Table 4-1. SVE Well Construction Summary

Location ID	Easting	Northing	Ground Elevation	Depth	Date Install	Well Type	Casing Diameter (in)	Casing Type	Screen Top	Screen Bottom	Slot Size	Screen Interval	Top Sand Pack	Bottom Sand Pack	Sand Pack Interval
SVEW-01-260	1,541,421.4	1,473,522.6	5,343.3	260.0	02/25/2003	SVE Extraction Well	2.00	PVC	245	260	0.050	15	240	265	20
SVEW-02-060	1,541,431.0	1,473,524.9	5,343.4	60.0	09/09/2003	SVE Extraction Well	2.00	PVC	45	60	0.050	15	40	60	20
SVEW-03-160	1,541,431.1	1,473,523.8	5,343.4	160.0	09/09/2003	SVE Extraction Well	2.00	PVC	145	160	0.050	15	139	160	20
SVEW-04-313	1,541,409.4	1,473,525.0	5,343.4	313.0	09/17/2003	SVE Extraction Well	2.00	PVC	298	313	0.050	15	293	313	20
SVEW-05-460	1,541,410.3	1,473,525.1	5,343.4	460.0	09/17/2003	SVE Extraction Well	2.00	PVC	445	460	0.050	15	440	460	20
SVEW-06-060	1,541,234.4	1,473,527.2	5,343.4	60.0	08/25/2003	SVE Extraction Well	2.00	PVC	45	60	0.050	15	40	60	20
SVEW-07-160	1,541,235.1	1,473,527.2	5,343.4	160.0	08/25/2003	SVE Extraction Well	2.00	PVC	145	160	0.050	15	139	160	20
SVEW-08-260	1,541,226.5	1,473,525.9	5,343.4	260.0	08/27/2003	SVE Extraction Well	2.00	PVC	245	260	0.050	15	240	260	20
SVEW-09-460	1,541,226.9	1,473,525.5	5,343.4	457.0	08/27/2003	SVE Extraction Well	2.00	PVC	443	457	0.050	14	430	457	19
SVEW-10-410	1,540,843.9	1,473,728.9	5,340.2	410.0		SVE Extraction Well	2.00	PVC	400	410	0.050	10	395	410	15
SVEW-11-410	1,541,992.0	1,473,669.5	5,347.6	410.0		SVE Extraction Well	2.00	PVC	400	410	0.050	10	395	410	15
SVEW-12-410	1,540,964.2	1,473,119.6	5,338.9	410.0		SVE Extraction Well	2.00	PVC	400	410	0.050	10	395	410	15
SVEW-13-410	1,541,979.9	1,473,408.1	5,347.0	410.0		SVE Extraction Well	2.00	PVC	400	410	0.050	10	395	410	15
SVMW-01-050	1,541,090.1	1,473,534.4	5,343.1	52.5		SVE Monitor Well	0.50	PVC	50	53	0.050	3	41	61	20
SVMW-01-100	1,541,090.4	1,473,534.8	5,343.1	102.5		SVE Monitor Well	0.50	PVC	100	103	0.050	3	91	111	20
SVMW-01-250	1,541,090.4	1,473,534.4	5,343.1	253.2		SVE Monitor Well	0.50	PVC	251	253	0.050	3	242	262	20
SVMW-01-300	1,541,090.1	1,473,534.9	5,343.1	310.0		SVE Monitor Well	0.50	PVC	309	310	0.050	2	299	319	20
SVMW-02-050	1,541,412.0	1,473,655.9	5,341.5	52.5		SVE Monitor Well	0.50	PVC	50	53	0.050	3	41	61	20
SVMW-02-100	1,541,412.1	1,473,655.7	5,341.5	99.5		SVE Monitor Well	0.50	PVC	97	100	0.050	3	88	108	20
SVMW-02-150	1,541,412.2	1,473,656.0	5,341.5	152.5		SVE Monitor Well	0.50	PVC	150	153	0.050	3	141	161	20
SVMW-03-050	1,541,518.4	1,473,497.4	5,343.6	52.5		SVE Monitor Well	0.50	PVC	50	53	0.050	3	41	61	20
SVMW-03-100	1,541,518.5	1,473,497.7	5,343.6	102.5		SVE Monitor Well	0.50	PVC	100	103	0.050	3	91	111	20
SVMW-03-250	1,541,518.7	1,473,497.5	5,343.6	252.5		SVE Monitor Well	0.50	PVC	250	253	0.050	3	241	261	20
SVMW-03-300	1,541,518.6	1,473,497.2	5,343.6	302.5		SVE Monitor Well	0.50	PVC	300	303	0.050	3	291	311	20
SVMW-04-050	1,541,274.9	1,473,448.5	5,341.3	52.5		SVE Monitor Well	0.50	PVC	50	53	0.050	3	41	61	20
SVMW-04-100	1,541,274.5	1,473,448.6	5,341.3	100.5		SVE Monitor Well	0.50	PVC	98	101	0.050	3	89	109	20
SVMW-04-250	1,541,274.5	1,473,448.4	5,341.3	252.5		SVE Monitor Well	0.50	PVC	250	253	0.050	3	241	261	20
SVMW-04-300	1,541,274.7	1,473,448.1	5,341.3	300.0		SVE Monitor Well	0.50	PVC	298	300	0.050	3	289	309	20
SVMW-05-050	1,541,016.0	1,473,498.3	5,342.9	52.5	03/02/2001	SVE Monitor Well	0.50	PVC	50	53	0.050	3	41	61	20
SVMW-05-100	1,541,015.7	1,473,498.6	5,342.9	102.5	03/02/2001	SVE Monitor Well	0.50	PVC	100	103	0.050	3	91	111	20
SVMW-05-230	1,541,016.2	1,473,498.7	5,342.9	231.0	03/02/2001	SVE Monitor Well	0.50	PVC	229	231	0.050	2	220	240	20
SVMW-05-290	1,541,015.9	1,473,498.8	5,342.9	290.0	03/02/2001	SVE Monitor Well	0.50	PVC	287	290	0.050	3	279	299	20
SVMW-06-050	1,541,802.5	1,473,507.4	5,346.2	52.5	03/12/2001	SVE Monitor Well	0.50	PVC	50	53	0.050	3	41	61	20
SVMW-06-100	1,541,803.0	1,473,507.3	5,346.2	102.0	03/12/2001	SVE Monitor Well	0.50	PVC	99	102	0.050	3	91	111	20
SVMW-06-252	1,541,802.7	1,473,507.7	5,346.2	254.5	03/12/2001	SVE Monitor Well	0.50	PVC	252	255	0.050	3	243	263	20
SVMW-06-302	1,541,802.6	1,473,507.1	5,346.2	305.0	03/12/2001	SVE Monitor Well	0.50	PVC	302	305	0.050	3	294	314	20
SVMW-07-050	1,541,493.3	1,473,791.1	5,342.4	52.0	03/27/2001	SVE Monitor Well	0.50	PVC	50	52	0.050	3	41	61	20
SVMW-07-100	1,541,493.0	1,473,791.2	5,342.4	98.0	03/27/2001	SVE Monitor Well	0.50	PVC	96	98	0.050	3	87	107	20
SVMW-07-150	1,541,493.2	1,473,791.4	5,342.4	149.5	03/27/2001	SVE Monitor Well	0.50	PVC	147	150	0.050	3	138	158	20
SVMW-08-050	1,541,274.7	1,473,555.1	5,342.8	52.5		SVE Monitor Well	0.50	PVC	50	53	0.050	3	41	61	20
SVMW-08-250	1,541,274.8	1,473,555.0	5,342.8	252.5		SVE Monitor Well	0.50	PVC	250	253	0.050	3	241	261	20
SVMW-09-050	1,541,322.7	1,473,544.3	5,343.0	52.5		SVE Monitor Well	0.50	PVC	50	53	0.050	3	41	61	20
SVMW-09-100	1,541,322.6	1,473,544.2	5,343.0	102.5		SVE Monitor Well	0.50	PVC	100	103	0.050	3	91	111	20
SVMW-09-250	1,541,322.4	1,473,544.5	5,343.0	252.5		SVE Monitor Well	0.50	PVC	250	253	0.050	3	241	261	20
SVMW-09-266	1,541,322.2	1,473,544.4	5,343.0	268.5		SVE Monitor Well	0.50	PVC	266	269	0.050	3	257	277	20
SVMW-10-050	1,541,371.1	1,473,534.1	5,343.1	52.5	02/12/2003	SVE Monitor Well	0.50	PVC	50	53	0.050	3	41	61	20
SVMW-10-100	1,541,371.1	1,473,534.6	5,343.1	102.5	02/12/2003	SVE Monitor Well	0.50	PVC	100	103	0.050	3	91	111	20
SVMW-10-150	1,541,371.4	1,473,534.3	5,343.1	152.5	02/12/2003	SVE Monitor Well	0.50	PVC	150	153	0.050	3	141	161	20
SVMW-10-250	1,541,371.0	1,473,534.2	5,343.1	252.5	02/12/2003	SVE Monitor Well	0.50	PVC	250	253	0.050	3	241	261	20
SVMW-11-050	1,541,411.7	1,473,473.5	5,343.1	52.5	02/22/2003	SVE Monitor Well	0.50	PVC	50	53	0.050	3	41	61	20
SVMW-11-100	1,541,411.9	1,473,473.8	5,343.1	102.5	02/22/2003	SVE Monitor Well	0.50	PVC	100	103	0.050	3	91	111	20
SVMW-11-250	1,541,411.4	1,473,473.9	5,343.1	252.5	02/22/2003	SVE Monitor Well	0.50	PVC	250	253	0.050	3	241	261	20

Table 4-1. SVE Well Construction Summary (concluded)

Location ID	Easting	Northing	Ground Elevation	Depth	Date Install	Well Type	Casing Diameter (in)	Casing Type	Screen Top	Screen Bottom	Slot Size	Screen Interval	Top Sand Pack	Bottom Sand Pack	Sand Pack Interval
SVMW-11-260	1,541,411.5	1,473,474.1	5,343.1	262.5	02/22/2003	SVE Monitor Well	0.50	PVC	260	263	0.050	3	251	271	20
SVMW-12-150	1,540,843.9	1,473,728.5	5,340.2	152.5	02/02/2004	SVE Monitor Well	0.50	PVC	150	153	0.050	3	141	161	20
SVMW-12-250	1,540,844.2	1,473,728.6	5,340.2	252.5	02/02/2004	SVE Monitor Well	0.50	PVC	250	253	0.050	3	241	261	20
SVMW-12-350	1,540,843.9	1,473,729.0	5,340.2	352.5	02/02/2004	SVE Monitor Well	0.50	PVC	350	353	0.050	3	341	361	20
SVMW-12-450	1,540,843.6	1,473,728.8	5,340.2	452.5	02/02/2004	SVE Monitor Well	0.50	PVC	450	453	0.050	3	441	461	20
SVMW-13-150	1,541,991.8	1,473,669.7	5,347.6	152.5	01/27/2004	SVE Monitor Well	0.50	PVC	150	153	0.050	3	141	161	20
SVMW-13-250	1,541,991.5	1,473,669.7	5,347.6	252.5	01/27/2004	SVE Monitor Well	0.50	PVC	250	253	0.050	3	241	261	20
SVMW-13-350	1,541,991.6	1,473,669.5	5,347.6	352.5	01/27/2004	SVE Monitor Well	0.50	PVC	350	353	0.050	3	341	361	20
SVMW-13-450	1,541,991.7	1,473,669.2	5,347.6	452.5	01/27/2004	SVE Monitor Well	0.50	PVC	450	453	0.050	3	441	461	20
SVMW-14-150	1,540,964.0	1,473,119.4	5,338.9	152.5	01/07/2004	SVE Monitor Well	0.50	PVC	150	153	0.050	3	141	161	20
SVMW-14-250	1,540,963.7	1,473,119.5	5,338.9	252.5	01/07/2004	SVE Monitor Well	0.50	PVC	250	253	0.050	3	241	261	20
SVMW-14-350	1,540,963.7	1,473,119.2	5,338.9	352.5	01/07/2004	SVE Monitor Well	0.50	PVC	350	353	0.050	3	341	361	20
SVMW-14-450	1,540,964.2	1,473,119.2	5,338.9	452.5	01/07/2004	SVE Monitor Well	0.50	PVC	450	453	0.050	3	441	461	20
SVMW-15-150	1,541,979.8	1,473,407.9	5,347.0	152.5	01/20/2004	SVE Monitor Well	0.50	PVC	150	153	0.050	3	141	161	20
SVMW-15-250	1,541,980.3	1,473,408.0	5,347.0	252.5	01/20/2004	SVE Monitor Well	0.50	PVC	250	253	0.050	3	241	261	20
SVMW-15-350	1,541,980.0	1,473,407.7	5,347.0	352.5	01/20/2004	SVE Monitor Well	0.50	PVC	350	353	0.050	3	341	361	20
SVMW-15-450	1,541,980.0	1,473,408.2	5,347.0	452.5	01/20/2004	SVE Monitor Well	0.50	PVC	450	453	0.050	3	441	461	20

Table 4-2. SVE System Summary

RSI Unit	Well Location	Average Flow Rate (scfm)[1]	Average Vacuum (in Water)[1]	Maximum Vacuum (in Water)[1]	Average Mass Recovery Rate (lbs/d)[1]	Average Mass Recovery Rate (gal/d)[2]	Average Vapor Conc. (PPMv)[3]	Cumulative Total Mass Recovery (gal)[4]
249	SVEX-01, SVEX-05	37	29	122	560	90	14,700	203,000
335	KAFB-1065	16	126	225	115	19	6,700	82,500
344	KAFB-1068	50	51	221	295	48	5,000	39,000
345	KAFB-1066	40	28	179	625	101	16,200	45,300
							Total	369,800

1 Jan.-March 2011 Average
2 Jan.-March 2011 Average using 6 lbs/gallon conversion
3 Jan.-March 2011 Average as computed from engine operational parameters assuming 20,000 PPMv/BTU
4 July 2004 through Feb 2011

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Table 4-3. SVE Well VOC Concentration Trends (2004-2010)

Location	Initial Concentration PPMv)	2010 Concentration PPMv)	Overall Concentration Trend	Current 2009-2010 Trend	Approximate Change Since Installation	Year Installed
SVEW-01-260	50,000	25,000	Decline	Steady	50%	2004
SVEW-02-060	20,000	4,500	Decline	Steady	78%	2004
SVEW-03-160	11,600	50	Decline	Decline	100%	2004
SVEW-04-313	20,000	500	Decline	Decline	98%	2004
SVEW-05-460	21,000	6,100	Decline	Decline	71%	2004
SVEW-06-060	5,200	1,100	Decline	Steady	79%	2004
SVEW-07-160	26,500	440	Decline	Steady	98%	2004
SVEW-08-260	18,600	90	Decline	Decline	100%	2004
SVEW-09-460	21,000	3,200	Decline	Decline	85%	2004
SVEW-10-410	9,400	11	Decline	Decline	100%	2007
SVEW-11-410	33,000	4,200	Decline	Decline	87%	2007
SVEW-12-410	6,400	360	Decline	Decline	94%	2007
SVEW-13-410	38,000	18,500	Steady	Steady	51%	2007
SVMW-01-050	260	9	Decline	Steady	97%	2004
SVMW-01-100	10400	7000	Decline	Steady	33%	2004
SVMW-01-250	14700	80	Decline	Steady	99%	2004
SVMW-01-310	16800	900	Decline	Decline	95%	2004
SVMW-02-050	2300	600	Decline	Steady	74%	2004
SVMW-02-100	22400	8600	Decline	Decline	62%	2004
SVMW-02-150	11000	2000	Decline	Steady	82%	2004
SVMW-03-050	40	20	Steady	Steady	50%	2004
SVMW-03-100	33,000	28000	Steady	Steady	15%	2004
SVMW-03-250	25,000	3100	Decline	Decline	88%	2004
SVMW-03-300	29,000	8200	Decline	Decline	72%	2004
SVMW-04-050	4300	1400	Steady	Steady	67%	2004
SVMW-04-100	20000	17000	Steady	Steady	15%	2004
SVMW-04-250	28000	1400	Decline	Decline	95%	2004
SVMW-04-300	13000	250	Decline	Decline	98%	2004
SVMW-05-050	100	10	Steady	Steady	90%	2004
SVMW-05-100	1200	240	Steady	Steady	80%	2004
SVMW-05-230	4700	10	Decline	Steady	100%	2004
SVMW-05-290	13000	350	Decline	Steady	97%	2004
SVMW-06-050	300	40	Steady	Steady	87%	2004
SVMW-06-100	1100	30	Steady	Steady	97%	2004
SVMW-06-252	17000	6700	Decline	Steady	61%	2004
SVMW-06-302	25000	15000	Decline	Steady	40%	2004
SVMW-07-050	4500	300	Decline	Decline	93%	2004
SVMW-07-096	8000	1300	Decline	Decline	84%	2004
SVMW-07-150	200	200	Steady	Steady	0%	2004
SVMW-08-050	8000	13000	Steady	Increase	-63%	2004
SVMW-08-250	23000	180	Decline	Steady	99%	2004
SVMW-09-050	10953	3580	Decline	Steady	67%	2004
SVMW-09-100	33660	32670	Steady	Steady	3%	2004
SVMW-09-250	23040	2240	Decline	Steady	90%	2004
SVMW-09-265	31770	14355	Decline	Increase	55%	2004
SVMW-10-050	42000	34000	Steady	Steady	19%	2004
SVMW-10-100	51000	45000	Steady	Steady	12%	2004
SVMW-10-150	31000	27000	Steady	Steady	13%	2004
SVMW-10-250	46000	13000	Steady	Decline	72%	2004
SVMW-11-050	20000	21000	Steady	Steady	-5%	2004
SVMW-11-100	53000	41000	Steady	Steady	23%	2004
SVMW-11-250	57000	31000	Decline	Increase	46%	2004

Table 4-3. SVE Well VOC Concentration Trends (2004-2010) (concluded)

Location	Initial Concentration PPMv)	2010 Concentration PPMv)	Overall Concentration Trend	Current 2009-2010 Trend	Approximate Change Since Installation	Year Installed
SVMW-11-260	56000	35000	Steady	Steady	38%	2004
SVMW-12-150	1300	10	Steady	Steady	99%	2004
SVMW-12-250	5000	500	Decline	Decline	90%	2004
SVMW-12-350	9000	300	Decline	Decline	97%	2004
SVMW-12-450	21000	600	Decline	Decline	97%	2004
SVMW-13-150	42000	7200	Decline	Decline	83%	2004
SVMW-13-250	14000	4000	Decline	Steady	71%	2004
SVMW-13-350	7000	40	Decline	Steady	99%	2004
SVMW-13-450	200	10	Steady	Steady	95%	2004
SVMW-14-150	1000	2	Decline	Decline	100%	2004
SVMW-14-250	3000	5	Decline	Decline	100%	2004
SVMW-14-350	4000	65	Decline	Decline	98%	2004
SVMW-14-450	30000	1900	Decline	Decline	94%	2004
SVMW-15-150	3300	100	Decline	Decline	97%	2004
SVMW-15-250	7700	250	Decline	Decline	97%	2004
SVMW-15-350	27000	12000	Decline	Decline	56%	2004
SVMW-15-450	39000	32000	Decline	Steady	18%	2004