

Appendix A Monitoring Well and Piezometer Construction Data

Appendix A

Monitoring Well and Piezometer Construction Data

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TABLE A-1
WELL CONSTRUCTION DATA
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identifier	Area No.	Effective Borehole Depth (feet)	Borehole		Casing		Sealed Interval (feet)	Perforated Interval (feet)	Measuring Point Elevation (ft MSL)	Date Drilling Completed
			Diameter (inches)	Interval (feet)	Inside Diameter (inches)	Interval (feet)				
Shallow Wells										
SH-01	III	10	16	0 - 10	4	0 - 10	0 - 5	5.5 - 10	1772.84	12/11/84
SH-02	III	10.6	16	0 - 10.6	4	0 - 10.6	0 - 5	6 - 10.6	1762.76	12/11/84
SH-03	III	9.5	16	0 - 9.5	4	0 - 9.5	0 - 4.6	5 - 9.5	1762.53	12/12/84
SH-04	III	17	16	0 - 17	4	0 - 13	0 - 8	9 - 13	1765.08	12/12/84
SH-05	III	10.5	16	0 - 10.5	4	0 - 10.5	0 - 5.6	6 - 10.5	1762.97	12/13/84
SH-06	III	11.5	16	0 - 11.5	4	0 - 11.5	0 - 6.2	7 - 11.5	1776.99	12/17/84
SH-07	III	13.5	16	0 - 13.5	4	0 - 13.5	0 - 8.5	9.5 - 13.5	1775.11	01/16/85
SH-08	III	12	16	0 - 12	4	0 - 11.4	0 - 5.2	5.9 - 11.4	1763.25	01/17/85
SH-09	III	9	16	0 - 9	4	0 - 9	0 - 3.5	4 - 9	1761.19	01/18/85
SH-10	III	8	16	0 - 8	4	0 - 7.5	0 - 2	3 - 7.5	1757.69	01/18/85
SH-11	III	17.5	16	0 - 17.5	4	0 - 17.5	0 - 11	13 - 17.5	1756.00	01/16/85
RS-01	I	24.5	16	0 - 24.5	4	0 - 24.5	0 - 12.5	14.5 - 24.5	1879.68	06/08/85
RS-02	I	26	16	0 - 26	4	0 - 26	0 - 15	16 - 26	1901.08	06/08/85
RS-03	I	21	16	0 - 21	4	0 - 21	0 - 10	11 - 21	1834.22	06/08/85
RS-04	I	30	16	0 - 30	4	0 - 30	0 - 18	20 - 30	1826.56	06/08/85
RS-05	I	20	16	0 - 20	4	0 - 20	0 - 7.5	10 - 20	1783.73	06/07/85
RS-06	I	18	16	0 - 18	4	0 - 18	0 - 7	8 - 18	1757.43	06/07/85
RS-07	I	7.5	16	0 - 7.5	4	0 - 7.5	0 - 1.6	2.5 - 7.5	1732.27	06/07/85
RS-08	II	12.5	16	0 - 12.5	4	0 - 12.5	0 - 5	7 - 12.5	1821.46 ^a	06/09/85
RS-09	III	26.2	16	0 - 26.2	4	0 - 26.2	0 - 14.2	16 - 26.2	1735.52	09/11/85
RS-10	II	17	16	0 - 17	4	0 - 17	0 - 6	7.3 - 17	1762.08	06/10/85
RS-11	IV	17.5	16	0 - 17.5	4	0 - 17.5	0 - 9	10 - 17.5	1790.39	06/10/85
RS-12	III	15.3	16	0 - 15.3	4	0 - 15.3	0 - 4	5 - 15.3	1727.48	06/09/85
RS-13	II	22.8	16	0 - 22.8	4	0 - 22.8	0 - 15	17 - 22.8	1645.13	06/11/85
RS-14	III	16	16	0 - 16	4	0 - 16	0 - 5	6 - 16	1734.78	06/09/85
RS-15	III	12	16	0 - 12	4	0 - 12	0 - 4.5	5 - 12	1764.86	06/10/85
RS-16	IV	20.5	16	0 - 20.5	4	0 - 20.5	0 - 14.5	16.5 - 20.5	1811.05	06/11/85
RS-17	III	16	16	0 - 16	4	0 - 16	0 - 4	6.4 - 16	1766.52	06/10/85
RS-18	IV	13	16	0 - 13	4	0 - 13	0 - 6	7.5 - 13	1802.86	06/12/85
RS-19	I	15	16	0 - 15	4	0 - 15	0 - 4.8	4.8 - 15	1812.42	09/12/85
RS-20	I	20.5	16	0 - 20.5	4	0 - 20.5	0 - 8.5	10.5 - 20.5	1823.77	09/12/85
RS-21	II	29	16	0 - 29	4	0 - 24.6	0 - 3.5	14.5 - 24.6	1767.36	10/23/85
RS-22	II	31	16	0 - 31	4	0 - 31	0 - 4	21 - 31	1771.23	10/23/85
RS-23	IV	13	12	0 - 13	4	0 - 13	0 - 6.8	8 - 13	1887.25	08/23/88

TABLE A-1
WELL CONSTRUCTION DATA
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identifier	Area No.	Effective Borehole Depth (feet)	Borehole		Casing		Sealed Interval (feet)	Perforated Interval (feet)	Measuring Point Elevation (ft MSL)	Date Drilling Completed
			Diameter (inches)	Interval (feet)	Inside Diameter (inches)	Interval (feet)				
RS-24	IV	8.5	12	0 - 8.5	4	0 - 8.5	0 - 3	4 - 8.5	1809.24	08/25/88
RS-25	IV	13.5	Trenched	0 - 13.5	4	0 - 13.5	0 - 2	8.5 - 13.5	1862.71	08/25/88
RS-26	1989 During Soils Removal									
RS-27	IV	9	8	0 - 9	4	0 - 9	0 - 3	5 - 9	1804.78	08/02/88
RS-28	IV	19	8	0 - 19	4	0 - 19	0 - 9	14 - 19	1768.59	08/17/89
RS-29	II	38	9-7/8	0 - 38	4	0 - 37.5	0 - 17	27 - 37.5	1833.09	02/20/93
RS-30	I	23	12	0 - 23	4	0 - 21	0 - 9	10.5 - 21	1909.01	03/20/91
RS-31	I	18	12	0 - 18	4	0 - 17.5	0 - 6	7 - 17.5	1909.03	03/19/91
RS-32	I	18	12	0 - 18	4	0 - 17	0 - 6	6.5 - 17	1908.99	03/19/91
RS-54	IV	38	11-1/4 5-7/8	0 - 7 7 - 38	6-1/4 ---	0 - 7 ---	0 - 7	Open Hole	1846.66	08/09/93
ES-01	I	26	15	0 - 26	6	(v)1.3 - 25.5	0 - 6	15.5 - 25.5	1782.20	10/20/86
ES-02	I	17.5	15	0 - 17.5	6	(v)1.5 - 16.7	0 - 4.8	6.7 - 16.7	1814.60	10/20/86
ES-03	I	27	15	0 - 27	6	(v)1.3 - 27	0 - 9.4	17 - 27	1783.39	10/21/86
ES-04	I	20	15	0 - 20	6	(v)1.4 - 20	0 - 4	5.8 - 20	1817.24	10/21/86
ES-05	I	19	15	0 - 19	6	(v)1.3 - 19	0 - 5.8	9 - 19	1818.13	10/21/86
ES-06	I	25	15	0 - 25	6	0 - 25	0 - 5.6	11.6 - 25	1825.41	11/04/86
ES-07	I	23.2	15	0 - 23.2	6	0 - 23.2	0 - 6.5	8.5 - 23.2	1826.53	11/05/86
ES-08	I	24.1	15	0 - 24.1	6	0.6 - 24.1	0 - 4.7	12.1 - 24.1	1826.60	11/05/86
ES-09	I	24.2	15	0 - 24.2	6	0 - 24.2	0 - 3.4	11.9 - 24.2	1827.80	11/05/86
ES-10	I	20	15	0 - 20	6	0 - 20	0 - 5	9.7 - 20	1829.46	11/05/86
ES-11	I	27	15	0 - 27	6	0 - 27	0 - 4.2	7.2 - 27	1835.07	11/06/86
ES-12	I	22.5	15	0 - 22.5	6	0 - 22.5	0 - 6.9	10.9 - 22.5	1838.19	11/06/86
ES-13	I	30	15	0 - 30	6	(v)1.2 - 23.6	0 - 3.1	6 - 23.6	1782.58	11/06/86
ES-14	III	24.6	15	0 - 24.6	6	0 - 23.5	0 - 9.4	12.9 - 23.5	1728.69	11/10/86
ES-15	III	24	15	0 - 24	6	0 - 24	0 - 10.8	13.5 - 24	1730.21	11/10/86
ES-16	III	24.8	15	0 - 24.8	6	0 - 24.8	0 - 4.3	8.1 - 24.8	1737.90	11/10/86
ES-17	III	28	15	0 - 28	6	0 - 28	0 - 7.9	10.4 - 28	1739.24 ^a	11/11/86
ES-18	II	35	15	0 - 35	6	0 - 26.9	0 - 9.1	12.9 - 26.9	1770.25	11/11/86
ES-19	II	33	15	0 - 33	6	0 - 26.3	0 - 6.3	10.3 - 26.3	1769.44	11/11/86
ES-20	II	35	15	0 - 35	6	0 - 23	0 - 3.5	9.8 - 23	1770.58	11/13/86
ES-21	II	35	12	0 - 35	6	0 - 35	0 - 2.2	15.8 - 35	1769.62	01/26/87
ES-22	II	35.5	12	0 - 35.5	6	0 - 35.5	0 - 5.2	17.5 - 35.5	1770.93	01/27/87
ES-23	III	20	12	0 - 20	6	0 - 20	0 - 2.4	10.6 - 20	1760.73	01/27/87
ES-24	III	30	12	0 - 30	6	0 - 30	0 - 11.7	18.3 - 30	1728.67	01/28/87

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VENTURA COUNTY, CALIFORNIA

Well Identifier	Area No.	Effective Borehole Depth (feet)	Borehole		Casing		Sealed Interval (feet)	Perforated Interval (feet)	Measuring Point Elevation (ft MSL)	Date Drilling Completed
			Diameter (inches)	Interval (feet)	Inside Diameter (inches)	Interval (feet)				
ES-25	III	35	12	0 - 35	6	0 - 35	0 - 9.2	19.5 - 35	1737.78	01/28/87
ES-26	III	35	12	0 - 35	6	0 - 34.5	0 - 8.7	17.5 - 34.5	1748.04 ^a	01/28/87
ES-27	III	35	12	0 - 35	6	0 - 35	0 - 9.5	15.3 - 35	1740.34 ^a	01/28/87
ES-28	III	21	12	0 - 21	6	0 - 21	0 - 1.7	8.9 - 21	1759.15	01/28/87
ES-29	III	28	12	0 - 28	6	0 - 28	0 - 8.4	11.6 - 28	1760.47	01/29/87
ES-30	III	25	12	0 - 25	6	0 - 25	0 - 5.5	10.1 - 25	1759.51	01/29/87
ES-31	IV	25	12	0 - 25	6	0 - 25	0 - 9.7	11.6 - 25	1787.01	01/29/87
ES-32	III	25	12	0 - 25	6	0 - 21.5	0 - 4.6	7.5 - 21.5	1740.65	01/29/87
HAR-02	I	30	8	0 - 30	4	(v)1.1 - 30	0 - 6.2	15.4 - 30	1886.38	05/12/87
HAR-03	I	30	8	0 - 30	4	0 - 30	0 - 6.2	14.7 - 30	1875.35 ^a	05/13/87
HAR-04	I	29	8	0 - 29	4	0 - 29	0 - 6.4	12.1 - 29	1873.40 ^b	05/13/87
HAR-09	II	30.5	8	0 - 30.5	4	0 - 30.5	0 - 5.9	16.1 - 30.5	1821.42 ^a	05/16/87
HAR-11	II	31	8	0 - 31	4	0 - 31	0 - 5	11.2 - 31	1827.78 ^a	05/16/87
HAR-12	III	30.5	8	0 - 30.5	4	0 - 30.5	0 - 3.5	15.5 - 30.5	1797.23 ^a	05/17/87
HAR-13	III	31.6	8	0 - 31.6	4	0 - 31.6	0 - 5.5	17.4 - 31.6	1801.09 ^a	05/17/87
HAR-14	III	40	8	0 - 40	4	0 - 40	0 - 5.5	11.8 - 40	1796.91 ^a	05/19/87
HAR-15	II	40	8	0 - 40	4	0 - 40	0 - 5	10.2 - 40	1809.57 ^a	05/19/87
HAR-27	II	40	8	0 - 40	4	0 - 40	0 - 3	21 - 40	1719.28 ^a	06/14/87
HAR-28	II	40	8	0 - 40	4	0 - 40	0 - 6	20 - 40	1720.06 ^a	06/14/87
HAR-29	II	40.2	8	0 - 40.2	4	0 - 40.2	0 - 7	20 - 40.2	1724.04 ^a	06/14/87
HAR-30	II	35	8	0 - 35	4	0 - 35	0 - 6.5	14 - 35	1807.05 ^a	06/15/87
HAR-31	II	40	8	0 - 40	4	0 - 40	0 - 6	22 - 40	1812.32 ^a	06/15/87
HAR-32	III	40	8	0 - 40	4	0 - 40	0 - 6	21 - 40	1736.49 ^a	06/17/87
HAR-33	III	35	8	0 - 35	4	0 - 35	0 - 6	18 - 35	1744.56 ^a	06/17/87
HAR-34	III	23	8	0 - 23	4	0 - 23	0 - 3	9 - 23	1751.17	06/17/87

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BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA**

Well Identifier	Area No.	Effective Borehole Depth (feet)	Borehole		Casing		Sealed Interval (feet)	Perforated Interval (feet)	Measuring Point Elevation (ft MSL)	Date Drilling Completed
			Diameter (inches)	Interval (feet)	Inside Diameter (inches)	Interval (feet)				
CHATSWORTH FORMATION										
RD-01	I	506	15 8-5/8	0 - 26 26 - 506	10-1/8 ---	0 - 26 ---	0 - 26	Open Hole	1935.89	01/09/86
RD-02	I	400	15 8-5/8	0 - 26 26 - 400	10-1/8 ---	0 - 26 ---	0 - 26	Open Hole	1873.89 ^a	01/16/86
RD-03	I	300	15 8-5/8	0 - 27 27 - 300	10-1/8 ---	0 - 27 ---	0 - 27	Open Hole	1743.53 ^a	01/10/86
RD-04	II	496	15 8-5/8	0 - 27 27 - 496	10-1/8 ---	0 - 27 ---	0 - 27	Open Hole	1883.85	01/22/86
RD-05A	UL-S	158	12-1/4 6-1/4	0 - 29.5 29.5 - 158	8-1/4 ---	0 - 29.5 ---	0 - 29.5	Open Hole	1704.78 ^a	02/17/93
RD-05B	UL-S	310	15 9-7/8	0 - 27 27 - 310	10-1/8 5	0 - 27 0 - 310	0 - 27 0 - 248	257.6 - 310	1706.19 ^a	05/20/93
RD-05C	UL-S	480	17-1/2 11-7/8 6-1/4	0 - 29 29 - 421 421 - 480	12-1/8 6-1/4 ---	0 - 28 0 - 418 ---	0 - 29 0 - 421	Open Hole	1705.27 ^a	06/27/94
RD-06	UL-S	260	15 9-7/8 8-5/8	0 - 27 27 - 136 136 - 260	10-1/8 6-1/4 ---	0 - 27 0 - 140 ---	0 - 27	70 - 140 Open Hole	1617.22 ^a	01/31/86
RD-07	IV	300	15 8-5/8	0 - 25 25 - 300	10-1/8 ---	0 - 25 ---	0 - 25	Open Hole	1812.82	01/08/86
RD-08	III	50	15 8-5/8	0 - 27 27 - 50	10-1/8 ---	0 - 27 ---	0 - 27	Open Hole	1763.70 ^a	01/29/86
RD-09	II	200	15 8-5/8	0 - 37 37 - 200	10-1/8 ---	0 - 37 ---	0 - 37	Open Hole	1768.20	01/28/86
RD-10	I	400	15 8-3/8	0 - 30 30 - 400	10-1/8 ---	0 - 30 ---	0 - 30	Open Hole	1904.43	05/07/86
RD-11	III	71	15 8-3/8	0 - 30 30 - 71	10-1/8 ---	0 - 30 ---	0 - 30	Open Hole	1762.84 ^a	10/23/86
RD-12	III	72	15 8-3/8	0 - 30 30 - 72	10-1/8 ---	0 - 30 ---	0 - 30	Open Hole	1762.62 ^b	10/23/86

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BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identifier	Area No.	Effective Borehole Depth (feet)	Borehole		Casing		Sealed Interval (feet)	Perforated Interval (feet)	Measuring Point Elevation (ft MSL)	Date Drilling Completed
			Diameter (inches)	Interval (feet)	Inside Diameter (inches)	Interval (feet)				
RD-13	IV	160	12 6-1/2	0 - 30 30 - 160	8-1/4 ---	0 - 30 ---	0 - 30	Open Hole	1840.27	07/25/89
RD-14	IV	125	12 6-1/2	0 - 30 30 - 125	8-1/4 ---	0 - 30 ---	0 - 30	Open Hole	1824.29	07/27/89
RD-15	IV	152	12 6-1/2	0 - 30 30 - 152	8-1/4 ---	0 - 30 ---	0 - 30	Open Hole	1817.70	07/27/89
RD-16	IV	220	12 6-1/2	0 - 30 30 - 220	8-1/4 ---	0 - 30 ---	0 - 30	Open Hole	1808.99	08/15/89
RD-17	IV	125	12 6-1/2	0 - 30 30 - 125	8-1/4 ---	0 - 30 ---	0 - 30	Open Hole	1836.30	08/10/89
RD-18	IV	240	12 6-1/2	0 - 30 30 - 240	8-1/4 ---	0 - 30 ---	0 - 30	Open Hole	1839.49	07/28/89
RD-19	IV	135	12 6-1/2	0 - 30 30 - 135	8-1/4 ---	0 - 30 ---	0 - 30	Open Hole	1853.13	07/31/89
RD-20	IV	127	12 6-1/2	0 - 30 30 - 127	8-1/4 ---	0 - 30 ---	0 - 30	Open Hole	1819.72	07/27/89
RD-21	IV	175	12 6-1/2	0 - 30 30 - 175	8-1/4 ---	0 - 30 ---	0 - 30	Open Hole	1866.96	08/11/89
RD-22	IV	440	12 6-1/2	0 - 30 30 - 440	8-1/4 ---	0 - 30 ---	0 - 30	Open Hole	1853.41	08/15/89
RD-23	IV	440	12 6-1/2	0 - 30 30 - 440	8-1/4 ---	0 - 30 ---	0 - 30	Open Hole	1838.19	08/16/89
RD-24	IV	150	12 6-1/2	0 - 30 30 - 150	8-1/4 ---	0 - 30 ---	0 - 30	Open Hole	1809.93	08/09/89
RD-25	IV	Well abandoned April 2004 as part of Building 4059 demolition.								
RD-26	II	160	12 6-1/2	0 - 30 30 - 160	8-1/4 ---	0 - 30 ---	0 - 30	Open Hole	1880.39	08/03/89
RD-27	IV	150	12 6-1/2	0 - 30 30 - 150	8-1/4 ---	0 - 30 ---	0 - 30	Open Hole	1841.67	08/10/89
RD-28	IV	Well abandoned April 2004 as part of Building 4059 demolition.								
RD-29	IV	100	12 6-1/2	0 - 30 30 - 100	8-1/4 ---	0 - 30 ---	0 - 30	Open Hole	1806.29	08/10/89
RD-30	IV	75	12 6-1/2	0 - 30 30 - 75	8-1/4 ---	0 - 30 ---	0 - 30	Open Hole	1768.69	08/11/89

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VENTURA COUNTY, CALIFORNIA

Well Identifier	Area No.	Effective Borehole Depth (feet)	Borehole		Casing		Sealed Interval (feet)	Perforated Interval (feet)	Measuring Point Elevation (ft MSL)	Date Drilling Completed
			Diameter (inches)	Interval (feet)	Inside Diameter (inches)	Interval (feet)				
RD-31	I	542	12	0 - 30	8-1/4	0 - 30	0 - 30	Open Hole	1944.55	08/16/89
			6-1/2	30 - 178	---	---				
			3.8	178 - 542	---	---				
RD-32	OS	150	17-1/2	0 - 19	12-1/8	0 - 19	0 - 19	Open Hole	1808.47	02/09/94
			11-7/8	19 - 99	6-1/4	0 - 99				
			5-7/8	99 - 150	---	---				
RD-33A	UL-N	320	17-1/2	0 - 11	12-1/8	0 - 11	0 - 11	Open Hole	1792.97	09/27/91
			11	11 - 100	6-1/4	0 - 100				
			5-1/2	100 - 320	---	---				
RD-33B	UL-N	415	17-1/2	0 - 20	12-1/8	0 - 20	0 - 20	Open Hole	1793.21	09/27/91
			11	20 - 360	6-1/4	0 - 360				
			6-1/4	360 - 415	---	---				
RD-33C	UL-N	520	17-1/2	0 - 10	12-1/8	0 - 10	0 - 10	Open Hole	1793.54	09/21/91
			11	10 - 480	6-1/4	0 - 480				
			6-1/4	480 - 520	---	---				
RD-34A	UL-N	60	12-1/4	0 - 16	8-1/4	0 - 16	0 - 16	Open Hole	1761.83	07/25/91
			6-1/2	16 - 60	---	---				
RD-34B	UL-N	240	17-1/2	0 - 30	12-1/8	0 - 30	0 - 30	Open Hole	1762.51	08/11/91
			11	30 - 180	6-1/4	0 - 180				
			6-1/4	180 - 240	---	---				
RD-34C	UL-N	450	17-1/2	0 - 30	12-1/8	0 - 30	0 - 30	Open Hole	1762.60	08/10/91
			11	30 - 380	6-1/4	0 - 380				
			6-1/4	380 - 450	---	---				
RD-35A	I	110	12-1/4	0 - 19.5	8-1/4	0 - 19.5	0 - 19.5	65 - 105.5	1908.62	01/24/93
			6-1/4	19.5 - 110	4	0 - 105.5				
RD-35B	I	328	24	0 - 10	18	0 - 10	0 - 10	303 - 324	1905.65	01/18/99
			17-1/2	10 - 162	12	0 - 158				
			9-7/8	162 - 328	4	0 - 324				
			3	328 - 359	---	---				
RD-36A	OS	95	17-1/2	0 - 20	12-1/8	0 - 20	0 - 20	Open Hole	1913.09 ^b	01/14/94
			6-1/4	20 - 95	---	---				
RD-36B	OS	170	17-1/2	0 - 20.5	12-1/8	0 - 20.5	0 - 20.5	Open Hole	1915.54 ^a	03/13/94
			11-7/8	20.5 - 120	6-1/4	0 - 120				
			5-7/8	120 - 170	---	---				
RD-36C	OS	466	26	0 - 20	20	0 - 20	0 - 20	1913.80 ^a	04/23/94	

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BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA**

Well Identifier	Area No.	Effective Borehole Depth (feet)	Borehole		Casing		Sealed Interval (feet)	Perforated Interval (feet)	Measuring Point Elevation (ft MSL)	Date Drilling Completed
			Diameter (inches)	Interval (feet)	Inside Diameter (inches)	Interval (feet)				
			15 5-7/8	20 – 198 198 – 466	10-1/8 4	0 - 197 0 - 455.5	0 - 198 0 - 381	405 - 455.5		
RD-36D	OS	605	24-1/2 15 9-7/8	0 – 10 10 – 554 554 – 608	18 10 4	0 - 10 0 - 550 0 - 605	0 - 10 0 - 550 0 - 560	575 - 605	1920.23 ^a	09/10/97
RD-37	OS	400	17-1/2 11-7/8 7-7/8	0 – 38 38 – 260 260 – 400	12-1/8 4	0 - 38 0 - 377	0 - 38	272 - 377	1869.61 ^a	01/28/94
RD-38A	OS	120	17-1/2 6-1/2	0 – 20 20 – 120	12-1/8 ---	0 - 20 ---	0 - 20	Open Hole	1879.62 ^a	02/12/94
RD-38B	OS	370	24 17-1/2 11-7/8 5-1/2	0 - 6 6 - 170 170 - 279 279 - 370	18 12 6 ---	0 - 6 0 - 161 0 - 277 ---	0 - 6 0 - 170 0 - 279	Open Hole	1880.96 ^a	12/15/98
RD-39A	OS	159	17-1/2 6-1/2	0 – 20 20 – 159	12-1/8 ---	0 - 20 ---	0 - 20	Open Hole	1960.53 ^a	02/02/94
RD-39B	OS	477	24 15 9-1/2 6-1/2	0 – 12 12 – 213 213 – 477 477 – 500	16 10 4 ---	0 - 12 0 - 210 0 – 470 ---	0 - 12 0 - 213 0 – 424 477 – 500	440 - 470	1959.73 ^a	11/11/97
RD-40	II	300	12-1/4 6-1/4	0 - 19.5 19.5 - 300	8-1/4 ---	0 - 19.5 ---	0 - 19.5	Open Hole	1972.02	01/08/93
RD-41A	II	120	12-1/4 6-1/4	0 - 19.5 19.5 - 120	8-1/4 ---	0 - 19.5 ---	0 - 19.5	Open Hole	1774.61 ^a	01/10/93
RD-41B	II	390	17-1/2 11-7/8 5-7/8	0 - 19.5 19.5 - 340 340 - 390	12-1/8 6-1/4 ---	0 - 19.5 0 - 336 ---	0 - 19.5 0 - 340	Open Hole	1774.71	10/19/93
RD-41C	II	558	17-1/2 11-1/4 6-1/4	0 - 19.5 19.5 - 492 492 - 558	12-1/8 6-1/4 ---	0 - 19.5 0 - 491 ---	0 - 19.5 0 - 492	Open Hole	1773.73	10/05/93
RD-42	II	120	12-1/4 6-1/4	0 - 19.5 19.5 - 120	8-1/4 ---	0 - 19.5 ---	0 - 19.5	Open Hole	1945.46	01/09/93

**TABLE A-1
WELL CONSTRUCTION DATA
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA**

Well Identifier	Area No.	Effective Borehole Depth (feet)	Borehole		Casing		Sealed Interval (feet)	Perforated Interval (feet)	Measuring Point Elevation (ft MSL)	Date Drilling Completed
			Diameter (inches)	Interval (feet)	Inside Diameter (inches)	Interval (feet)				
RD-43A	OS	98	17-1/2 6-1/2	0 - 19.5 19.5 - 98	12-1/8 ---	0 - 19.5 ---	0 - 19.5	Open Hole	1680.66	09/09/94
RD-43B	OS	295	17-1/2 11-7/8 6-1/2	0 - 20 20 - 240.5 240.5 - 295	12-1/8 6-1/4 ---	0 - 20 0 - 240.5 ---	0 - 20 0 - 30.5 115.5 - 240.5	Open Hole	1680.11 ^a	10/25/94
RD-43C	OS	439.5	17-1/2 11-7/8 6-1/2	0 - 20 20 - 370 370 - 439.5	12-1/8 6-1/4 ---	0 - 20 0 - 370 ---	0 - 20 5 - 140 183 - 219 318 - 368	Open Hole	1680.11 ^a	10/10/94
RD-44	I	485	17-1/2 6-1/4	0 - 20 20 - 485	12-1/8 ---	0 - 20 ---	0 - 20	Open Hole	2035.92	03/13/93
RD-45A	I	480	17-1/2 6-1/2	0 - 19.5 19.5 - 480	12-1/8 ---	0 - 19.5 ---	0 - 19.5	Open Hole	1841.59 ^b	02/06/93
RD-45B	I	590	17-1/2 11-7/8 6-1/2	0 - 20 20 - 538 538 - 590	12-1/8 6-1/4 ---	0 - 20 0 - 538 ---	0 - 20 0 - 127 471 - 538	Open Hole	1840.01 ^a	09/11/94
RD-45C	I	798	24 11-7/8 6-1/4	0 - 20 20 - 750 750 - 798	16 6-1/4 ---	0 - 19 0 - 750 ---	0 - 20 0 - 135 483 - 540 590 - 750	Open Hole	1836.33 ^a	08/26/94
RD-46A	I	140	12-1/4 6-1/4	0 - 29.5 29.5 - 140	8-1/4 ---	0 - 29.5 ---	0 - 29.5	Open Hole	1806.25 ^a	01/13/93
RD-46B	I	328	24 17-1/2 9-7/8 3	0 - 20 20 - 193 193 - 328 328 - 366	18 12 4 ---	0 - 20 0 - 190 0 - 325 ---	0 - 20 0 - 193 0 - 281 328 - 366	293 - 325	1806.93 ^a	12/19/98
RD-47	I	710	17-1/2 6-1/2	0 - 19 19.0 - 710	12-1/8 ---	0 - 19 ---	0 - 19	Open Hole	2045.72	04/01/93
RD-48A	UL-S	110	12-1/4 6-1/2	0 - 20 20 - 110	8-1/4 ---	0 - 20 ---	0 - 20	Open Hole	1736.61 ^a	03/15/93
RD-48B	UL-S	248	17-1/2 11-1/4 6-1/4	0 - 29.5 29.5 - 200 200 - 248	12-1/8 6-1/4 ---	0 - 29.5 0 - 200 ---	0 - 29.5 0 - 198.5	Open Hole	1735.73 ^a	05/26/93

**TABLE A-1
WELL CONSTRUCTION DATA
BOEING SANTA SUSANA FIELD LABORATORY
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Well Identifier	Area No.	Effective Borehole Depth (feet)	Borehole		Casing		Sealed Interval (feet)	Perforated Interval (feet)	Measuring Point Elevation (ft MSL)	Date Drilling Completed
			Diameter (inches)	Interval (feet)	Inside Diameter (inches)	Interval (feet)				
RD-48C	UL-S	438	17-1/2 11-1/4 6-1/4	0 - 30 30 - 371 371 - 438	12-1/8 6-1/4 ---	0 - 30 0 - 371 ---	0 - 30 0 - 371	Open Hole	1735.10 ^a	05/16/93
RD-49A	II	50	12-3/4 6-1/4	0 - 18.5 18.5 - 50	8-1/4 ---	0 - 18.5 ---	0 - 18.5	Open Hole	1867.25 ^b	06/08/93
RD-49B	II	298	17-1/2 11-7/8 5-7/8	0 - 20 20 - 250 250 - 298	12-1/8 6-1/4 ---	0 - 20 0 - 250 ---	0 - 20 0 - 250	Open Hole	1868.11 ^a	06/14/93
RD-49C	II	558	17-1/2 11-7/8 6-1/4	0 - 19 19 - 500 500 - 558	12-1/8 6-1/4 ---	0 - 19 0 - 491 ---	0 - 19 0 - 491	Open Hole	1869.63 ^a	07/07/93
RD-50	IV	195	12-3/4 6-1/4	0 - 18.5 18.5 - 195	8-1/4 ---	0 - 18.5 ---	0 - 18.5	Open Hole	1914.88	05/28/93
RD-51A	II	250	24 11-3/4 5-1/2	0 - 50 50 - 160 160 - 250	12-1/8 6-1/4 ---	0 - 50 0 - 160 ---	0 - 50 0 - 160	Open Hole	1832.84 ^a	07/11/91
RD-51B	II	370	24 11-3/4 5-1/2	0 - 48 48 - 300 300 - 370	12-1/8 6-1/4 ---	0 - 48 0 - 300 ---	0 - 48 0 - 300	Open Hole	1832.76 ^a	07/11/91
RD-51C	II	602	14 11-3/4 5-1/2	0 - 13.5 13.5 - 510 510 - 602	12-1/8 6-1/4 ---	0 - 13.5 0 - 510 ---	0 - 13.5 0 - 510	Open Hole	1831.56 ^a	07/09/91
RD-52A	I	137	12-1/4 6-1/2	0 - 19.5 19.5 - 137	8-1/4 ---	0 - 19.5 ---	0 - 19.5	Open Hole	1755.17 ^a	01/25/93
RD-52B	I	318	17-1/2 11-1/4 5-7/8	0 - 24 24 - 200 200 - 318	12-1/8 6-1/4 ---	0 - 24 0 - 200 ---	0 - 24 0 - 199	Open Hole	1712.15 ^a	12/06/93
RD-52C	I	678	17-1/2 11-7/8 11-1/4 6-1/4	0 - 20 20 - 450 450 - 620 620 - 678	12-1/8 6-1/4 ---	0 - 20 0 - 620 ---	0 - 20 0 - 620	Open Hole	1713.15 ^a	11/29/93

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WELL CONSTRUCTION DATA
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identifier	Area No.	Effective Borehole Depth (feet)	Borehole		Casing		Sealed Interval (feet)	Perforated Interval (feet)	Measuring Point Elevation (ft MSL)	Date Drilling Completed
			Diameter (inches)	Interval (feet)	Inside Diameter (inches)	Interval (feet)				
RD-53	I	159	14 12 5-1/2	0 - 20 20 - 77 77 - 159	12-1/8 6-1/4 ---	0 - 20 0 - 77 ---	0 - 20 0 - 77	Open Hole	1909.33 ^a	05/15/91
RD-54A	IV	278	17-1/2 11-1/4 5-7/8	0 - 19 19 - 119 119 - 278	12-1/8 6-1/4 ---	0 - 19 0 - 119 ---	0 - 19 0 - 119	Open Hole	1841.72	08/07/93
RD-54B	IV	437	17-1/2 11-1/4 5-7/8	0 - 19 19 - 379 379 - 437	12-1/8 6-1/4 ---	0 - 19 0 - 379 ---	0 - 19 0 - 379	Open Hole	1842.54	08/31/93
RD-54C	IV	638	17-1/2 11-1/4 6-1/4	0 - 20 20 - 558 558 - 638	12-1/8 6-1/4 ---	0 - 20 0 - 557 ---	0 - 20 0 - 557	Open Hole	1843.77	07/27/93
RD-55A	III	106	17-1/2 6-1/4	0 - 28 28 - 106	12-1/8 ---	0 - 28 ---	0 - 28	Open Hole	1755.78 ^a	02/19/93
RD-55B	III	250	17-1/2 11 5-7/8	0 - 20 20 - 199.5 199.5 - 250	12-1/8 6-1/4 ---	0 - 20 0 - 199.5 ---	0 - 20 0 - 199.5	Open Hole	1757.15 ^a	04/19/93
RD-56A	UL-N	397.5	17-1/2 6-1/2	0 - 20.5 20.5 - 397.5	12-1/8 ---	0 - 20.5 ---	0 - 20.5	Open Hole	1758.62	03/08/94
RD-56B	UL-N	463	22 15 6-1/2	0 - 10 10 - 453 453 - 463	16 10 ---	0 - 10 0 - 443 ---	0 - 10 0 - 443	Open Hole	1761.83	07/24/97
RD-57	UL-N	419	17-1/2 6-1/2	0 - 19.5 19.5 - 419	12-1/8 ---	0 - 19.5 ---	0 - 19.5	Open Hole	1774.15	02/23/94
RD-58A	III	126	12-1/4 6-1/4	0 - 19.5 19.5 - 126	8-1/4 ---	0 - 19.5 ---	0 - 19.5	Open Hole	1756.02 ^a	02/01/93
RD-58B	III	268	17-1/2 11-7/8 6-1/2	0 - 20 20 - 220 220 - 268	12-1/8 6-1/4 ---	0 - 20 0 - 220 ---	0 - 20 0 - 220	Open Hole	1761.47 ^a	08/28/94
RD-58C	III	498	17-1/2 11-7/8 6-1/2	0 - 19 19 - 450 450 - 498	12-1/8 6-1/4 ---	0 - 19 0 - 450 ---	0 - 19 0 - 450	Open Hole	1759.19 ^a	08/09/94
RD-59A	OS	58	17-1/2 6-1/2	0 - 21 21 - 58	12-1/8 ---	0 - 21 ---	0 - 21	Open Hole	1340.50	05/19/94

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BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identifier	Area No.	Effective Borehole Depth (feet)	Borehole		Casing		Sealed Interval (feet)	Perforated Interval (feet)	Measuring Point Elevation (ft MSL)	Date Drilling Completed
			Diameter (inches)	Interval (feet)	Inside Diameter (inches)	Interval (feet)				
RD-59B	OS	214	17-1/2 6-1/2	0 - 19.5 19.5 - 214	12-1/8 2	0 - 19.5 0 - 209	0 - 19.5 0 - 161	178 - 209	1342.49	07/02/94
RD-59C	OS	398	17-1/2 6-1/2	0 - 19 19 - 398	12-1/8 2	0 - 19 0 - 397	0 - 19 0 - 186 250 - 328	345.5 - 397	1345.41	07/02/94
RD-60	III	126	12-1/4 6-1/4	0 - 19.5 19.5 - 126	8-1/4 ---	0 - 19.5 ---	0 - 19.5	Open Hole	1870.40	01/21/93
RD-61	I	129	17-1/2 6-1/4	0 - 19 19 - 129	12-1/8 ---	0 - 19 ---	0 - 19	Open Hole	1845.87	04/26/94
RD-62	UL-S	238	17-1/2 6-1/2	0 - 20.7 20.7 - 238	12-1/8 ---	0 - 20.7 ---	0 - 19.5	Open Hole	1837.20	05/06/94
RD-63	IV	230	12-3/4 6-1/2	0 - 20 20 - 230	8-1/4 ---	0 - 20 ---	0 - 20	Open Hole	1764.85	05/10/94
RD-64	IV	398	12-1/4 6-1/2	0 - 19 19 - 398	8-1/4 ---	0 - 19 ---	0 - 19	Open Hole	1857.04	05/19/94
RD-65	IV	397	12-3/4 6-1/2	0 - 19 19 - 397	8-1/4 ---	0 - 19 ---	0 - 19	Open Hole	1819.14	08/14/94
RD-66	OS	225	22 6-1/2	0 - 19 19 - 225	12 ---	0 - 19 ---	0 - 19	Open Hole	1730.79	07/28/97
RD-67	UL-S	102	17-1/2 6-1/2	0 - 20 20 - 102	12 ---	0 - 20 ---	0 - 20	Open Hole	1901.71	09/19/97
RD-68A	OS	90	17-1/2 6-1/4	0 - 19 19 - 90	12 ---	0 - 19 ---	0 - 19	Open Hole	1307.64	06/05/97
RD-68B	OS	272	--- 11-7/8	0 - 52 52 - 272	12 4	0 - 52 0 - 270	0 - 224	240 - 270	1312.44	06/11/97
RD-69	I	103	17-1/2 6-1/4	0 - 19 19 - 103	12 ---	0 - 19 ---	0 - 19	Open Hole	1831.28	06/16/97
RD-70	UL-N	278	17-1/2 6-1/2	0 - 19 19 - 278	12 ---	0 - 19 ---	0 - 19	Open Hole	1732.44 ^a	06/14/97
RD-71	OS	281	17-1/2 6-1/2	0 - 20 20 - 281	12 ---	0 - 20 ---	0 - 20	Open Hole	1740.02	07/27/97
RD-72	I	182	24 6-1/2	0 - 27 27 - 182	12 ---	0 - 27 ---	0 - 27	Open Hole	1907.25	12/23/97
RD-73	I	141	12 6	0 - 20 20 - 141	10 ---	0 - 20 ---	0 - 20	Open Hole	1901.60	07/19/95

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			Diameter (inches)	Interval (feet)	Inside Diameter (inches)	Interval (feet)				
RD-74	IV	101	17-1/2 6-1/2	0 - 30 30 - 101	12 ---	0 - 30 ---	0 - 30	Open Hole	1810.90	01/21/99
RD-75	UL-S	425	12-3/4 4-4/5	0 - 30 30 - 425	8 ---	0 - 30 ---	0 - 30	Open Hole	1613.07 ^a	11/24/03
RD-76	I	153	12-3/4 6 5-1/2	0 - 30 30 - 153 153-185	8 4 ---	0 - 30 0 - 153 ---	0 - 30 --- Fill 153-185	133 - 153	1772.27	12/03/03
RD-77	I	170	12-3/4 4-4/5	0 - 46 46 - 170	8 ---	0 - 46 ---	0 - 46	Open Hole	1918.60 ^a	12/03/03
RD-78	I	333	12-3/4 5-1/2	0 - 40 40 - 333	8 ---	0 - 40 ---	0 - 40	Open Hole	1819.84	12/09/03
RD-80	I	224	12-3/4 4-4/5	0 - 19 19 - 224	8 ---	0 - 19 ---	0 - 19	Open Hole	1740.18	12/01/03
RD-81	I	205	12-3/4 6	0 - 20 20 - 205	8 ---	0 - 20 ---	0 - 20	Open Hole	1705.77	06/14/04
RD-82	II	197	12-3/4 6	0 - 20 20 - 197	8 ---	0 - 20 ---	0 - 20	Open Hole	1676.73	06/09/04
RD-83	II	143	12-3/4 6	0 - 20 20 - 143	8 ---	0 - 20 ---	0 - 20	Open Hole	1661.18	06/16/04
RD-84	I	171	10 4	0 - 40 40 - 171	5 ---	0 - 40 ---	0 - 40	Open Hole	1907.83	12/15/03
RD-85	IV	90	13-3/8 5	0 - 20 20 - 90	8 ---	0 - 20 ---	0 - 20	Open Hole	1849.09	08/04/04
RD-86	IV	80	13-3/8 5	0 - 20 20 - 80	8 ---	0 - 20 ---	0 - 20	Open Hole	1830.51	08/09/04
RD-87	IV	60	13-3/8 5	0 - 20 20 - 60	8 ---	0 - 20 ---	0 - 20	Open Hole	1789.09	08/11/04
RD-88	IV	30	13-3/8 5	0 - 20 20 - 30	8 ---	0 - 20 ---	0 - 20	Open Hole	1774.62	08/16/04
RD-89	IV	50	13 3.8	0 - 30 30 - 50	8 ---	0 - 30 ---	0 - 30	Open Hole	1814.18	05/18/05
RD-90	IV	125	12-3/4 6	0 - 20 20 - 125	8 ---	0 - 20 ---	0 - 20	Open Hole	1784.75	03/11/04
RD-91	IV	140	12-3/4 6	0 - 20 20 - 140	8 ---	0 - 20 ---	0 - 20	Open Hole	1818.04	03/12/04

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			Diameter (inches)	Interval (feet)	Inside Diameter (inches)	Interval (feet)				
RD-92	IV	105	12-3/4 6	0 - 20 20 - 105	8 ---	0 - 20 ---	0 - 20	Open Hole	1833.74	03/16/04
RD-93	IV	60	13 3.8	0 - 20 20 - 60	8 ---	0 - 20 ---	0 - 20	Open Hole	1810.48	05/19/05
RD-94	UL, NW of IV	35	13 3.8	0 - 20.5 20.5 - 35	8 ---	0 - 20.5 ---	0 - 20.5	Open Hole	1744.38	05/15/05
RD-95	IV	80	13 3.8	0 - 50 50 - 80	8 ---	0 - 50 ---	0 - 50	Open Hole	1811.36	05/12/05
RD-96	IV	90	13 4	0 - 20 20 - 90	8 ---	0 - 20 ---	0 - 20	Open Hole	1805.14	05/03/06
RD-97	UL, NW of IV	74.5	13 4	0 - 20 20 - 74.5	8 ---	0 - 20 ---	0 - 20	Open Hole	1792.22	04/28/06
RD-98	IV	65	13-3/8 5-1/2	0 - 20 20 - 65	8-1/8 ---	0 - 20 ---	0 - 20 ---	Open hole	1808.73	06/04/08
WS-04A	I	502	13 10	0 - 300 300 - 502	10-1/4 ---	0 - 288 ---	Unknown	96 - 288 Open Hole	1750.94 ^a	1953
WS-05	I	2304	>12-1/4 12-1/4	0 - 40 40 - 2304	12 ---	0 - 40 ---	0 - 55	Open Hole	1830.20	1951
WS-06	I	1440	30 13 8-1/4	0 - 6 6 - 450 450 - 1440	12-1/8 ---	0 - 450 ---	0 - 6	306 - 450 Open Hole	1932.72	1953
WS-07	IV	700	15 10	0 - 400 400 - 700	12-1/8 ---	0 - 400 ---	Unknown	216 - 400 Open Hole	1826.19	1954
WS-08	III	700	15 10	0 - 400 400 - 700	12-1/8 ---	0 - 400 ---	Unknown	192 - 400 Open Hole	1794.39	1954
WS-09	II	1800	30 15 10	0 - 17 17 - 690 690 - 1800	12-1/8 ---	0 - 17 ---	0 - 14	Open Hole	1883.99	1955
WS-09A	II	541	30 15	0 - 34 34 - 541	14 12-1/8 8-1/4	0 - 34 0 - 541 0 - 539	0 - 20	20 - 539	1647.61	1956
WS-09B	II	220	16	0 - 220	---	---	Unknown	Open Hole	1796.89	1956
WS-11	III	677	13 9	0 - 400 400 - 677	12-1/8 8-1/4	0 - 400 365.5 - 615	Unknown	200 - 400 365 - 615 Open Hole	1748.70	1956

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			Diameter (inches)	Interval (feet)	Inside Diameter (inches)	Interval (feet)				
WS-12	I	1768	15 12	0 - 408 408 - 1768	14 ---	0 - 375 ---	Unknown	Open Hole	1705.98	1956
WS-13	II	940	>13 11-1/2	0 - 750 750 - 940	12-1/8 ---	0 - 750 ---	0 - 15	22 - 750 Open Hole	1658.62	1957
WS-14	I	1272	>16 12-3/4	0 - 40 40 - 1272	16 ---	0 - 40 ---	Unknown	Open Hole	1878.23	1957
WS-SP	II	203	Unknown	0 - 203	6	0 - 203	Unknown	Unknown	1766.76	Unknown
HAR-01	I	110	15 8	0 - 30 30 - 110	10-1/8 ---	0 - 30 ---	0 - 30	Open Hole	1874.13 ^b	05/16/87
HAR-05	II	180	15 8	0 - 30 30 - 180	10-1/8 ---	0 - 30 ---	0 - 30	Open Hole	1812.72 ^a	05/16/87
HAR-06	II	160	15 8	0 - 30 30 - 160	10-1/8 ---	0 - 30 ---	0 - 30	Open Hole	1815.03	05/16/87
HAR-07	II	100	15 8	0 - 30 30 - 100	10-1/8 ---	0 - 30 ---	0 - 30	Open Hole	1728.61 ^a	05/20/87
HAR-08	II	130	15 8	0 - 30 30 - 130	10-1/8 ---	0 - 30 ---	0 - 30	Open Hole	1730.73 ^a	05/20/87
HAR-16	I	120	15 8	0 - 30 30 - 120	10-1/8 ---	0 - 30 ---	0 - 30	Open Hole	1872.61 ^a	05/20/87
HAR-17	II	100	15 8	0 - 30 30 - 100	10-1/8 ---	0 - 30 ---	0 - 30	Open Hole	1711.59	05/20/87
HAR-18	III	80	15 8	0 - 30 30 - 80	10-1/8 ---	0 - 30 ---	0 - 30	Open Hole	1749.41	05/20/87
HAR-19	II	220	15 8	0 - 30 30 - 220	10-1/8 ---	0 - 30 ---	0 - 30	Open Hole	1833.75 ^a	06/17/87
HAR-20	II	230	15 8	0 - 30 30 - 230	10-1/8 ---	0 - 30 ---	0 - 30	Open Hole	1830.65 ^a	06/16/87
HAR-21	II	130	15 8	0 - 30 30 - 130	10-1/8 ---	0 - 30 ---	0 - 30	Open Hole	1821.42 ^a	06/18/87
HAR-22	II	90	15 8	0 - 30 30 - 90	10-1/8 ---	0 - 30 ---	0 - 30	Open Hole	1816.41	06/18/87
HAR-23	III	90	15 8	0 - 30 30 - 90	10-1/8 ---	0 - 30 ---	0 - 30	Open Hole	1806.13 ^a	06/18/87

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VENTURA COUNTY, CALIFORNIA**

Well Identifier	Area No.	Effective Borehole Depth (feet)	Borehole		Casing		Sealed Interval (feet)	Perforated Interval (feet)	Measuring Point Elevation (ft MSL)	Date Drilling Completed
			Diameter (inches)	Interval (feet)	Inside Diameter (inches)	Interval (feet)				
HAR-24	I	110	15 8	0 - 30 30 - 110	10-1/8 ---	0 - 30 ---	0 - 30	Open Hole	1906.89	06/18/87
HAR-25	I	90	15 8	0 - 30 30 - 90	10-1/8 ---	0 - 30 ---	0 - 30	Open Hole	1890.00 ^a	06/18/87
HAR-26	III	90	15 8	0 - 30 30 - 90	10-1/8 ---	0 - 30 ---	0 - 30	Open Hole	1763.46 ^a	06/18/87
PRIVATE OFF-SITE WELLS AND SPRINGS										
OS-01 (Converted to RD-68B in 1997)	OS	288	Unknown	Unknown	10 ---	0 - 52 ---	Unknown	Open Hole	1310.34	Unknown
OS-02	OS	700	Unknown	Unknown	10 ---	0 - 17 ---	0 - 17	Open Hole	1237.01	03/18/59
OS-03	OS	100	Drilled with cable tools		8-1/4 ---	0 - 59 ---	0 - 30	30 - 60 Open Hole	1298.15	06/12/50
OS-04	OS	Well Construction Data Unresolved or Not Available							1334.00	
OS-05	OS	Well Construction Data Unresolved or Not Available								
OS-08(S)	OS									
OS-09	OS	Well Construction Data Unresolved or Not Available								
OS-10	OS	600	18 12	0 - 10 10 - 600	12-1/8 ---	0 - 10 ---	0 - 10	Open Hole	1016.97	12/54
OS-12(S)	OS									
OS-13(S)	OS									
OS-15	OS	218	Drilled with cable tools		8-1/4 ---	0 - 40 ---	0 - 40	Open Hole	1404.86	08/27/60
OS-16	OS	Well Construction Data Unresolved or Not Available							1785.05	
OS-17	OS	475	Drilled with cable tools		---	0 - 25 ---		Open Hole	1564.07	04/64
OS-21	OS	Well Construction Data Unresolved or Not Available							1900.39	
OS-24	OS	515	10 6	0 - 40 40 - 515	6-1/4 ---	0 - 40 ---	0 - 40	Open Hole	1947.30	12/02/87
OS-25	OS	515	10 6	0 - 36 36 - 515	6-1/4 ---	0 - 36 ---	0 - 36	Open Hole	2043.58	12/10/87
OS-26	OS	515	10 6	0 - 40 40 - 515	6-1/4 ---	0 - 40 ---	0 - 40	Open Hole	2080.58	11/16/87
OS-27	OS	477	10-1/4 6-1/8	0 - 30 30 - 477	10 6	0 - 5.5 0 - 30	0 - 30	Open Hole	2043.90	05/16/95

TABLE A-1
WELL CONSTRUCTION DATA
BOEING SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identifier	Area No.	Effective Borehole Depth (feet)	Borehole		Casing		Sealed Interval (feet)	Perforated Interval (feet)	Measuring Point Elevation (ft MSL)	Date Drilling Completed
			Diameter (inches)	Interval (feet)	Inside Diameter (inches)	Interval (feet)				
OS-28	OS	245	10	0 - 245	6	0 - 242	0 - 182	182 - 242		04/25/95

es and Abbreviations:

1. easured in feet below land surface.
 3. (---) = No casing installed over the borehole interval specified; open hole.
 4. (v) = Top of well below land surface, installed inside zero-grade vault.
 5. S = Seep; construction data not applicable.
 6. UL-N = Undeveloped land in northern part of Facility.
 7. UL-S = Undeveloped land in southern part of Facility.
 8. OS = Off-site.
- ^a Well retrofitted in 2010, new measuring point elevation is not surveyed.
- ^b Well retrofitted in 2010, new measuring point elevation is not available.

TABLE A-2a
CONSTRUCTION DETAILS OF PIEZOMETER MONITORING SYSTEMS
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

PIEZOMETER ID	LOCATION					PIEZOMETER DESIGN DETAILS						
	Area	SWMU	Northing	Easting	MP Elevation	Date Drilled	Total Depth	Screened Interval	Sand Interval	Bentonite Interval	Grout Interval	Concrete Interval
			[feet]	[feet]	[feet]	[m/d/y]	[feet bgs]	[feet bgs]	[feet bgs]	[feet bgs]	[feet bgs]	[feet bgs]
PZ-001A	II	RD-9 Area	268546.6	1789711.3	1768.50	10/31/2000	N/A	5.75-6.25	5-7	2-5	N/A	0-2
PZ-001B	II	RD-9 Area	268546.6	1789711.3	1768.50	10/31/2000	N/A	17.75-18.25	17-19	7-17	N/A	N/A
PZ-001C	II	RD-9 Area	268546.6	1789711.3	1768.50	10/31/2000	N/A	29.75-30.25	29-31	19-29	N/A	N/A
PZ-001D	II	RD-9 Area	268546.6	1789711.3	1768.50	10/31/2000	N/A	38.25-38.75	37.5-39.2	31-37.5	N/A	N/A
PZ-001E	II	RD-9 Area	268546.6	1789711.3	1768.50	10/31/2000	N/A	51.75-52.25	51-53	39.2-51	N/A	N/A
PZ-001F	II	RD-9 Area	268546.6	1789711.3	1768.50	10/31/2000	58.0	57.75-58.25	56.8-60	53-56.8	N/A	N/A
PZ-002A	I	CTL-III N	265543.1	1792828.1	1780.25	11/1/2000	N/A	5.75-6.25	5-7	2-5	N/A	0-2
PZ-002B	I	CTL-III N	265543.1	1792828.1	1780.25	11/1/2000	N/A	14.75-15.25	14-16	7-14	N/A	N/A
PZ-002C	I	CTL-III N	265543.1	1792828.1	1780.25	11/1/2000	N/A	26.75-27.25	26-28	16-26	N/A	N/A
PZ-002D	I	CTL-III N	265543.1	1792828.1	1780.25	11/1/2000	N/A	36.75-37.25	36-38	28-36	N/A	N/A
PZ-002E	I	CTL-III N	265543.1	1792828.1	1780.25	11/1/2000	N/A	51.75-52.25	51-53	38-51	N/A	N/A
PZ-002F	I	CTL-III N	265543.1	1792828.1	1780.25	11/1/2000	N/A	64.75-65.25	64-66	53-64	N/A	N/A
PZ-002G	I	CTL-III N	265543.1	1792828.1	1780.25	11/1/2000	82.0	79 ^a	78-81	66-78	N/A	N/A
PZ-003	I	APTF	Destroyed 6/18/2010									
PZ-004A	II	Delta / PLF	264973.5	1787246.6	1716.00	12/13/2000	16.0	5-15	4-16	2-4	N/A	0-2
PZ-004B	II	Delta / PLF	264969.6	1787241.5	1715.89	12/13/2000	36.0	20-30	18-31.5	15-18	2-15	0-2
PZ-005	IV	Central Area IV	266634.9	1784877.3	1800.97	11/7/2000	45.0	15-25	11.5-26.5	8.5-11.5	2-8.5	0-2
PZ-006A	III	ECL	266669.3	1786868.4	1765.82	11/7/2000	N/A	5.75-6.25	5-7	2-5	N/A	0-2
PZ-006B	III	ECL	266669.3	1786868.4	1765.82	11/7/2000	N/A	13.75-14.25	13-15	7-13	N/A	N/A
PZ-006C	III	ECL	266669.3	1786868.4	1765.82	11/7/2000	N/A	17.75-18.25	17-19	15-17	N/A	N/A
PZ-006D	III	ECL	266669.3	1786868.4	1765.82	11/7/2000	N/A	23.75-24.25	23-25	19-23	N/A	N/A
PZ-006E	III	ECL	266669.3	1786868.4	1765.82	11/7/2000	36.5	34.75-35.25	34-36.5	25-34	N/A	N/A
PZ-007A	II	RD-9 Area	268474.7	1789593.8	1771.84	11/7/2000	N/A	5.75-6.25	5-7	2-5	N/A	0-2
PZ-007B	II	RD-9 Area	268474.7	1789593.8	1771.84	11/7/2000	N/A	10.75-11.25	10-12	7-10	N/A	N/A
PZ-007C	II	RD-9 Area	268474.7	1789593.8	1771.84	11/7/2000	N/A	15.75-16.25	15-17	12-15	N/A	N/A
PZ-007D	II	RD-9 Area	268474.7	1789593.8	1771.84	11/7/2000	N/A	24.75-25.25	24-26	17-24	N/A	N/A
PZ-007E	II	RD-9 Area	268474.7	1789593.8	1771.84	11/7/2000	N/A	30.75-31.25	30-32	26-30	N/A	N/A
PZ-007F	II	RD-9 Area	268474.7	1789593.8	1771.84	11/7/2000	N/A	35.75-36.25	35-37	32-35	N/A	N/A
PZ-007G	II	RD-9 Area	268474.7	1789593.8	1771.84	11/7/2000	46.0	45 ^a	42.6-46	37-42.6	N/A	N/A
PZ-008A	I	LETf / CTL-I	267305.5	1794332.0	1836.12	11/8/2000	N/A	8.75-9.25	8-10	5-8	2-5	0-2
PZ-008B	I	LETf / CTL-I	267305.5	1794332.0	1836.12	11/8/2000	N/A	19.75-20.25	19-21	10-19	N/A	N/A
PZ-008C	I	LETf / CTL-I	267305.5	1794332.0	1836.12	11/8/2000	N/A	31.75-32.25	31-33	21-31	N/A	N/A

TABLE A-2a
CONSTRUCTION DETAILS OF PIEZOMETER MONITORING SYSTEMS
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

PIEZOMETER ID	LOCATION					PIEZOMETER DESIGN DETAILS						
	Area	SWMU	Northing	Easting	MP Elevation	Date Drilled	Total Depth	Screened Interval	Sand Interval	Bentonite Interval	Grout Interval	Concrete Interval
			[feet]	[feet]	[feet]	[m/d/y]	[feet bgs]	[feet bgs]	[feet bgs]	[feet bgs]	[feet bgs]	[feet bgs]
PZ-008D	I	LETF / CTL-I	267305.5	1794332.0	1836.12	11/8/2000	N/A	39.75-40.25	39-41	33-39	N/A	N/A
PZ-008E	I	LETF / CTL-I	267305.5	1794332.0	1836.12	11/8/2000	N/A	46.75-47.25	46-48	41-46	N/A	N/A
PZ-008F	I	LETF / CTL-I	267305.5	1794332.0	1836.12	11/8/2000	N/A	62.75-63.25	61-64	48-61	N/A	N/A
PZ-008G	I	LETF / CTL-I	267305.5	1794332.0	1836.12	11/8/2000	72.0	70 ^a	69-71	64-69	N/A	N/A
PZ-009A	II	RD-9 Area	268649.2	1789768.5	1761.44	11/14/2000	N/A	5.75-6.25	5-7	2-5	N/A	0-2
PZ-009B	II	RD-9 Area	268649.2	1789768.5	1761.44	11/14/2000	N/A	10.75-11.25	10-12	7-10	N/A	N/A
PZ-009C	II	RD-9 Area	268649.2	1789768.5	1761.44	11/14/2000	N/A	18.25-18.75	17.5-19.5	12-17.5	N/A	N/A
PZ-009D	II	RD-9 Area	268649.2	1789768.5	1761.44	11/14/2000	N/A	22.75-23.25	22-24	19.5-22	N/A	N/A
PZ-009E	II	RD-9 Area	268649.2	1789768.5	1761.44	11/14/2000	N/A	30.25-30.75	29.5-31.5	24-29.5	N/A	N/A
PZ-009F	II	RD-9 Area	268649.2	1789768.5	1761.44	11/14/2000	36.0	34.75-35.25	34-36	31.5-34	N/A	N/A
PZ-010A	II	RD-9 Area	268595.8	1789646.3	1767.80	11/14/2000	N/A	7.75-8.25	7-9	5-7	2-5	0-2
PZ-010B	II	RD-9 Area	268595.8	1789646.3	1767.80	11/14/2000	N/A	13.75-14.25	13-15	9-13	N/A	N/A
PZ-010C	II	RD-9 Area	268595.8	1789646.3	1767.80	11/14/2000	N/A	19.75-20.25	19-21	15-19	N/A	N/A
PZ-010D	II	RD-9 Area	268595.8	1789646.3	1767.80	11/14/2000	N/A	25.75-26.25	22-27	21-25	N/A	N/A
PZ-010E	II	RD-9 Area	268595.8	1789646.3	1767.80	11/14/2000	N/A	29.75-30.25	29-31	27-29	N/A	N/A
PZ-010F	II	RD-9 Area	268595.8	1789646.3	1767.80	11/14/2000	N/A	38.25-38.75	36.5-39.5	31-36.5	N/A	N/A
PZ-010G	II	RD-9 Area	268595.8	1789646.3	1767.80	11/14/2000	45.0	43 ^a	42-44.5	39.5-42	N/A	N/A
PZ-011A	I	IEL	268086.1	1796133.0	1914.48	11/14/2000	N/A	15.75-16.25	15-17	12-15	2-12	0-2
PZ-011B	I	IEL	268086.1	1796133.0	1914.48	11/14/2000	N/A	24.75-25.25	24-26	17-24	N/A	N/A
PZ-011C	I	IEL	268086.1	1796133.0	1914.48	11/14/2000	N/A	30.75-31.25	30-32	26-30	N/A	N/A
PZ-011D	I	IEL	268086.1	1796133.0	1914.48	11/14/2000	N/A	40.75-41.25	39-42	32-39	N/A	N/A
PZ-011E	I	IEL	268086.1	1796133.0	1914.48	11/14/2000	N/A	46.25-46.75	44.5-47.5	42-44.5	N/A	N/A
PZ-011F	I	IEL	268086.1	1796133.0	1914.48	11/14/2000	N/A	51.25-51.75	50.5-52.5	47.5-50.5	N/A	N/A
PZ-011G	I	IEL	268086.1	1796133.0	1914.48	11/14/2000	58.0	56 ^a	55-58	52.5-55	N/A	N/A
PZ-012A	I	LETF S	266871.1	1794033.3	1827.69	11/16/2000	N/A	4.75-5.25	4-6	2-4	N/A	0-2
PZ-012B	I	LETF S	266871.1	1794033.3	1827.69	11/16/2000	N/A	10.75-11.25	10-12	6-10	N/A	N/A
PZ-012C	I	LETF S	266871.1	1794033.3	1827.69	11/16/2000	N/A	16.75-17.25	16-18	12-16	N/A	N/A
PZ-012D	I	LETF S	266871.1	1794033.3	1827.69	11/16/2000	N/A	21.25-21.75	20.5-22.5	18-20.5	N/A	N/A
PZ-012E	I	LETF S	266871.1	1794033.3	1827.69	11/16/2000	N/A	26.75-27.25	25-28	22.5-25	N/A	N/A
PZ-012F	I	LETF S	266871.1	1794033.3	1827.69	11/16/2000	37.0	34.75-35.25	34-37	28-34	N/A	N/A
PZ-013A	III	Comp A	266008.7	1786153.4	1739.89	11/17/2000	N/A	5.75-6.25	5-7	2-5	N/A	0-2
PZ-013B	III	Comp A	266008.7	1786153.4	1739.89	11/17/2000	N/A	14.75-15.25	13-16	7-13	N/A	N/A

TABLE A-2a
CONSTRUCTION DETAILS OF PIEZOMETER MONITORING SYSTEMS
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

PIEZOMETER ID	LOCATION					PIEZOMETER DESIGN DETAILS						
	Area	SWMU	Northing	Easting	MP Elevation	Date Drilled	Total Depth	Screened Interval	Sand Interval	Bentonite Interval	Grout Interval	Concrete Interval
			[feet]	[feet]	[feet]	[m/d/y]	[feet bgs]	[feet bgs]	[feet bgs]	[feet bgs]	[feet bgs]	[feet bgs]
PZ-013C	III	Comp A	266008.7	1786153.4	1739.89	11/17/2000	N/A	20.75-21.25	20-22	16-20	N/A	N/A
PZ-013D	III	Comp A	266008.7	1786153.4	1739.89	11/17/2000	N/A	28.75-29.25	27-30	22-27	N/A	N/A
PZ-013E	III	Comp A	266008.7	1786153.4	1739.89	11/17/2000	N/A	39.75-40.25	39-41	30-39	N/A	N/A
PZ-013F	III	Comp A	266008.7	1786153.4	1739.89	11/17/2000	56.4	53.75-54.25	53-56.4	41-53	N/A	N/A
PZ-014A	III	Comp A	265865.4	1786275.4	1728.12	11/18/2000	N/A	5.75-6.25	5-7	2-5	N/A	0-2
PZ-014B	III	Comp A	265865.4	1786275.4	1728.12	11/18/2000	N/A	13.25-14.75	13.5-15.5	7-13.5	N/A	N/A
PZ-014C	III	Comp A	265865.4	1786275.4	1728.12	11/18/2000	N/A	19.75-20.25	19-21	15.5-19	N/A	N/A
PZ-014D	III	Comp A	265865.4	1786275.4	1728.12	11/18/2000	N/A	29.25-29.75	28.5-30.5	21-28.5	N/A	N/A
PZ-014E	III	Comp A	265865.4	1786275.4	1728.12	11/18/2000	42.0	38.75-39.25	37.8-41	30.5-37.8	N/A	N/A
PZ-015A	III	STL-IV	265687.4	1785844.7	1740.56	11/19/2000	N/A	5.75-6.25	5-7	2-5	N/A	0-2
PZ-015B	III	STL-IV	265687.4	1785844.7	1740.56	11/19/2000	N/A	13.75-14.25	13-15	7-13	N/A	N/A
PZ-015C	III	STL-IV	265687.4	1785844.7	1740.56	11/19/2000	N/A	24.25-24.75	23.5-25.5	15-23.5	N/A	N/A
PZ-015D	III	STL-IV	265687.4	1785844.7	1740.56	11/19/2000	N/A	32.75-33.25	31-34	25.5-31	N/A	N/A
PZ-015E	III	STL-IV	265687.4	1785844.7	1740.56	11/19/2000	N/A	37.75-38.25	37-39	34-37	N/A	N/A
PZ-015F	III	STL-IV	265687.4	1785844.7	1740.56	11/19/2000	N/A	43.25-43.75	42.5-44.5	39-42.5	N/A	N/A
PZ-015G	III	STL-IV	265687.4	1785844.7	1740.56	11/19/2000	49.5	48 ^a	47-49.5	44.5-47	N/A	N/A
PZ-016A	I	Canyon	266960.8	1794388.2	1854.34	11/20/2000	N/A	8.75-9.25	8-10	5-8	2-5	0-2
PZ-016B	I	Canyon	266960.8	1794388.2	1854.34	11/20/2000	N/A	18.25-18.75	17.5-19.5	10-17.5	N/A	N/A
PZ-016C	I	Canyon	266960.8	1794388.2	1854.34	11/20/2000	N/A	25.75-26.25	24-27	19.5-24	N/A	N/A
PZ-016D	I	Canyon	266960.8	1794388.2	1854.34	11/20/2000	N/A	33.75-34.25	33-35	27-33	N/A	N/A
PZ-016E	I	Canyon	266960.8	1794388.2	1854.34	11/20/2000	N/A	44.25-44.75	42.5-45.5	35-42.5	N/A	N/A
PZ-016F	I	Canyon	266960.8	1794388.2	1854.34	11/20/2000	N/A	56.75-57.25	56-58	45.5-56	N/A	N/A
PZ-016G	I	Canyon	266960.8	1794388.2	1854.34	11/20/2000	68.0	64.5 ^a	63.5-68	58-63.5	N/A	N/A
PZ-017A	II	Coca	265169.9	1788794.1	1837.83	11/21/2000	18.0	7-17	6-18	4-6	2-4	0-2
PZ-017B	II	Coca	265168.4	1788789.1	1837.20	11/21/2000	31.0	20-30	18-31	15-18	2-15	0-2
PZ-018A	III	EEL	266278.3	1785963.5	1760.71	11/21/2000	N/A	5.75-6.25	5-7	2-5	N/A	0-2
PZ-018B	III	EEL	266278.3	1785963.5	1760.71	11/21/2000	N/A	11.25-11.75	10.5-12.5	7-10.5	N/A	N/A
PZ-018C	III	EEL	266278.3	1785963.5	1760.71	11/21/2000	N/A	15.75-16.25	15-17	12.5-15	N/A	N/A
PZ-018D	III	EEL	266278.3	1785963.5	1760.71	11/21/2000	N/A	19.75-20.25	19-20.8	17-19	N/A	N/A
PZ-018E	III	EEL	266278.3	1785963.5	1760.71	11/21/2000	26.0	24.75-25.25	22.5-25.5	20.8-22.5	N/A	N/A
PZ-019	II	RD-9 Area	268481.9	1789765.7	1776.77	11/29/2000	31.5	19-29	17-29.3	14-17	2-14	0-2
PZ-020	II	RD-9 Area	268428.3	1789492.8	1776.44	11/27/2000	31.5	19-29	17-29.5	14-17	2-14	0-2

TABLE A-2a
CONSTRUCTION DETAILS OF PIEZOMETER MONITORING SYSTEMS
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

PIEZOMETER ID	LOCATION					PIEZOMETER DESIGN DETAILS						
	Area	SWMU	Northing	Easting	MP Elevation	Date Drilled	Total Depth	Screened Interval	Sand Interval	Bentonite Interval	Grout Interval	Concrete Interval
			[feet]	[feet]	[feet]	[m/d/y]	[feet bgs]	[feet bgs]	[feet bgs]	[feet bgs]	[feet bgs]	[feet bgs]
PZ-021	II	RD-9 Area	268740.7	1789818.0	1759.26	11/27/2000	29.5	18-28	16-29.5	13-16	2-13	0-2
PZ-022	II	RD-9 Area	268636.1	1789594.0	1774.44	11/30/2000	29.5	19-29	17-29.5	14-17	2-14	0-2
PZ-023	III	ECL	266415.7	1786832.4	1758.96	11/30/2000	25.0	6-16	5-22	2-5	N/A	0-2
PZ-024	III	ECL	266485.1	1786749.6	1770.30	12/4/2000	25.0	14-24	12-24.5	9-12	2-9	0-2
PZ-025	III	ECL	266637.0	1786700.5	1780.27	12/4/2000	27.0	13-23	11-25.5	8-11	2-8	0-2
PZ-026	III	ECL	266453.2	1786996.3	1755.75	12/5/2000	24.2	14-24	12-24.2	9-12	2-9	0-2
PZ-027	III	ECL	266694.7	1786974.5	1773.06	12/5/2000	23.0	12-22	9.75-22.5	7-9.75	2-7	0-2
PZ-028	III	ECL	266445.3	1786539.9	1788.47	12/6/2000	44.0	25-35	20-35.5	17-20	2-17	0-2
PZ-029	III	EEL / Comp A	266350.5	1786105.8	1771.83	12/6/2000	31.0	19-29	17-31	14-17	2-14	0-2
PZ-030	III	EEL / Comp A	266264.1	1786177.7	1765.98	12/7/2000	32.5	17-27	12-32.5	9-12	2-9	0-2
PZ-031	III	EEL / Comp A	266198.9	1786234.0	1763.97	12/7/2000	30.0	13-23	9-24	6-9	2-6	0-2
PZ-032	III	Comp A	266044.9	1786345.0	1739.75	12/7/2000	22.0	10-20	5-22	2-5	N/A	0-2
PZ-033	III	Comp A	265757.3	1786439.6	1721.73	12/8/2000	29.0	11-21	9-22	6-9	2-6	0-2
PZ-034	III	Comp A	265907.5	1786529.6	1714.68	12/8/2000	12.0	5-12	4-12	2-4	N/A	0-2
PZ-035	III	Comp A	265633.6	1786446.9	1712.96	12/11/2000	24.0	10-20	7-22.3	5-7	2-5	0-2
PZ-036	III	STL-IV	265656.6	1785404.9	1759.07	12/11/2000	28.9	15-25	10-28.9	7-10	2-7	0-2
PZ-037	III	STL-IV	265410.3	1785632.1	1749.29	12/12/2000	28.5	18-28	15-28.5	12-15	2-12	0-2
PZ-038	III	Comp A	265905.6	1785847.4	1752.31	12/12/2000	32.0	17-27	14-31.5	11-14	2-11	0-2
PZ-039	III	STL-IV	265797.1	1785695.9	1753.97	12/13/2000	29.0	18-28	14-29	11-14	2-11	0-2
PZ-040	III	STL-IV	264963.2	1785695.2	1704.54	12/13/2000	31.5	16.5-26.5	11-27	8-11	2-8	0-2
PZ-041	IV	PDU	267315.8	1785662.0	1809.10	1/16/2001	29.6	19-29	17-29.6	14-17	2-14	0-2
PZ-042	II	Delta / PLF	265103.3	1787397.2	1729.25	12/13/2000	40.5	19.5-29.5	17-31	14-17	2-14	0-2
PZ-043	II	Coca Rd W	265377.0	1787987.3	1776.63	12/13/2000	45.0	30-40	25-41	22-25	2-22	0-2
PZ-044	II	Coca Rd W	Abandoned 4/10/01									
PZ-045	II	Coca	265228.7	1788459.0	1828.55	12/15/2000	45.0	30-40	28-43.5	25-28	2-25	0-2
PZ-046	II	Coca	265321.9	1788500.8	1826.87	12/18/2000	35.0	24-34	22-34.5	19-22	2-19	0-2
PZ-047	II	Coca	265152.5	1788645.8	1835.51	12/18/2000	40.4	26-36	23-40.4	20-23	2-20	0-2
PZ-048	II	Coca	265150.4	1788984.1	1847.11	12/19/2000	49.0	9-19	7-20	4-7	2-4	0-2
PZ-049	II	Alfa	267506.9	1790363.0	1884.75	12/19/2000	34.0	6-16	4-17	2-4	N/A	0-2
PZ-050	III	EEL	266207.4	1785733.7	1765.50	12/14/2000	24.0	6-16	4-17	2-4	N/A	0-2
PZ-051	IV	EEL	266485.8	1785857.0	1770.87	12/14/2000	27.0	5-15	3-16	2-3	N/A	0-2
PZ-052	IV	Eastern Area IV	266742.1	1786103.7	1790.72	12/15/2000	30.0	18.9-28.9	17-30	14-17	2-14	0-2

TABLE A-2a
CONSTRUCTION DETAILS OF PIEZOMETER MONITORING SYSTEMS
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

PIEZOMETER ID	LOCATION					PIEZOMETER DESIGN DETAILS						
	Area	SWMU	Northing	Easting	MP Elevation	Date Drilled	Total Depth	Screened Interval	Sand Interval	Bentonite Interval	Grout Interval	Concrete Interval
			[feet]	[feet]	[feet]	[m/d/y]	[feet bgs]	[feet bgs]	[feet bgs]	[feet bgs]	[feet bgs]	[feet bgs]
PZ-053	II	R-2 Pond	265235.0	1786682.0	1701.72	12/15/2000	29.0	16-26	11-29	8-11	2-8	0-2
PZ-054	II	R-2 Pond North	265476.9	1786676.9	1702.11	12/18/2000	28.0	5-15	3.8-16	2-4	N/A	0-2
PZ-055	IV	Eastern Area IV	267253.6	1787421.3	1818.40	1/2/2001	29.5	19-29	17-29.5	14-17	2-14	0-2
PZ-056	IV	OCY S	268068.7	1788028.0	1805.86	12/19/2000	28.0	17-27	13-28	10-13	2-10	0-2
PZ-057	III	SPA	267455.0	1788156.6	1812.19	12/19/2000	32.5	12-22	8-24	5-8	2-5	0-2
PZ-058	III	SPA	267430.1	1787892.5	1784.63	12/20/2000	16.0	5-15	4-15.5	2-4	N/A	0-2
PZ-059	II	Bravo	266997.0	1789649.2	1836.67	12/20/2000	24.0	12-22	8-24	5-8	2-5	0-2
PZ-060	II	Alfa	267465.3	1790039.2	1868.90	12/20/2000	49.0	38-48	36-49	33-36	2-33	0-2
PZ-061	II	Alfa	267329.7	1789461.4	1832.05	1/16/2001	25.0	5-15	4-17	2-4	N/A	0-2
PZ-062	I	LOX	268955.3	1792144.7	1716.57	1/3/2001	27.3	14-24	12-27.3	9-12	2-9	0-2
PZ-063	I	IEL	268679.9	1796093.9	1882.86	1/3/2001	50.0	36-46	34-50	31-34	2-31	0-2
PZ-064	I	IEL	268571.9	1796392.5	1912.20	1/8/2001	60.0	46-56	44-60	41-44	2-41	0-2
PZ-065	I	IEL	268197.0	1795785.4	1904.93	1/9/2001	45.0	29-39	27-40	24-27	2-24	0-2
PZ-066	I	IEL	268141.4	1795531.1	1897.19	1/9/2001	55.0	44-54	42-55	39-42	2-39	0-2
PZ-067A	I	B359	267889.7	1795614.1	1909.66	1/12/2001	40.0	28-38	26-40	23-26	2-23	0-2
PZ-067B	I	B359	267892.5	1795607.5	1909.06	1/15/2001	65.0	48-58	46-59	43-46	2-43	0-2
PZ-068	I	Area I Landfill Upper	267959.1	1795304.9	1894.02	1/17/2001	55.0	44-54	42-54.8	39-42	2-39	0-2
PZ-069	I	APTF	267826.0	1795001.2	1885.33	1/18/2001	49.8	39-49	37-49.8	34-37	2-34	0-2
PZ-070	II	Bravo	267188.8	1789392.0	1834.61	12/20/2001	43.0	13-23	11-24	8-11	2-8	0-2
PZ-071	II	SPA	267577.3	1788785.5	1817.94	12/21/2000	31.5	18-28	15-31	11.9-15	2-11.9	0-2
PZ-072	III	Silvernale	266807.7	1787590.8	1768.19	1/2/2001	20.0	8.5-18.5	6.5-19	2-6.5	N/A	0-2
PZ-073	UDL	ELV Drainage	269435.8	1788107.5	1760.54	1/3/2001	55.0	41-51	35-55	30.5-35	2-30.5	0-2
PZ-074	I	Happy Valley	266110.3	1796300.5	1772.73	1/8/2001	25.0	10-20	8.5-24	5-8.5	2-5	0-2
PZ-075	I	IEL	268540.9	1795877.3	1893.10	1/8/2001	45.0	33-43	27-45	24.5-27	2-24.5	0-2
PZ-076	I	CTL-III	264309.1	1792921.1	1767.09	1/9/2001	60.0	36-46	32-47	28-32	2-28	0-2
PZ-077	I	Perimeter Pond	264396.8	1792351.4	1753.42	1/10/2001	37.0	15-25	12-26	9-12	2-9	0-2
PZ-078	I	Perimeter Pond / CTL-III	264578.0	1792341.9	1755.77	1/11/2001	48.0	15-25	12-26	9.5-12	2-9.5	0-2
PZ-079	I	CTL-III	265305.8	1792641.4	1776.66	1/11/2001	35.0	15-25	12-26	9.4-12	2-9.4	0-2
PZ-080	I	R-1 Pond	266375.7	1793364.4	1813.15	1/16/2001	50.0	19-29	5-31	2-5	N/A	0-2
PZ-081	I	LETF / CTL-I	267450.6	1794405.9	1841.67	1/19/2001	49.0	38.5-48.5	36.5-49	33.5-36.5	2-33.5	0-2
PZ-082	I	R-1 Pond	265999.5	1793220.6	1798.08	1/17/2001	45.0	10-20	8-21	5-8	2-5	0-2
PZ-083	I	LETF / CTL-I	267256.1	1794099.0	1833.45	1/22/2001	50.0	20-30	18-31	15-18	2-15	0-2

TABLE A-2a
CONSTRUCTION DETAILS OF PIEZOMETER MONITORING SYSTEMS
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

PIEZOMETER ID	LOCATION					PIEZOMETER DESIGN DETAILS						
	Area	SWMU	Northing	Easting	MP Elevation	Date Drilled	Total Depth	Screened Interval	Sand Interval	Bentonite Interval	Grout Interval	Concrete Interval
			[feet]	[feet]	[feet]	[m/d/y]	[feet bgs]	[feet bgs]	[feet bgs]	[feet bgs]	[feet bgs]	[feet bgs]
PZ-084	I	Bowl	265902.5	1793977.1	1836.00	1/18/2001	33.0	21-31	17-33	13.5-17	2-13.5	0-2
PZ-085A	I	Bowl	265753.4	1793796.9	1816.79	1/23/2001	31.0	20-30	17-31	14-17	2-14	0-2
PZ-085B	I	Bowl	265754.9	1793803.5	1816.81	1/22/2001	60.0	37-47	34-48	31-34	2-31	0-2
PZ-086	I	LETF / CTL-I	267235.1	1794239.4	1833.44	1/18/2001	35.0	16-26	14-27	11-14	2-11	0-2
PZ-087A	I	Bowl	265919.9	1793555.7	1817.15	1/24/2001	22.5	11-21	7-22.5	4.5-7	2-4.5	0-2
PZ-087B	I	Bowl	265915.2	1793549.9	1816.23	1/23/2001	55.0	41.5-51.5	36-55	34-36	2-34	0-2
PZ-088	I	LETF / CTL-I	267598.6	1794688.4	1859.54	1/19/2001	45.0	32-42	27-43	24-27	2-24	0-2
PZ-089	I	APTF	267716.1	1794950.5	1876.64	1/22/2001	20.0	6-16	4.5-18	2-4.5	N/A	0-2
PZ-090	I	CTL-III N	265525.4	1792702.2	1780.01	1/12/2001	45.0	16-26	13-28	10-13	2-10	0-2
PZ-091	I	CTL-III N	265700.0	1792877.1	1788.84	1/15/2001	55.0	26-36	23.5-40	20-23.5	2-20	0-2
PZ-092	I	B359	267813.6	1795369.1	1897.59	1/22/2001	34.5	19-29	17-31	14-17	2-14	0-2
PZ-093	I	LETF S	266764.7	1793696.6	1821.79	1/23/2001	40.0	24.5-34.5	22-35	19-22	2-19	0-2
PZ-094	Offsite	Sage Ranch	269025.4	1795857.2	1857.76	1/25/2001	34.0	13-23	10-24	8-10	2-8	0-2
PZ-095	I	LOX	269117.2	1792686.5	1760.02	2/14/2001	37.5	14-24	11-26	8-11	2-8	0-2
PZ-096	II	Coca Rd W	265475.3	1787620.7	1766.30	4/21/2001	45.0	33.5-43.5	31-45	28-31	2-28	0-2
PZ-097	UDL	FSDf	267048.9	1783400.3	1761.87	10/15/2001	44.5	33-43	31-44.5	11.5-28	2-11.5	0-2
PZ-098	IV	FSDf	266788.9	1783488.8	1797.78	10/16/2001	37.5	24-34	21.5-37.5	19-21.5	2-19	0-2
PZ-099	IV	FSDf	Abandoned in place in 2006									
PZ-100	IV	FSDf	266078.3	1782962.2	1870.11	10/17/2001	16.5	5.67-15.67	4.67-16.5	2-4.67	N/A	0-2
PZ-101	IV	FSDf	266057.5	1783090.6	1869.71	10/17/2001	27	10-20	7-27	5-7	1.75-5	0-1.75
PZ-102	IV	Central Area IV	267080.8	1784684.4	1827.78	10/18/2001	59.2	48.5-59.2	45-59.2	43-45	2-43	0-2
PZ-103	IV	Central Area IV	266281.2	1784400.9	1815.93	10/22/2001	39	28.5-38.5	26-39	23.5-26	2-23.5	0-2
PZ-104	IV	Central Area IV	266270.2	1784924.2	1797.47	10/22/2001	38.5	18-28	16-30	13-16	2-13	0-2
PZ-105	IV	Central Area IV	265935.5	1784787.9	1803.87	10/23/2001	28	17-27	15-28	12-15	2-12	0-2
PZ-106	IV	EEL	266411.9	1785469.6	1784.17	10/23/2001	35	18-28	16-30.5	12.75-16	2-12.75	0-2
PZ-107	IV	Eastern Area IV	266876.4	1785822.0	1793.62	10/24/2001	11	5-10	4-11	2-4	N/A	0-2
PZ-108	IV	HMSA	268032.6	1785076.3	1763.01	10/24/2001	30	16-26	13-28.5	10-13	2-10	0-2
PZ-109	IV	Central Area IV	267332.4	1785248.2	1809.36	10/25/2001	36.5	25-35	22-36.5	19-22	2-19	0-2
PZ-110	IV	Eastern Area IV	267204.0	1786209.6	1818.90	10/25/2001	17.5	7-17	5-17.5	2-5	N/A	0-2
PZ-111	IV	Eastern Area IV	266948.4	1786433.9	1794.90	10/26/2001	20.0	7.5-17.5	5-20	N/A	N/A	N/A
PZ-112	IV	Eastern Area IV	267435.9	1786720.8	1829.14	10/26/2001	35.0	24-34	22-35	19-22	2-19	0-2
PZ-113	IV	Eastern Area IV	267682.9	1787367.8	1823.68	10/29/2001	15.0	7-15	5-15	2-5	N/A	0-2

TABLE A-2a
CONSTRUCTION DETAILS OF PIEZOMETER MONITORING SYSTEMS
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

PIEZOMETER ID	LOCATION					PIEZOMETER DESIGN DETAILS						
	Area	SWMU	Northing	Easting	MP Elevation	Date Drilled	Total Depth	Screened Interval	Sand Interval	Bentonite Interval	Grout Interval	Concrete Interval
			[feet]	[feet]	[feet]	[m/d/y]	[feet bgs]	[feet bgs]	[feet bgs]	[feet bgs]	[feet bgs]	[feet bgs]
PZ-114	IV	Old Con Yard S	268304.0	1787913.1	1818.19	10/30/2001	48.2	37-47	35-48.2	32-35	2-32	0-2
PZ-115	IV	Eastern Area IV	268006.8	1787536.5	1817.81	10/30/2001	40	25.5-37.5	25-40	22-25	2-22	0-2
PZ-116	UDL	RMHF	266501.1	1783693.0	1827.78	10/31/2001	34	22-32	20-34	17-20	2-17	0-2
PZ-117	I	Happy Valley	266712.9	1796184.6	1763.01	11/1/2001	25.5	14.5-24.5	12.5-25.5	9.5-12.5	2-9.5	0-2
PZ-118	I	B-1 Area	269389.4	1796988.7	1907.84	11/2/2001	30.0	19.5-29.5	16.5-30	13.5-16.5	2-13.5	0-2
PZ-119	Offsite	Sage Ranch	269025.4	1795863.3	1857.64	11/2/2001	44	33-43	30-44	27-30	2-27	0-2
PZ-120	IV	HMSA / SCTI	267230.1	1785009.7	1810.96	3/18/2003	26	15-25	12-26	9-12	2-9	0-2
PZ-121	IV	HMSA / SCTI	267491.6	1785120.7	1808.98	3/19/2003	33	15-25	12-28	8.4-12; 28-33	1.5-8.4	0-1.5
PZ-122	IV	HMSA / SCTI	267091.9	1785176.5	1810.80	3/19/2003	27.5	15.5-25.5	12-27.5	9-12	2-9	0-2
PZ-123	UDL	Happy Valley	264643.9	1797304.3	1610.81	3/20/2003	23.5	11.5-21.5	8.7-23.5	5.7-8.7	1-5.7	0-1
PZ-124	IV	B056 Landfill	267166.7	1784015.9	1764.11	3/21/2003	31	14.7-24.7	11.3-31	8.3-11.3	1-8.3	0-1
PZ-125	II	RD-9 Area	268357.1	1789379.4	1783.91	3/24/2003	41	23.5-33.5	20-34	16.5-20; 34-38	1.5-16.5	0-1
PZ-126	II	Coca	265095.8	1789222.8	1853.62	4/30/2003	21	10.5-21	7-20.5	1.5-7; 21-50	N/A	1-1.5
PZ-127	I	Canyon	266957.1	1794827.5	1877.19	4/24/2003	66	55.25-62.25	49-65.5	43-49	1-43	0-1

Notes:

The difference between the total depth and the bottom of the sand interval was filled with sloughed native material and/or bentonite.

^a The screen for this port is perpendicular to the well casing and covers the open bottom end; therefore, the screened section is a discrete depth.

bgs - Below ground surface

MP - Measuring point

UDL - undeveloped land

**TABLE A-2b
CONSTRUCTION DETAILS OF PIEZOMETER MONITORING SYSTEMS
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA**

Well ID	Northing (feet)	Easting (feet)	Surface Elevation (feet amsl)	TOC Elevation (feet amsl)	Depth to Screen Top (feet bgs)	Depth to Screen Bottom (feet bgs)	Total Depth (feet bgs)	Total Depth Drilled (feet bgs)	Borehole Diameter (inches)	Casing Diameter (inches)	Screen Material	Screen Slot Size (inches)	Casing Material	Filter Pack Grade	Filter Pack Top (feet bgs)	Filter Pack Bottom (feet bgs)	Drilling Method	Drill Company	Annular Seal Material	Annular Seal Top (feet bgs)	Annular Seal Bottom (feet bgs)	Wellhead Completion
PZ-128 (AKA CB-1)	269120.834	1792525.660	1754.77	1757.26	23.5	33.5	35	48	6	2	SCH40 PVC	0.02	SCH40 PVC	3	21	35	Mud Rotary with HQ Diamond Core Bit	Layne Drilling	95/5 Slurry Bentonite chips Bentonite chips	0 14 35	14 21 48	Monument
CB-02	269100.7558	1793006.813	1763.45	NA	No well constructed	NA	45	45	4	NA	NA	NA	NA	NA	NA	NA	Mud Rotary with HQ Diamond Core Bit	Layne Drilling	NA	NA	NA	NA
PZ-129 (AKA CB-3)	268893.232	1792607.916	1738.59	1741.94	16.5	26.5	30	30.0	6	2	SCH40 PVC	0.02	SCH40 PVC	3	14	28	Mud Rotary with HQ Diamond Core Bit	Layne Drilling	95/5 Slurry Bentonite chips Bentonite chips	0 9 28	9 14 30	Monument
PZ-130 (AKA CB-4)	268858.769	1793080.154	1743.50	1746.66	14.5	24.5	26	35.0	6	2	SCH40 PVC	0.02	SCH40 PVC	3	12	26	Mud Rotary with HQ Diamond Core Bit	Layne Drilling	95/5 Slurry Bentonite chips Bentonite chips	0 7 26	7 12 35	Monument
PZ-131 (AKA CB-5)	268963.222	1792792.983	1756.93	1759.95	16.0	26.0	29	53.0	6	2	SCH40 PVC	0.02	SCH40 PVC	3	14	29	Mud Rotary with HQ Diamond Core Bit	Layne Drilling	95/5 Slurry Bentonite chips Bentonite chips	0 9 29	9 14 53	Monument
PZ-132	269137.994	1792682.780	1756.82	1758.38	32.0	42.0	44	55.0	8	2	SCH40 PVC	0.02	SCH40 PVC	3	29	44	Hollow Stem Auger/Water and Mud Rotary with CME and HQ Core	WDC	95/5 Slurry Bentonite chips # 60 Sand Bentonite chips	0 22 27 44	22 27 29 55	Monument
PZ-133	269142.764	1790568.969	1796.61	1798.48	40.0	60.0	62	71.0	8	2	SCH40 PVC	0.02	SCH40 PVC	3	37	62	Hollow Stem Auger/Water and Mud Rotary with CME and HQ Core	WDC	95/5 Slurry Bentonite chips # 60 Sand Bentonite chips	0 25 35 62	25 35 37 71	Monument
PZ-134	268976.178	1790784.314	1819.88	1821.59	67.0	77.0	79	90.5	8	2	SCH40 PVC	0.02	SCH40 PVC	3	64	79	Hollow Stem Auger/Water and Mud Rotary with CME and HQ Core	WDC	95/5 Slurry Bentonite chips # 60 Sand Bentonite chips	0 52 62 79	52 62 64 90.5	Monument
PZ-135	268968.144	1790929.463	1822.22	1823.84	77.0	87.0	89	96.0	8	2	SCH40 PVC	0.02	SCH40 PVC	3	74	89	Hollow Stem Auger/Water and Mud Rotary with CME and HQ Core	WDC	95/5 Slurry Bentonite chips # 60 Sand Bentonite chips	0 62 72 89	62 72 74 96	Monument

**TABLE A-2b
CONSTRUCTION DETAILS OF PIEZOMETER MONITORING SYSTEMS
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA**

Well ID	Northing (feet)	Easting (feet)	Surface Elevation (feet amsl)	TOC Elevation (feet amsl)	Depth to Screen Top (feet bgs)	Depth to Screen Bottom (feet bgs)	Total Depth (feet bgs)	Total Depth Drilled (feet bgs)	Borehole Diameter (inches)	Casing Diameter (inches)	Screen Material	Screen Slot Size (inches)	Casing Material	Filter Pack Grade	Filter Pack Top (feet bgs)	Filter Pack Bottom (feet bgs)	Drilling Method	Drill Company	Annular Seal Material	Annular Seal Top (feet bgs)	Annular Seal Bottom (feet bgs)	Wellhead Completion
PZ-136	268814.105	1791130.672	1811.18	1812.90	65.0	75.0	77	85.5	8	2	SCH40 PVC	0.02	SCH40 PVC	3	62	77	Hollow Stem Auger/Water and Mud Rotary with CME and HQ Core	WDC	95/5 Slurry Bentonite chips # 60 Sand Bentonite chips	0 53 60 62 77	53 60 62 85.5	Monument
PZ-137	268806.051	1791316.071	1808.33	1810.13	67.0	77.0	79	85.0	8	2	SCH40 PVC	0.02	SCH40 PVC	3	64	79	Hollow Stem Auger/Water and Mud Rotary with CME and HQ Core	WDC	95/5 Slurry Bentonite chips # 60 Sand Bentonite chips	0 55 62 79	55 62 64 85	Monument
PZ-138	269235.701	1789494.590	1830.37	1829.85	22.0	32.0	34	45.7	8	2	SCH40 PVC	0.02	SCH40 PVC	3	20	34	Hollow Stem Auger/Water and Mud Rotary with CME and HQ Core	WDC	95/5 Slurry Bentonite chips # 60 Sand Bentonite chips	0 13 18 34	13 18 20 45.7	Flush-mount
PZ-139	269286.834	1789390.976	1829.62	1831.91	52.0	62.0	65	74.0	8	2	SCH40 PVC	0.02	SCH40 PVC	3	52	65	Hollow Stem Auger/Water and Mud Rotary with CME and HQ Core	WDC	95/5 Slurry Bentonite chips # 60 Sand Bentonite chips	0 45 48 65	45 48 50 74	Monument
PZ-140	269204.918	1789288.167	1833.15	1832.82	52.0	62.0	65	73.0	8	2	SCH40 PVC	0.02	SCH40 PVC	3	52	65	Hollow Stem Auger/Water and Mud Rotary with CME and HQ Core	WDC	95/5 Slurry Bentonite chips # 60 Sand Bentonite chips	0 45 48 65	45 48 50 74	Monument
PZ-141	269206.908	1788741.765	1857.14	1856.58	21.0	31.0	33	40.5	8	2	SCH40 PVC	0.02	SCH40 PVC	3	18	33	Hollow Stem Auger/Water and Mud Rotary with CME and HQ Core	WDC	95/5 Slurry Bentonite chips # 60 Sand Bentonite chips	0 11 16 33	11 16 18 40.5	Flush-mount
PZ-142	265317.261	1786823.055	1745.52	1748.17	28.0	38.0	38.5	52.0	8	2	SCH40 PVC	0.02	SCH40 PVC	3	23	39	Hollow Stem	WDC	Bentonite chips	13	23	Monument
PZ-143	269399.543	1788800.747	1847.72	1849.84	55.0	65.0	67	75.0	8	2	SCH40 PVC	0.02	SCH40 PVC	3	52	67	Hollow Stem Auger/Water and Mud Rotary with CME and HQ Core	WDC	95/5 Slurry Bentonite chips # 60 Sand Bentonite chips	0 45 50 67	45 50 52 75	Monument

**TABLE A-2b
CONSTRUCTION DETAILS OF PIEZOMETER MONITORING SYSTEMS
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA**

Well ID	Northing (feet)	Easting (feet)	Surface Elevation (feet amsl)	TOC Elevation (feet amsl)	Depth to Screen Top (feet bgs)	Depth to Screen Bottom (feet bgs)	Total Depth (feet bgs)	Total Depth Drilled (feet bgs)	Borehole Diameter (inches)	Casing Diameter (inches)	Screen Material	Screen Slot Size (inches)	Casing Material	Filter Pack Grade	Filter Pack Top (feet bgs)	Filter Pack Bottom (feet bgs)	Drilling Method	Drill Company	Annular Seal Material	Annular Seal Top (feet bgs)	Annular Seal Bottom (feet bgs)	Wellhead Completion
PZ-144	269095.231	1788634.167	1859.63	1859.13	13.0	23.0	25	40.0	8	2	SCH40 PVC	0.02	SCH40 PVC	3	11	25	Hollow Stem Auger/Water and Mud Rotary with CME and HQ Core	WDC	95/5 Slurry Bentonite chips # 60 Sand Bentonite chips	0 7 10 25	7 10 11 40	Flush-mount
PZ-145	268857.992	1789810.694	1764.80	1766.87	20.0	30.0	32	40.0	8	2	SCH40 PVC	0.02	SCH40 PVC	3	17	32	Hollow Stem Auger/Water and Mud Rotary with CME and HQ Core	WDC	95/5 Slurry Bentonite chips # 60 Sand Bentonite chips	0 10 15 32	10 15 17 40	Monument
PZ-146	268265.857	1789233.939	1787.87	1789.82	12.0	22.0	24	37.5	8	2	SCH40 PVC	0.02	SCH40 PVC	3	10	24	Hollow Stem Auger/Water and Mud Rotary with CME and HQ Core	WDC	95/5 Slurry Bentonite chips # 60 Sand Bentonite chips	0 6 9 24	6 9 10 37.5	Monument
PZ-147	268144.179	1789214.871	1791.44	1791.24	27.0	37.0	39	50.0	8	2	SCH40 PVC	0.02	SCH40 PVC	3	24	39	Hollow Stem Auger/Water and Mud Rotary with CME and HQ Core	WDC	95/5 Slurry Bentonite chips # 60 Sand Bentonite chips	0 17 22 39	17 22 24 50	Flush-mount
PZ-148	268103.787	1789185.773	1791.23	1794.71	19.0	29.0	31	39.7	8	2	SCH40 PVC	0.02	SCH40 PVC	3	17	31	Hollow Stem Auger/Water and Mud Rotary with CME and HQ Core	WDC	95/5 Slurry Bentonite chips # 60 Sand Bentonite chips	0 10 15 31	10 15 17 39.7	Monument

Notes and Abbreviations:

* Northing and Easting Coordinates are in State Plane NAD 27, Zone 5, US Feet. Surveyed using hand-held GPS system.
 amsl - above mean sea level SCH - schedule SST - stainless steel
 bgs - below ground surface PVC - polyvinyl chloride TOC - top of casing

**TABLE A-2c
CONSTRUCTION DETAILS OF PIEZOMETER MONITORING SYSTEMS
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA**

Well ID	Northing (feet)	Easting (feet)	Surface Elevation (feet amsl)	TOC Elevation (feet amsl)	Depth to Screen Top (feet bgs)	Depth to Screen Bottom (feet bgs)	Total Depth (feet bgs)	Total Depth Drilled (feet bgs)	Borehole Diameter (inches)	Casing Diameter (inches)	Screen Material	Screen Slot Size (inches)	Casing Material	Filter Pack Grade	Filter Pack Top (feet bgs)	Filter Pack Bottom (feet bgs)	Drilling Method	Driller	Annular Seal Material	Annular Seal Top (feet bgs)	Annular Seal Bottom (feet bgs)	Wellhead Completion
PZ-149	268980.544	1790277.591	1712.32	1715.19	26	36	36.5	47	8	2	SCH40 PVC	0.02	SCH40 PVC	#3	20	36.5	Hollow Stem Auger	WDC	Bentonite Chips	10	20	Monument
PZ-150	268281.654	1786086.776	1849.92	1852.23	17.5	27.5	27.5	27.5	10 5/8	4	SCH40 PVC	0.020	SCH40 PVC	#3	14.5	27.5	Air Rotary	WDC	Cement-Bentonite Grout	11	14.5	Monument
PZ-151	268743.1285	1787988.758	1860.4	1862.60	69.5	79.5	80	82	8	2	SCH40 PVC	0.02	SCH40 PVC	#3	64	80	CME-85 HAS/HQ w/carbide bit	WDC	Cement-Bentonite Grout Bentonite chips # 60 Sand Bentonite	2 52 62 80	52 62 64 82	Monument
PZ-152	268541.5223	1788231.608	1881.1	1880.80	26.1	36.1	36.6	47	8	2	SCH40 PVC	0.02	SCH40 PVC	#3	23	36.6	CME-85 HAS/HQ w/carbide bit	WDC	Cement-Bentonite Grout Bentonite chips # 60 Sand Bentonite	2 11 21 36.6	11 21 23 47	Flush-mount
PZ-153	267496.9893	1790701.028	1908.5	1908.10	55.0	64.9	65.4	70	8	2	SCH40 PVC	0.02	SCH40 PVC	#3	51	65.45	CME-85 HAS/HQ w/carbide bit	WDC	Cement-Bentonite Grout Bentonite chips # 60 Sand Bentonite	2 38 48 65.45	38 48 51 70	Flush-mount
PZ-154	267589.45	1790451.038	1899.9	1902.30	50.0	60.0	60.5	61	8	2	SCH40 PVC	0.02	SCH40 PVC	#3	46	61	CME-85 HAS/HQ w/carbide bit	WDC	Cement-Bentonite Grout Bentonite chips # 60 Sand Bentonite	2 34 44	34 44 46	Monument
PZ-155	267068.2506	1789414.183	1829.7	1831.90	51.5	61.5	62.0	62	8	2	SCH40 PVC	0.02	SCH40 PVC	#3	46	62	CME-85 HAS/HQ w/carbide bit	WDC	Cement-Bentonite Grout Bentonite chips # 60 Sand Bentonite	2 34 44	34 44 46	Monument
PZ-156	267141.728	1788999.05	1849.8	1849.40	104	114	116	140	8	2	SCH40 PVC	0.02	SCH40 PVC	#3	101	116	CME-85 HAS/HQ w/carbide bit	WDC	Cement-Bentonite Grout Bentonite chips # 60 Sand Bentonite	2 89 99 116	89 99 101 140	Flush-mount

**TABLE A-2c
CONSTRUCTION DETAILS OF PIEZOMETER MONITORING SYSTEMS
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA**

Well ID	Northing (feet)	Easting (feet)	Surface Elevation (feet amsl)	TOC Elevation (feet amsl)	Depth to Screen Top (feet bgs)	Depth to Screen Bottom (feet bgs)	Total Depth (feet bgs)	Total Depth Drilled (feet bgs)	Borehole Diameter (inches)	Casing Diameter (inches)	Screen Material	Screen Slot Size (inches)	Casing Material	Filter Pack Grade	Filter Pack Top (feet bgs)	Filter Pack Bottom (feet bgs)	Drilling Method	Driller	Annular Seal Material	Annular Seal Top (feet bgs)	Annular Seal Bottom (feet bgs)	Wellhead Completion
PZ-157	267917.6295	1788242.536	1807.4	1809.80	22.3	32.3	32.8	45	8	2	SCH40 PVC	0.02	SCH40 PVC	#3	17	32.78	CME-85 HAS/HQ w/carbide bit	WDC	Cement-Bentonite Grout Bentonite chips # 60 Sand Bentonite	2 5 15 32.78	5 15 17 45	Monument
PZ-158	267307.2187	1788012.877	1795.4	1797.40	12.2	22.2	22.7	32	8	2	SCH40 PVC	0.02	SCH40 PVC	#3	7	22.74	CME-85 HAS/HQ w/carbide bit	WDC	Cement-Bentonite Grout Bentonite chips # 60 Sand Bentonite	2 3 6 22.74	3 6 7 32	Monument
PZ-159	267632.0562	1788806.35	1814.7	1814.20	8.8	18.8	23	41	8	2	SCH40 PVC	0.02	SCH40 PVC	#3	7	23	CME-85 HAS/HQ w/carbide bit	WDC	Cement-Bentonite Grout Bentonite chips # 60 Sand Bentonite	2 3 6 23	3 6 7 41	Flush-mount
PZ-160	268345.039	1786286.124	1849.14	1851.41	17.0	27.0	27	27	10 5/8	4	SCH40 PVC	0.020	SCH40 PVC	#3	14	27	Air Rotary	WDC	Cement-Bentonite Grout	1	14	Monument
PZ-161	268418.806	1786132.353	1850.00	1852.23	18	28	28	28	10 5/8	4	SCH40 PVC	0.020	SCH40 PVC	#3	15	28	Air Rotary	WDC	Cement-Bentonite Grout	1	15	Monument

Notes:
 Northing and Easting Coordinates are in State Plane NAD 27, US Feet.
Abbreviations:
 amsl - above mean sea level
 bgs - below ground surface
 SCH - schedule
 PVC - polyvinyl chloride
 TOC - top of casing
 NM - not measured

TABLE A-3
CONSTRUCTION DETAILS OF FLUTE DISCRETE-INTERVAL MONITORING SYSTEMS
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well	RD-07		RD-21		RD-23		RD-31	
Date Liner Installed	04/29/02		01/14/03		01/20/03		01/25/01	
Date Liner Removed	NA		NA		NA		07/28/04	
Top of Casing Elevation (ft msl)	1812.82		1866.96		1838.19		1945.02	
Open-hole Depth to Water (ft btc)	87.03		90.3		236.15		116.32	
Hole Total Depth (ft btc)	299.55		175.3		443.2		178.5	
	Depth of Open Interval (ft btc)	Midpoint Monitoring Elevation (ft msl)	Depth of Open Interval (ft btc)	Midpoint Monitoring Elevation (ft msl)	Depth of Open Interval (ft btc)	Midpoint Monitoring Elevation (ft msl)	Depth of Open Interval (ft btc)	Midpoint Monitoring Elevation (ft msl)
Port 1	50 - 60	1757.82	85-95	1776.96	231-241	1602.19	48 - 58	1892.02
Port 2	70 - 80	1737.82	105-115	1756.96	251-261	1582.19	68 - 78	1872.02
Port 3	90 - 100	1717.82	125-135	1736.96	271-281	1562.19	88 - 98	1852.02
Port 4	110 - 120	1697.82	145-155	1716.96	291-301	1542.19	108 - 118	1832.02
Port 5	130 - 140	1677.82	165-175	1696.96	311-321	1522.19	128 - 138	1812.02
Port 6	150 - 160	1657.82	--	--	331-341	1502.19	148 - 158	1792.02
Port 7	170 - 180	1637.82	--	--	351-361	1482.19	168 - 178	1772.02
Port 8	190 - 200	1617.82	--	--	371-381	1462.19	--	--
Port 9	210 - 220	1597.82	--	--	391-396.5	1444.44	--	--
Port 10	230 - 240	1577.82	--	--	--	--	--	--
Port 11	250 - 260	1557.82	--	--	--	--	--	--
Port 12	270 - 280	1537.82	--	--	--	--	--	--
Port 13	290 - 299.55	1518.05	--	--	--	--	--	--
Port 14	--	--	--	--	--	--	--	--
Port 15	--	--	--	--	--	--	--	--

1. ft btc = Feet below top of casing.
2. ft msl = Feet above mean sea level.
3. NA = Not applicable
4. -- = No FLUTE port installed.
5. RD-07, RD-21, RD-22, RD-23, RD-33A, RD-50, RD-54A, RD-57, RD-64, RD-65, and RD-72 have alternating open and blank intervals at 10-foot frequencies

TABLE A-3
CONSTRUCTION DETAILS OF FLUTE DISCRETE-INTERVAL MONITORING SYSTEMS
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well	RD-33A		RD-50		RD-54A		RD-57	
Date Liner Installed	01/09/03		01/15/03		01/07/03		09/11/02	
Date Liner Removed	NA		NA		NA		NA	
Top of Casing Elevation (ft msl)	1792.97		1914.88		1841.72		1774.15	
Open-hole Depth to Water (ft btc)	211.58		113.31		160.2		352.5	
Hole Total Depth (ft btc)	321.75		195.3		283.8		418.3	
	Depth of Open Interval (ft btc)	Midpoint Monitoring Elevation (ft msl)	Depth of Open Interval (ft btc)	Midpoint Monitoring Elevation (ft msl)	Depth of Open Interval (ft btc)	Midpoint Monitoring Elevation (ft msl)	Depth of Open Interval (ft btc)	Midpoint Monitoring Elevation (ft msl)
Port 1	211 - 221	1576.97	106-116	1803.88	150.5 - 160.5	1686.22	228 - 238	1541.15
Port 2	231 - 241	1556.97	126-136	1783.88	170.5 - 180.5	1666.22	248 - 258	1521.15
Port 3	251 - 261	1536.97	146-156	1763.88	190.5 - 200.5	1646.22	268 - 278	1501.15
Port 4	271 - 281	1516.97	166-176	1743.88	210.5 - 220.5	1626.22	288 - 298	1481.15
Port 5	291 - 301	1496.97	186-195.3	1724.23	230.5 - 240.5	1606.22	308 - 318	1461.15
Port 6	311 - 321	1476.97	--	--	250.5 - 260.5	1586.22	328 - 338	1441.15
Port 7	--	--	--	--	270.5 - 280.5	1566.22	348 - 358	1421.15
Port 8	--	--	--	--	--	--	368 - 378	1401.15
Port 9	--	--	--	--	--	--	388 - 398	1381.15
Port 10	--	--	--	--	--	--	408 - 418	1361.15
Port 11	--	--	--	--	--	--	--	--
Port 12	--	--	--	--	--	--	--	--
Port 13	--	--	--	--	--	--	--	--
Port 14	--	--	--	--	--	--	--	--
Port 15	--	--	--	--	--	--	--	--

1. ft btc = Feet below top of casing.
2. ft msl = Feet above mean sea level.
3. NA = Not applicable
4. -- = No FLUTE port installed.
5. RD-07, RD-21, RD-22, RD-23, RD-33A, RD-50, RD-54A, RD-57, RD-64, RD-65, and RD-72 have alternating open and blank intervals at 10-foot frequencies

TABLE A-3
CONSTRUCTION DETAILS OF FLUTE DISCRETE-INTERVAL MONITORING SYSTEMS
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well	RD-64		RD-65		RD-72	
Date Liner Installed	04/17/02		10/29/02		04/02/01	
Date Liner Removed	NA		NA		NA	
Top of Casing Elevation (ft msl)	1857.04		1819.14		1907.25	
Open-hole Depth to Water (ft btc)	231.82		227		78.82	
Hole Total Depth (ft btc)	403.0		397		184	
	Depth of Open Interval (ft btc)	Midpoint Monitoring Elevation (ft msl)	Depth of Open Interval (ft btc)	Midpoint Monitoring Elevation (ft msl)	Depth of Open Interval (ft btc)	Midpoint Monitoring Elevation (ft msl)
Port 1	170.5 - 180.5	1681.54	167 - 177	1647.14	45 - 55	1857.25
Port 2	190.5 - 200.5	1661.54	187 - 197	1627.14	65 - 75	1837.25
Port 3	210.5 - 220.5	1641.54	207 - 217	1607.14	85 - 95	1817.25
Port 4	230.5 - 240.5	1621.54	227 - 237	1587.14	105 - 115	1797.25
Port 5	250.5 - 260.5	1601.54	247 - 257	1567.14	125 - 135	1777.25
Port 6	270.5 - 280.5	1581.54	267 - 277	1547.14	145 - 155	1757.25
Port 7	290.5 - 300.5	1561.54	287 - 297	1527.14	165 - 175	1737.25
Port 8	310.5 - 320.5	1541.54	307 - 317	1507.14	185 - 195	1717.25
Port 9	330.5 - 340.5	1521.54	327 - 337	1487.14	--	--
Port 10	350.5 - 360.5	1501.54	347 - 357	1467.14	--	--
Port 11	370.5 - 380.5	1481.54	367 - 377	1447.14	--	--
Port 12	390.5 - 400.5	1461.54	387 - 397	1427.14	--	--
Port 13	--	--	--	--	--	--
Port 14	--	--	--	--	--	--
Port 15	--	--	--	--	--	--

1. ft btc = Feet below top of casing.
2. ft msl = Feet above mean sea level.
3. NA = Not applicable
4. -- = No FLUTE port installed.
5. RD-07, RD-21, RD-22, RD-23, RD-33A, RD-50, RD-54A, RD-57, RD-64, RD-65, and RD-72 have alternating open and blank intervals at 10-foot frequencies

TABLE A-4a
OS-09R Westbay Multilevel System As-Built Details
(Current Top-of-Casing Reference)

Depths Referenced to Final Top of Westbay MP Casing Piece Number 82; Elevation = 1018.07 ft msl +/- 0.1 ft

Top of this piece is approximately 0.75 ft above former top of 6" diameter conductor casing used as ground surface reference.
(The conductor casing was later extended 7")

Zone	Zone Depth Interval (feet btc)	Zone Length (feet)	Westbay MP Casing Number	Packer Number	Packer Sealed Depth Interval (feet btc)	Magnetic Collar Depth (feet btc)	Pumping Port Depth (feet btc)	Measurement Port Depth (feet btc)	Measurement Port Elevation +/- 0.1 ft (feet msl)
1	30.75 - 41.88	11.1	81 - 77 76	18	41.88 - 44.88	38.3	40.9	35.9	982.19
2	44.88 - 53.91	9.0	75 - 74 73	17	53.91 - 56.91	48.4	50.9	45.9	972.16
QA-1	56.91 - 61.95	5.0	72 - 71 70	16	61.95 - 64.95			57.9	960.14
3	64.95 - 89.97	25.0	69 - 65 64	15	89.97 - 92.97	81.4	84.0	79.0	939.11
QA-2	92.97 - 96.98	4.0	63 62	14	96.98 - 99.98			94.0	924.10
4	99.98 - 129.00	29.0	61 - 58 57	13	129.00 - 132.00	125.4	128.0	123.0	895.08
5	132.00 - 147.01	15.0	56 - 53 52	12	147.01 - 150.01	143.4	146.0	141.0	877.07
6	150.01 - 175.03	25.0	51 - 47 46	11	175.03 - 178.03	166.4	169.0	164.0	854.05
7	178.03 - 201.04	23.0	45 - 40 39	10	201.04 - 204.04	192.4	195.0	190.0	828.06
8	204.04 - 218.07	14.0	38 - 36 35	9	218.07 - 221.07	214.4	217.1	212.1	806.02
9	221.07 - 245.08	24.0	34 - 31 30	8	245.08 - 248.08	236.5	239.1	234.1	783.99
QA-3	248.08 - 252.09	4.0	29 28	7	252.09 - 255.09			249.1	768.99
10	255.09 - 277.10	22.0	27 - 25 24	6	277.10 - 280.10	268.5	271.1	266.1	751.98
11	280.10 - 292.13	12.0	23 - 22 21	5	292.13 - 295.13	288.6	291.1	286.1	731.95
12	295.13 - 307.13	12.0	20 - 19 18	4	307.13 - 310.13	303.5	306.1	301.1	716.94
13	310.13 - 337.17	27.0	17 - 14 13	3	337.17 - 340.17	328.6	331.2	326.2	691.91
14	340.17 - 357.18	17.0	12 - 10 9	2	357.18 - 360.18	348.6	351.2	346.2	671.90
15	360.18 - 377.19	17.0	8 - 6 5	1	377.19 - 380.19	368.6	371.2	366.2	651.89
16	380.19 - 408.75	28.6	4 - 1			393.6	396.2	391.2	626.87

TABLE A-4b
RD-31 Westbay Multilevel System As-Built Details
(Current Top-of-Casing Reference)

All depths are with respect to the top of the 8.25-inch conductor casing after wellhead reconstruction; Elevation = 1944.55 feet msl (0.47 feet of the conductor casing was removed during wellhead reconstruction that followed the Westbay system installation)

Port	Port Depth Interval (feet btc)	Port Interval Length (feet)	Westbay MP Casing Number	Packer Number	Packer Sealed Depth Interval (feet btc)	Magnetic Collar Depth (feet btc)	Pumping Port Depth ¹ (feet btc)	Measurement Port Depth ² (feet btc)	Measurement Port Elevation ² +/- 0.1 ft (feet msl)
Conductor Casing	0-29.5	--	106-100					--	--
QA-01	29.5-182.5 ³	153 ³	99-85 84	33	182.5-185.5			171.6	1772.9
Port 01	185.5-200.5	15	83-80 79	32	200.5-203.5	188.7	199.6	186.6	1757.9
Port 02	203.5-218.5	15	78-75 74	31	218.5-221.5	206.7	217.6	204.6	1739.9
QA-02	221.5-228.5	7	73 72	30	228.5-231.5			222.6	1721.9
Port 03	231.5-242.5	11	70-71 69	29	242.5-245.5	234.7	241.6	232.6	1711.9
QA-03	245.5-248.5	3	68 67	28	248.5-251.5			246.6	1697.9
Port 04	251.5-264.5	13	66-64 63	27	264.5-267.5	254.7	263.6	252.6	1691.9
QA-04	267.5-271.5	4	62 61	26	271.5-274.5			268.6	1675.9
QA-05	274.5-278.5	4	60 59	25	278.5-281.5			275.6	1668.9
Port 05	281.5-289.5	8	58-57 56	24	289.5-292.5	284.7	288.6	282.6	1661.9
QA-06	292.5-294.5	2	55	23	294.5-297.5			293.6	1650.9
QA-07	297.5-304.5	7	54 53	22	304.5-307.5			298.6	1645.9
QA-08	307.5-309.5	2	52	21	309.5-312.5			308.6	1635.9
QA-09	312.5-319.5	7	51 50	20	319.5-322.5			313.6	1630.9
Port 06	322.5-335.5	13	49-47 46	19	335.5-338.5	325.7	334.6	323.6	1620.9
QA-10	338.5-350.5	12	45 44	18	350.5-353.5			339.6	1604.9
QA-11	353.5-357.5	4	43 42	17	357.5-360.5			354.6	1589.9
QA-12	360.5-369.5	9	41-40 39	16	369.5-372.5			361.6	1582.9
Port 07	372.5-386.5	14	38-36 35	15	386.5-389.5	375.7	385.6	373.6	1570.9
QA-13	389.5-392.5	3	34 33	14	392.5-395.5			390.6	1553.9
Port 08	395.5-404.5	9	32-31 30	13	404.5-407.5	398.7	403.6	396.6	1547.9
QA-14	407.5-418.5	11	29-28 27	12	418.5-421.5			408.6	1535.9
QA-15	421.5-428.5	7	26 25	11	428.5-431.5			422.6	1521.9
QA-16	431.5-440.5	9	24-23 22	10	440.5-443.5			432.6	1511.9

TABLE A-4b
RD-31 Westbay Multilevel System As-Built Details
(Current Top-of-Casing Reference)

Port 09	443.5-455.5	12	21 20	9	455.5-458.5	446.7	454.6	444.6	1499.9
QA-17	458.5-462.5	4	19 18	8	462.5-465.5			459.6	1484.9
Port 10	465.5-475.5	10	17-16 15	7	475.5-478.5	468.7	474.6	466.6	1477.9
QA-18	478.5-482.5	4	14 13	6	482.5-485.5			479.6	1464.9
QA-19	485.5-490.5	5	12-11 10	5	490.5-493.5			486.6	1457.9
QA-20	493.5-496.5	3	9 8	4	496.5-499.5			494.6	1449.9
Port 11	499.5-506.5	7	7 6	3	506.5-509.5	502.7	505.6	500.6	1443.9
QA-21	509.5-515.5	6	5 4	2	515.5-518.5			510.6	1433.9
QA-22	518.5-520.5	2	3	1	520.5-523.5			519.6	1424.9
Port 12	523.5-536.5	13	2-1			526.7	528.6	524.6	1419.9

NOTES

- Corehole total depth = 541.5 feet btc
- Corehole depth measured at time of Westbay system installation = 536.5 feet btc
- Bottom of Westbay system casing = 532.4 feet btc

btc = below top of casing

ft msl = feet above mean sea level

-- = no measurement port located within interval

¹ Depths are to the center of the pumping port screen

² Depths and elevations are to the center of the measurement port opening

³ Interval is open to surface, but open to formation only from the bottom of the 8.25-inch conductor casing to the top of packer number 33.