TABLE 7

Groundwater Volumes Removed During Study Well Development and Aquifer Testing

PAPA Data Gaps Study

Well ID	Total Casing Depth	Casing ID	Depth to Water (9/2010)	Depth to Water (6/2011)	Groundwater Elevation (9/2010)	Groundwater Elevation (6/2011)	One Casing Volume	Developed Volume Purged (gal)		Aquifer Test Volume Removed (gal)		Total Volume Removed	Total Casing Volumes Removed
	(feet)	(inches)	(feet btc)		(feet amsl)		(gal)	2010	2011	2010	2011	(gal)	(gal)
T-1-RW	652	5.06	179.85	174.65	7050.30	7055.50	487	560	0	8,583	0	9,143	19
T-1-SW	147.5	3.75	93.78	93.58	7136.59	7136.79	35	67	0	5,835	0	5,902	168
T-2a-G	18	3.75	Dry	Dry	---	---	0	0	0	0	0	dry	dry
T-2b-G	15	3.75	Dry	Dry	---	---	0	0	0	0	0	dry	dry
T-2-RW	770	5.06	492.50	502.02	6968.15	6958.63	273	280	1,490	0	0	1,770	6
T-2-SW	375	3.75	Dry	Dry	---	---	0	0	0	0	0	dry	dry
T-3-RW	747	5.06	409.49	408.61	6949.44	6950.32	345	564	507	0	11,100	12,171	35
T-3-SW	446.5	5.06	355.43	402.66	7003.53	6956.30	45	240	400	0	0	640	14
T-4-RWa	460	5.06	217.2	215.65	6960.79	6962.34	249	LEL*	140	0	0	140	0.6
T-4-RWb	657	5.06	220.38	219.63	6957.63	6958.38	446	950	5,400	0	25,325	31,675	71
T-4-SW	190	3.75	50.19	50.55	7128.02	7127.66	91	400	678	0	9,745	10,823	119
T-5-RW	590.5	5.06	69.67	69.02	6949.05	6949.70	532	600	0	0	5,350	5,950	11
T-6-RW	497	5.06	126.7	126.30	6874.44	6874.84	378	380	2,456	0	0	2,836	8
T-6-SW	257	3.75	141.97	143.30	6858.16	6856.83	74	150	140	0	0	290	4
T-7-RW	518	5.75	206.07	203.61	7126.08	7128.54	459	240	538	0	0	778	2
T-7-SW	217	3.75	133.61	125.25	7197.02	7205.38	60	240	53	0	0	293	5
T-8-A	15	3.75	10.55	10.09	6919.26	6919.72	3	650	690	0	0	1,340	420
T-8-SW	228	3.75	Flowing artesian	Flowing artesian	---	---	148	280	690	0	2,945	3,915	26
T-9-RW	780.5	5.06	328.61	330.25	6969.34	6967.70	459	630	440	0	695	1,765	4
X-1-A	30	3.75	7.04	6.33	7174.84	7175.55	15	300	99	0	0	399	26
X-1-SW	150.9	3.75	6.86	5.79	7175.19	7176.26	94	460	638	0	0	1,098	12
X-2-A	30	3.75	6.51	6.28	7108.68	7108.91	15	300	0	20,719	0	21,019	1,363
X-2-SW	150	3.75	5.06	4.98	7110.14	7110.22	94	400	0	19,355	0	19,755	210
X-3-A	37.5	3.75	11.51	13.60	6983.81	6981.72	16	600	240	0	0	840	54
X-3-SW	246	3.75	16.36	16.43	6979.06	6978.99	149	270	777	0	0	1,047	7
X-4a-A	18	3.75	7.59	7.05	6882.67	6883.21	7	120	600	0	0	720	101
X-4-RW	412	5.06	Flowing artesian	Flowing artesian	---	---	420	artesian	1,200	0	8,365	9,565	23
X-4-SW	212	5.06	Flowing artesian	Flowing artesian	---	---	216	artesian	0	0	7,030	7,030	33
X-5-A	16	3.75	5.91	3.53	6806.70	6809.08	8	50	389	0	0	439	54
X-5-SW	200	4.0	Flowing artesian	Flowing artesian	---	---	130	artesian	694	0	0	694	5

Notes: btc = below top of casing; amsl = above mean sea level; gal = gallons.
Well T-4-RWa exceeded LEL criterion for safety in 2010; therefore it was not purged.
Well development methods in 2010 included hand bailing, air lifting, and pump/surge. In 2011, the pump/surge method was used.
See Figures 3 & 4 for study well locations.