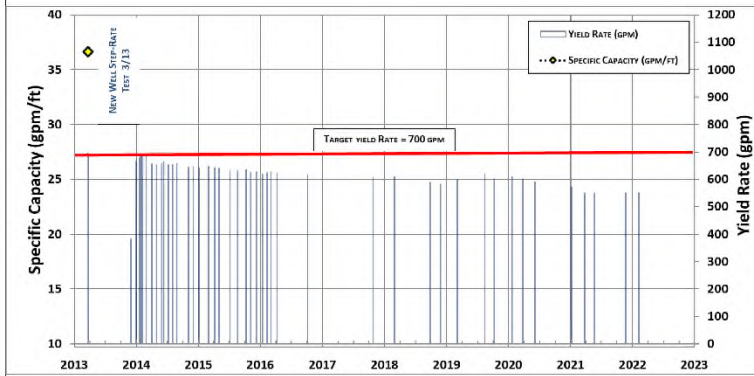
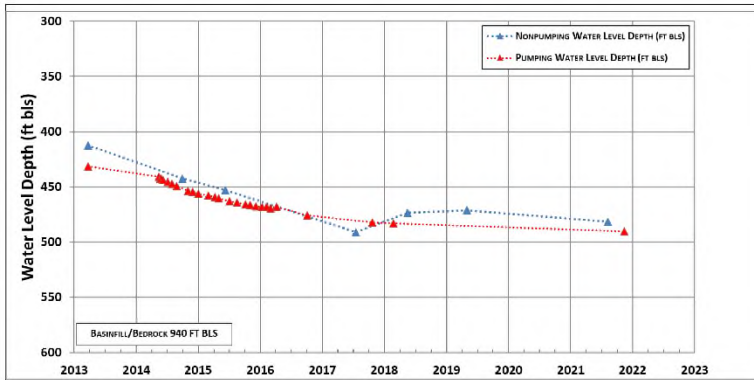




<p>SPECIALISTS IN GROUNDWATER DEVELOPMENT</p>		MC-1: WATER LEVELS, YIELD, SPECIFIC CAPACITY, BASINFILL SAT. THK. AND SULFATE
	<p><b>VERSION DATE:</b> FEBRUARY, 2022</p>	CADASTRAL: D-18-13 16DAA ADWR REG. NO.: 55-221660 DRILL YEAR: 2013

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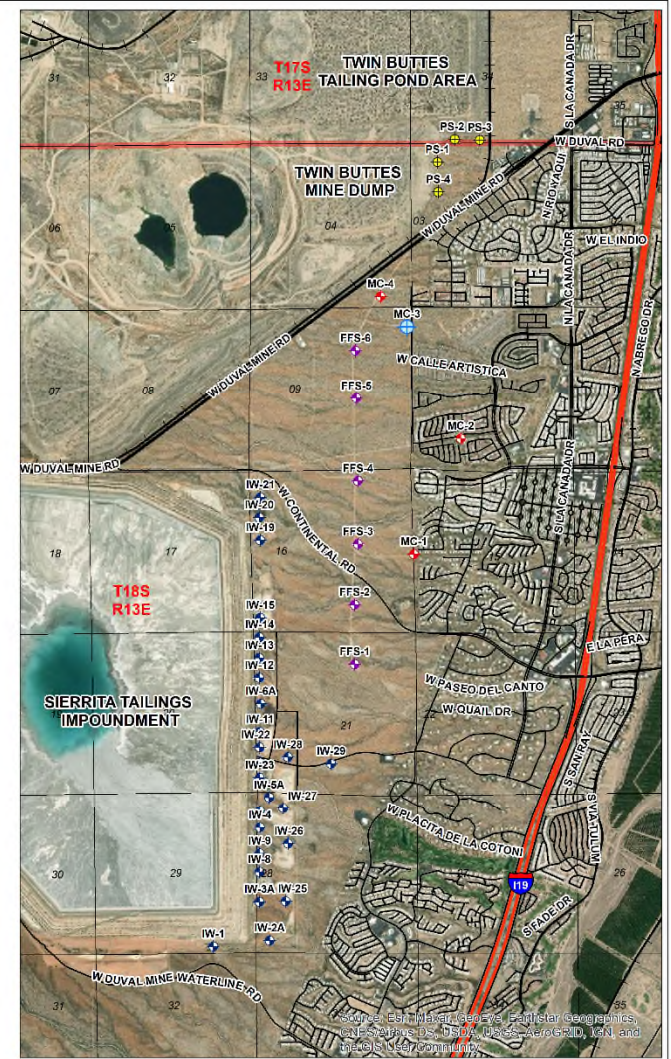
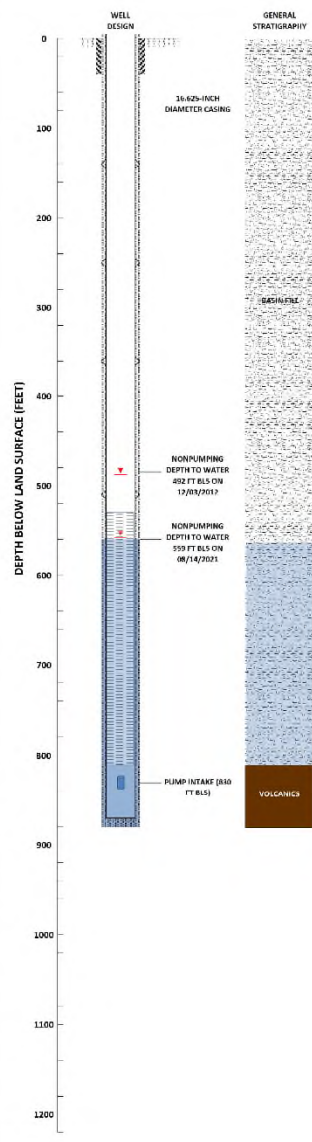
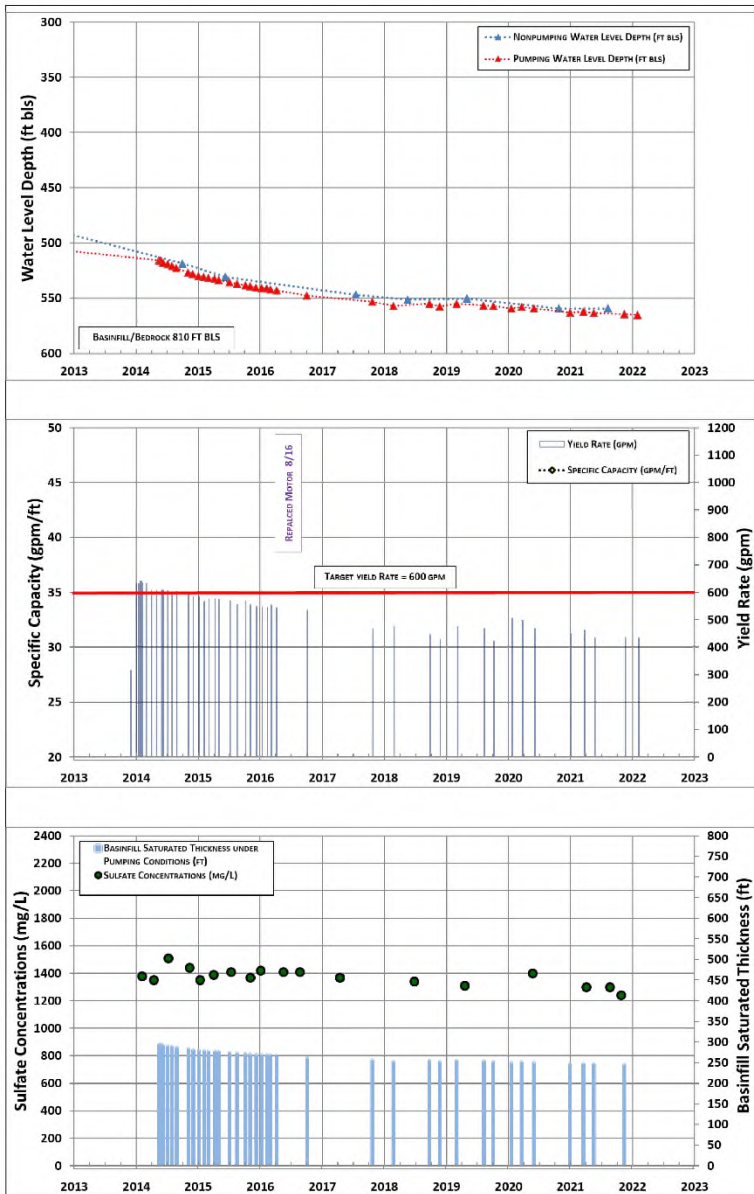




<p>SPECIALISTS IN GOVERNANCE AND DEVELOPMENT</p>		MC-2: WATER LEVELS, YIELD, SPECIFIC CAPACITY, BASINFILL SAT. THK. AND SULFATE
	VERSION DATE: <b>FEBRUARY, 2022</b>	CADASTRAL: D-18-13 10CCB ADWR REG. NO.: 55-221761 DRILL YEAR: 2013

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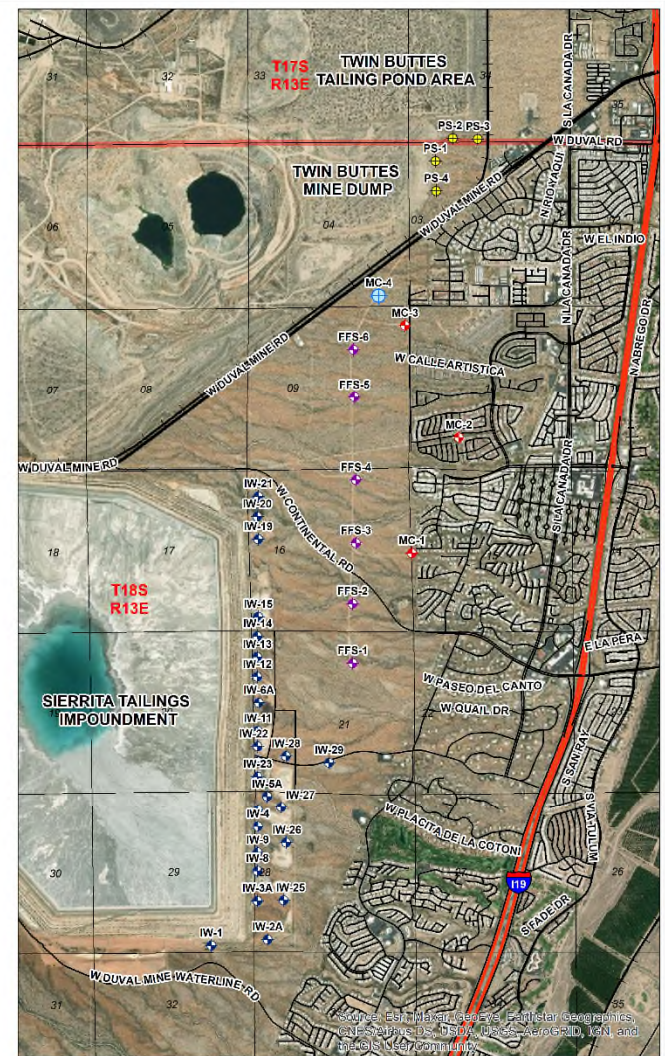
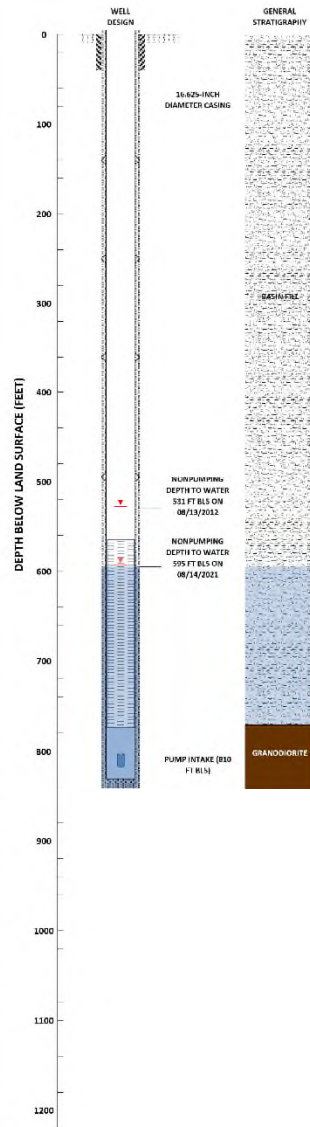
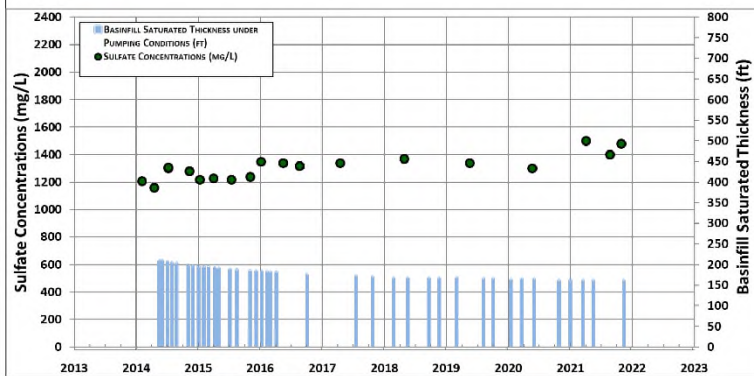
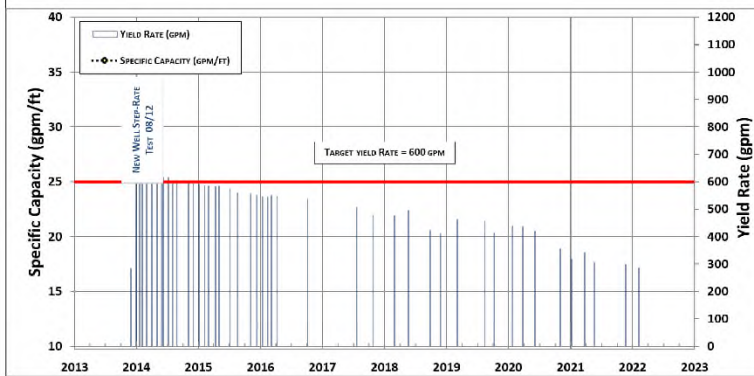
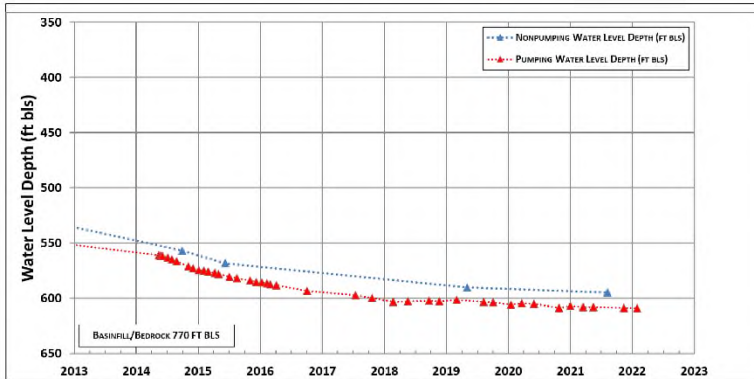




<p><b>BasinWells</b> ASSOCIATES PLLC <small>SPECIALISTS IN GROUNDWATER DEVELOPMENT</small></p>	<p><b>FREEPORT-McMORAN</b> COPPER &amp; GOLD</p>	<p>MC-3: WATER LEVELS, YIELD, SPECIFIC CAPACITY, BASINFILL SAT. THK. AND SULFATE</p>
	<p><b>VERSION DATE:</b> FEBRUARY, 2022</p>	<p>CADASTRAL: D-18-13 09AAA ADWR REG. NO.: 55-221661 DRILL YEAR: 2012</p>

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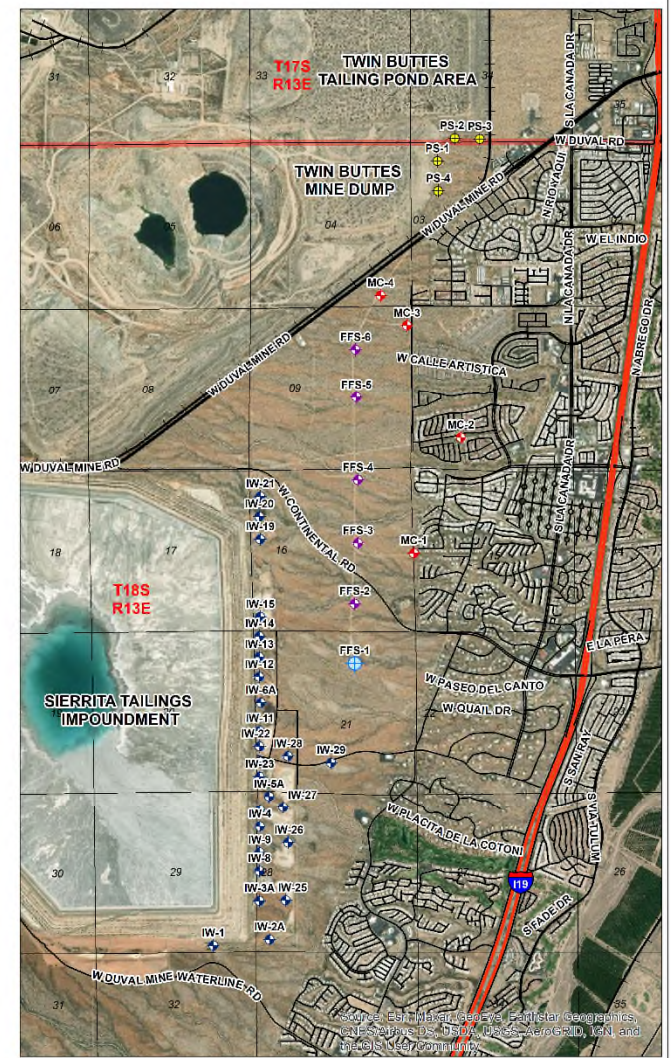
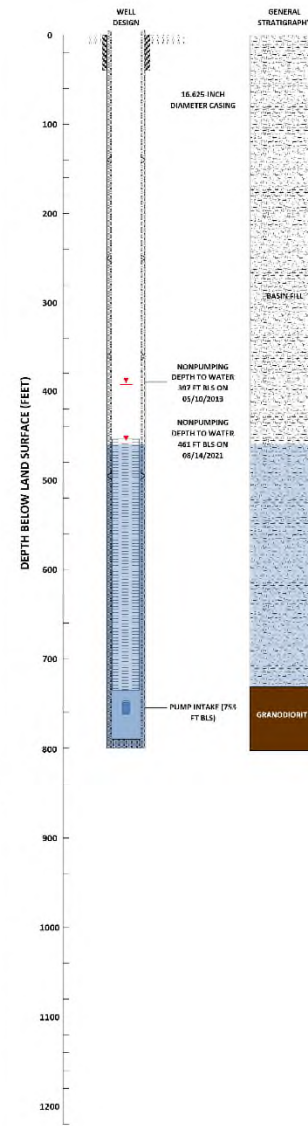
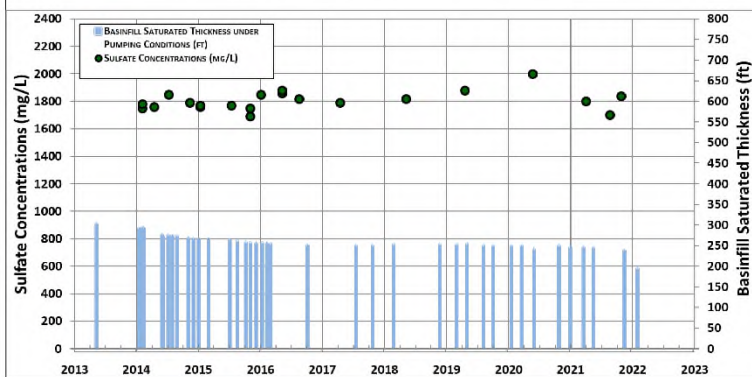
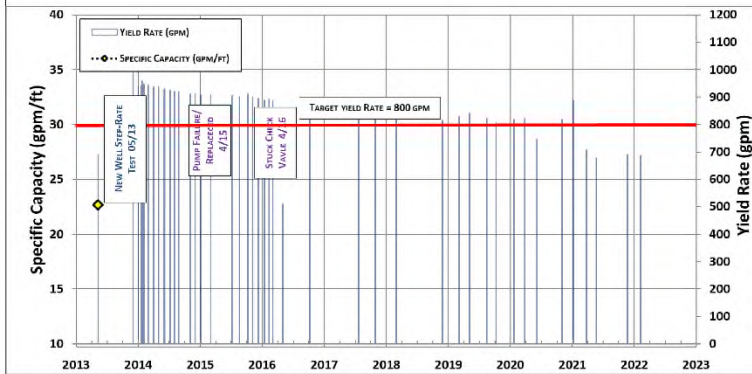
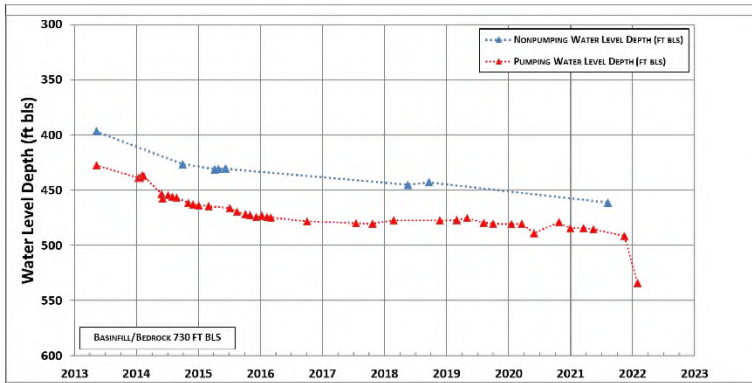




<p>SPECIALISTS IN GROUNDWATER DEVELOPMENT</p>		MC-4: WATER LEVELS, YIELD, SPECIFIC CAPACITY, BASINFILL SAT. THK. AND SULFATE
	VERSION DATE: <b>FEBRUARY, 2022</b>	CADASTRAL: D-18-13 04DDC ADWR REG. NO.: 55-220842 DRILL YEAR: 2012

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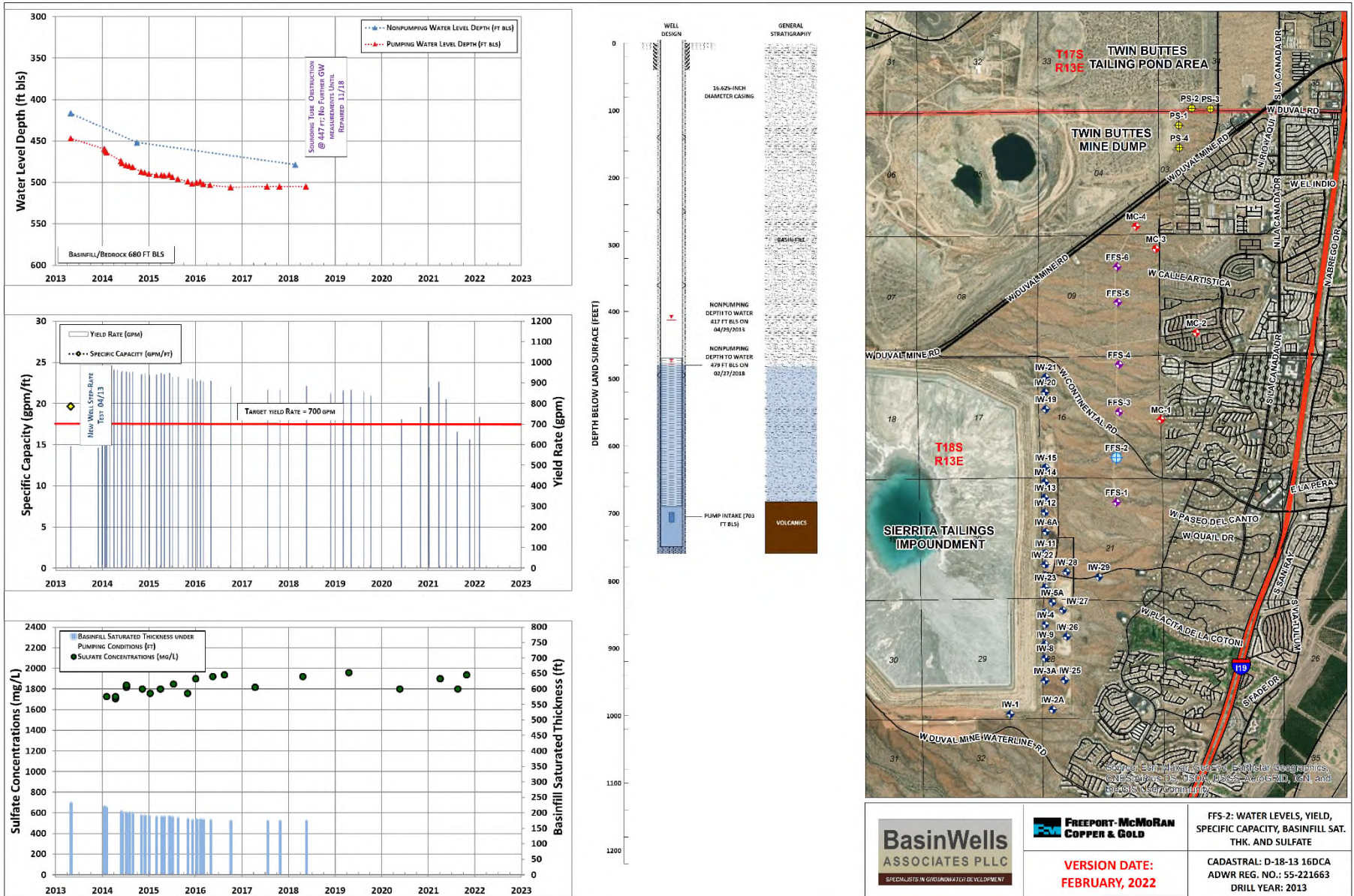




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	VERSION DATE: <b>FEBRUARY, 2022</b>	CADASTRAL: D-18-13 21ABC ADWR REG. NO.: 55-221662 DRILL YEAR: 2013

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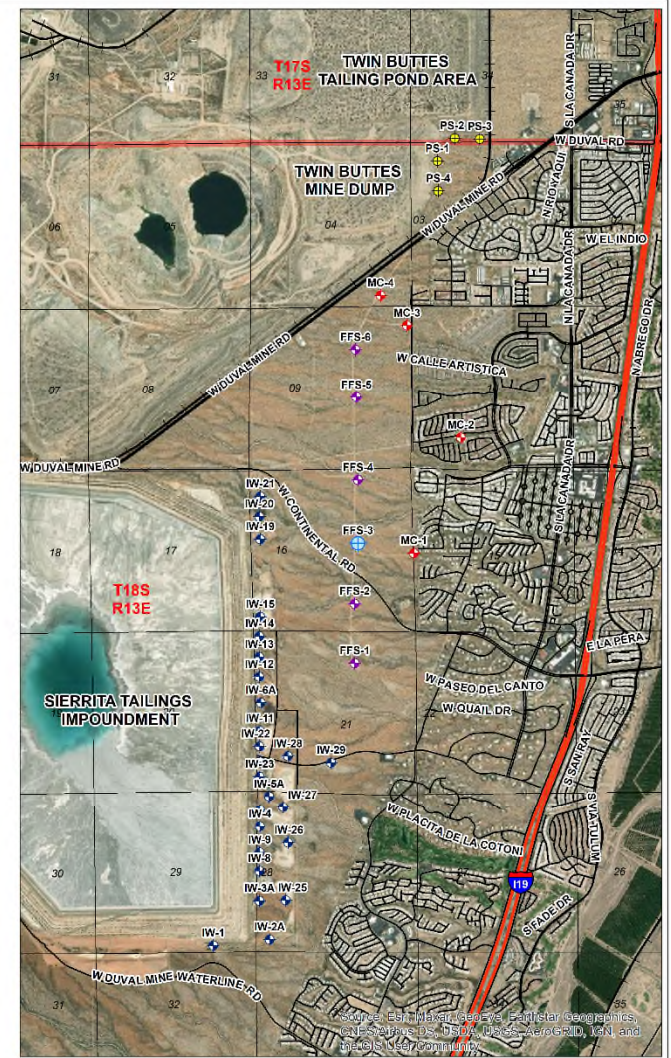
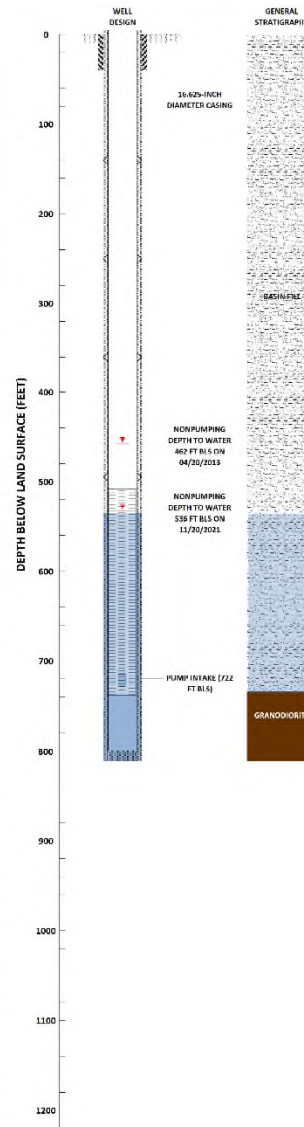
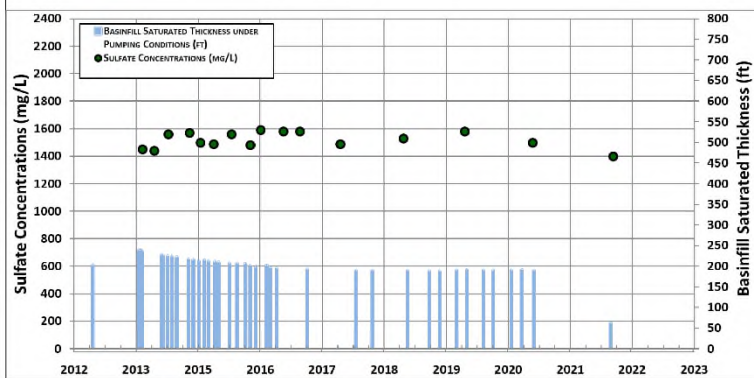
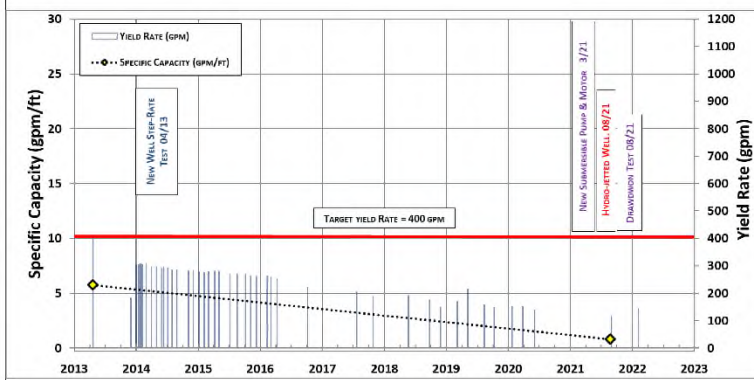
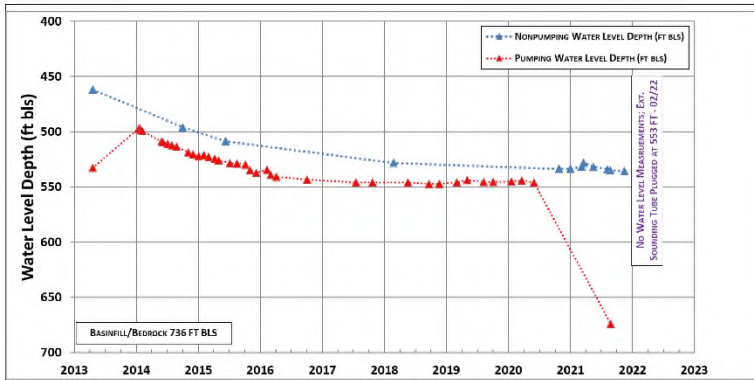




**BasinWells Associates PLLC**

<p><b>BasinWells</b> ASSOCIATES PLLC <small>SPECIALISTS IN GROUNDWATER DEVELOPMENT</small></p>	<p><b>FREEPORT-McMORAN</b> COPPER &amp; GOLD</p> <p><b>VERSION DATE:</b> <b>FEBRUARY, 2022</b></p>	<p>FFS-2: WATER LEVELS, YIELD, SPECIFIC CAPACITY, BASINFILL SAT. THK. AND SULFATE</p> <p>CADASTRAL: D-18-13 16DCA ADWR REG. NO.: 55-221663 DRILL YEAR: 2013</p>
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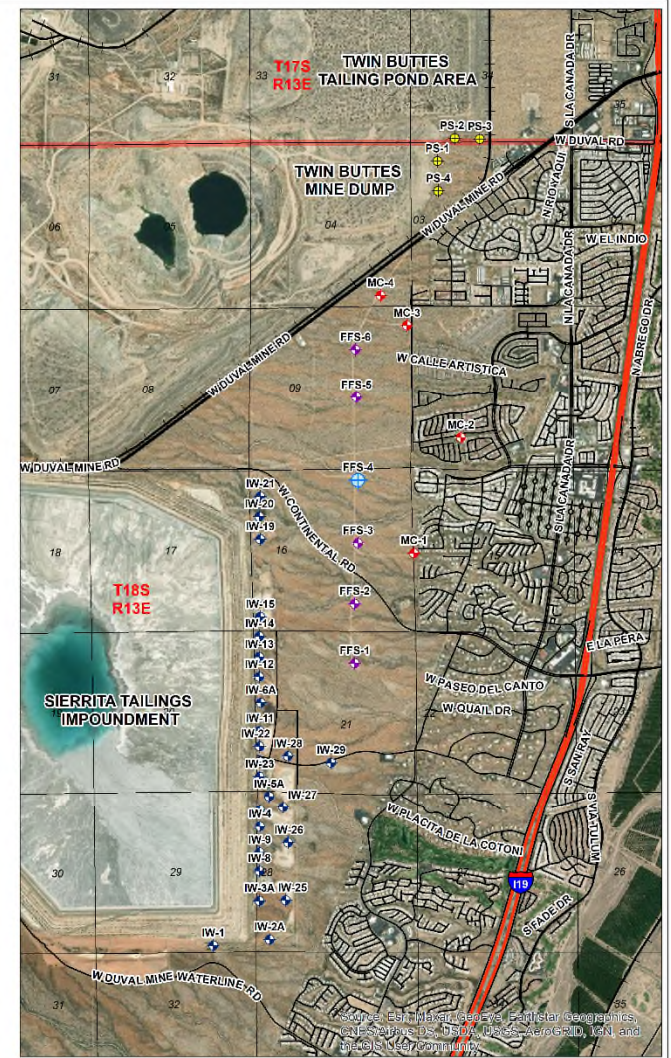
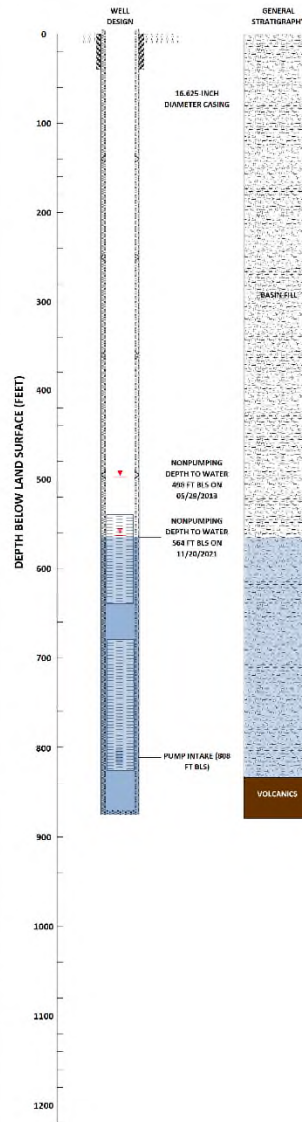
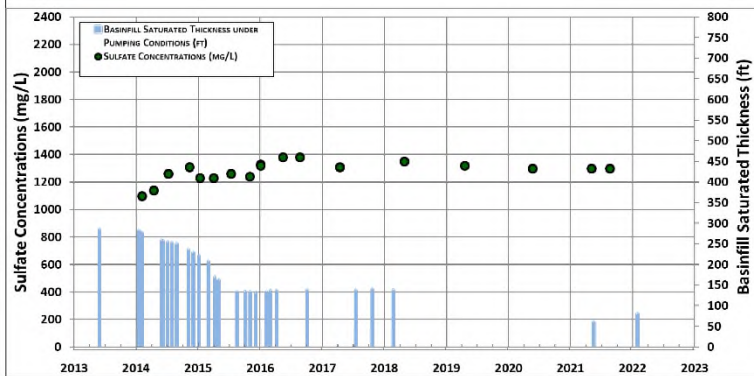
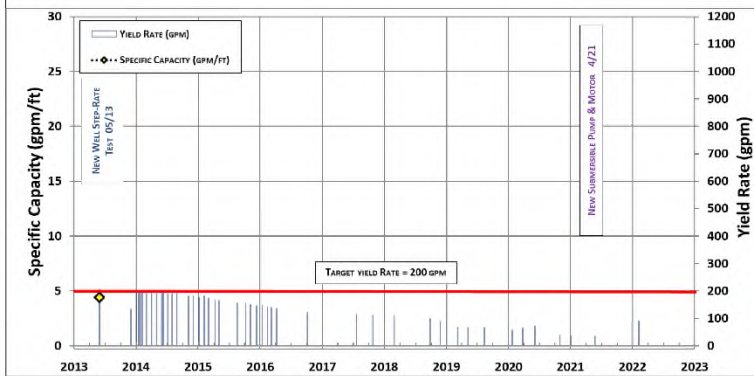
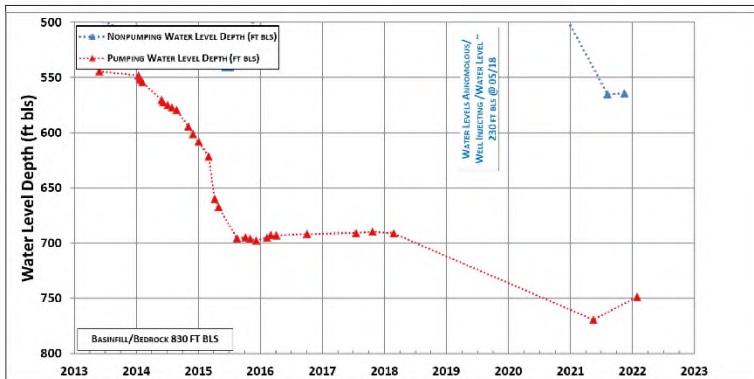




<p>SPECIALISTS IN GROUNDWATER DEVELOPMENT</p>		FFS-3: WATER LEVELS, YIELD, SPECIFIC CAPACITY, BASINFILL SAT. THK. AND SULFATE
	VERSION DATE: <b>FEBRUARY, 2022</b>	CADASTRAL: D-18-13 16ACD ADWR REG. NO.: 55-221664 DRILL YEAR: 2013

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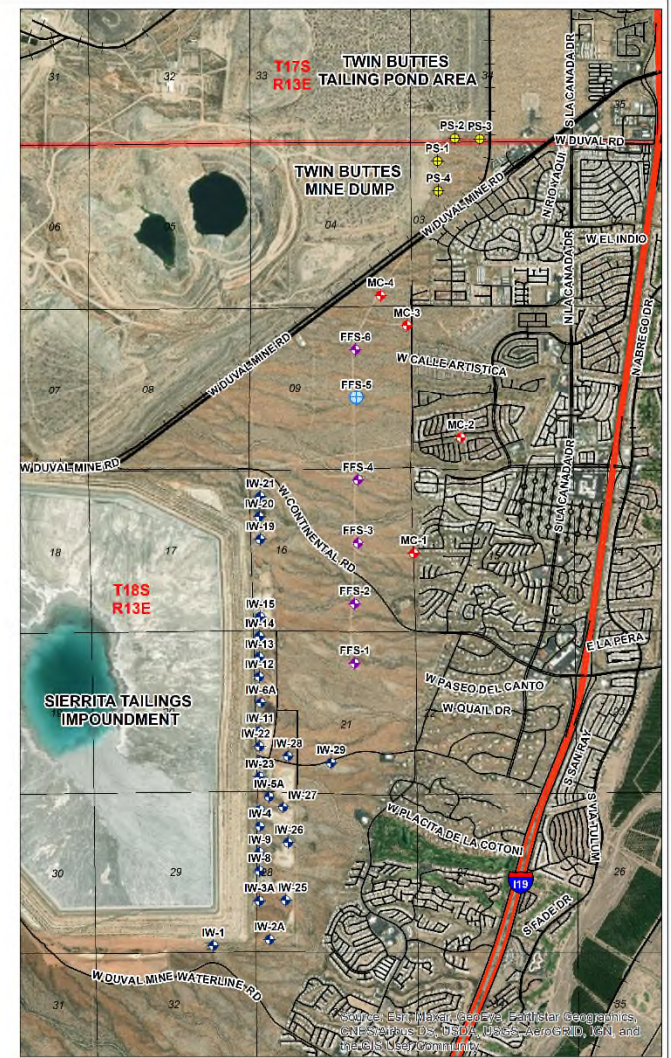
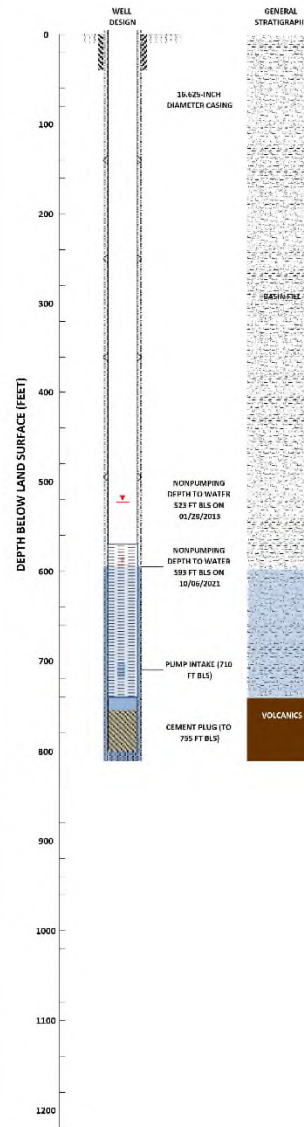
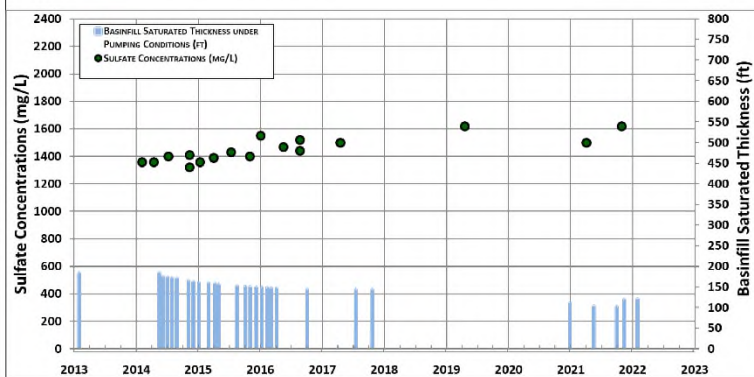
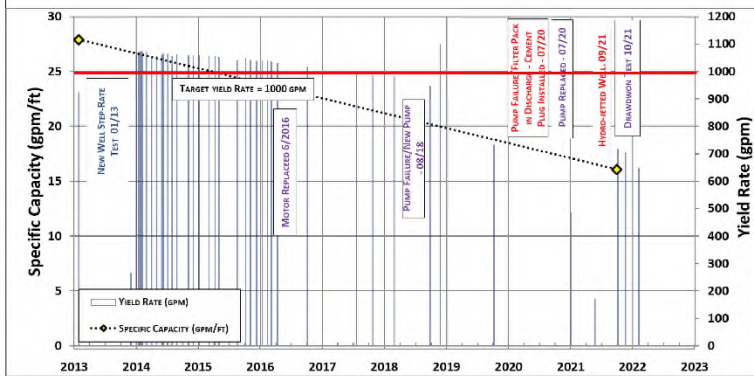
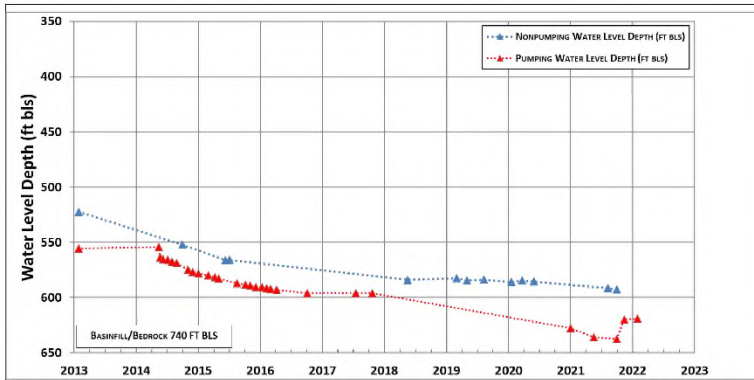




<p>SPECIALISTS IN GEOLOGICAL DEVELOPMENT</p>		FFS-4: WATER LEVELS, YIELD, SPECIFIC CAPACITY, BASINFILL SAT. THK. AND SULFATE
	VERSION DATE: <b>FEBRUARY, 2022</b>	CADASTRAL: D-18-13 16ABA ADWR REG. NO.: 55-221665 DRILL YEAR: 2012

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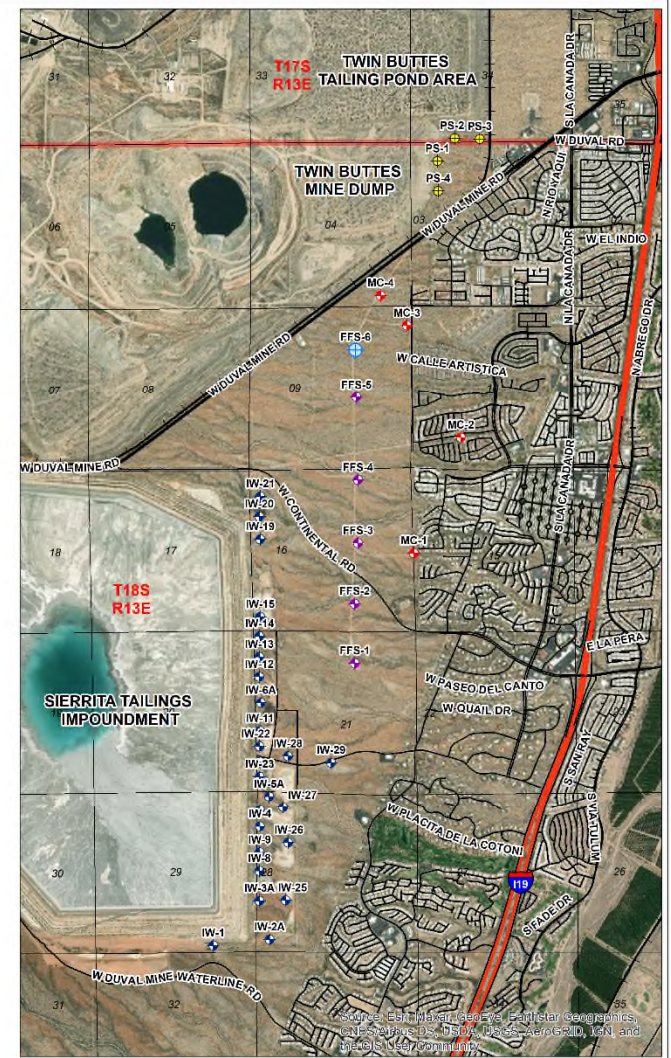
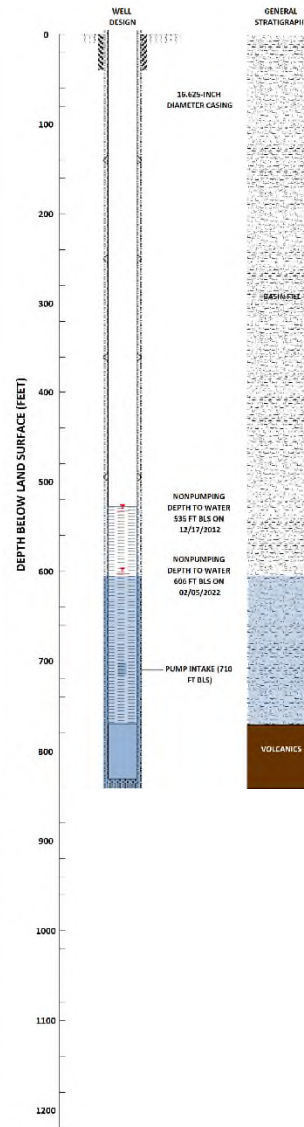
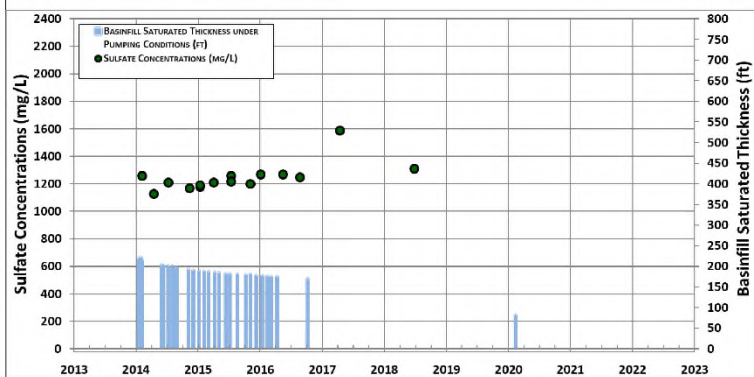
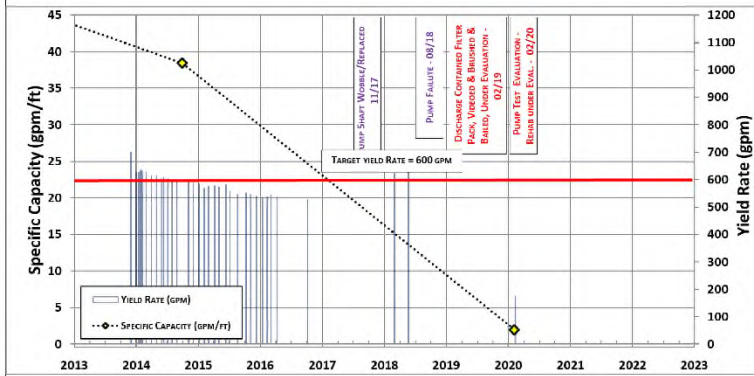
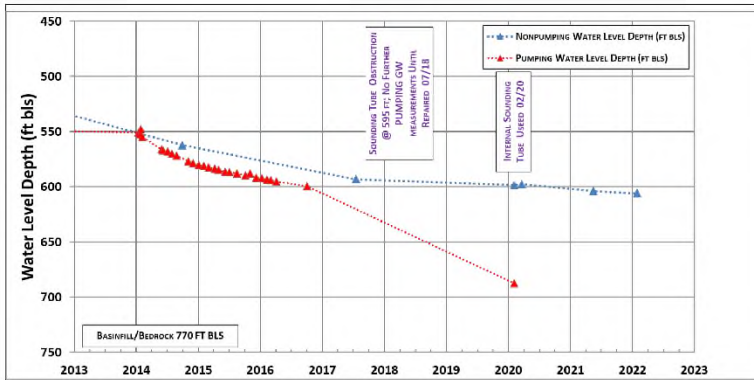




<p><b>BasinWells</b> ASSOCIATES PLLC <small>SPECIALISTS IN GOVERNANCE AND DEVELOPMENT</small></p>	<p><b>FREEPORT-McMORAN</b> COPPER &amp; GOLD</p>	<p>FFS-5: WATER LEVELS, YIELD, SPECIFIC CAPACITY, BASINFILL SAT. THK. AND SULFATE</p>
	<p><b>VERSION DATE:</b> FEBRUARY, 2022</p>	<p>CADASTRAL: D-18-13 09DBA ADWR REG. NO.: 55-221666 DRILL YEAR: 2012</p>

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<p>SPECIALISTS IN GROUNDWATER DEVELOPMENT</p>		FFS-6: WATER LEVELS, YIELD, SPECIFIC CAPACITY, BASINFILL SAT. THK. AND SULFATE
	VERSION DATE: <b>FEBRUARY, 2022</b>	CADASTRAL: D-18-13 09ACA ADWR REG. NO.: 55-221667 DRILL YEAR: 2012

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