

APPENDIX E

Potential Impacts of Status Quo Operations on Future Well Operations

Table E-1
City of Fresno
Metro Plan Update - Phase 2 Report
2025 Projected Groundwater Elevation without Project
Comparison to Bowl Depth

WELL ID	USGS GROUND SURFACE ELEVATION (FT)	2025 GROUNDWATER ELEVATION⁽¹⁾ (FT)	BOWL DEPTH ELEVATION^(2,3) (FT)	STATIC GROUNDWATER LEVEL ABOVE PUMP BOWL SETTING⁽⁴⁾ (FT)
PS001A	291.8	163.1	141.8	21.3
PS002B	290.0	157.5	130.0	27.5
PS003A	287.8	163.4	117.8	45.5
PS004A	301.8	159.5	165.8	-6.2
PS004B	301.4	159.9	101.4	58.4
PS005A	316.3	155.7	166.3	-10.6
PS006B	335.7	205.8	135.7	70.1
PS008A	334.7	208.1	94.7	113.4
PS009A	282.6	159.7	132.6	27.1
PS010A	299.4	158.7	149.4	9.3
PS011A	312.3	155.0	152.3	2.7
PS012A	304.0	151.9	174.0	-22.1
PS013A	295.1	154.5	145.1	9.4
PS014A	301.5	171.5	91.5	80.0
PS016A	284.1	163.3	154.1	9.3
PS017	307.7	153.5	147.7	5.8
PS018A	301.9	161.9	151.9	10.0
PS019A	306.0	175.8	156.0	19.8
PS019B	304.6	175.3	104.6	70.7
PS020	295.8	172.6	145.8	26.9
PS021A	293.8	160.2	93.8	66.4
PS022A	283.6	159.0	113.6	45.5
PS024B	305.0	169.8	145.0	24.8
PS025	312.3	154.9	162.3	-7.4
PS026A	279.8	159.5	129.8	29.8
PS027A	279.1	158.3	129.1	29.3
PS028A	291.9	154.8	151.9	2.9
PS030A	306.5	173.8	166.5	7.4
PS031A	300.2	152.6	150.2	2.4
PS032B	311.3	177.9	131.3	46.6
PS033A	291.5	173.0	151.5	21.5
PS034A	306.4	158.0	126.4	31.6
PS035A	304.7	157.5	154.7	2.8
PS036	288.1	177.1	138.1	39.0
PS037	308.5	164.8	158.5	6.2
PS038A	307.9	153.4	167.9	-14.5
PS039A	292.4	154.4	172.4	-18.0
PS040A	280.0	178.1	150.0	28.0
PS041	320.9	161.4	160.9	0.5
PS042	302.6	151.5	142.6	8.8
PS043	308.0	162.2	168.0	-5.8
PS044A	314.4	162.5	114.4	48.1
PS045	324.7	167.1	174.7	-7.6
PS046	316.8	165.2	196.8	-31.6

Table E-1
City of Fresno
Metro Plan Update - Phase 2 Report
2025 Projected Groundwater Elevation without Project
Comparison to Bowl Depth

WELL ID	USGS GROUND SURFACE ELEVATION (FT)	2025 GROUNDWATER ELEVATION⁽¹⁾ (FT)	BOWL DEPTH ELEVATION^(2,3) (FT)	STATIC GROUNDWATER LEVEL ABOVE PUMP BOWL SETTING⁽⁴⁾ (FT)
PS046A	316.9	164.9	96.9	68.0
PS048	313.0	180.1	163.0	17.2
PS049A	299.4	172.2	149.4	22.8
PS050A	297.3	159.8	137.3	22.5
PS051	314.4	157.8	204.4	-46.5
PS052	322.0	169.7	172.0	-2.3
PS053	321.7	163.5	161.7	1.8
PS054	293.7	154.1	133.7	20.4
PS055-1	340.0	232.1	200.0	32.1
PS055-2	342.1	232.2	122.1	110.2
PS056	324.2	158.5	154.2	4.3
PS057	314.6	150.1	154.6	-4.6
PS058	313.5	161.8	163.5	-1.7
PS059	313.3	177.3	153.3	24.1
PS060	299.4	153.8	159.4	-5.6
PS062A	335.4	182.3	135.4	46.9
PS063	318.9	178.8	188.9	-10.1
PS064	329.2	169.2	209.2	-40.0
PS065	339.9	173.6	199.9	-26.3
PS066	290.0	157.2	140.0	17.1
PS067	312.4	152.4	152.4	0.0
PS068	333.2	168.7	163.2	5.4
PS069A	311.1	158.1	141.1	17.0
PS070	332.2	181.6	172.2	9.3
PS071	308.2	151.3	158.2	-6.9
PS072	325.3	168.8	175.3	-6.6
PS073	330.4	174.0	180.4	-6.3
PS074	304.0	152.6	144.0	8.6
PS075	340.0	175.8	160.0	15.8
PS076	345.2	179.6	185.2	-5.6
PS077	311.3	184.7	130.3	54.5
PS078	304.7	152.6	154.7	-2.1
PS079	325.0	164.8	165.0	-0.2
PS080	334.8	192.7	154.8	37.9
PS081	335.0	178.1	135.0	43.2
PS082-1	310.9	191.2	80.9	110.3
PS082-2	312.0	191.3	92.0	99.4
PS083A	341.7	220.5	101.7	118.8
PS084	323.5	175.0	123.5	51.5
PS085	348.5	188.1	148.5	39.6
PS086	366.3	210.2	146.3	63.9
PS087	305.4	160.1	165.4	-5.3
PS088-2	279.6	159.4	119.6	39.8
PS089A	360.2	210.3	120.2	90.1

Table E-1
City of Fresno
Metro Plan Update - Phase 2 Report
2025 Projected Groundwater Elevation without Project
Comparison to Bowl Depth

WELL ID	USGS GROUND SURFACE ELEVATION (FT)	2025 GROUNDWATER ELEVATION⁽¹⁾ (FT)	BOWL DEPTH ELEVATION^(2,3) (FT)	STATIC GROUNDWATER LEVEL ABOVE PUMP BOWL SETTING⁽⁴⁾ (FT)
PS090	322.4	160.3	182.4	-22.2
PS091	331.8	171.3	131.8	39.5
PS092	347.6	189.6	147.6	42.0
PS094	358.0	204.4	158.0	46.4
PS095	349.7	193.4	149.7	43.7
PS096	351.0	200.2	161.0	39.2
PS097	323.1	165.5	163.1	2.4
PS098	346.5	193.1	126.5	66.6
PS099	295.2	155.0	160.2	-5.2
PS100-1	307.5	202.9	107.5	95.4
PS100-2	307.2	202.9	NA	NA
PS101A	337.0	235.7	37.0	198.7
PS102	332.6	232.2	162.6	69.6
PS103	338.6	212.4	98.6	113.8
PS104	298.0	158.6	138.0	20.6
PS105	297.4	157.0	117.4	39.6
PS108	298.4	187.6	178.4	9.1
PS117	328.7	163.5	178.7	-15.2
PS118	340.2	172.0	180.2	-8.2
PS125	326.7	174.7	156.7	18.1
PS128	369.6	222.6	119.6	103.0
PS129	341.7	210.0	141.7	68.3
PS130	379.6	225.8	139.6	86.2
PS131	359.7	198.0	99.7	98.4
PS132	373.0	217.1	173.0	44.1
PS133	361.3	243.9	141.3	102.6
PS134	349.9	195.6	149.9	45.7
PS135A	328.3	248.3	198.3	50.0
PS136	332.1	166.6	152.1	14.5
PS137	354.9	198.9	154.9	43.9
PS138	279.4	155.0	119.4	35.7
PS139	315.4	168.9	135.4	33.5
PS140	354.5	235.0	154.5	80.5
PS141	337.0	174.8	137.0	37.8
PS142	330.5	185.4	148.5	36.9
PS143	354.2	220.8	154.2	66.5
PS144	345.5	185.3	145.5	39.8
PS145	334.5	207.6	54.5	153.1
PS146	308.5	164.7	158.5	6.2
PS147	336.6	255.7	156.6	99.2
PS148-1	354.7	202.6	104.7	97.9
PS148-2	354.7	202.4	134.7	67.7
PS150	371.2	208.4	171.2	37.2
PS151	372.8	216.5	122.8	93.7

Table E-1
City of Fresno
Metro Plan Update - Phase 2 Report
2025 Projected Groundwater Elevation without Project
Comparison to Bowl Depth

WELL ID	USGS GROUND SURFACE ELEVATION (FT)	2025 GROUNDWATER ELEVATION⁽¹⁾ (FT)	BOWL DEPTH ELEVATION^(2,3) (FT)	STATIC GROUNDWATER LEVEL ABOVE PUMP BOWL SETTING⁽⁴⁾ (FT)
PS152	314.0	219.8	174.0	45.8
PS153-1	314.9	201.7	114.9	86.8
PS153-2	314.9	201.4	154.9	46.6
PS154	312.8	159.5	132.8	26.8
PS155-1	327.9	179.3	127.9	51.5
PS155-2	327.8	179.7	127.8	51.9
PS157	356.2	196.7	116.2	80.5
PS158	308.8	162.1	128.8	33.3
PS159	334.7	167.2	154.7	12.5
PS160	300.9	170.1	150.9	19.2
PS161	302.8	166.1	152.8	13.4
PS162	286.8	196.5	166.8	29.7
PS163	335.8	174.0	155.8	18.3
PS164-1	306.3	193.5	106.3	87.2
PS164-2	306.8	193.4	156.8	36.6
PS165-1	317.1	174.1	97.1	77.0
PS165-2	317.8	174.2	157.8	16.4
PS166	334.4	243.0	134.4	108.6
PS168-1	385.0	240.2	165.0	75.2
PS168-2	385.0	240.4	165.0	75.4
PS169	295.4	155.8	115.4	40.5
PS170	277.6	169.1	117.6	51.5
PS171-1	284.4	155.0	114.4	40.6
PS171-2	284.6	155.0	114.6	40.4
PS172	282.4	154.6	57.4	97.2
PS174	282.7	155.0	122.7	32.3
PS175-1	356.9	204.8	136.9	67.8
PS175-2	357.1	204.5	137.1	67.4
PS176	383.1	243.5	163.1	80.4
PS177	373.5	231.7	113.5	118.2
PS178	353.9	192.4	133.9	58.5
PS180-1	308.1	211.5	158.1	53.4
PS180-2	308.4	211.7	168.4	43.3
PS181	363.5	201.8	143.5	58.3
PS182-1	316.3	226.1	136.3	89.8
PS182-2	316.5	226.0	176.5	49.6
PS183	298.6	192.6	118.6	74.1
PS184	317.5	218.8	177.5	41.3
PS185	390.1	252.8	160.1	92.7
PS186	387.5	243.9	147.5	96.5
PS187	362.7	213.7	112.7	101.0
PS188	318.0	233.5	78.0	155.5
PS189	309.2	170.7	129.2	41.5
PS192	296.1	165.7	136.1	29.6

Table E-1
City of Fresno
Metro Plan Update - Phase 2 Report
2025 Projected Groundwater Elevation without Project
Comparison to Bowl Depth

WELL ID	USGS GROUND SURFACE ELEVATION (FT)	2025 GROUNDWATER ELEVATION⁽¹⁾ (FT)	BOWL DEPTH ELEVATION^(2,3) (FT)	STATIC GROUNDWATER LEVEL ABOVE PUMP BOWL SETTING⁽⁴⁾ (FT)
PS193	308.1	154.9	128.1	26.8
PS197	292.9	179.4	162.9	16.6
PS198	307.5	164.5	137.5	27.0
PS199	332.5	180.7	132.5	48.2
PS201	288.8	180.7	148.8	31.9
PS202	298.5	188.6	198.5	-9.9
PS203A	294.0	190.0	134.0	56.0
PS205	291.8	184.3	151.8	32.5
PS206	296.7	191.5	136.7	54.8
PS207	307.4	152.3	167.4	-15.1
PS208	314.0	150.9	204.0	-53.2
PS209	317.0	150.0	167.0	-17.0
PS211	316.7	150.0	176.7	-26.7
PS212	313.6	150.5	133.6	16.8
PS213A	319.7	150.3	139.7	10.7
PS217	314.9	171.0	164.9	6.1
PS218	312.6	165.4	172.6	-7.3
PS219	310.8	166.7	170.8	-4.1
PS220	311.5	166.1	211.5	-45.4
PS221	311.3	170.8	NA	NA
PS222-1	311.1	166.0	NA	NA
PS222-2	310.9	166.0	170.9	-4.9
PS223-1	318.7	215.7	228.7	-12.9
PS224	317.1	209.8	167.1	42.7
PS225	312.5	211.9	212.5	-0.7
PS230A	326.4	180.0	126.4	53.6
PS231	326.5	179.4	206.5	-27.2
PS232	326.8	180.1	216.8	-36.7
PS234	330.5	187.0	180.5	6.5
PS235	327.6	161.9	207.6	-45.7
PS236	332.4	163.9	212.4	-48.5
PS238	319.5	171.6	189.5	-17.9
PS240	321.9	174.2	181.9	-7.6
PS241	324.6	171.7	134.6	37.1
PS242	323.2	154.8	163.2	-8.4
PS243	324.8	156.6	194.8	-38.2
PS244	323.7	156.8	143.7	13.1
PS245	336.4	173.1	216.4	-43.3
PS249	313.9	153.6	193.9	-40.3
PS250	311.7	153.2	161.7	-8.4
PS251	310.4	152.7	140.4	12.3
PS252	319.7	153.4	179.7	-26.3
PS253-1	313.1	180.0	223.1	-43.1
PS253-2A	314.0	180.0	74.0	106.0

Table E-1
City of Fresno
Metro Plan Update - Phase 2 Report
2025 Projected Groundwater Elevation without Project
Comparison to Bowl Depth

WELL ID	USGS GROUND SURFACE ELEVATION (FT)	2025 GROUNDWATER ELEVATION⁽¹⁾ (FT)	BOWL DEPTH ELEVATION^(2,3) (FT)	STATIC GROUNDWATER LEVEL ABOVE PUMP BOWL SETTING⁽⁴⁾ (FT)
PS257	317.8	153.3	157.8	-4.5
PS258	322.8	154.7	172.8	-18.1
PS264	312.8	153.1	152.8	0.3
PS265	324.0	154.7	194.0	-39.4
PS266	322.2	152.5	182.2	-29.7
PS267	321.6	154.6	161.6	-7.0
PS271	317.4	157.9	167.4	-9.5
PS272	316.8	155.8	186.8	-31.0
PS273	317.2	155.0	NA	NA
PS274	320.4	236.9	220.4	16.4
PS275	324.4	239.4	177.4	61.9
PS276	318.4	231.8	218.4	13.4
PS277	333.3	256.0	213.3	42.7
PS279	335.4	160.7	155.4	5.3
PS280	330.2	163.4	170.2	-6.8
PS283	326.5	160.2	156.5	3.7
PS284	327.1	158.9	192.1	-33.2
PS286	322.0	158.0	172.0	-14.0
PS287	329.3	161.8	149.3	12.5
PS289-2	326.0	189.8	176.0	13.9
PS290	317.1	153.3	192.1	-38.8
PS291	312.0	153.7	162.0	-8.3
PS292	318.3	154.4	158.3	-4.0
PS295	364.4	227.2	234.4	-7.2
PS297-1	320.1	216.8	180.1	36.7
PS297-2	320.9	216.7	200.9	15.9
PS298	320.5	201.1	170.5	30.6
PS300	328.9	162.8	188.9	-26.1
PS302	325.8	165.7	165.8	0.0
PS303	328.7	164.9	148.7	16.2
PS304	316.5	167.7	176.5	-8.8
PS306	335.0	197.8	165.0	32.8
PS307	301.5	153.7	121.5	32.2
PS308	371.9	232.9	131.9	101.0
PS310	390.1	247.8	130.1	117.7
PS313	279.5	156.9	99.5	57.4
PS318	375.4	244.9	125.4	119.5
PS319	382.9	234.3	132.9	101.5
PS320	293.4	154.6	103.4	51.2
PS321	394.4	260.2	154.4	105.8
PS322	334.2	184.4	154.2	30.1
PS323	340.1	193.5	100.1	93.4
PS326	347.0	253.7	107.0	146.7
PS327	325.3	240.0	75.3	164.7

Table E-1
City of Fresno
Metro Plan Update - Phase 2 Report
2025 Projected Groundwater Elevation without Project
Comparison to Bowl Depth

WELL ID	USGS GROUND SURFACE ELEVATION (FT)	2025 GROUNDWATER ELEVATION⁽¹⁾ (FT)	BOWL DEPTH ELEVATION^(2,3) (FT)	STATIC GROUNDWATER LEVEL ABOVE PUMP BOWL SETTING⁽⁴⁾ (FT)
PS329	347.3	268.3	47.3	221.1
PS330	366.0	259.8	16.0	243.8
PS331	308.0	209.7	108.0	101.7
PS337	315.1	214.9	115.1	99.8
PS339	320.3	232.7	120.3	112.3
PS341	301.0	202.6	81.0	121.6

SUMMARY	No. of Wells	Percentage
Total number of Wells	270	100%
Wells with groundwater level below pump bowl depth	69	25.6%
Wells with groundwater level above 15 feet of the pump bowl depth	161	59.6%
Wells with no pump bowl depth information available	4	1.5%
Total number of Wells with groundwater level 15 feet or less above pump bowl depth	36	13.3%

⁽¹⁾ 2025 Projected Groundwater Elevation provided by WRIME. Represents the projected groundwater elevation without the water supply project proposed by the Metro Plan.

⁽²⁾ Bowl Depth Elevation based on City of Fresno Well Data dated November 2008. The bowl set data was subtracted from the USGS ground surface elevation to calculate the elevation at the depth to bowl.

⁽³⁾ NA - Pump bowl depth setting information is not available.

⁽⁴⁾ A negative difference between groundwater depth and bowl depth indicates which wells will have their pump bowls above the projected groundwater elevation by 2025 without the proposed Project.

Table E-2
City of Fresno
Metro Plan Update - Phase 2 Report
2060 Projected Groundwater Elevation without Project
Comparison to Bowl Depth

WELL ID	USGS GROUND SURFACE ELEVATION (FT)	2060 GROUNDWATER ELEVATION⁽¹⁾ (FT)	BOWL DEPTH ELEVATION^(2,3) (FT)	STATIC GROUNDWATER LEVEL ABOVE PUMP BOWL SETTING⁽⁴⁾ (FT)
PS001A	291.8	105.0	141.8	-36.8
PS002B	290.0	105.0	130.0	-25.0
PS003A	287.8	105.0	117.8	-12.8
PS004A	301.8	105.0	165.8	-60.8
PS004B	301.4	105.0	101.4	3.6
PS005A	316.3	105.0	166.3	-61.3
PS006B	335.7	168.1	135.7	32.4
PS008A	334.7	143.8	94.7	49.1
PS009A	282.6	105.0	132.6	-27.6
PS010A	299.4	105.0	149.4	-44.4
PS011A	312.3	107.9	152.3	-44.3
PS012A	304.0	105.0	174.0	-69.0
PS013A	295.1	105.0	145.1	-40.1
PS014A	301.5	107.9	91.5	16.3
PS016A	284.1	105.6	154.1	-48.5
PS017	307.7	105.0	147.7	-42.7
PS018A	301.9	105.0	151.9	-46.9
PS019A	306.0	110.0	156.0	-46.0
PS019B	304.6	110.0	104.6	5.4
PS020	295.8	108.4	145.8	-37.3
PS021A	293.8	105.0	93.8	11.2
PS022A	283.6	105.0	113.6	-8.6
PS024B	305.0	108.7	145.0	-36.3
PS025	312.3	105.0	162.3	-57.3
PS026A	279.8	105.6	129.8	-24.2
PS027A	279.1	105.1	129.1	-23.9
PS028A	291.9	105.0	151.9	-46.9
PS030A	306.5	109.4	166.5	-57.0
PS031A	300.2	105.0	150.2	-45.2
PS032B	311.3	110.0	131.3	-21.3
PS033A	291.5	108.6	151.5	-42.9
PS034A	306.4	109.8	126.4	-16.6
PS035A	304.7	109.7	154.7	-44.9
PS036	288.1	110.3	138.1	-27.8
PS037	308.5	106.3	158.5	-52.2
PS038A	307.9	105.0	167.9	-62.9
PS039A	292.4	106.6	172.4	-65.8
PS040A	280.0	112.9	150.0	-37.1
PS041	320.9	109.6	160.9	-51.4
PS042	302.6	105.0	142.6	-37.6
PS043	308.0	105.1	168.0	-62.9
PS044A	314.4	113.3	114.4	-1.0
PS045	324.7	117.3	174.7	-57.4
PS046	316.8	111.2	196.8	-85.7

Table E-2
City of Fresno
Metro Plan Update - Phase 2 Report
2060 Projected Groundwater Elevation without Project
Comparison to Bowl Depth

WELL ID	USGS GROUND SURFACE ELEVATION (FT)	2060 GROUNDWATER ELEVATION⁽¹⁾ (FT)	BOWL DEPTH ELEVATION^(2,3) (FT)	STATIC GROUNDWATER LEVEL ABOVE PUMP BOWL SETTING⁽⁴⁾ (FT)
PS046A	316.9	110.1	96.9	13.2
PS048	313.0	111.8	163.0	-51.2
PS049A	299.4	108.0	149.4	-41.3
PS050A	297.3	105.0	137.3	-32.3
PS051	314.4	105.0	204.4	-99.4
PS052	322.0	118.4	172.0	-53.6
PS053	321.7	115.0	161.7	-46.7
PS054	293.7	105.0	133.7	-28.7
PS055-1	340.0	167.7	200.0	-32.3
PS055-2	342.1	167.9	122.1	45.9
PS056	324.2	110.9	154.2	-43.3
PS057	314.6	105.0	154.6	-49.6
PS058	313.5	106.6	163.5	-56.9
PS059	313.3	112.3	153.3	-40.9
PS060	299.4	105.0	159.4	-54.4
PS062A	335.4	139.2	135.4	3.8
PS063	318.9	116.2	188.9	-72.7
PS064	329.2	127.0	209.2	-82.3
PS065	339.9	134.0	199.9	-65.8
PS066	290.0	105.0	140.0	-35.0
PS067	312.4	105.0	152.4	-47.4
PS068	333.2	128.2	163.2	-35.0
PS069A	311.1	105.0	141.1	-36.1
PS070	332.2	115.3	172.2	-56.9
PS071	308.2	105.0	158.2	-53.2
PS072	325.3	124.6	175.3	-50.8
PS073	330.4	129.9	180.4	-50.5
PS074	304.0	105.0	144.0	-39.0
PS075	340.0	137.4	160.0	-22.6
PS076	345.2	142.0	185.2	-43.2
PS077	311.3	113.8	130.3	-16.5
PS078	304.7	105.4	154.7	-49.4
PS079	325.0	114.6	165.0	-50.4
PS080	334.8	145.3	154.8	-9.5
PS081	335.0	135.5	135.0	0.6
PS082-1	310.9	117.6	80.9	36.7
PS082-2	312.0	117.7	92.0	25.7
PS083A	341.7	189.9	101.7	88.2
PS084	323.5	105.0	123.5	-18.5
PS085	348.5	153.2	148.5	4.7
PS086	366.3	177.5	146.3	31.2
PS087	305.4	112.0	165.4	-53.4
PS088-2	279.6	107.8	119.6	-11.8
PS089A	360.2	178.9	120.2	58.7

Table E-2
City of Fresno
Metro Plan Update - Phase 2 Report
2060 Projected Groundwater Elevation without Project
Comparison to Bowl Depth

WELL ID	USGS GROUND SURFACE ELEVATION (FT)	2060 GROUNDWATER ELEVATION⁽¹⁾ (FT)	BOWL DEPTH ELEVATION^(2,3) (FT)	STATIC GROUNDWATER LEVEL ABOVE PUMP BOWL SETTING⁽⁴⁾ (FT)
PS090	322.4	110.4	182.4	-72.0
PS091	331.8	121.4	131.8	-10.4
PS092	347.6	153.3	147.6	5.6
PS094	358.0	169.3	158.0	11.3
PS095	349.7	160.2	149.7	10.5
PS096	351.0	163.8	161.0	2.8
PS097	323.1	115.4	163.1	-47.7
PS098	346.5	152.2	126.5	25.7
PS099	295.2	107.9	160.2	-52.3
PS100-1	307.5	124.3	107.5	16.7
PS100-2	307.2	124.2	NA	NA
PS101A	337.0	166.8	37.0	129.8
PS102	332.6	161.5	162.6	-1.2
PS103	338.6	177.4	98.6	78.8
PS104	298.0	110.7	138.0	-27.3
PS105	297.4	109.8	117.4	-7.6
PS108	298.4	115.0	178.4	-63.4
PS117	328.7	121.1	178.7	-57.6
PS118	340.2	130.7	180.2	-49.5
PS125	326.7	119.1	156.7	-37.5
PS128	369.6	193.9	119.6	74.3
PS129	341.7	175.6	141.7	33.9
PS130	379.6	197.5	139.6	57.9
PS131	359.7	163.5	99.7	63.9
PS132	373.0	186.9	173.0	13.9
PS133	361.3	222.7	141.3	81.4
PS134	349.9	162.2	149.9	12.2
PS135A	328.3	174.2	198.3	-24.2
PS136	332.1	116.1	152.1	-36.0
PS137	354.9	166.9	154.9	11.9
PS138	279.4	108.8	119.4	-10.6
PS139	315.4	119.2	135.4	-16.2
PS140	354.5	209.7	154.5	55.2
PS141	337.0	127.5	137.0	-9.5
PS142	330.5	137.0	148.5	-11.5
PS143	354.2	190.9	154.2	36.6
PS144	345.5	147.3	145.5	1.8
PS145	334.5	138.8	54.5	84.3
PS146	308.5	115.0	158.5	-43.5
PS147	336.6	186.4	156.6	29.8
PS148-1	354.7	169.6	104.7	64.9
PS148-2	354.7	169.4	134.7	34.7
PS150	371.2	176.1	171.2	4.9
PS151	372.8	185.9	122.8	63.1

Table E-2
City of Fresno
Metro Plan Update - Phase 2 Report
2060 Projected Groundwater Elevation without Project
Comparison to Bowl Depth

WELL ID	USGS GROUND SURFACE ELEVATION (FT)	2060 GROUNDWATER ELEVATION⁽¹⁾ (FT)	BOWL DEPTH ELEVATION^(2,3) (FT)	STATIC GROUNDWATER LEVEL ABOVE PUMP BOWL SETTING⁽⁴⁾ (FT)
PS152	314.0	139.4	174.0	-34.5
PS153-1	314.9	125.7	114.9	10.9
PS153-2	314.9	125.5	154.9	-29.4
PS154	312.8	110.3	132.8	-22.4
PS155-1	327.9	107.4	127.9	-20.4
PS155-2	327.8	107.9	127.8	-19.8
PS157	356.2	158.1	116.2	41.9
PS158	308.8	113.2	128.8	-15.6
PS159	334.7	118.1	154.7	-36.5
PS160	300.9	120.5	150.9	-30.4
PS161	302.8	116.6	152.8	-36.2
PS162	286.8	121.6	166.8	-45.1
PS163	335.8	135.4	155.8	-20.4
PS164-1	306.3	118.8	106.3	12.5
PS164-2	306.8	118.8	156.8	-38.0
PS165-1	317.1	112.3	97.1	15.2
PS165-2	317.8	112.4	157.8	-45.4
PS166	334.4	172.1	134.4	37.7
PS168-1	385.0	215.5	165.0	50.5
PS168-2	385.0	215.7	165.0	50.7
PS169	295.4	109.5	115.4	-5.8
PS170	277.6	109.6	117.6	-8.1
PS171-1	284.4	109.0	114.4	-5.4
PS171-2	284.6	109.0	114.6	-5.6
PS172	282.4	106.2	57.4	48.8
PS174	282.7	107.9	122.7	-14.8
PS175-1	356.9	173.6	136.9	36.7
PS175-2	357.1	173.3	137.1	36.2
PS176	383.1	220.4	163.1	57.3
PS177	373.5	204.7	113.5	91.2
PS178	353.9	157.5	133.9	23.6
PS180-1	308.1	130.6	158.1	-27.5
PS180-2	308.4	130.8	168.4	-37.5
PS181	363.5	166.8	143.5	23.3
PS182-1	316.3	145.3	136.3	9.0
PS182-2	316.5	145.2	176.5	-31.2
PS183	298.6	116.8	118.6	-1.8
PS184	317.5	139.9	177.5	-37.6
PS185	390.1	230.6	160.1	70.5
PS186	387.5	219.4	147.5	71.9
PS187	362.7	184.1	112.7	71.4
PS188	318.0	152.7	78.0	74.7
PS189	309.2	121.3	129.2	-8.0
PS192	296.1	116.7	136.1	-19.4

Table E-2
City of Fresno
Metro Plan Update - Phase 2 Report
2060 Projected Groundwater Elevation without Project
Comparison to Bowl Depth

WELL ID	USGS GROUND SURFACE ELEVATION (FT)	2060 GROUNDWATER ELEVATION⁽¹⁾ (FT)	BOWL DEPTH ELEVATION^(2,3) (FT)	STATIC GROUNDWATER LEVEL ABOVE PUMP BOWL SETTING⁽⁴⁾ (FT)
PS193	308.1	105.0	128.1	-23.1
PS197	292.9	111.2	162.9	-51.6
PS198	307.5	105.0	137.5	-32.5
PS199	332.5	136.5	132.5	4.0
PS201	288.8	112.0	148.8	-36.8
PS202	298.5	115.0	198.5	-83.5
PS203A	294.0	111.9	134.0	-22.2
PS205	291.8	113.2	151.8	-38.6
PS206	296.7	116.1	136.7	-20.6
PS207	307.4	105.0	167.4	-62.4
PS208	314.0	105.0	204.0	-99.0
PS209	317.0	105.0	167.0	-62.0
PS211	316.7	105.0	176.7	-71.7
PS212	313.6	105.0	133.6	-28.6
PS213A	319.7	105.0	139.7	-34.7
PS217	314.9	112.4	164.9	-52.5
PS218	312.6	109.3	172.6	-63.3
PS219	310.8	108.1	170.8	-62.7
PS220	311.5	108.9	211.5	-102.6
PS221	311.3	111.1	NA	NA
PS222-1	311.1	108.2	NA	NA
PS222-2	310.9	108.2	170.9	-62.7
PS223-1	318.7	138.8	228.7	-89.8
PS224	317.1	133.4	167.1	-33.6
PS225	312.5	134.0	212.5	-78.5
PS230A	326.4	124.8	126.4	-1.6
PS231	326.5	121.4	206.5	-85.1
PS232	326.8	128.3	216.8	-88.5
PS234	330.5	137.6	180.5	-42.8
PS235	327.6	117.7	207.6	-89.9
PS236	332.4	120.0	212.4	-92.4
PS238	319.5	116.4	189.5	-73.1
PS240	321.9	117.4	181.9	-64.5
PS241	324.6	114.6	134.6	-20.0
PS242	323.2	106.1	163.2	-57.1
PS243	324.8	110.4	194.8	-84.4
PS244	323.7	110.1	143.7	-33.7
PS245	336.4	132.7	216.4	-83.8
PS249	313.9	105.0	193.9	-88.9
PS250	311.7	105.0	161.7	-56.7
PS251	310.4	105.0	140.4	-35.4
PS252	319.7	105.0	179.7	-74.7
PS253-1	313.1	110.4	223.1	-112.7
PS253-2A	314.0	110.5	74.0	36.5

Table E-2
City of Fresno
Metro Plan Update - Phase 2 Report
2060 Projected Groundwater Elevation without Project
Comparison to Bowl Depth

WELL ID	USGS GROUND SURFACE ELEVATION (FT)	2060 GROUNDWATER ELEVATION ⁽¹⁾ (FT)	BOWL DEPTH ELEVATION ^(2,3) (FT)	STATIC GROUNDWATER LEVEL ABOVE PUMP BOWL SETTING ⁽⁴⁾ (FT)
PS257	317.8	105.5	157.8	-52.3
PS258	322.8	107.0	172.8	-65.8
PS264	312.8	105.0	152.8	-47.7
PS265	324.0	107.4	194.0	-86.7
PS266	322.2	105.0	182.2	-77.2
PS267	321.6	107.0	161.6	-54.5
PS271	317.4	109.1	167.4	-58.2
PS272	316.8	107.9	186.8	-78.9
PS273	317.2	107.5	NA	NA
PS274	320.4	161.0	220.4	-59.4
PS275	324.4	165.6	177.4	-11.8
PS276	318.4	152.9	218.4	-65.4
PS277	333.3	185.8	213.3	-27.5
PS279	335.4	114.5	155.4	-40.9
PS280	330.2	119.6	170.2	-50.6
PS283	326.5	112.5	156.5	-44.0
PS284	327.1	114.2	192.1	-77.9
PS286	322.0	109.7	172.0	-62.3
PS287	329.3	113.3	149.3	-36.0
PS289-2	326.0	118.1	176.0	-57.9
PS290	317.1	105.7	192.1	-86.5
PS291	312.0	106.5	162.0	-55.6
PS292	318.3	106.9	158.3	-51.4
PS295	364.4	199.2	234.4	-35.2
PS297-1	320.1	141.7	180.1	-38.4
PS297-2	320.9	141.7	200.9	-59.2
PS298	320.5	127.1	170.5	-43.5
PS300	328.9	112.7	188.9	-76.2
PS302	325.8	115.0	165.8	-50.8
PS303	328.7	114.6	148.7	-34.1
PS304	316.5	117.9	176.5	-58.6
PS306	335.0	143.1	165.0	-21.9
PS307	301.5	106.5	121.5	-15.0
PS308	371.9	206.0	131.9	74.1
PS310	390.1	225.1	130.1	95.0
PS313	279.5	107.0	99.5	7.6
PS318	375.4	219.8	125.4	94.4
PS319	382.9	207.8	132.9	75.0
PS320	293.4	106.7	103.4	3.3
PS321	394.4	240.5	154.4	86.1
PS322	334.2	138.3	154.2	-16.0
PS323	340.1	146.3	100.1	46.2
PS326	347.0	190.3	107.0	83.3
PS327	325.3	163.0	75.3	87.7

Table E-2
City of Fresno
Metro Plan Update - Phase 2 Report
2060 Projected Groundwater Elevation without Project
Comparison to Bowl Depth

WELL ID	USGS GROUND SURFACE ELEVATION (FT)	2060 GROUNDWATER ELEVATION⁽¹⁾ (FT)	BOWL DEPTH ELEVATION^(2,3) (FT)	STATIC GROUNDWATER LEVEL ABOVE PUMP BOWL SETTING⁽⁴⁾ (FT)
PS329	347.3	203.1	47.3	155.8
PS330	366.0	243.9	16.0	227.9
PS331	308.0	130.6	108.0	22.6
PS337	315.1	136.0	115.1	20.9
PS339	320.3	154.7	120.3	34.4
PS341	301.0	122.6	81.0	41.6

SUMMARY	No. of Wells	Percentage
Total number of Wells	270	100%
Wells with groundwater level below pump bowl depth	188	69.6%
Wells with groundwater level above 15 feet of the pump bowl depth	56	20.7%
Wells with no pump bowl depth information available	4	1.5%
Total number of Wells with groundwater level 15 feet or less above pump bowl depth	22	8.1%

⁽¹⁾ 2060 Projected Groundwater Elevation provided by WRIME. Represents the projected groundwater elevation without the water supply project proposed by the Metro Plan.

⁽²⁾ Bowl Depth Elevation based on City of Fresno Well Data dated November 2008. The bowl set data was subtracted from the USGS ground surface elevation to calculate the elevation at the depth to bowl.

⁽³⁾ NA - Pump bowl depth setting information is not available.

⁽⁴⁾ A negative difference between groundwater depth and bowl depth indicates which wells will have their pump bowls above the projected groundwater elevation by 2025 without the proposed Project.

Table E-3
City of Fresno
Metro Plan Update - Phase 2 Report
2025 Projected Groundwater Elevation with Project
Comparison to Bowl Depth

WELL ID	USGS GROUND SURFACE ELEVATION (FT)	2025 GROUNDWATER ELEVATION⁽¹⁾ (FT)	BOWL DEPTH ELEVATION^(2,3) (FT)	STATIC GROUNDWATER LEVEL ABOVE PUMP BOWL SETTING⁽⁴⁾ (FT)
PS001A	291.8	195.1	141.8	53.3
PS002B	290.0	190.5	130.0	60.5
PS003A	287.8	190.4	117.8	72.5
PS004A	301.8	200.3	165.8	34.6
PS004B	301.4	201.3	101.4	99.9
PS005A	316.3	202.1	166.3	35.8
PS006B	335.7	232.2	135.7	96.5
PS008A	334.7	241.6	94.7	146.9
PS009A	282.6	184.1	132.6	51.5
PS010A	299.4	196.6	149.4	47.2
PS011A	312.3	185.6	152.3	33.3
PS012A	304.0	189.8	174.0	15.8
PS013A	295.1	188.2	145.1	43.1
PS014A	301.5	209.4	91.5	117.9
PS016A	284.1	187.4	154.1	33.4
PS017	307.7	191.6	147.7	43.9
PS018A	301.9	201.4	151.9	49.6
PS019A	306.0	214.3	156.0	58.3
PS019B	304.6	213.9	104.6	109.3
PS020	295.8	205.1	145.8	59.3
PS021A	293.8	192.6	93.8	98.9
PS022A	283.6	185.7	113.6	72.2
PS024B	305.0	210.5	145.0	65.5
PS025	312.3	197.8	162.3	35.5
PS026A	279.8	179.9	129.8	50.1
PS027A	279.1	181.4	129.1	52.3
PS028A	291.9	183.8	151.9	31.9
PS030A	306.5	213.1	166.5	46.6
PS031A	300.2	188.0	150.2	37.8
PS032B	311.3	215.0	131.3	83.7
PS033A	291.5	202.5	151.5	51.1
PS034A	306.4	184.5	126.4	58.1
PS035A	304.7	181.5	154.7	26.8
PS036	288.1	204.6	138.1	66.5
PS037	308.5	206.8	158.5	48.3
PS038A	307.9	194.8	167.9	26.9
PS039A	292.4	177.6	172.4	5.3
PS040A	280.0	198.7	150.0	48.7
PS041	320.9	206.3	160.9	45.4
PS042	302.6	185.8	142.6	43.2
PS043	308.0	205.2	168.0	37.1
PS044A	314.4	186.0	114.4	71.6
PS045	324.7	211.8	174.7	37.1
PS046	316.8	209.7	196.8	12.9

Table E-3
City of Fresno
Metro Plan Update - Phase 2 Report
2025 Projected Groundwater Elevation with Project
Comparison to Bowl Depth

WELL ID	USGS GROUND SURFACE ELEVATION (FT)	2025 GROUNDWATER ELEVATION⁽¹⁾ (FT)	BOWL DEPTH ELEVATION^(2,3) (FT)	STATIC GROUNDWATER LEVEL ABOVE PUMP BOWL SETTING⁽⁴⁾ (FT)
PS046A	316.9	209.4	96.9	112.4
PS048	313.0	217.6	163.0	54.6
PS049A	299.4	208.0	149.4	58.7
PS050A	297.3	196.3	137.3	59.0
PS051	314.4	202.3	204.4	-2.1
PS052	322.0	214.2	172.0	42.2
PS053	321.7	208.8	161.7	47.1
PS054	293.7	181.8	133.7	48.1
PS055-1	340.0	261.2	200.0	61.2
PS055-2	342.1	261.2	122.1	139.2
PS056	324.2	204.0	154.2	49.8
PS057	314.6	188.6	154.6	34.0
PS058	313.5	205.9	163.5	42.5
PS059	313.3	215.5	153.3	62.2
PS060	299.4	189.3	159.4	30.0
PS062A	335.4	223.7	135.4	88.3
PS063	318.9	218.7	188.9	29.8
PS064	329.2	212.3	209.2	3.0
PS065	339.9	215.2	199.9	15.3
PS066	290.0	192.0	140.0	52.0
PS067	312.4	195.0	152.4	42.6
PS068	333.2	210.8	163.2	47.6
PS069A	311.1	201.5	141.1	60.4
PS070	332.2	219.2	172.2	47.0
PS071	308.2	184.9	158.2	26.7
PS072	325.3	212.4	175.3	37.1
PS073	330.4	217.1	180.4	36.7
PS074	304.0	181.7	144.0	37.7
PS075	340.0	215.9	160.0	55.9
PS076	345.2	219.5	185.2	34.3
PS077	311.3	221.5	130.3	91.3
PS078	304.7	183.0	154.7	28.2
PS079	325.0	195.3	165.0	30.4
PS080	334.8	231.9	154.8	77.2
PS081	335.0	219.3	135.0	84.4
PS082-1	310.9	226.4	80.9	145.5
PS082-2	312.0	226.5	92.0	134.5
PS083A	341.7	244.2	101.7	142.5
PS084	323.5	215.0	123.5	91.5
PS085	348.5	225.5	148.5	77.0
PS086	366.3	240.9	146.3	94.6
PS087	305.4	180.3	165.4	14.9
PS088-2	279.6	174.1	119.6	54.5
PS089A	360.2	243.0	120.2	122.7

Table E-3
City of Fresno
Metro Plan Update - Phase 2 Report
2025 Projected Groundwater Elevation with Project
Comparison to Bowl Depth

WELL ID	USGS GROUND SURFACE ELEVATION (FT)	2025 GROUNDWATER ELEVATION⁽¹⁾ (FT)	BOWL DEPTH ELEVATION^(2,3) (FT)	STATIC GROUNDWATER LEVEL ABOVE PUMP BOWL SETTING⁽⁴⁾ (FT)
PS090	322.4	194.6	182.4	12.2
PS091	331.8	204.0	131.8	72.2
PS092	347.6	225.6	147.6	78.0
PS094	358.0	235.1	158.0	77.1
PS095	349.7	227.9	149.7	78.2
PS096	351.0	231.5	161.0	70.5
PS097	323.1	193.2	163.1	30.1
PS098	346.5	223.7	126.5	97.2
PS099	295.2	175.0	160.2	14.8
PS100-1	307.5	234.0	107.5	126.4
PS100-2	307.2	233.9	NA	NA
PS101A	337.0	265.7	37.0	228.7
PS102	332.6	266.1	162.6	103.5
PS103	338.6	236.8	98.6	138.3
PS104	298.0	177.8	138.0	39.9
PS105	297.4	177.5	117.4	60.1
PS108	298.4	217.8	178.4	39.4
PS117	328.7	205.5	178.7	26.9
PS118	340.2	210.3	180.2	30.1
PS125	326.7	218.0	156.7	61.4
PS128	369.6	252.8	119.6	133.2
PS129	341.7	237.9	141.7	96.3
PS130	379.6	254.3	139.6	114.7
PS131	359.7	232.6	99.7	133.0
PS132	373.0	247.8	173.0	74.8
PS133	361.3	263.2	141.3	121.9
PS134	349.9	232.2	149.9	82.2
PS135A	328.3	275.9	198.3	77.6
PS136	332.1	199.0	152.1	47.0
PS137	354.9	233.4	154.9	78.5
PS138	279.4	170.0	119.4	50.6
PS139	315.4	192.5	135.4	57.1
PS140	354.5	257.1	154.5	102.6
PS141	337.0	208.7	137.0	71.7
PS142	330.5	227.7	148.5	79.2
PS143	354.2	248.5	154.2	94.2
PS144	345.5	221.4	145.5	75.9
PS145	334.5	240.9	54.5	186.5
PS146	308.5	186.4	158.5	27.9
PS147	336.6	285.1	156.6	128.6
PS148-1	354.7	237.5	104.7	132.8
PS148-2	354.7	237.3	134.7	102.6
PS150	371.2	240.7	171.2	69.5
PS151	372.8	246.7	122.8	123.9

Table E-3
City of Fresno
Metro Plan Update - Phase 2 Report
2025 Projected Groundwater Elevation with Project
Comparison to Bowl Depth

WELL ID	USGS GROUND SURFACE ELEVATION (FT)	2025 GROUNDWATER ELEVATION⁽¹⁾ (FT)	BOWL DEPTH ELEVATION^(2,3) (FT)	STATIC GROUNDWATER LEVEL ABOVE PUMP BOWL SETTING⁽⁴⁾ (FT)
PS152	314.0	250.6	174.0	76.6
PS153-1	314.9	236.0	114.9	121.1
PS153-2	314.9	235.7	154.9	80.9
PS154	312.8	190.3	132.8	57.5
PS155-1	327.9	215.0	127.9	87.2
PS155-2	327.8	215.0	127.8	87.2
PS157	356.2	227.9	116.2	111.7
PS158	308.8	182.8	128.8	54.0
PS159	334.7	202.4	154.7	47.7
PS160	300.9	188.6	150.9	37.7
PS161	302.8	185.1	152.8	32.4
PS162	286.8	214.7	166.8	48.0
PS163	335.8	213.8	155.8	58.0
PS164-1	306.3	226.5	106.3	120.2
PS164-2	306.8	226.5	156.8	69.7
PS165-1	317.1	214.7	97.1	117.6
PS165-2	317.8	214.8	157.8	57.0
PS166	334.4	275.2	134.4	140.8
PS168-1	385.0	265.0	165.0	100.0
PS168-2	385.0	265.1	165.0	100.1
PS169	295.4	173.4	115.4	58.0
PS170	277.6	185.3	117.6	67.7
PS171-1	284.4	170.4	114.4	55.9
PS171-2	284.6	170.3	114.6	55.7
PS172	282.4	178.8	57.4	121.3
PS174	282.7	172.6	122.7	49.9
PS175-1	356.9	238.7	136.9	101.8
PS175-2	357.1	238.6	137.1	101.5
PS176	383.1	265.8	163.1	102.7
PS177	373.5	259.8	113.5	146.3
PS178	353.9	229.1	133.9	95.2
PS180-1	308.1	241.2	158.1	83.1
PS180-2	308.4	241.4	168.4	73.1
PS181	363.5	233.9	143.5	90.4
PS182-1	316.3	256.3	136.3	120.0
PS182-2	316.5	256.2	176.5	79.8
PS183	298.6	221.3	118.6	102.7
PS184	317.5	251.0	177.5	73.5
PS185	390.1	275.1	160.1	115.0
PS186	387.5	268.8	147.5	121.3
PS187	362.7	245.9	112.7	133.2
PS188	318.0	262.6	78.0	184.6
PS189	309.2	191.3	129.2	62.0
PS192	296.1	181.6	136.1	45.5

Table E-3
City of Fresno
Metro Plan Update - Phase 2 Report
2025 Projected Groundwater Elevation with Project
Comparison to Bowl Depth

WELL ID	USGS GROUND SURFACE ELEVATION (FT)	2025 GROUNDWATER ELEVATION⁽¹⁾ (FT)	BOWL DEPTH ELEVATION^(2,3) (FT)	STATIC GROUNDWATER LEVEL ABOVE PUMP BOWL SETTING⁽⁴⁾ (FT)
PS193	308.1	194.4	128.1	66.3
PS197	292.9	210.2	162.9	47.4
PS198	307.5	201.9	137.5	64.4
PS199	332.5	223.6	132.5	91.0
PS201	288.8	207.3	148.8	58.5
PS202	298.5	217.0	198.5	18.5
PS203A	294.0	215.0	134.0	81.0
PS205	291.8	213.3	151.8	61.5
PS206	296.7	220.0	136.7	83.3
PS207	307.4	191.2	167.4	23.9
PS208	314.0	194.3	204.0	-9.7
PS209	317.0	191.2	167.0	24.2
PS211	316.7	191.3	176.7	14.5
PS212	313.6	193.8	133.6	60.2
PS213A	319.7	190.9	139.7	51.3
PS217	314.9	213.0	164.9	48.1
PS218	312.6	209.2	172.6	36.5
PS219	310.8	209.0	170.8	38.2
PS220	311.5	209.2	211.5	-2.3
PS221	311.3	212.3	NA	NA
PS222-1	311.1	208.8	NA	NA
PS222-2	310.9	208.8	170.9	37.8
PS223-1	318.7	249.2	228.7	20.5
PS224	317.1	243.6	167.1	76.5
PS225	312.5	244.7	212.5	32.2
PS230A	326.4	222.2	126.4	95.8
PS231	326.5	220.6	206.5	14.1
PS232	326.8	222.9	216.8	6.1
PS234	330.5	228.9	180.5	48.4
PS235	327.6	206.3	207.6	-1.3
PS236	332.4	208.2	212.4	-4.1
PS238	319.5	214.7	189.5	25.2
PS240	321.9	217.1	181.9	35.2
PS241	324.6	214.4	134.6	79.8
PS242	323.2	199.4	163.2	36.1
PS243	324.8	199.7	194.8	4.9
PS244	323.7	200.7	143.7	57.0
PS245	336.4	215.0	216.4	-1.4
PS249	313.9	197.5	193.9	3.5
PS250	311.7	197.8	161.7	36.1
PS251	310.4	196.7	140.4	56.2
PS252	319.7	197.5	179.7	17.8
PS253-1	313.1	217.2	223.1	-5.9
PS253-2A	314.0	217.2	74.0	143.3

Table E-3
City of Fresno
Metro Plan Update - Phase 2 Report
2025 Projected Groundwater Elevation with Project
Comparison to Bowl Depth

WELL ID	USGS GROUND SURFACE ELEVATION (FT)	2025 GROUNDWATER ELEVATION⁽¹⁾ (FT)	BOWL DEPTH ELEVATION^(2,3) (FT)	STATIC GROUNDWATER LEVEL ABOVE PUMP BOWL SETTING⁽⁴⁾ (FT)
PS257	317.8	189.0	157.8	31.2
PS258	322.8	192.1	172.8	19.3
PS264	312.8	191.6	152.8	38.8
PS265	324.0	197.3	194.0	3.3
PS266	322.2	192.3	182.2	10.1
PS267	321.6	197.9	161.6	36.4
PS271	317.4	191.6	167.4	24.3
PS272	316.8	188.7	186.8	1.9
PS273	317.2	191.7	NA	NA
PS274	320.4	267.5	220.4	47.0
PS275	324.4	270.3	177.4	92.8
PS276	318.4	262.2	218.4	43.9
PS277	333.3	284.4	213.3	71.1
PS279	335.4	200.0	155.4	44.6
PS280	330.2	204.2	170.2	33.9
PS283	326.5	198.2	156.5	41.8
PS284	327.1	201.9	192.1	9.8
PS286	322.0	195.4	172.0	23.3
PS287	329.3	198.3	149.3	49.0
PS289-2	326.0	225.4	176.0	49.5
PS290	317.1	187.5	192.1	-4.6
PS291	312.0	185.4	162.0	23.4
PS292	318.3	187.3	158.3	29.0
PS295	364.4	252.7	234.4	18.4
PS297-1	320.1	250.5	180.1	70.4
PS297-2	320.9	250.4	200.9	49.6
PS298	320.5	235.9	170.5	65.4
PS300	328.9	197.2	188.9	8.3
PS302	325.8	199.3	165.8	33.6
PS303	328.7	199.2	148.7	50.5
PS304	316.5	193.2	176.5	16.7
PS306	335.0	235.0	165.0	70.0
PS307	301.5	181.0	121.5	59.5
PS308	371.9	260.7	131.9	128.9
PS310	390.1	270.2	130.1	140.1
PS313	279.5	178.6	99.5	79.2
PS318	375.4	270.1	125.4	144.7
PS319	382.9	261.5	132.9	128.6
PS320	293.4	177.6	103.4	74.2
PS321	394.4	279.5	154.4	125.1
PS322	334.2	226.6	154.2	72.4
PS323	340.1	231.5	100.1	131.4
PS326	347.0	277.8	107.0	170.8
PS327	325.3	268.9	75.3	193.6

Table E-3
City of Fresno
Metro Plan Update - Phase 2 Report
2025 Projected Groundwater Elevation with Project
Comparison to Bowl Depth

WELL ID	USGS GROUND SURFACE ELEVATION (FT)	2025 GROUNDWATER ELEVATION⁽¹⁾ (FT)	BOWL DEPTH ELEVATION^(2,3) (FT)	STATIC GROUNDWATER LEVEL ABOVE PUMP BOWL SETTING⁽⁴⁾ (FT)
PS329	347.3	291.5	47.3	244.2
PS330	366.0	276.2	16.0	260.2
PS331	308.0	241.3	108.0	133.3
PS337	315.1	247.0	115.1	131.9
PS339	320.3	263.2	120.3	142.9
PS341	301.0	231.8	81.0	150.8

SUMMARY	No. of Wells	Percentage
Total number of Wells	270	100%
Wells with groundwater level below pump bowl depth	8	3.0%
Wells with groundwater level above 15 feet of the pump bowl depth	242	89.6%
Wells with no pump bowl depth information available	4	1.5%
Total number of Wells with groundwater level 15 feet or less above pump bowl depth	16	5.9%

⁽¹⁾ 2025 Projected Groundwater Elevation provided by WRIME. Represents the projected groundwater elevation with the water supply project proposed by the Metro Plan.

⁽²⁾ Bowl Depth Elevation based on City of Fresno Well Data dated November 2008. The bowl set data was subtracted from the USGS ground surface elevation to calculate the elevation at the depth to bowl.

⁽³⁾ NA - Pump bowl depth setting information is not available.

⁽⁴⁾ A negative difference between groundwater depth and bowl depth indicates which wells will have their pump bowls above the projected groundwater elevation by 2025 without the proposed Project.

Table E-4
City of Fresno
Metro Plan Update - Phase 2 Report
2060 Projected Groundwater Elevation with Project
Comparison to Bowl Depth

WELL ID	USGS GROUND SURFACE ELEVATION (FT)	2060 GROUNDWATER ELEVATION⁽¹⁾ (FT)	BOWL DEPTH ELEVATION^(2,3) (FT)	STATIC GROUNDWATER LEVEL ABOVE PUMP BOWL SETTING⁽⁴⁾ (FT)
PS001A	291.8	198.6	141.8	56.9
PS002B	290.0	198.3	130.0	68.3
PS003A	287.8	193.9	117.8	76.0
PS004A	301.8	206.1	165.8	40.4
PS004B	301.4	206.8	101.4	105.4
PS005A	316.3	212.5	166.3	46.2
PS006B	335.7	237.6	135.7	101.9
PS008A	334.7	229.7	94.7	135.1
PS009A	282.6	190.6	132.6	58.0
PS010A	299.4	202.8	149.4	53.5
PS011A	312.3	202.9	152.3	50.6
PS012A	304.0	203.1	174.0	29.1
PS013A	295.1	199.3	145.1	54.2
PS014A	301.5	207.5	91.5	116.0
PS016A	284.1	191.4	154.1	37.3
PS017	307.7	203.1	147.7	55.4
PS018A	301.9	205.6	151.9	53.7
PS019A	306.0	209.9	156.0	53.9
PS019B	304.6	209.9	104.6	105.3
PS020	295.8	203.3	145.8	57.5
PS021A	293.8	197.9	93.8	104.1
PS022A	283.6	192.7	113.6	79.2
PS024B	305.0	210.7	145.0	65.7
PS025	312.3	207.4	162.3	45.1
PS026A	279.8	187.3	129.8	57.5
PS027A	279.1	189.9	129.1	60.8
PS028A	291.9	195.5	151.9	43.6
PS030A	306.5	210.0	166.5	43.6
PS031A	300.2	201.1	150.2	50.8
PS032B	311.3	210.0	131.3	78.7
PS033A	291.5	200.3	151.5	48.9
PS034A	306.4	202.0	126.4	75.6
PS035A	304.7	199.9	154.7	45.2
PS036	288.1	200.2	138.1	62.1
PS037	308.5	209.9	158.5	51.3
PS038A	307.9	206.2	167.9	38.3
PS039A	292.4	193.1	172.4	20.7
PS040A	280.0	193.8	150.0	43.7
PS041	320.9	213.5	160.9	52.6
PS042	302.6	200.7	142.6	58.0
PS043	308.0	210.0	168.0	41.9
PS044A	314.4	202.4	114.4	88.0
PS045	324.7	218.5	174.7	43.8
PS046	316.8	214.5	196.8	17.7

Table E-4
City of Fresno
Metro Plan Update - Phase 2 Report
2060 Projected Groundwater Elevation with Project
Comparison to Bowl Depth

WELL ID	USGS GROUND SURFACE ELEVATION (FT)	2060 GROUNDWATER ELEVATION⁽¹⁾ (FT)	BOWL DEPTH ELEVATION^(2,3) (FT)	STATIC GROUNDWATER LEVEL ABOVE PUMP BOWL SETTING⁽⁴⁾ (FT)
PS046A	316.9	214.0	96.9	117.1
PS048	313.0	210.3	163.0	47.4
PS049A	299.4	206.0	149.4	56.6
PS050A	297.3	201.5	137.3	64.2
PS051	314.4	210.5	204.4	6.1
PS052	322.0	218.7	172.0	46.7
PS053	321.7	217.2	161.7	55.4
PS054	293.7	195.0	133.7	61.3
PS055-1	340.0	245.9	200.0	45.9
PS055-2	342.1	246.0	122.1	124.0
PS056	324.2	215.0	154.2	60.8
PS057	314.6	204.1	154.6	49.5
PS058	313.5	211.7	163.5	48.2
PS059	313.3	211.7	153.3	58.4
PS060	299.4	201.1	159.4	41.7
PS062A	335.4	229.0	135.4	93.5
PS063	318.9	214.0	188.9	25.1
PS064	329.2	221.7	209.2	12.5
PS065	339.9	224.9	199.9	25.0
PS066	290.0	199.8	140.0	59.8
PS067	312.4	207.5	152.4	55.0
PS068	333.2	221.5	163.2	58.3
PS069A	311.1	209.0	141.1	67.9
PS070	332.2	211.3	172.2	39.1
PS071	308.2	200.8	158.2	42.6
PS072	325.3	220.5	175.3	45.2
PS073	330.4	223.4	180.4	43.1
PS074	304.0	197.3	144.0	53.3
PS075	340.0	226.0	160.0	66.0
PS076	345.2	228.9	185.2	43.7
PS077	311.3	212.5	130.3	82.3
PS078	304.7	200.7	154.7	45.9
PS079	325.0	209.4	165.0	44.4
PS080	334.8	234.6	154.8	79.9
PS081	335.0	225.9	135.0	90.9
PS082-1	310.9	215.4	80.9	134.5
PS082-2	312.0	215.5	92.0	123.5
PS083A	341.7	248.2	101.7	146.5
PS084	323.5	200.6	123.5	77.1
PS085	348.5	234.0	148.5	85.5
PS086	366.3	246.3	146.3	100.0
PS087	305.4	198.8	165.4	33.4
PS088-2	279.6	182.6	119.6	63.0
PS089A	360.2	248.9	120.2	128.7

Table E-4
City of Fresno
Metro Plan Update - Phase 2 Report
2060 Projected Groundwater Elevation with Project
Comparison to Bowl Depth

WELL ID	USGS GROUND SURFACE ELEVATION (FT)	2060 GROUNDWATER ELEVATION⁽¹⁾ (FT)	BOWL DEPTH ELEVATION^(2,3) (FT)	STATIC GROUNDWATER LEVEL ABOVE PUMP BOWL SETTING⁽⁴⁾ (FT)
PS090	322.4	209.1	182.4	26.6
PS091	331.8	215.9	131.8	84.1
PS092	347.6	234.0	147.6	86.3
PS094	358.0	241.1	158.0	83.1
PS095	349.7	235.5	149.7	85.8
PS096	351.0	237.8	161.0	76.8
PS097	323.1	207.8	163.1	44.7
PS098	346.5	230.8	126.5	104.3
PS099	295.2	195.3	160.2	35.2
PS100-1	307.5	219.6	107.5	112.1
PS100-2	307.2	219.5	NA	NA
PS101A	337.0	246.6	37.0	209.6
PS102	332.6	248.8	162.6	86.2
PS103	338.6	241.5	98.6	142.9
PS104	298.0	197.6	138.0	59.7
PS105	297.4	197.4	117.4	80.0
PS108	298.4	208.7	178.4	30.3
PS117	328.7	217.5	178.7	38.8
PS118	340.2	221.3	180.2	41.1
PS125	326.7	218.9	156.7	62.2
PS128	369.6	257.6	119.6	137.9
PS129	341.7	243.0	141.7	101.3
PS130	379.6	258.4	139.6	118.8
PS131	359.7	240.0	99.7	140.3
PS132	373.0	253.0	173.0	80.0
PS133	361.3	265.5	141.3	124.1
PS134	349.9	240.0	149.9	90.0
PS135A	328.3	254.3	198.3	55.9
PS136	332.1	212.1	152.1	60.1
PS137	354.9	240.8	154.9	85.8
PS138	279.4	190.1	119.4	70.8
PS139	315.4	206.6	135.4	71.2
PS140	354.5	259.9	154.5	105.4
PS141	337.0	219.5	137.0	82.5
PS142	330.5	229.9	148.5	81.4
PS143	354.2	252.8	154.2	98.5
PS144	345.5	230.1	145.5	84.6
PS145	334.5	225.4	54.5	170.9
PS146	308.5	202.0	158.5	43.5
PS147	336.6	265.2	156.6	108.6
PS148-1	354.7	244.4	104.7	139.7
PS148-2	354.7	244.2	134.7	109.5
PS150	371.2	246.8	171.2	75.6
PS151	372.8	251.7	122.8	128.9

Table E-4
City of Fresno
Metro Plan Update - Phase 2 Report
2060 Projected Groundwater Elevation with Project
Comparison to Bowl Depth

WELL ID	USGS GROUND SURFACE ELEVATION (FT)	2060 GROUNDWATER ELEVATION⁽¹⁾ (FT)	BOWL DEPTH ELEVATION^(2,3) (FT)	STATIC GROUNDWATER LEVEL ABOVE PUMP BOWL SETTING⁽⁴⁾ (FT)
PS152	314.0	233.5	174.0	59.5
PS153-1	314.9	222.7	114.9	107.8
PS153-2	314.9	222.5	154.9	67.6
PS154	312.8	205.9	132.8	73.1
PS155-1	327.9	200.8	127.9	73.0
PS155-2	327.8	201.2	127.8	73.4
PS157	356.2	234.6	116.2	118.4
PS158	308.8	199.9	128.8	71.1
PS159	334.7	214.6	154.7	60.0
PS160	300.9	202.3	150.9	51.4
PS161	302.8	200.3	152.8	47.5
PS162	286.8	201.0	166.8	34.3
PS163	335.8	224.2	155.8	68.4
PS164-1	306.3	215.3	106.3	109.0
PS164-2	306.8	215.2	156.8	58.5
PS165-1	317.1	213.1	97.1	116.0
PS165-2	317.8	213.1	157.8	55.3
PS166	334.4	256.4	134.4	122.0
PS168-1	385.0	267.8	165.0	102.7
PS168-2	385.0	267.8	165.0	102.8
PS169	295.4	195.2	115.4	79.8
PS170	277.6	185.4	117.6	67.8
PS171-1	284.4	192.4	114.4	78.0
PS171-2	284.6	192.4	114.6	77.8
PS172	282.4	192.8	57.4	135.4
PS174	282.7	190.9	122.7	68.2
PS175-1	356.9	245.8	136.9	108.8
PS175-2	357.1	245.6	137.1	108.5
PS176	383.1	268.0	163.1	104.8
PS177	373.5	263.6	113.5	150.1
PS178	353.9	237.4	133.9	103.5
PS180-1	308.1	225.2	158.1	67.0
PS180-2	308.4	225.4	168.4	57.0
PS181	363.5	240.4	143.5	97.0
PS182-1	316.3	237.8	136.3	101.5
PS182-2	316.5	237.7	176.5	61.3
PS183	298.6	209.2	118.6	90.7
PS184	317.5	234.5	177.5	57.0
PS185	390.1	277.0	160.1	116.9
PS186	387.5	271.4	147.5	123.9
PS187	362.7	252.0	112.7	139.3
PS188	318.0	242.4	78.0	164.4
PS189	309.2	204.8	129.2	75.6
PS192	296.1	197.7	136.1	61.6

Table E-4
City of Fresno
Metro Plan Update - Phase 2 Report
2060 Projected Groundwater Elevation with Project
Comparison to Bowl Depth

WELL ID	USGS GROUND SURFACE ELEVATION (FT)	2060 GROUNDWATER ELEVATION⁽¹⁾ (FT)	BOWL DEPTH ELEVATION^(2,3) (FT)	STATIC GROUNDWATER LEVEL ABOVE PUMP BOWL SETTING⁽⁴⁾ (FT)
PS193	308.1	204.0	128.1	75.9
PS197	292.9	204.9	162.9	42.1
PS198	307.5	204.4	137.5	66.9
PS199	332.5	228.6	132.5	96.1
PS201	288.8	201.1	148.8	52.3
PS202	298.5	206.8	198.5	8.3
PS203A	294.0	200.0	134.0	66.0
PS205	291.8	205.5	151.8	53.7
PS206	296.7	208.3	136.7	71.5
PS207	307.4	203.9	167.4	36.5
PS208	314.0	207.8	204.0	3.8
PS209	317.0	205.8	167.0	38.8
PS211	316.7	205.8	176.7	29.1
PS212	313.6	207.5	133.6	73.9
PS213A	319.7	206.0	139.7	66.3
PS217	314.9	213.8	164.9	49.0
PS218	312.6	213.1	172.6	40.4
PS219	310.8	211.2	170.8	40.4
PS220	311.5	212.4	211.5	0.9
PS221	311.3	212.7	NA	NA
PS222-1	311.1	211.6	NA	NA
PS222-2	310.9	211.6	170.9	40.7
PS223-1	318.7	233.5	228.7	4.9
PS224	317.1	229.2	167.1	62.1
PS225	312.5	229.6	212.5	17.1
PS230A	326.4	221.8	126.4	95.4
PS231	326.5	219.1	206.5	12.6
PS232	326.8	224.4	216.8	7.6
PS234	330.5	230.3	180.5	49.8
PS235	327.6	217.3	207.6	9.7
PS236	332.4	218.4	212.4	6.0
PS238	319.5	217.3	189.5	27.8
PS240	321.9	217.4	181.9	35.6
PS241	324.6	215.8	134.6	81.2
PS242	323.2	212.4	163.2	49.1
PS243	324.8	213.0	194.8	18.3
PS244	323.7	213.6	143.7	69.9
PS245	336.4	224.2	216.4	7.8
PS249	313.9	208.7	193.9	14.8
PS250	311.7	209.5	161.7	47.8
PS251	310.4	208.8	140.4	68.4
PS252	319.7	210.6	179.7	30.9
PS253-1	313.1	209.4	223.1	-13.7
PS253-2A	314.0	209.3	74.0	135.4

Table E-4
City of Fresno
Metro Plan Update - Phase 2 Report
2060 Projected Groundwater Elevation with Project
Comparison to Bowl Depth

WELL ID	USGS GROUND SURFACE ELEVATION (FT)	2060 GROUNDWATER ELEVATION⁽¹⁾ (FT)	BOWL DEPTH ELEVATION^(2,3) (FT)	STATIC GROUNDWATER LEVEL ABOVE PUMP BOWL SETTING⁽⁴⁾ (FT)
PS257	317.8	205.3	157.8	47.5
PS258	322.8	207.7	172.8	34.9
PS264	312.8	207.2	152.8	54.4
PS265	324.0	211.1	194.0	17.0
PS266	322.2	207.4	182.2	25.2
PS267	321.6	211.5	161.6	49.9
PS271	317.4	207.1	167.4	39.7
PS272	316.8	204.9	186.8	18.1
PS273	317.2	207.3	NA	NA
PS274	320.4	247.8	220.4	27.4
PS275	324.4	251.2	177.4	73.8
PS276	318.4	242.5	218.4	24.1
PS277	333.3	263.9	213.3	50.6
PS279	335.4	213.5	155.4	58.1
PS280	330.2	216.6	170.2	46.4
PS283	326.5	211.9	156.5	55.5
PS284	327.1	214.6	192.1	22.5
PS286	322.0	209.8	172.0	37.8
PS287	329.3	211.9	149.3	62.6
PS289-2	326.0	211.8	176.0	35.9
PS290	317.1	204.2	192.1	12.0
PS291	312.0	202.8	162.0	40.7
PS292	318.3	204.0	158.3	45.7
PS295	364.4	256.2	234.4	21.8
PS297-1	320.1	234.6	180.1	54.5
PS297-2	320.9	234.5	200.9	33.7
PS298	320.5	222.8	170.5	52.3
PS300	328.9	210.8	188.9	21.9
PS302	325.8	212.4	165.8	46.7
PS303	328.7	212.3	148.7	63.6
PS304	316.5	207.4	176.5	30.9
PS306	335.0	230.9	165.0	65.9
PS307	301.5	199.4	121.5	77.9
PS308	371.9	264.8	131.9	132.9
PS310	390.1	272.4	130.1	142.3
PS313	279.5	189.6	99.5	90.2
PS318	375.4	273.1	125.4	147.6
PS319	382.9	264.9	132.9	132.0
PS320	293.4	196.8	103.4	93.4
PS321	394.4	281.1	154.4	126.7
PS322	334.2	230.4	154.2	76.2
PS323	340.1	235.0	100.1	134.9
PS326	347.0	259.9	107.0	152.9
PS327	325.3	247.6	75.3	172.4

Table E-4
City of Fresno
Metro Plan Update - Phase 2 Report
2060 Projected Groundwater Elevation with Project
Comparison to Bowl Depth

WELL ID	USGS GROUND SURFACE ELEVATION (FT)	2060 GROUNDWATER ELEVATION⁽¹⁾ (FT)	BOWL DEPTH ELEVATION^(2,3) (FT)	STATIC GROUNDWATER LEVEL ABOVE PUMP BOWL SETTING⁽⁴⁾ (FT)
PS329	347.3	269.4	47.3	222.1
PS330	366.0	277.8	16.0	261.8
PS331	308.0	226.0	108.0	118.0
PS337	315.1	231.1	115.1	116.0
PS339	320.3	243.4	120.3	123.1
PS341	301.0	216.7	81.0	135.7

SUMMARY	No. of Wells	Percentage
Total number of Wells	270	100%
Wells with groundwater level below pump bowl depth	1	0.4%
Wells with groundwater level above 15 feet of the pump bowl depth	252	93.3%
Wells with no pump bowl depth information available	4	1.5%
Total number of Wells with groundwater level 15 feet or less above pump bowl depth	13	4.8%

⁽¹⁾ 2060 Projected Groundwater Elevation provided by WRIME. Represents the projected groundwater elevation with the water supply project proposed by the Metro Plan.

⁽²⁾ Bowl Depth Elevation based on City of Fresno Well Data dated November 2008. The bowl set data was subtracted from the USGS ground surface elevation to calculate the elevation at the depth to bowl.

⁽³⁾ NA - Pump bowl depth setting information is not available.

⁽⁴⁾ A negative difference between groundwater depth and bowl depth indicates which wells will have their pump bowls above the projected groundwater elevation by 2025 without the proposed Project.