Summary of Uncased Borehole and Well Completion Data

Site	Boring / Well ID	Ground Surface Elevation [ft amsl[1]]	Borehole Diameter [inches]	Total Depth [ft bgs[2]]	Perforated Interval(s) [ft bgs]	Casing Diameter / Type [inches]	Slot Size [inches]	Reference Point Elevation [ft amsl]
Green Spot	GS MW-1	6,862.67	10.75	208	100-140	2/PVC	0.02	6,864.08
	GS MW-2 (shallow)	6,855.00	12.25	220	100-140	2/PVC	0.02	6,857.73
	GS MW-2 (deep)	6,855.02	12.25	220	170-210	2/PVC	0.02	6,857.70
	GS MW-3	6,858.47	12.25	230	110-210	4/PVC	0.02	6,860.15
	GS MW-4	6,862.25	12.25	235	110-180	4/PVC	0.02	6,864.28
	GS MW-5	6,864.63	12.25	228	110-210	4/PVC	0.02	6,866.58
	GS 20-M	6,860.00	9.875	212	86-186	5/PVC	0.032	6,863.01
	GS MW-6	6,820.00	12.25	200	50-195	4/PVC	0.02	NA
	GS MW-7	6,820.00	12.25	200	50-195	4/PVC	0.02	NA
	GS BH-1	6,860.30	7.875	95	NA[3]	NA	NA	NA
	GS BH-2	6,855.00	7.875	100	NA	NA	NA	NA
	GS BH-3	6,859.40	7.875	142	NA	NA	NA	NA
	GS BH-4	6,861.40	7.875	98	NA	NA	NA	NA
	GS BH-5	6,862.80	7.875	115	NA	NA	NA	NA

Table 3

Summary of Uncased Borehole and Well Completion Data

Site	Boring / Well ID	Ground Surface Elevation [ft amsl[1]]	Borehole Diameter [inches]	Total Depth [ft bgs[2]]	Perforated Interval(s) [ft bgs]	Casing Diameter / Type [inches]	Slot Size [inches]	Reference Point Elevation [ft amsl]
Van Dusen Canyon	VDC MW-1	6,788.64	10.75	195	84-184	2/PVC	0.02	6,791.31
	VDC MW-2	6,797.87	12.25	201	90-190	4/PVC	0.02	6,800.39
	VDC MW-3	6,801.21	12.25	202	95-195	4/PVC	0.02	6,802.64
	VDC MW-4	6,792.27	12.25	200	90-190	4/PVC	0.02	6,794.22
	VDC MW-5	6,788.24	12.25	195	85-185	4/PVC	0.02	6,790.77
	VDC BBCCSD #5	6,770.00	28	157	75-145	12.75/steel	0.006	6,767.00
	VDC BH-1	6,800.00	7.875	125	NA	NA	NA	NA
	VDC BH-2	6,785.00	7.875	105	NA	NA	NA	NA
	VDC BH-3	6,795.00	7.875	115	NA	NA	NA	NA
	VDC BH-4	6,785.00	7.875	95	NA	NA	NA	NA
	VDC BH-5	6,780.00	7.875	95	NA	NA	NA	NA

Notes:

1. amsl = above mean sea level
2. bgs = below ground surface
3. NA = Not Applicable

Table 3

Summary of Infiltrometer Data

Infiltrometer Number	y_n	t_n	i_n	x	i_w	L	y_t	n_e	z	h_{we}	K	K
	[cm]	[min]	[cm/min]	[cm]	[cm/min]	[cm]	[cm]		[cm]	[cm]	[cm/min]	[ft/day]
Greenspot Area												
GS I-1	11.0	113	0.097	23.5	0.031	79.0	35.0	0.141	17.0	-20	0.02	1.00
GS I-2	22.0	107	0.206	52.5	0.028	97.5	49.5	0.068	11.0	-10	0.02	1.08
GS I-3	19.0	146	0.130	29.5	0.034	> 90.0	50.0	0.143	9.5	-5	> 0.03	> 1.37
GS I-4	18.0	190	0.095	28.0	0.026	71.0	28.0	0.107	9.0	-10	0.02	0.96
GS I-5	14.0	86	0.163	27	0.046	> 132.0	50.5	0.108	7.0	-10	> 0.04	> 1.92
											Average	**> 1.26**
Van Dusen Canyon Area												
VDC I-1	15.0	214	0.070	15.0	0.031	> 77.0	23.7	0.138	7.5	-20	> 0.02	> 1.10
VDC I-2	11.0	137	0.080	26.0	0.023	> 82.0	36.0	0.128	5.5	-5	> 0.02	> 0.98
VDC I-3	18.5	57	0.325	12.0	0.167	> 177.0	50.0	0.145	9.3	-5	> 0.15	> 7.31
											Average	**> 3.13**

t_n Elapsed time during the last recorded drop in water level.
i_n Infiltration rate during the last drop in water level (y_n/t_n).
x Lateral divergence determined by measuring the lateral extent of wetting front after test.
i_w Vertical infiltration rate.
L Vertical extent of wetting front after test.
y_t Cumulative infiltration throughout the test.
n_e Fillable porosity (assumed to be effective porosity).
z Average depth of water in the cylinder during the last water level drop.
h_{we} Water entry value of soil (from Bouwer, 1998; pg. 6).
K Long-term infiltration rate in shallow innundated areas.

Table 4

List of Water Quality Analyses

Constituent	Units	Detection Limit	EPA Method Number
General Physical Properties			
Color	Color unit	1	110.2
Odor	Odor unit	1	140.1
Turbidity	NTU[1]	0.1	180.1
General Minerals			
Total Alkalinity	mg/L[2]	2	310.1
Bicarbonate	mg/L	2	310.1/SM2320B
Carbonate	mg/L	2	310.1/SM2320B
Chloride	mg/L	1	325.3
Total Hardness	mg/L	2	130.2
pH	pH unit	0.01	EPA 9040
Specific Conductance	µmhos/cm[3]	1	120.1
Sulfate	mg/L	2	375.4
Total Dissolved Solids (TDS)	mg/L	10	160.1
Nitrate as N	mg/L	1	SM4500NO3D
Calcium	mg/L	0.2	6010
Chromium (Total)	mg/L	0.2	200.7/6010B
Copper	mg/L	0.01	200.7/6010B
Iron	mg/L	0.01	200.7/6010B
Magnesium	mg/L	0.1	EPA 6010
Manganese	mg/L	0.005	200.7/6010B
Potassium	mg/L	0.4	EPA 6010
Sodium	mg/L	2	EPA 6010
Zinc	mg/L	0.05	200.7/6010B
Silica	mg/L	0.5	200.7
Other			
Boron	mg/L	0.1	200.7/6010B
Fluoride (total)	mg/L	0.1	340.2
Arsenic	mg/L	0.002	200.7/6010B

Notes:

[1] nephelometric turbidity units

[2] milligrams per liter

[3] microµmhos per centimeter

Summary of Ground Water Quality Laboratory Results
Green Spot Site

	Well	Sample Date	General Physical Properties: Color [color units]	Odor [T.O.N.]	Turbidity [NTU]	Cations: Total Hardness [mg/L]	Calcium [mg/L]	Magnesium [mg/L]	Sodium [mg/L]	Potassium [mg/L]	Anions: Total Alkalinity [mg/L]	Hydroxide [mg/L]	Carbonate [mg/L]	Bicarbonate [mg/L]	Sulfate [mg/L]	Chloride [mg/L]	Nitrate (as N) [mg/L]	Fluoride [mg/L]	Total Dissolved Solids [mg/L]
Baseline Ground Water Quality (Pre-Recharge)	MW-2S	23-Dec-03	< 3.0	< 1.0	< 0.2	220	43	27	19	3.0	230	< 3.0	< 3.0	280	28	6.7	< 0.20	0.2	280
	MW-2D	22-Dec-03	< 3.0	< 1.0	< 0.2	120	24	13	25	2.6	140	< 3.0	< 3.0	160	33	4.2	< 0.20	0.3	200
	MW-3	15-Dec-03	< 3.0	< 1.0	0.27	210	43	24	15	2.4	100	< 3.0	< 3.0	120	29	5.2	33	0.3	330
	MW-4	19-Dec-03	< 3.0	< 1.0	3.9	210	44	24	15	2.6	190	< 3.0	< 3.0	240	28	5.7	0.27	0.3	260
	MW-5	6-Jan-04	< 3.0	< 1.0	3.4	210	42	25	12	2.8	220	< 3.0	< 3.0	260	25	4.1	< 0.20	0.2	270
	MW-6	23-Jun-04	< 3.0	< 1.0	2.8	240	48	30	15	3.2	230	< 3.0	< 3.0	280	23	8.2	0.56	0.2	310
Post-Recharge Ground Water Quality	MW-2S	10-May-04	< 3.0	< 1.0	66	220	44	27	6.6	2.8	230	< 3.0	< 3.0	280	19	4.4	0.34	0.2	280
	MW-2D	10-May-04	< 3.0	< 1.0	0.52	100	22	12	29	2.5	140	< 3.0	< 3.0	180	31	2.8	< 0.20	0.2	200
	MW-3	10-May-04	< 3.0	< 1.0	9.5	210	42	26	11	2.7	230	< 3.0	< 3.0	280	23	4.7	0.20	0.2	270
	MW-4	10-May-04	< 3.0	< 1.0	4.9	220	43	26	5.6	2.6	230	< 3.0	< 3.0	280	19	3.7	< 0.20	0.2	260
	MW-5	10-May-04	< 3.0	< 1.0	12	200	39	23	8.3	2.6	210	< 3.0	< 3.0	260	22	4.2	0.23	1.9	250
	MW-6	23-Jun-04	< 3.0	< 1.0	2.8	240	48	30	15	3.2	230	< 3.0	< 3.0	280	23	8.2	0.56	0.2	310
	FH	7-May-04	NA	NA	NA	210	40	26	5.8	3.4	200	< 3.0	< 3.0	240	27	3.0	< 0.20	0.3	260
	Lakewood Well #6	19-May-04	< 3.0	< 1.0	0.91	130	29	14	11	1.8	140	< 3.0	< 3.0	170	7.7	6.3	0.25	0.1	190

Well	Sample Date	Specific Conductance [µmho/cm]	pH	MBAS [mg/L]	Metals and Metalloids: Aluminum [µg/L]	Arsenic [µg/L]	Boron [µg/L]	Total Chromium [µg/L]	Copper [µg/L]	Iron [µg/L]	Manganese [µg/L]	Total Silica [mg/L]	Zinc [µg/L]
MW-2D	22-Dec-03	360	8.0	< 0.05	NA	< 2.0	< 100	2.6	< 10	< 20	94	13	10
MW-2S	23-Dec-03	500	7.8	< 0.05	NA	< 2.0	< 100	2.4	< 10	100	48[1], 51[2]	16	12
MW-3	15-Dec-03	530	6.5	0.07	NA	< 2.0	< 100	< 10	14	< 20	43	15	83
MW-4	19-Dec-03	460	7.5	< 0.05	NA	< 5.8	< 100	< 10	< 10	300	60	23	67
MW-5	6-Jan-04	460	7.6	< 0.05	NA	< 2.0	< 100	1.4	< 10	< 20	72	17	200
MW-6	23-Jun-04	500	7.2	< 0.05	< 50	NA	< 100	1.9	< 10	< 20	11	18	18
Lakewood Well #6	19-May-04	320	6.6	NA	NA	< 2.0	< 100	< 10	19	< 20	< 10	27	< 10
MW-2S	10-May-04	470	7.7	NA	NA	< 2.0	< 100	< 10	< 10	< 20	< 10	16	< 11
MW-2D	10-May-04	350	8.1	NA	NA	< 2.0	< 100	< 10	< 10	21	100	13	< 12
MW-3	10-May-04	480	7.7	NA	NA	< 2.0	< 100	< 10	< 10	< 20	< 10	15	< 13
MW-4	10-May-04	450	7.6	NA	NA	< 2.0	< 100	< 10	< 10	< 20	< 10	15	< 14
MW-5	10-May-04	450	7.7	NA	NA	< 2.0	< 100	< 10	< 10	< 20	36	16	< 15
Vaqueros	10-May-04	210	7.1	NA	NA	< 2.0	< 100	< 10	< 10	22	< 10	20	11
FH	7-May-04	390	7.8	< 0.05	< 50	NA	NA	< 10	35	360	11	16	14

Notes:

µg/L = Micrograms per Liter
mg/L = Milligrams per Liter
NA = Not Analyzed
[1] EPA Method 200.8
[2] EPA Method 200.7
MBAS = Methylene Blue Active Substances
< 2.0 Constituent not detected above the indicated detection limit

Summary of Ground Water Level Measurements and Elevations
Green Spot Site

	Depth to Ground Water [ft bgs[1]]							Ground Water Elevation [ft amsl[2]]						
Date	**MW-1[3]**	**MW-2S**	**MW-2D**	**MW-3**	**MW-4**	**MW-5**	**20M**	**MW-1**	**MW-2S**	**MW-2D**	**MW-3**	**MW-4**	**MW-5**	**20M**
Reference Point Elevation								6,864.08	6,857.73	6,857.70	6,860.15	6,864.28	6,866.58	6,863.01
15-Dec-03	NM[4]	98.31	82.85	NM	94.28	95.19	93.80	NM	6,759.42	6,774.85	NM	6,770.00	6,771.39	6,769.21
16-Dec-03	NM	101.07	85.90	105.08	NM	97.65	95.91	NM	6,756.66	6,771.80	6,755.07	NM	6,768.93	6,767.10
17-Dec-03	NM	101.16	85.76	105.25	NM	98.04	96.11	NM	6,756.57	6,771.94	6,754.90	NM	6,768.54	6,766.90
22-Dec-03	NM	NM	NM	104.76	107.70	98.08	96.00	NM	NM	NM	6,755.39	6,756.58	6,768.50	6,767.01
23-Dec-03	NM	NM	NM	104.95	107.96	98.09	95.98	NM	NM	NM	6,755.20	6,756.32	6,768.49	6,767.03
13-Jan-04	NM	99.50	83.30	102.80	105.40	96.00	94.50	NM	6,758.23	6,774.40	6,757.35	6,758.88	6,770.58	6,768.51
14-Jan-04	NM	99.46	83.39	102.50	105.39	95.86	94.38	NM	6,758.27	6,774.31	6,757.65	6,758.89	6,770.72	6,768.63
15-Jan-04	NM	102.25	85.98	104.59	108.40	98.18	96.52	NM	6,755.48	6,771.72	6,755.56	6,755.88	6,768.40	6,766.49
22-Jan-04	NM	102.16	86.00	104.34	107.14	98.19	96.29	NM	6,755.57	6,771.70	6,755.81	6,757.14	6,768.39	6,766.72
23-Jan-04	NM	102.14	85.94	104.34	107.25	98.15	96.24	NM	6,755.44	6,771.76	6,755.81	6,757.03	6,768.43	6,766.77
11-Feb-04	98.62	102.29	85.40	104.53	107.41	98.18	96.36	6,765.46	6,755.44	6,772.30	6,755.62	6,756.87	6,768.40	6,766.65
12-Feb-04	98.65	102.30	85.39	104.57	107.53	98.20	96.38	6,765.43	6,755.43	6,772.31	6,755.58	6,756.75	6,768.38	6,766.63
16-Feb-04	NM	102.67	85.69	104.88	107.70	119.27	96.67	NM	6,755.06	6,772.01	6,755.27	6,756.58	6,747.31	6,766.34
17-Feb-04	NM	102.91	85.67	105.26	107.97	98.81	96.68	NM	6,754.82	6,772.03	6,754.89	6,756.31	6,767.77	6,766.33
18-Feb-04	NM	102.46	85.33	104.70	107.54	98.25	96.50	NM	6,755.27	6,772.37	6,755.45	6,756.74	6,768.33	6,766.51
19-Feb-04	NM	102.33	85.19	104.60	107.40	98.19	96.37	NM	6,755.40	6,772.51	6,755.55	6,756.88	6,768.39	6,766.64
20-Feb-04	NM	102.37	85.19	104.63	107.47	98.19	96.36	NM	6,755.36	6,772.51	6,755.52	6,756.81	6,768.39	6,766.65
23-Feb-04	95.90	102.10	85.13	104.33	107.14	95.05	90.05	6,768.18	6,755.63	6,772.57	6,755.82	6,757.14	6,771.53	6,772.96
24-Feb-04	NM	101.96	85.16	104.20	107.32	94.34	88.91	NM	6,755.77	6,772.54	6,755.95	6,756.96	6,772.24	6,774.10
25-Feb-04	NM	101.82	85.14	104.00	105.65	94.00	88.56	NM	6,755.91	6,772.56	6,756.15	6,758.63	6,772.58	6,774.45
27-Feb-04	NM	101.54	85.02	103.63	106.39	93.38	87.95	NM	6,756.19	6,772.68	6,756.52	6,757.89	6,773.20	6,775.06
28-Feb-04	NM	101.37	85.02	103.41	106.56	93.16	87.69	NM	6,756.36	6,772.68	6,756.74	6,757.72	6,773.42	6,775.32
1-Mar-04	NM	100.85	85.00	103.06	106.05	92.22	86.37	NM	6,756.88	6,772.70	6,757.09	6,758.23	6,774.36	6,776.64
3-Mar-04	NM	99.71	84.91	102.50	105.15	91.17	85.12	NM	6,758.02	6,772.79	6,757.65	6,759.13	6,775.41	6,777.89
5-Mar-04	NM	92.36	84.95	101.39	104.85	90.30	84.50	NM	6,765.37	6,772.75	6,758.76	6,759.43	6,776.28	6,778.51
8-Mar-04	NM	84.81	84.90	99.22	103.11	88.44	82.90	NM	6,772.92	6,772.80	6,760.93	6,761.17	6,778.14	6,780.11
10-Mar-04	NM	75.04	84.83	97.45	102.92	86.84	81.52	NM	6,782.69	6,772.87	6,762.70	6,761.36	6,779.74	6,781.49

Table 7

Summary of Ground Water Level Measurements and Elevations
Green Spot Site

	Depth to Ground Water [ft bgs[1]]							Ground Water Elevation [ft amsl[2]]						
Date	**MW-1[3]**	**MW-2S**	**MW-2D**	**MW-3**	**MW-4**	**MW-5**	**20M**	**MW-1**	**MW-2S**	**MW-2D**	**MW-3**	**MW-4**	**MW-5**	**20M**
Reference Point Elevation								6,864.08	6,857.73	6,857.70	6,860.15	6,864.28	6,866.58	6,863.01
12-Mar-04	NM	71.01	84.71	95.60	100.95	85.41	80.26	NM	6,786.72	6,772.99	6,764.55	6,763.33	6,781.17	6,782.75
13-Mar-04	NM	69.33	84.70	94.98	100.01	84.31	78.32	NM	6,788.40	6,773.00	6,765.17	6,764.27	6,782.27	6,784.69
15-Mar-04	NM	67.96	84.59	93.83	99.26	83.23	77.52	NM	6,789.77	6,773.11	6,766.32	6,765.02	6,783.35	6,785.49
16-Mar-04	NM	66.90	84.53	93.29	98.82	83.23	78.42	NM	6,790.83	6,773.17	6,766.86	6,765.46	6,783.35	6,784.59
16-Mar-04	NM	66.75	84.48	93.18	98.66	83.19	77.92	NM	6,790.98	6,773.22	6,766.97	6,765.62	6,783.39	6,785.09
17-Mar-04	NM	66.79	84.46	92.91	98.60	83.77	79.89	NM	6,790.94	6,773.24	6,767.24	6,765.68	6,782.81	6,783.12
19-Mar-04	NM	68.04	84.43	92.80	98.58	84.77	81.82	NM	6,789.69	6,773.27	6,767.35	6,765.70	6,781.81	6,781.19
20-Mar-04	NM	68.99	84.42	92.87	98.55	85.20	82.43	NM	6,788.74	6,773.28	6,767.28	6,765.73	6,781.38	6,780.58
22-Mar-04	NM	71.60	84.41	93.12	98.83	86.11	83.64	NM	6,786.13	6,773.29	6,767.03	6,765.45	6,780.47	6,779.37
24-Mar-04	NM	74.91	84.47	93.86	98.29	87.57	85.27	NM	6,782.82	6,773.23	6,766.29	6,765.99	6,779.01	6,777.74
26-Mar-04	NM	77.44	84.45	94.54	99.78	88.67	86.45	NM	6,780.29	6,773.25	6,765.61	6,764.50	6,777.91	6,776.56
29-Mar-04	NM	81.15	84.67	95.87	100.76	90.48	88.29	NM	6,776.58	6,773.03	6,764.28	6,763.52	6,776.10	6,774.72
31-Mar-04	NM	82.97	84.73	96.71	101.80	91.50	89.29	NM	6,774.76	6,772.97	6,763.44	6,762.48	6,775.08	6,773.72
1-Apr-04	NM	83.84	84.78	97.06	101.78	91.97	89.77	NM	6,773.89	6,772.92	6,763.09	6,762.50	6,774.61	6,773.24
2-Apr-04	NM	84.79	84.80	97.56	102.03	92.56	90.32	NM	6,772.94	6,772.90	6,762.59	6,762.25	6,774.02	6,772.69
5-Apr-04	NM	86.82	84.95	98.66	102.97	93.73	91.86	NM	6,770.91	6,772.75	6,761.49	6,761.31	6,772.85	6,771.15
7-Apr-04	NM	90.09	85.02	99.38	104.19	94.44	92.26	NM	6,767.64	6,772.68	6,760.77	6,760.09	6,772.14	6,770.75
9-Apr-04	NM	91.28	85.03	99.92	104.53	94.97	92.77	NM	6,766.45	6,772.67	6,760.23	6,759.75	6,771.61	6,770.24
12-Apr-04	NM	95.99	85.06	100.66	104.69	95.59	93.46	NM	6,761.74	6,772.64	6,759.49	6,759.59	6,770.99	6,769.55
14-Apr-04	NM	97.30	85.02	100.99	104.88	95.85	93.69	NM	6,760.43	6,772.68	6,759.16	6,759.40	6,770.73	6,769.32
16-Apr-04	NM	98.78	85.04	100.23	104.78	96.07	93.93	NM	6,758.95	6,772.66	6,759.92	6,759.50	6,770.51	6,769.08
19-Apr-04	NM	99.20	85.04	101.58	104.85	96.37	94.24	NM	6,758.53	6,772.66	6,758.57	6,759.43	6,770.21	6,768.77
21-Apr-04	NM	99.38	85.16	101.70	104.99	96.42	94.35	NM	6,758.35	6,772.54	6,758.45	6,759.29	6,770.16	6,768.66
23-Apr-04	NM	99.59	85.13	101.89	105.06	96.59	94.52	NM	6,758.14	6,772.57	6,758.26	6,759.22	6,769.99	6,768.49
26-Apr-04	NM	99.91	85.21	102.25	105.74	96.83	94.79	NM	6,757.82	6,772.49	6,757.90	6,758.54	6,769.75	6,768.22
30-Apr-04	NM	100.06	85.29	102.39	105.59	96.95	94.89	NM	6,757.67	6,772.41	6,757.76	6,758.69	6,769.63	6,768.12
10-May-04	NM	100.49	85.43	102.87	106.23	97.17	95.15	NM	6,757.24	6,772.27	6,757.28	6,758.05	6,769.41	6,767.86
19-May-04	NM	100.85	85.70	103.14	106.48	97.56	95.51	NM	6,756.88	6,772.00	6,757.01	6,757.80	6,769.02	6,767.50

Table 7

Summary of Ground Water Level Measurements and Elevations
Green Spot Site

	Depth to Ground Water [ft bgs[1]]							Ground Water Elevation [ft amsl[2]]						
Date	**MW-1[3]**	**MW-2S**	**MW-2D**	**MW-3**	**MW-4**	**MW-5**	**20M**	**MW-1**	**MW-2S**	**MW-2D**	**MW-3**	**MW-4**	**MW-5**	**20M**
Reference Point Elevation								6,864.08	6,857.73	6,857.70	6,860.15	6,864.28	6,866.58	6,863.01
2-Jun-04	NM	101.56	86.46	103.93	107.44	98.10	96.43	NM	6,756.17	6,771.24	6,756.22	6,756.84	6,768.48	6,766.58
8-Jun-04	NM	101.76	86.67	104.21	107.80	98.24	96.22	NM	6,755.97	6,771.03	6,755.94	6,756.48	6,768.34	6,766.79
17-Jun-04	NM	102.12	86.96	104.51	107.96	98.45	96.58	NM	6,755.61	6,770.74	6,755.64	6,756.32	6,768.13	6,766.43
24-Jun-04	NM	102.40	85.26	107.96	108.72	98.57	96.61	NM	6,755.33	6,772.44	6,752.19	6,755.56	6,768.01	6,766.40
1-Jul-04	NM	102.67	85.55	105.23	108.27	98.72	97.54	NM	6,755.06	6,772.15	6,754.92	6,756.01	6,767.86	6,765.47

Notes:

[1] bgs = below ground surface

[2] amsl = above mean sea level

[3] Well MW-1 contained a transducer that collected water level measurements every 10 minutes. Manual measurements were not obtained on a regular basis.

[4] NM = Not Measured

Table 7

Summary of Sulfur Hexafluoride Tracer Concentrations
Green Spot Site

Well Name	SF_6 Concentration [pmol/L[1]]								
	1-Mar	3-Mar	8-Mar	12-Mar	5-Apr	14-Apr	21-Apr	26-Apr	10-May
GS MW-1	1.13	10.37	1.15	ND[2]	1.24	0.27	1.20	0.27	2.80
GS MW-2S	4.59	9.94	ND	ND	ND	ND	ND	ND	ND
GS MW-2D	1.42	9.43	ND	ND	ND	ND	ND	ND	ND
GS MW-3	1.19	18.49	ND	ND	ND	ND	ND	ND	ND
GS MW-4	27.92	29.77	ND	0.10	ND	0.12	ND	ND	ND
GS MW-5	ND	54.80	ND	0.20	ND	ND	ND	ND	ND

Notes:

[1] pmol/L = Picomoles per Liter

[2] ND = Not Detected

Summary of Ground Water Quality Laboratory Results
Van Dusen Canyon

		General Physical Properties			Cations					Anions								Total Dissolved Solids
Well	Sample Date	Color [color units]	Odor [T.O.N.]	Turbitidy [NTU]	Total Hardness [mg/L]	Calcium [mg/L]	Magnesium [mg/L]	Sodium [mg/L]	Potassium [mg/L]	Total Alkalinity [mg/L]	Hydroxide [mg/L]	Carbonate [mg/L]	Bicarbonate [mg/L]	Sulfate [mg/L]	Chloride [mg/L]	Nitrate (as N) [mg/L]	Fluoride [mg/L]	[mg/L]
MW-1	27-Jan-04	< 3.0	< 1.0	3.7	250	48	30	9.3	2.4	260	< 3.0	< 3.0	320	10	6.2	< 0.20	0.3	290
MW-2	21-Jan-04	< 3.0	< 1.0	< 0.20	250	48	32	12	1.7	260	< 3.0	< 3.0	320	13	5.0	< 0.20	0.3	330
MW-3	13-Jan-04	< 3.0	< 1.0	< 0.20	250	53	29	9.7	1.8	270	< 3.0	< 3.0	320	11	5.2	0.27	0.2	320
MW-4	16-Jan-04	< 3.0	< 1.0	< 0.20	230	47	27	8.8	1.6	240	< 3.0	< 3.0	300	13	4.3	< 0.20	0.2	310
MW-5	27-Jan-04	< 3.0	< 1.0	1.4	230	46	27	10	2.5	250	< 3.0	< 3.0	310	11	4.1	< 0.20	0.2	280
FH	7-May-04	NA	NA	NA	190	43	20	22	1.7	200	< 3.0	< 3.0	240	29	5.9	0.63	1.6	260
MW-1	10-May-04	< 3.0	< 1.0	45	250	54	27	6.3	1.7	280	< 3.0	< 3.0	340	11	4.0	< 0.20	0.2	300
MW-2	10-May-04	< 3.0	< 1.0	2.4	270	59	30	7.3	1.7	290	< 3.0	< 3.0	360	15	4.6	< 0.20	0.1	320
MW-3	10-May-04	< 3.0	< 1.0	2.2	260	57	28	6.9	1.5	280	< 3.0	< 3.0	340	9.3	4.9	0.23	0.2	300
MW-4	10-May-04	< 3.0	< 1.0	5.3	240	51	26	6.5	1.6	250	< 3.0	< 3.0	310	11	3.8	< 0.20	1.1	280
MW-5	10-May-04	< 3.0	< 1.0	2.3	240	50	26	6.4	1.8	250	< 3.0	< 3.0	300	9.3	3.6	< 0.20	0.8	280

		Specific Conductance	pH	MBAS	Metals and Metalloids								
Well	Sample Date	[µmho/cm]		[mg/L]	Aluminum [µg/L]	Arsenic [µg/L]	Boron [µg/L]	Total Chromium [µg/L]	Copper [µg/L]	Iron [µg/L]	Manganese [µg/L]	Total Silica [mg/L]	Zinc [µg/L]
MW-1	27-Jan-04	520	7.6	< 0.05	NA	< 2.0	< 100	3.0	< 10	34	150	26	25
MW-2	21-Jan-04	520	7.1	< 0.05	NA	< 2.0	< 100	< 1.0	< 10	< 20	88	33	25
MW-3	13-Jan-04	530	7.8	< 0.05	NA	< 2.0	< 100	< 1.0	< 10	< 20	19	26	21
MW-4	16-Jan-04	480	7.6	< 0.05	NA	< 2.0	< 100	5.1	< 10	< 20	32	23	18
MW-5	27-Jan-04	490	7.6	< 0.05	NA	< 2.0	< 100	4.3	< 10	< 20	29	24	34
FH	7-May-04	430	7.5	< 0.05	< 50	NA	NA	< 1.0	55	230	< 10	22	< 10
MW-1	10-May-04	530	7.6	NA	NA	< 2.0	< 100	< 10	< 10	< 20	15	22	< 10
MW-2	10-May-04	570	7.7	NA	NA	< 2.0	< 100	< 10	< 10	< 20	< 10	23	< 10
MW-3	10-May-04	540	7.6	NA	NA	< 2.0	< 100	< 10	< 10	< 20	< 10	23	< 10
MW-4	10-May-04	500	7.7	NA	NA	< 2.0	< 100	< 10	< 10	< 20	< 10	22	< 10
MW-5	10-May-04	480	7.7	NA	NA	< 2.0	< 100	< 10	< 10	< 20	< 10	24	< 10

Notes:
µg/L = Micrograms per Liter
mg/L = Milligrams per Liter
NA = Not Analyzed
[1] EPA Method 200.8
[2] EPA Method 200.7
MBAS = Methylene Blue Active Substances
< 2.0 Constituent not detected above the indicated detection limit

Summary of Ground Water Level Measurements and Elevations
Van Dusen Canyon Site

	Depth to Ground Water [ft bgs[1]]					Ground Water Elevation [ft amsl[2]]				
Date	**MW-1[3]**	**MW-2**	**MW-3**	**MW-4**	**MW-5**	**MW-1**	**MW-2**	**MW-3**	**MW-4**	**MW-5**
Reference Point Elevation						6,791.31	6,800.39	6,802.64	6,794.22	6,790.77
5-Feb-04	85.24	94.19	96.43	88.05	84.63	6,706.07	6,706.20	6,706.21	6,706.17	6,706.14
16-Feb-04	85.29	94.02	96.42	87.98	84.57	6,706.02	6,706.37	6,706.22	6,706.24	6,706.20
17-Feb-04	85.68	94.21	96.58	88.10	84.76	6,705.63	6,706.18	6,706.06	6,706.12	6,706.01
23-Feb-04	85.39	94.32	96.62	88.27	84.81	6,705.92	6,706.07	6,706.02	6,705.95	6,705.96
27-Feb-04	85.42	94.35	96.61	88.32	84.83	6,705.89	6,706.04	6,706.03	6,705.90	6,705.94
12-Mar-04	NM[4]	94.13	96.42	88.03	84.62	NM	6,706.26	6,706.22	6,706.19	6,706.15
15-Mar-04	NM	93.76	96.12	87.66	84.32	NM	6,706.63	6,706.52	6,706.56	6,706.45
16-Mar-04	NM	93.62	96.00	87.53	84.20	NM	6,706.77	6,706.64	6,706.69	6,706.57
17-Mar-04	NM	93.41	95.82	87.32	84.02	NM	6,706.98	6,706.82	6,706.90	6,706.75
19-Mar-04	NM	92.99	95.48	86.90	83.67	NM	6,707.40	6,707.16	6,707.32	6,707.10
20-Mar-04	NM	92.84	95.36	86.74	83.56	NM	6,707.55	6,707.28	6,707.48	6,707.21
22-Mar-04	NM	92.34	94.86	86.19	83.50	NM	6,708.05	6,707.78	6,708.03	6,707.27
24-Mar-04	NM	91.95	94.56	85.89	82.76	NM	6,708.44	6,708.08	6,708.33	6,708.01
26-Mar-04	NM	91.56	94.21	85.53	82.43	NM	6,708.83	6,708.43	6,708.69	6,708.34
29-Mar-04	NM	91.09	93.74	85.04	81.94	NM	6,709.30	6,708.90	6,709.18	6,708.83
31-Mar-04	NM	90.83	93.45	84.74	81.66	NM	6,709.56	6,709.19	6,709.48	6,709.11
1-Apr-04	NM	90.55	93.28	84.56	81.50	NM	6,709.84	6,709.36	6,709.66	6,709.27
2-Apr-04	NM	90.55	93.18	84.46	81.39	NM	6,709.84	6,709.46	6,709.76	6,709.38
5-Apr-04	NM	90.16	92.78	84.04	80.99	NM	6,710.23	6,709.86	6,710.18	6,709.78
7-Apr-04	NM	89.91	92.54	83.78	80.74	NM	6,710.48	6,710.10	6,710.44	6,710.03
9-Apr-04	NM	89.68	92.31	83.52	80.49	NM	6,710.71	6,710.33	6,710.70	6,710.28
12-Apr-04	NM	89.33	91.91	83.09	80.09	NM	6,711.06	6,710.73	6,711.13	6,710.68
14-Apr-04	NM	88.95	91.57	82.71	79.71	NM	6,711.44	6,711.07	6,711.51	6,711.06
16-Apr-04	NM	88.65	91.25	82.36	78.37	NM	6,711.74	6,711.39	6,711.86	6,712.40
19-Apr-04	NM	88.24	90.82	81.94	78.97	NM	6,712.15	6,711.82	6,712.28	6,711.80
21-Apr-04	NM	87.88	90.44	81.57	78.60	NM	6,712.51	6,712.20	6,712.65	6,712.17
23-Apr-04	NM	87.69	90.24	81.33	78.35	NM	6,712.70	6,712.40	6,712.89	6,712.42
26-Apr-04	NM	87.47	90.03	81.19	78.16	NM	6,712.92	6,712.61	6,713.03	6,712.61
30-Apr-04	NM	87.44	89.93	81.18	78.09	NM	6,712.95	6,712.71	6,713.04	6,712.68

Table 10

Summary of Ground Water Level Measurements and Elevations
Van Dusen Canyon Site

	Depth to Ground Water [ft bgs[1]]					Ground Water Elevation [ft amsl[2]]				
Date	**MW-1[3]**	**MW-2**	**MW-3**	**MW-4**	**MW-5**	**MW-1**	**MW-2**	**MW-3**	**MW-4**	**MW-5**
Reference Point Elevation						6,791.31	6,800.39	6,802.64	6,794.22	6,790.77
10-May-04	NM	87.58	90.02	81.47	78.22	NM	6,712.81	6,712.62	6,712.75	6,712.55
19-May-04	NM	88.14	90.55	82.04	78.75	NM	6,712.25	6,712.09	6,712.18	6,712.02
2-Jun-04	NM	89.03	91.44	83.02	79.66	NM	6,711.36	6,711.20	6,711.20	6,711.11
9-Jun-04	NM	89.65	91.95	83.64	80.25	NM	6,710.74	6,710.69	6,710.58	6,710.52
17-Jun-04	NM	90.36	92.65	84.32	80.89	NM	6,710.03	6,709.99	6,709.90	6,709.88
24-Jun-04	NM	91.02	93.21	84.88	81.46	NM	6,709.37	6,709.43	6,709.34	6,709.31
1-Jul-04	NM	91.59	93.85	85.53	82.08	NM	6,708.80	6,708.79	6,708.69	6,708.69

Notes:
1. bgs = below ground surface
2. amsl = above mean sea level
3. Well MW-1 contained a transducer that collected water level measurements every 10 minutes. Manual measurements were not obtained on a regular basis.
4. NM = Not Measured

Table 10

Summary of Seepage Velocity Calculations
Green Spot Site

	[A]	[B]	[C]			
Ground Water Condition	**Average Hydraulic Gradient[1] [ft/ft]**	**Hydraulic Conductivity[2] [ft/day]**	**Effective Porosity[3]**	**Seepage Velocity[4] [ft/day]**	**Travel Time[5] (Days)**	**Travel Time (Months)**
Static (Pre-Recharge)	0.032	15	0.09	5.3	525	17.5
Maximum Mounding	0.066	15	0.09	11.0	255	8.5
Post-Recharge	0.0525	15	0.09	8.8	320	10.7

[1] Average hydraulic gradient measured between the Green Spot Site and the Lakewood Well Field from Figures 13, 32, 37 and 38.

[2] Hydraulic conductivity estimated using Hantush, 1967 as described in Section 7.6.1

[3] Effective porosity estimated from the soil moisture sensor data as described in Section 7.6.1

[4] Seepage velocity = [A]*[B]/[C]

[5] Travel time based on distance between Green Spot Site and Lakewood Well Field of 2,800 ft

Table 11

Summary of Seepage Velocity Calculations
Van Dusen Canyon Site

	[A]	[B]	[C]			
Ground Water Condition	**Average Hydraulic Gradient[1] [ft/ft]**	**Hydraulic Conductivity[2] [ft/day]**	**Effective Porosity[3]**	**Seepage Velocity[4] [ft/day]**	**Travel Time[5] (Days)**	**Travel Time (Months)**
Static (Pre-Recharge)	0.004	9	0.04	0.9	4,778	159.3
Maximum Mounding	0.006	9	0.04	1.4	3,185	106.2
Post-Recharge	0.004	9	0.04	0.9	4,778	159.3

[1] Average hydraulic gradient measured between the Van Dusen Canyon Site and the Maltby Monitoring Well from Figures 13, 46, 51 and 52.

[2] Hydraulic conductivity estimated using Hantush, 1967 as described in Section 7.6.1

[3] Effective porosity estimated from the soil moisture sensor data as described in Section 8.6.1

[4] Seepage velocity = [A]*[B]/[C]

[5] Travel time based on distance between Van Dusen Canyon Site and BBCCSD Well No. 1 of 4,300 ft

Table 12