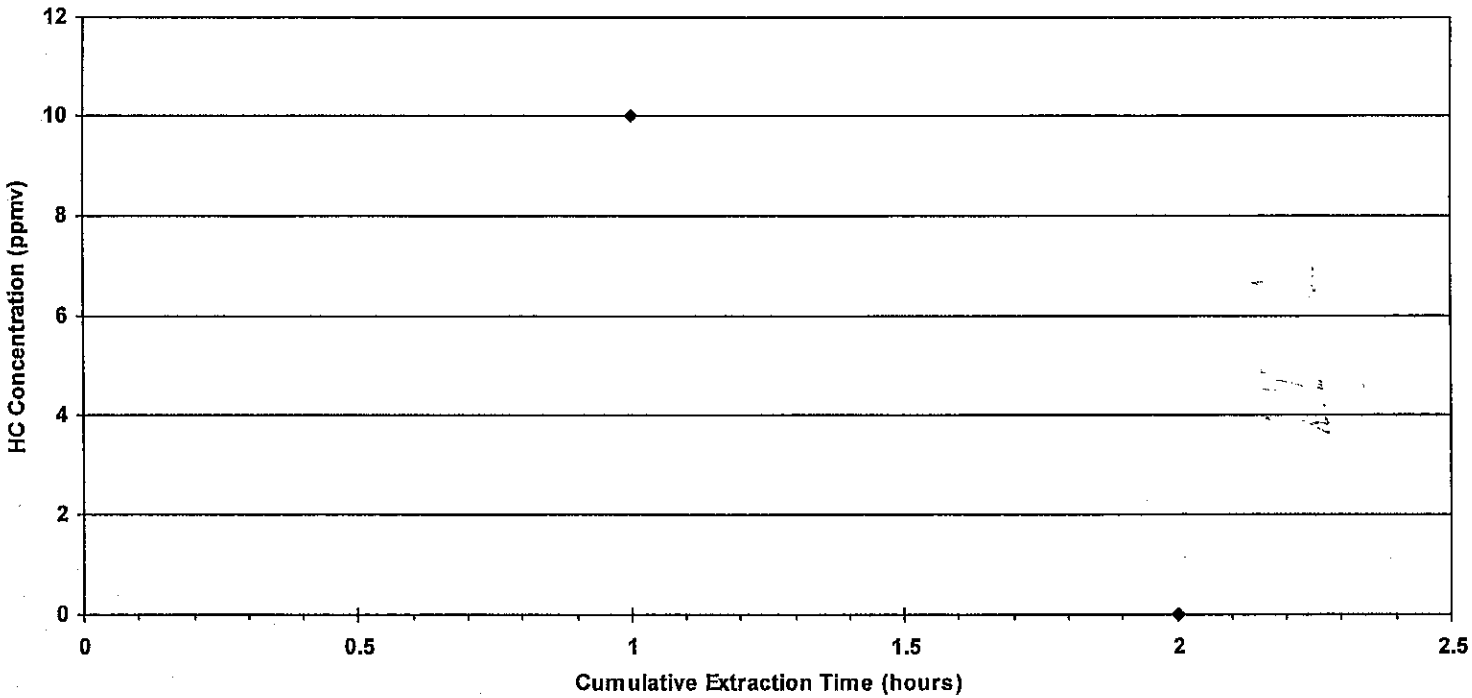
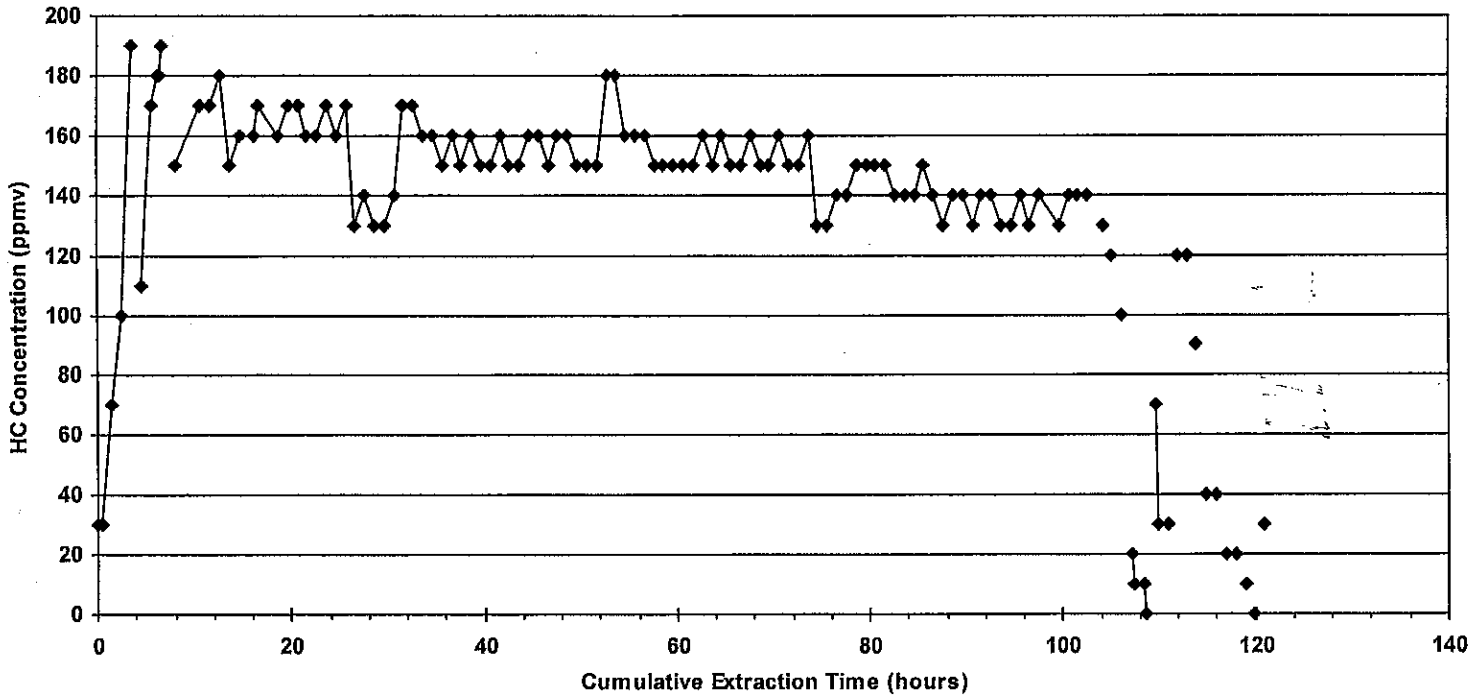
Graph 3
Well Hydrocarbon (HC) Concentration vs. Time
Former 76 Station 0353, Well MW-3A
9/26/2005 through 10/27/2005



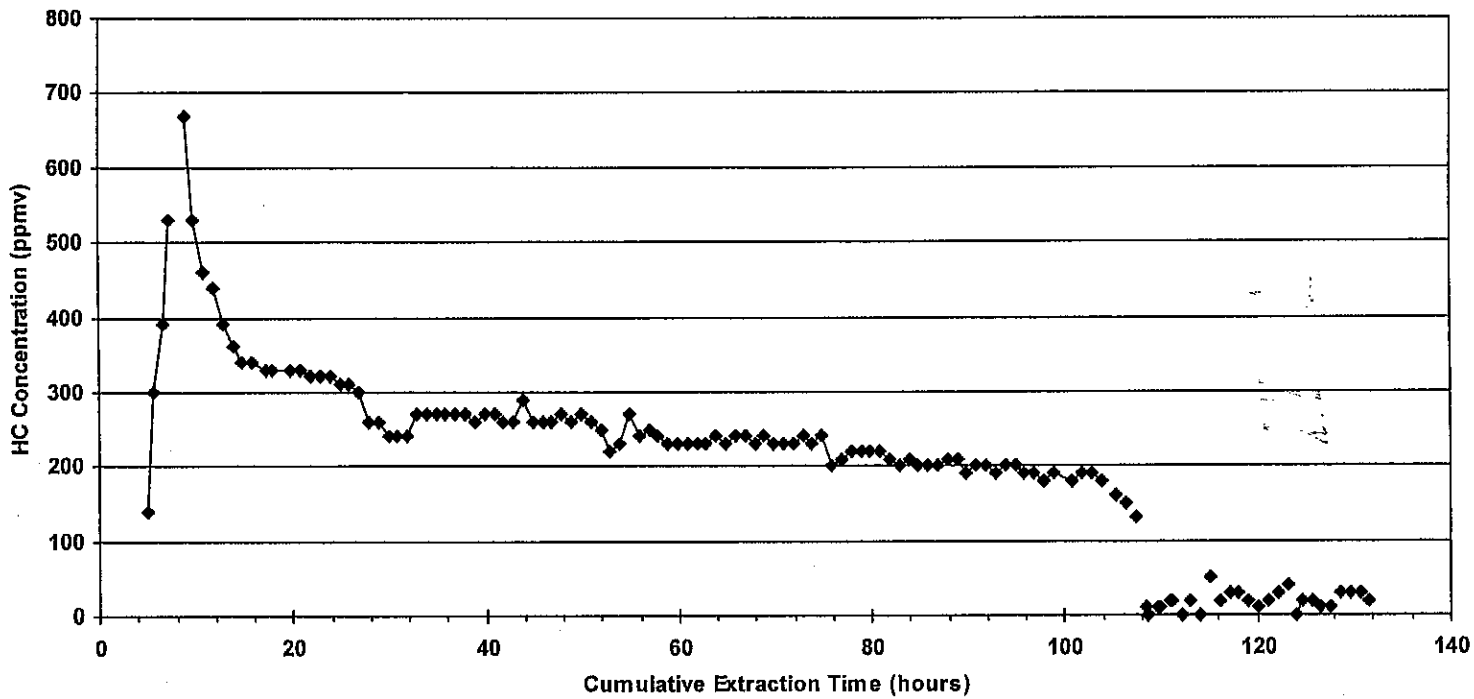
1. ppmv = parts per million by volume
2. The HC concentrations were measured using a Horiba MEXA-224GE field HC analyzer with a maximum range of 10,000 ppmv.

Graph 4
Well Hydrocarbon (HC) Concentration vs. Time
Former 76 Station 0353, Well VW-1A
9/26/2005 through 10/27/2005



1. ppmv = parts per million by volume
2. The HC concentrations were measured using a Horiba MEXA-224GE field HC analyzer with a maximum range of 10,000 ppmv.

Graph 5
Well Hydrocarbon (HC) Concentration vs. Time
Former 76 Station 0353, Well VW-1B
9/26/2005 through 10/27/2005

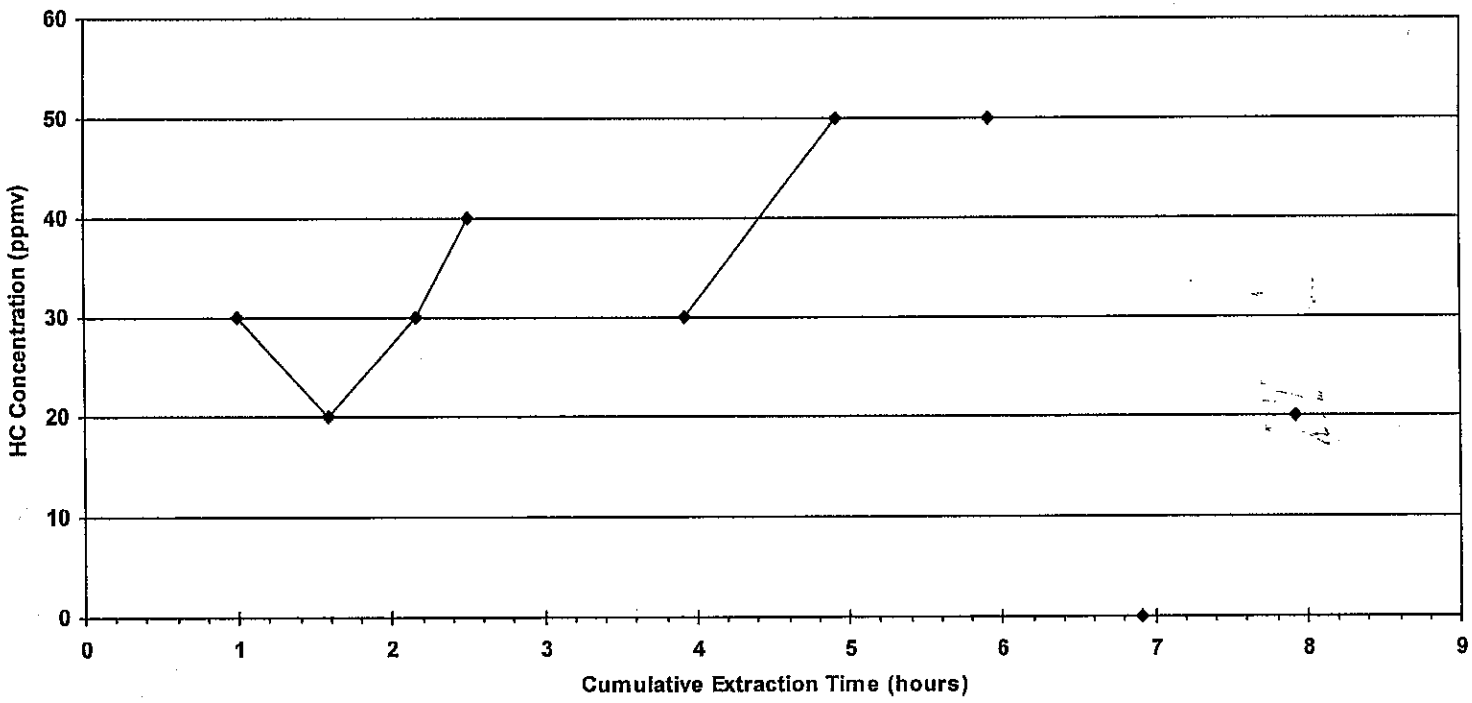


1. ppmv = parts per million by volume
2. The HC concentrations were measured using a Horiba MEXA-224GE field HC analyzer with a maximum range of 10,000 ppmv.

Graph 6
Well Hydrocarbon (HC) Concentration vs. Time

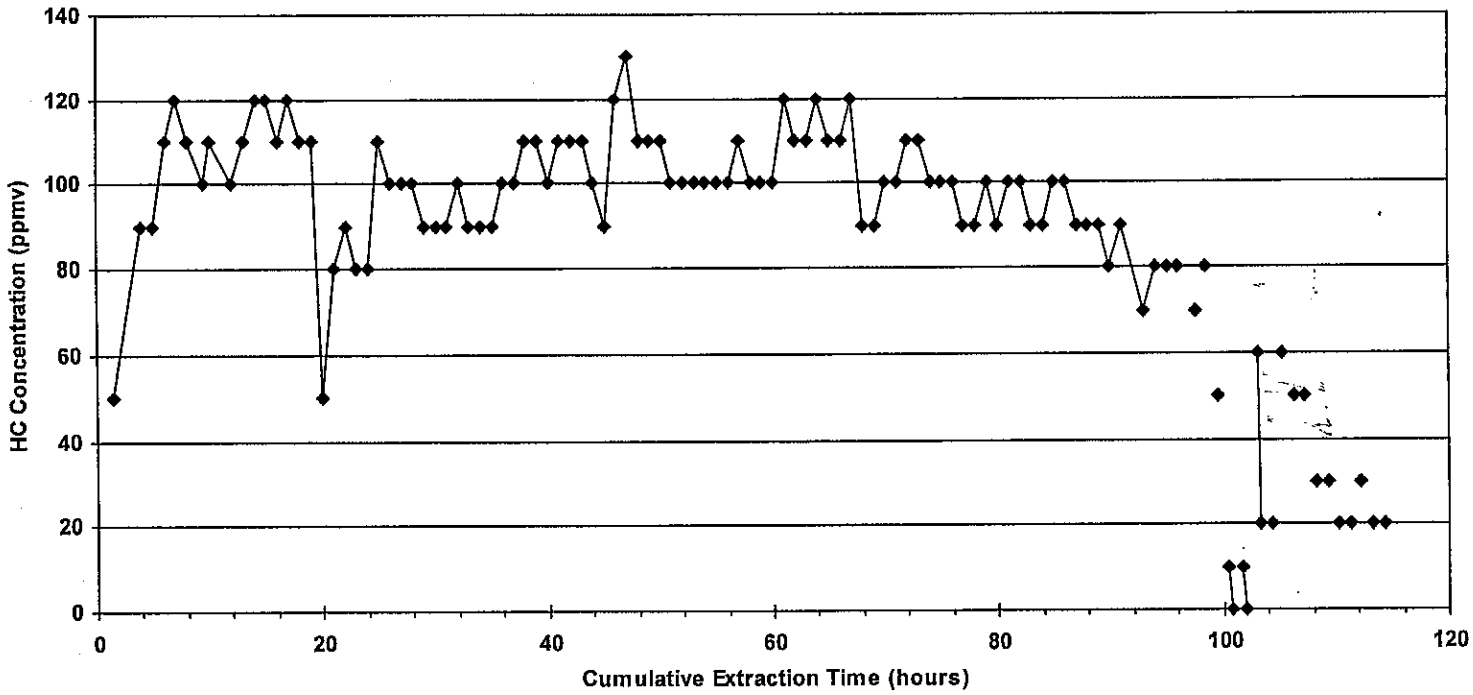
Former 76 Station 0353, Well VW-1C

9/26/2005 through 10/27/2005



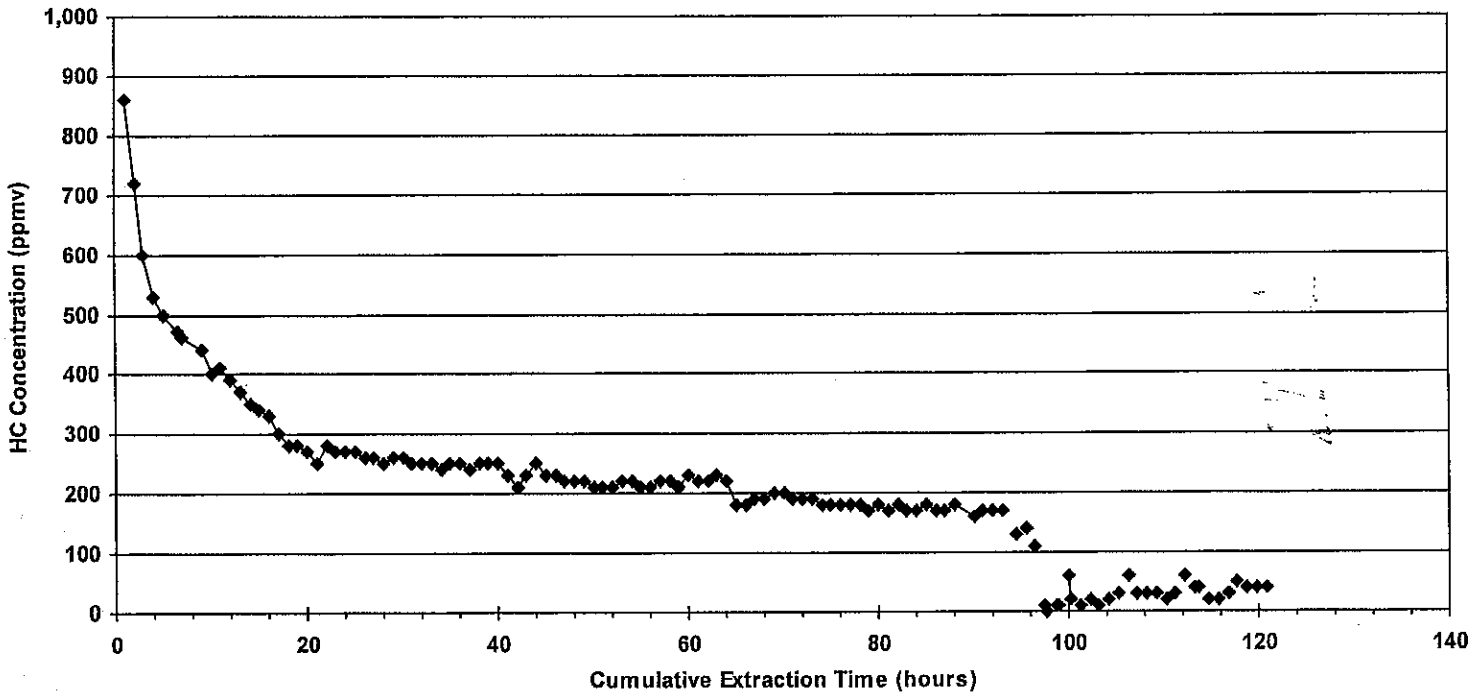
1. ppmv = parts per million by volume
2. The HC concentrations were measured using a Horiba MEXA-224GE field HC analyzer with a maximum range of 10,000 ppmv.

Graph 7
Well Hydrocarbon (HC) Concentration vs. Time
Former 76 Station 0353, Well VW-2A
9/26/2005 through 10/27/2005



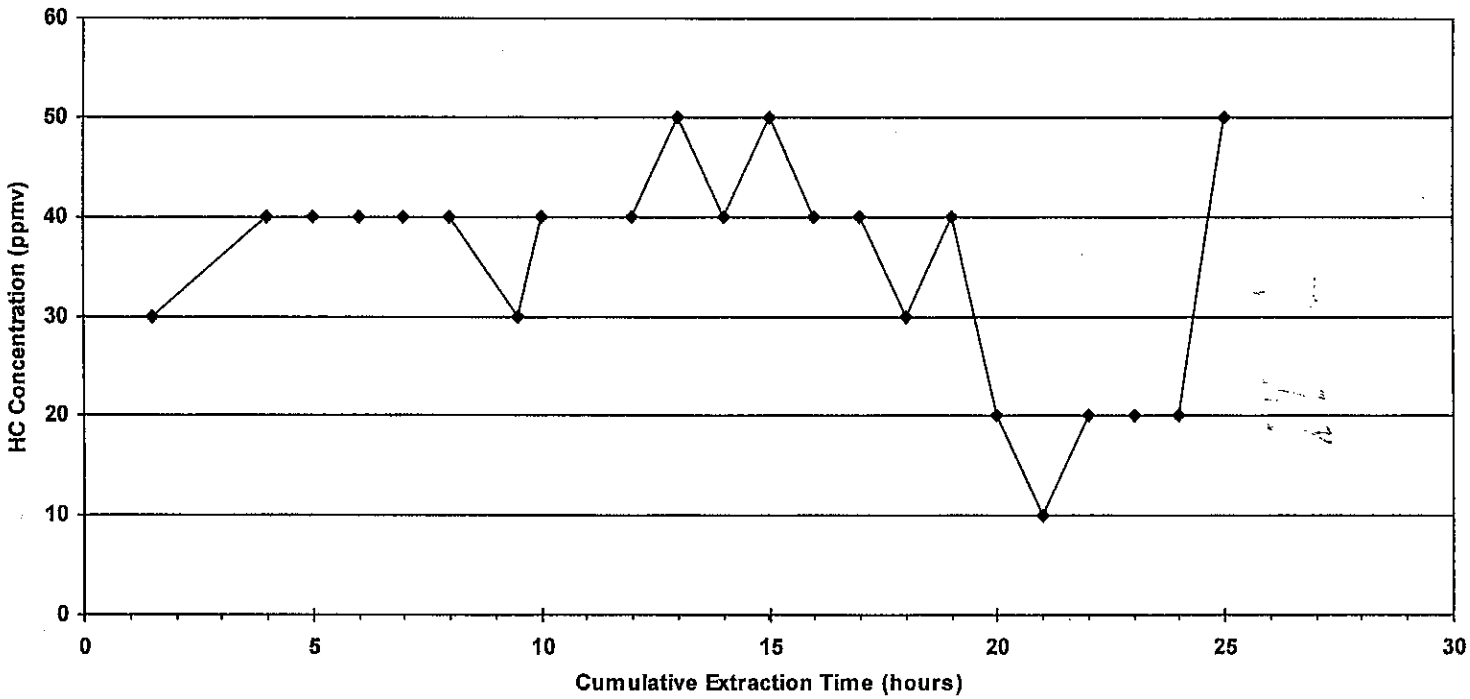
1. ppmv = parts per million by volume
2. The HC concentrations were measured using a Horiba MEXA-224GE field HC analyzer with a maximum range of 10,000 ppmv.

Graph 8
Well Hydrocarbon (HC) Concentration vs. Time
Former 76 Station 0353, Well VW-2B
9/26/2005 through 10/27/2005



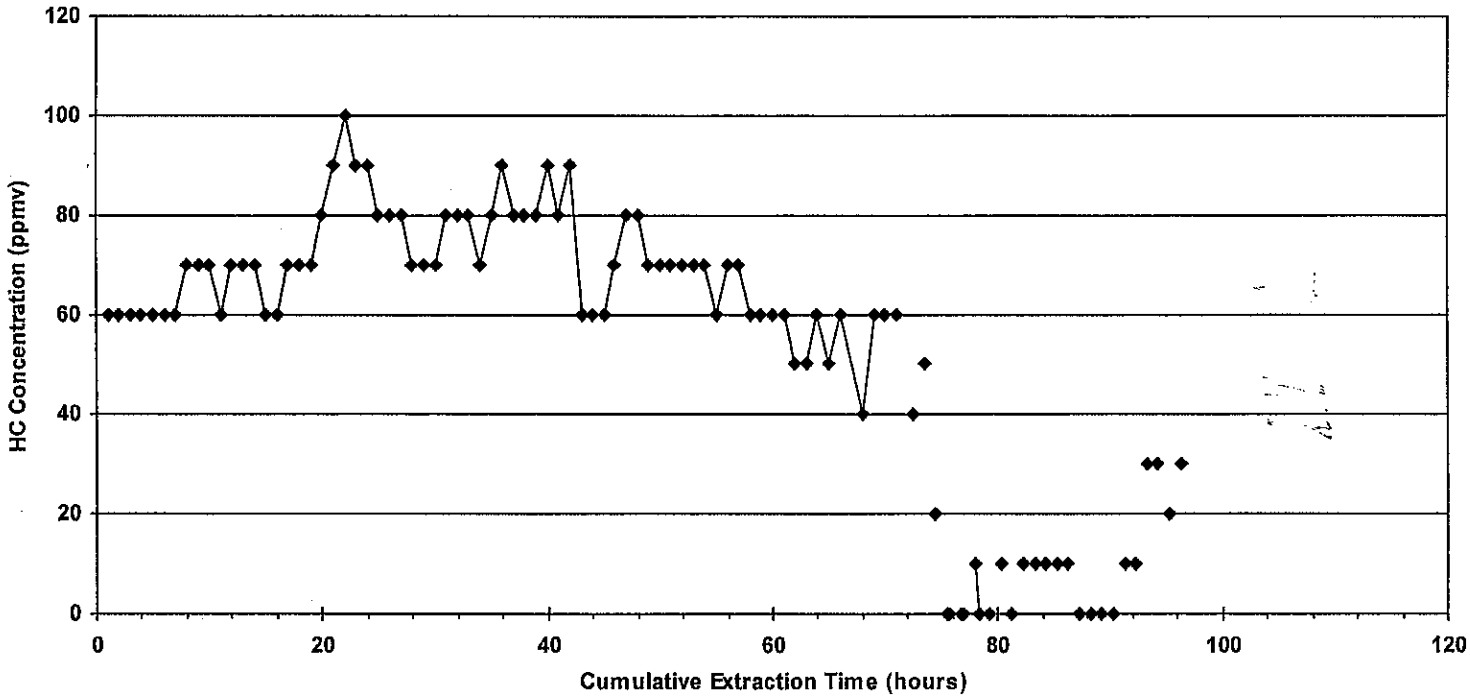
1. ppmv = parts per million by volume
2. The HC concentrations were measured using a Horiba MEXA-224GE field HC analyzer with a maximum range of 10,000 ppmv.

Graph 9
Well Hydrocarbon (HC) Concentration vs. Time
Former 76 Station 0353, Well VW-3A
9/26/2005 through 10/27/2005



1. ppmv = parts per million by volume
2. The HC concentrations were measured using a Horiba MEXA-224GE field HC analyzer with a maximum range of 10,000 ppmv.

Graph 10
Well Hydrocarbon (HC) Concentration vs. Time
Former 76 Station 0353, Well VW-3B
9/26/2005 through 10/27/2005

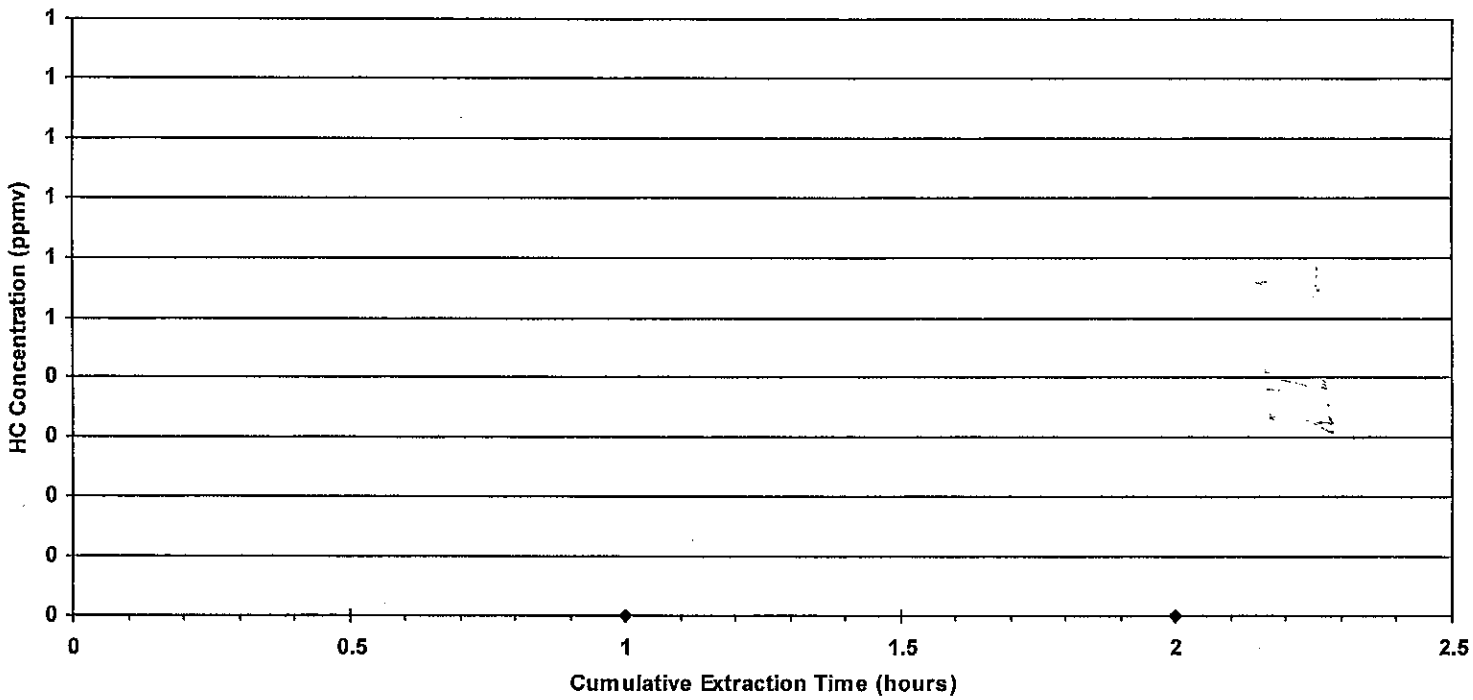


1. ppmv = parts per million by volume
2. The HC concentrations were measured using a Horiba MEXA-224GE field HC analyzer with a maximum range of 10,000 ppmv.

Graph 11
Well Hydrocarbon (HC) Concentration vs. Time

Former 76 Station 0353, Well VW-3C

9/26/2005 through 10/27/2005



1. ppmv = parts per million by volume
2. The HC concentrations were measured using a Horiba MEXA-224GE field HC analyzer with a maximum range of 10,000 ppmv.

TABLE 3
VAPOR EXTRACTION DATA - REBOUND TESTING
Former 76 Station 0353
Glendale, CA
11/14/2005 through 11/15/2005

Date and Time	Run Time (hours)	Vacuum (in. of Hg)	Total Well Flow (scfm)	Total Well Influent Concentration	Total System Flow (scfm)	System Influent Concentration (ppmv)	Effluent Concentration (ppmv)	Hydrocarbon (HC) Recovery		Extraction Wells Utilized
								Pounds	Gal.	
11/14/05 8:30	0.0	4.0			74	110		0.00	0.00	VW-1B, VW-2B, VW-3B
11/14/05 9:00	0.5	3.9			76	150		0.07	0.01	VW-1B, VW-2B, VW-3B
11/14/05 9:30	1.0	3.9			76	150		0.08	0.01	VW-1B, VW-2B, VW-3B
11/14/05 10:00	1.5	3.8			76	140		0.08	0.01	VW-1B, VW-2B, VW-3B
11/14/05 10:30	2.0	4.0			76	130		0.07	0.01	VW-1B, VW-2B, VW-3B
11/14/05 11:00	2.5	4.0			76	100		0.06	0.01	VW-1B, VW-2B, VW-3B
11/14/05 11:30	3.0	4.0			76	100		0.05	0.01	VW-1B, VW-2B, VW-3B
11/14/05 12:00	3.5	4.0			74	100		0.05	0.01	VW-1B, VW-2B, VW-3B
11/14/05 12:30	4.0	4.0			74	100		0.05	0.01	VW-1B, VW-2B, VW-3B
11/14/05 13:00	4.5	4.0			74	90		0.05	0.01	VW-1B, VW-2B, VW-3B
11/14/05 13:30	5.0	3.9			74	90		0.05	0.01	VW-1B, VW-2B, VW-3B
11/14/05 14:00	5.5	4.0			74	80		0.04	0.01	VW-1B, VW-2B, VW-3B
11/14/05 14:30	6.0	4.0			74	70		0.04	0.01	VW-1B, VW-2B, VW-3B
11/14/05 15:00	6.5	4.0			71	60		0.03	0.01	VW-1B, VW-2B, VW-3B
11/14/05 15:30	7.0	4.3			71	60		0.03	0.00	VW-1B, VW-2B, VW-3B
11/14/05 16:00	7.5	4.2			71	60		0.03	0.00	VW-1B, VW-2B, VW-3B
11/14/05 16:30	8.0	4.2			71	60		0.03	0.00	VW-1B, VW-2B, VW-3B
11/14/05 17:00	8.5	4.2			71	60		0.03	0.00	VW-1B, VW-2B, VW-3B
11/14/05 17:30	9.0	4.3			71	60		0.03	0.00	VW-1B, VW-2B, VW-3B
11/14/05 18:00	9.5	4.3			71	60		0.03	0.00	VW-1B, VW-2B, VW-3B
11/14/05 18:30	10.0	4.3			71	60		0.03	0.00	VW-1B, VW-2B, VW-3B
11/14/05 19:00	10.5	4.4			71	60		0.03	0.00	VW-1B, VW-2B, VW-3B
11/14/05 19:30	11.0	4.4			71	50		0.03	0.00	VW-1B, VW-2B, VW-3B
11/14/05 20:00	11.5	4.4			71	50		0.02	0.00	VW-1B, VW-2B, VW-3B
11/14/05 20:30	12.0	4.4			71	50	0	0.02	0.00	VW-1B, VW-2B, VW-3B
11/14/05 21:00	12.5	4.2			71	50		0.02	0.00	VW-1B, VW-2B, VW-3B
11/14/05 21:30	13.0	4.2			71	50		0.02	0.00	VW-1B, VW-2B, VW-3B
11/14/05 22:00	13.5	4.0			71	50		0.02	0.00	VW-1B, VW-2B, VW-3B
11/14/05 22:30	14.0	4.0			71	50		0.02	0.00	VW-1B, VW-2B, VW-3B
11/14/05 23:00	14.5	4.0			69	60		0.03	0.00	VW-1B, VW-2B, VW-3B
11/14/05 23:30	15.0	4.0			69	60		0.03	0.00	VW-1B, VW-2B, VW-3B
11/15/05 0:00	15.5	4.1			69	60		0.03	0.00	VW-1B, VW-2B, VW-3B
11/15/05 0:30	16.0	4.2			71	60		0.03	0.00	VW-1B, VW-2B, VW-3B
11/15/05 1:00	16.5	4.2			69	60		0.03	0.00	VW-1B, VW-2B, VW-3B

TABLE 3
VAPOR EXTRACTION DATA - REBOUND TESTING
Former 76 Station 0353
Glendale, CA
11/14/2005 through 11/15/2005

Date and Time	Run Time (hours)	Vacuum (in. of Hg)	Total Well Flow (scfm)	Total Well Influent Concentration	Total System Flow (scfm)	System Influent Concentration (ppmv)	Effluent Concentration (ppmv)	Hydrocarbon (HC) Recovery		Extraction Wells Utilized
								Pounds	Gal	
11/15/05 1:30	17.0	4.1			66	60		0.03	0.00	VW-1B, VW-2B, VW-3B
11/15/05 2:00	17.5	4.1			60	50		0.02	0.00	VW-1B, VW-2B, VW-3B
11/15/05 2:30	18.0	4.0			57	50		0.02	0.00	VW-1B, VW-2B, VW-3B
11/15/05 3:00	18.5	4.0			57	50		0.02	0.00	VW-1B, VW-2B, VW-3B
11/15/05 3:30	19.0	4.0			57	50		0.02	0.00	VW-1B, VW-2B, VW-3B
11/15/05 4:00	19.5	4.0			57	50		0.02	0.00	VW-1B, VW-2B, VW-3B
11/15/05 4:30	20.0	4.0			54	50		0.02	0.00	VW-1B, VW-2B, VW-3B
11/15/05 5:00	20.5	4.0			54	50		0.02	0.00	VW-1B, VW-2B, VW-3B
11/15/05 5:30	21.0	4.1			57	50		0.02	0.00	VW-1B, VW-2B, VW-3B
11/15/05 6:00	21.5	4.0			57	50		0.02	0.00	VW-1B, VW-2B, VW-3B
11/15/05 6:30	22.0	3.8			63	40		0.02	0.00	VW-1B, VW-2B, VW-3B
11/15/05 7:00	22.5	3.8			68	50		0.02	0.00	VW-1B, VW-2B, VW-3B
11/15/05 7:30	23.0	3.8			68	60		0.03	0.00	VW-1B, VW-2B, VW-3B
11/15/05 8:00	23.5	3.8			68	60		0.03	0.00	VW-1B, VW-2B, VW-3B
11/15/05 8:30	24.0	3.9			71	60		0.03	0.00	VW-1B, VW-2B, VW-3B
11/15/05 9:00	24.5	3.7			71	40		0.02	0.00	VW-1A, VW-2A, VW-3A
11/15/05 9:30	25.0	3.6			74	40		0.02	0.00	VW-1A, VW-2A, VW-3A
11/15/05 10:00	25.5	3.2			71	50		0.02	0.00	VW-1A, VW-2A, VW-3A
11/15/05 10:30	26.0	3.0			71	60		0.03	0.00	VW-1A, VW-2A, VW-3A
11/15/05 11:00	26.5	3.5			71	50		0.03	0.00	VW-1A, VW-2A, VW-3A
11/15/05 11:30	27.0	3.5			71	60		0.03	0.00	VW-1A, VW-2A, VW-3A
11/15/05 12:00	27.5	3.3			71	50		0.03	0.00	VW-1A, VW-2A, VW-3A
11/15/05 12:30	28.0	3.3			71	50		0.02	0.00	VW-1A, VW-2A, VW-3A
11/15/05 13:00	28.5	3.4			71	50		0.02	0.00	VW-1A, VW-2A, VW-3A
11/15/05 13:30	29.0	3.5			71	40		0.02	0.00	VW-1A, VW-2A, VW-3A
11/15/05 14:00	29.5	3.5			71	40		0.02	0.00	VW-1A, VW-2A, VW-3A
11/15/05 14:30	30.0	3.7			71	50		0.02	0.00	VW-1A, VW-2A, VW-3A
11/15/05 15:00	30.5	3.7			71	50		0.02	0.00	VW-1A, VW-2A, VW-3A
11/15/05 15:30	31.0	3.7			71	50		0.02	0.00	VW-1A, VW-2A, VW-3A
11/15/05 16:00	31.5	3.7			71	40		0.02	0.00	VW-1A, VW-2A, VW-3A
11/15/05 16:30	32.0	3.7			74	40		0.02	0.00	VW-1A, VW-2A, VW-3A
11/15/05 17:00	32.5	3.4			71	40		0.02	0.00	VW-1A, VW-2A, VW-3A
11/15/05 17:30	33.0	4.0			74	30		0.02	0.00	VW-1A, VW-2A, VW-3A
11/15/05 18:00	33.5	4.0			71	30		0.01	0.00	VW-1A, VW-2A, VW-3A
11/15/05 18:30	34.0	3.8			71	30		0.01	0.00	VW-1A, VW-2A, VW-3A
11/15/05 19:00	34.5	3.8			71	30		0.01	0.00	VW-1A, VW-2A, VW-3A

TABLE 3
VAPOR EXTRACTION DATA - REBOUND TESTING
Former 76 Station 0353
Glendale, CA
11/14/2005 through 11/15/2005

Date and Time	Run Time (hours)	Vacuum (in. of Hg)	Total Well Flow (scfm)	Total Well Influent Concentration	Total System Flow (scfm)	System Influent Concentration (ppmv)	Effluent Concentration (ppmv)	Hydrocarbon (HC) Recovery		Extraction Wells Utilized
								Pounds	Gal.	
11/15/05 19:30	35.0	3.8			74	40	0	0.02	0.00	VW-1A, VW-2A, VW-3A
11/15/05 20:00	35.5	3.8			71	30		0.02	0.00	VW-1A, VW-2A, VW-3A
11/15/05 20:30	36.0	3.8			74	30		0.01	0.00	VW-1A, VW-2A, VW-3A
11/15/05 21:00	36.5	3.8			71	30		0.01	0.00	VW-1A, VW-2A, VW-3A
						TOTAL HC RECOVERED		2	0	
						TOTAL LIQUID RECOVERED (GAL)			0	

in. of Hg = inches of Mercury
scfm = standard cubic feet per minute Gal. = gallons
ppmv = parts per million by volume HC = hydrocarbon(s)
HC recovered in gallons = (delta time in hours) x (average flow in scfm) x (average concentration in ppmv) x (1/1,000,000) x (86 lb/379 cuft) x (60min/hr) x (1 gallon/6.2475 lb)

TABLE 4
WELL PARAMETERS - REBOUND TESTING
Former 76 Station 0353
Glendale, CA
11/14/2005 through 11/15/2005

		VW-1A				VW-1B				VW-2A			
Date	Time	Stinger Depth (fbg)	Vacuum (in. Hg)	Influent Conc. (ppmv)	Flow Rate (scfm)	Stinger Depth (fbg)	Vacuum (in. Hg)	Influent Conc. (ppmv)	Flow Rate (scfm)	Stinger Depth (fbg)	Vacuum (in. Hg)	Influent Conc. (ppmv)	Flow Rate (scfm)
11/14/2005	9:00	--	--	--	--	0.1	8.0	140	66	--	--	--	--
11/14/2005	10:00	--	--	--	--	0.1	7.7	150	66	--	--	--	--
11/14/2005	11:00	--	--	--	--	0.1	7.5	100	66	--	--	--	--
11/14/2005	12:00	--	--	--	--	0.1	7.7	110	63	--	--	--	--
11/14/2005	13:00	--	--	--	--	0.1	7.8	90	63	--	--	--	--
11/14/2005	14:00	--	--	--	--	0.1	7.7	70	63	--	--	--	--
11/14/2005	15:00	--	--	--	--	0.1	7.7	70	60	--	--	--	--
11/14/2005	16:00	--	--	--	--	0.1	7.8	70	60	--	--	--	--
11/14/2005	17:00	--	--	--	--	0.1	8.2	60	57	--	--	--	--
11/14/2005	18:00	--	--	--	--	0.1	8.2	60	57	--	--	--	--
11/14/2005	19:00	--	--	--	--	0.1	8.2	60	60	--	--	--	--
11/14/2005	20:00	--	--	--	--	0.1	8.4	60	57	--	--	--	--
11/14/2005	21:00	--	--	--	--	0.1	8.2	50	57	--	--	--	--
11/14/2005	23:00	--	--	--	--	0.1	8.2	60	57	--	--	--	--
11/15/2005	0:00	--	--	--	--	0.1	8.1	60	57	--	--	--	--
11/15/2005	1:00	--	--	--	--	0.1	8.2	60	50	--	--	--	--
11/15/2005	2:00	--	--	--	--	0.1	8.4	60	47	--	--	--	--
11/15/2005	3:00	--	--	--	--	0.1	8.4	60	47	--	--	--	--
11/15/2005	4:00	--	--	--	--	0.1	8.2	50	50	--	--	--	--
11/15/2005	5:00	--	--	--	--	0.1	8.2	50	50	--	--	--	--
11/15/2005	6:00	--	--	--	--	0.1	8.4	50	54	--	--	--	--
11/15/2005	7:00	--	--	--	--	0.1	8.0	50	57	--	--	--	--
11/15/2005	8:00	--	--	--	--	0.1	8.0	50	57	--	--	--	--
11/15/2005	8:30	--	--	--	--	0.1	8.0	60	60	--	--	--	--
11/15/2005	9:30	0.1	7.9	50	57	--	--	--	--	0.1	6.5	50	57
11/15/2005	10:30	0.1	7.8	60	60	--	--	--	--	0.1	6.3	70	63

TABLE 4
WELL PARAMETERS - REBOUND TESTING
Former 76 Station 0353
Glendale, CA
11/14/2005 through 11/15/2005

		VW-1A				VW-1B				VW-2A			
Date	Time	Stinger Depth (fbg)	Vacuum (in. Hg)	Influent Conc. (ppmv)	Flow Rate (scfm)	Stinger Depth (fbg)	Vacuum (in. Hg)	Influent Conc. (ppmv)	Flow Rate (scfm)	Stinger Depth (fbg)	Vacuum (in. Hg)	Influent Conc. (ppmv)	Flow Rate (scfm)
11/15/2005	11:30	0.1	7.8	60	57	--	--	--	--	0.1	6.1	60	63
11/15/2005	12:30	0.1	7.7	50	57	--	--	--	--	0.1	6.3	40	63
11/15/2005	13:30	0.1	7.6	40	57	--	--	--	--	0.1	6.3	40	63
11/15/2005	15:00	0.1	7.7	50	60	--	--	--	--	0.1	6.0	50	63
11/15/2005	16:00	0.1	7.8	40	60	--	--	--	--	0.1	6.3	50	63
11/15/2005	17:00	0.1	8.3	40	57	--	--	--	--	0.1	6.6	40	63
11/15/2005	18:00	0.1	8.2	30	57	--	--	--	--	0.1	6.7	30	63
11/15/2005	19:00	0.1	8.2	40	57	--	--	--	--	0.1	6.7	30	63
11/15/2005	20:00	0.1	8.3	30	57	--	--	--	--	0.1	6.7	40	63
11/15/2005	21:00	0.1	8.2	30	57	--	--	--	--	0.1	6.7	40	63

fbg = feet below ground
in. Hg = inches of mercury
Conc. = concentration
ppmv = parts per million by volume
scfm = standard cubic feet per minute

TABLE 4
WELL PARAMETERS - REBOUND TESTING
Former 76 Station 0353
Glendale, CA
11/14/2005 through 11/15/2005

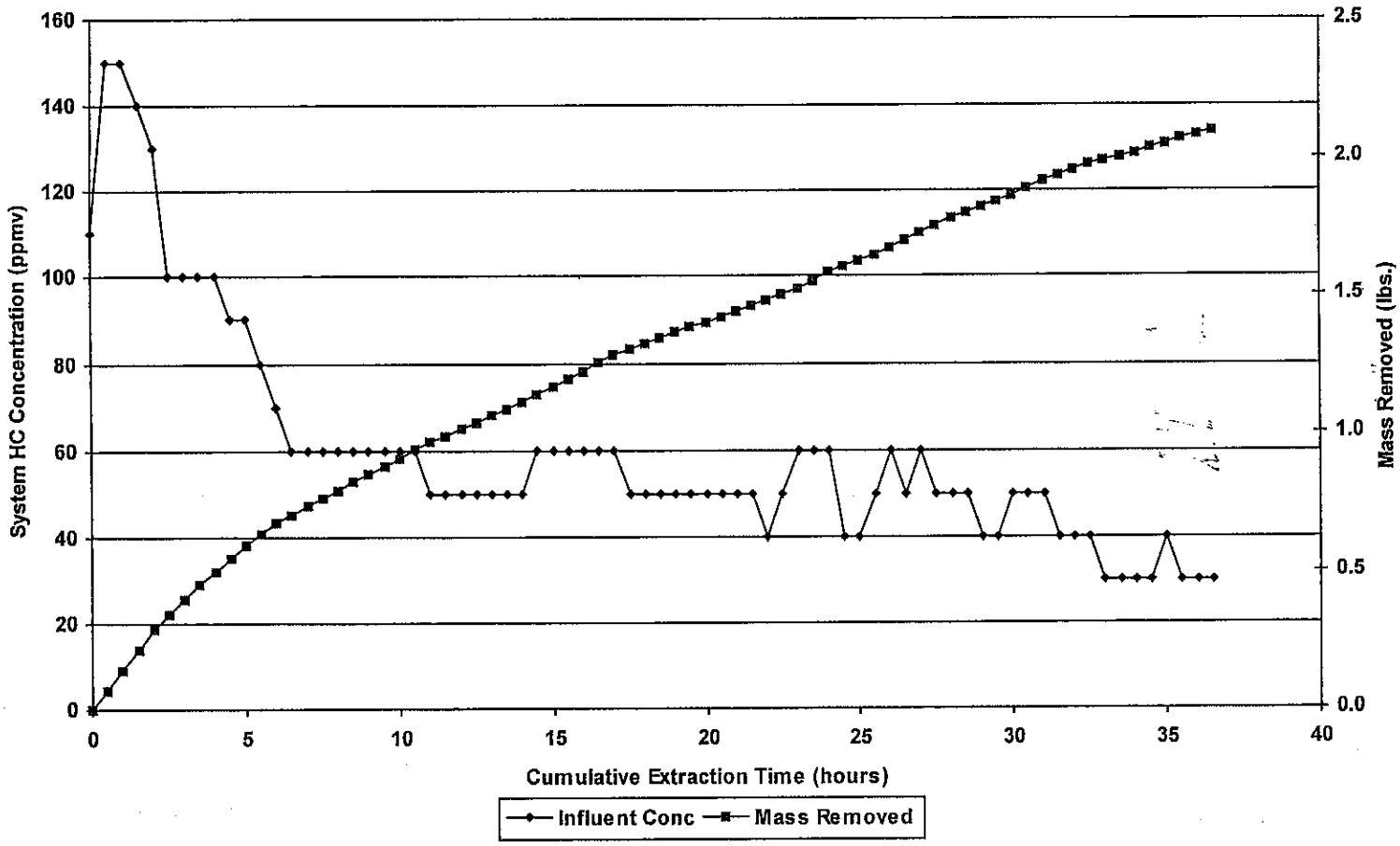
		VW-2B				VW-3A				VW-3B			
Date	Time	Stinger Depth (fbg)	Vacuum (in. Hg)	Influent Conc. (ppmv)	Flow Rate (scfm)	Stinger Depth (fbg)	Vacuum (in. Hg)	Influent Conc. (ppmv)	Flow Rate (scfm)	Stinger Depth (fbg)	Vacuum (in. Hg)	Influent Conc. (ppmv)	Flow Rate (scfm)
11/14/2005	9:00	0.1	7.0	170	68	--	--	--	--	0.1	7.6	100	66
11/14/2005	10:00	0.1	6.5	160	68	--	--	--	--	0.1	7.3	110	66
11/14/2005	11:00	0.1	6.6	120	67	--	--	--	--	0.1	7.3	110	66
11/14/2005	12:00	0.1	6.5	110	68	--	--	--	--	0.1	7.3	110	66
11/14/2005	13:00	0.1	6.5	100	68	--	--	--	--	0.1	7.2	90	66
11/14/2005	14:00	0.1	6.8	80	67	--	--	--	--	0.1	8.1	70	64
11/14/2005	15:00	0.1	6.7	70	63	--	--	--	--	0.1	8.0	70	60
11/14/2005	16:00	0.1	6.7	70	63	--	--	--	--	0.1	7.8	70	60
11/14/2005	17:00	0.1	7.2	60	63	--	--	--	--	0.1	8.0	70	60
11/14/2005	18:00	0.1	7.0	60	63	--	--	--	--	0.1	7.8	60	60
11/14/2005	19:00	0.1	7.2	70	63	--	--	--	--	0.1	8.2	60	60
11/14/2005	20:00	0.1	7.2	60	63	--	--	--	--	0.1	8.4	50	57
11/14/2005	21:00	0.1	7.2	50	63	--	--	--	--	0.1	8.0	50	57
11/14/2005	23:00	0.1	7.2	70	63	--	--	--	--	0.1	8.1	60	57
11/15/2005	0:00	0.1	7.2	70	63	--	--	--	--	0.1	8.0	60	57
11/15/2005	1:00	0.1	7.0	60	57	--	--	--	--	0.1	8.0	60	50
11/15/2005	2:00	0.1	7.1	60	54	--	--	--	--	0.1	7.9	50	47
11/15/2005	3:00	0.1	7.0	50	50	--	--	--	--	0.1	8.0	60	50
11/15/2005	4:00	0.1	7.0	60	50	--	--	--	--	0.1	8.0	50	50
11/15/2005	5:00	0.1	7.0	60	50	--	--	--	--	0.1	8.0	50	54
11/15/2005	6:00	0.1	7.2	50	57	--	--	--	--	0.1	8.1	50	57
11/15/2005	7:00	0.1	7.1	50	60	--	--	--	--	0.1	7.7	60	57
11/15/2005	8:00	0.1	7.0	60	60	--	--	--	--	0.1	7.6	60	57
11/15/2005	8:30	0.1	7.0	70	63	--	--	--	--	0.1	8.0	70	57
11/15/2005	9:30	--	--	--	--	0.1	8.0	50	57	--	--	--	--
11/15/2005	10:30	--	--	--	--	0.1	7.7	60	60	--	--	--	--

TABLE 4
WELL PARAMETERS - REBOUND TESTING
Former 76 Station 0353
Glendale, CA
11/14/2005 through 11/15/2005

		VW-2B				VW-3A				VW-3B			
Date	Time	Stinger Depth (fbg)	Vacuum (in. Hg)	Influent Conc. (ppmv)	Flow Rate (scfm)	Stinger Depth (fbg)	Vacuum (in. Hg)	Influent Conc. (ppmv)	Flow Rate (scfm)	Stinger Depth (fbg)	Vacuum (in. Hg)	Influent Conc. (ppmv)	Flow Rate (scfm)
11/15/2005	11:30	--	--	--	--	0.1	7.8	60	57	--	--	--	--
11/15/2005	12:30	--	--	--	--	0.1	7.5	50	57	--	--	--	--
11/15/2005	13:30	--	--	--	--	0.1	7.5	40	60	--	--	--	--
11/15/2005	15:00	--	--	--	--	0.1	7.5	40	60	--	--	--	--
11/15/2005	16:00	--	--	--	--	0.1	8.4	40	63	--	--	--	--
11/15/2005	17:00	--	--	--	--	0.1	8.2	40	60	--	--	--	--
11/15/2005	18:00	--	--	--	--	0.1	8.2	30	60	--	--	--	--
11/15/2005	19:00	--	--	--	--	0.1	8.2	40	60	--	--	--	--
11/15/2005	20:00	--	--	--	--	0.1	8.3	30	60	--	--	--	--
11/15/2005	21:00	--	--	--	--	0.1	8.2	30	60	--	--	--	--

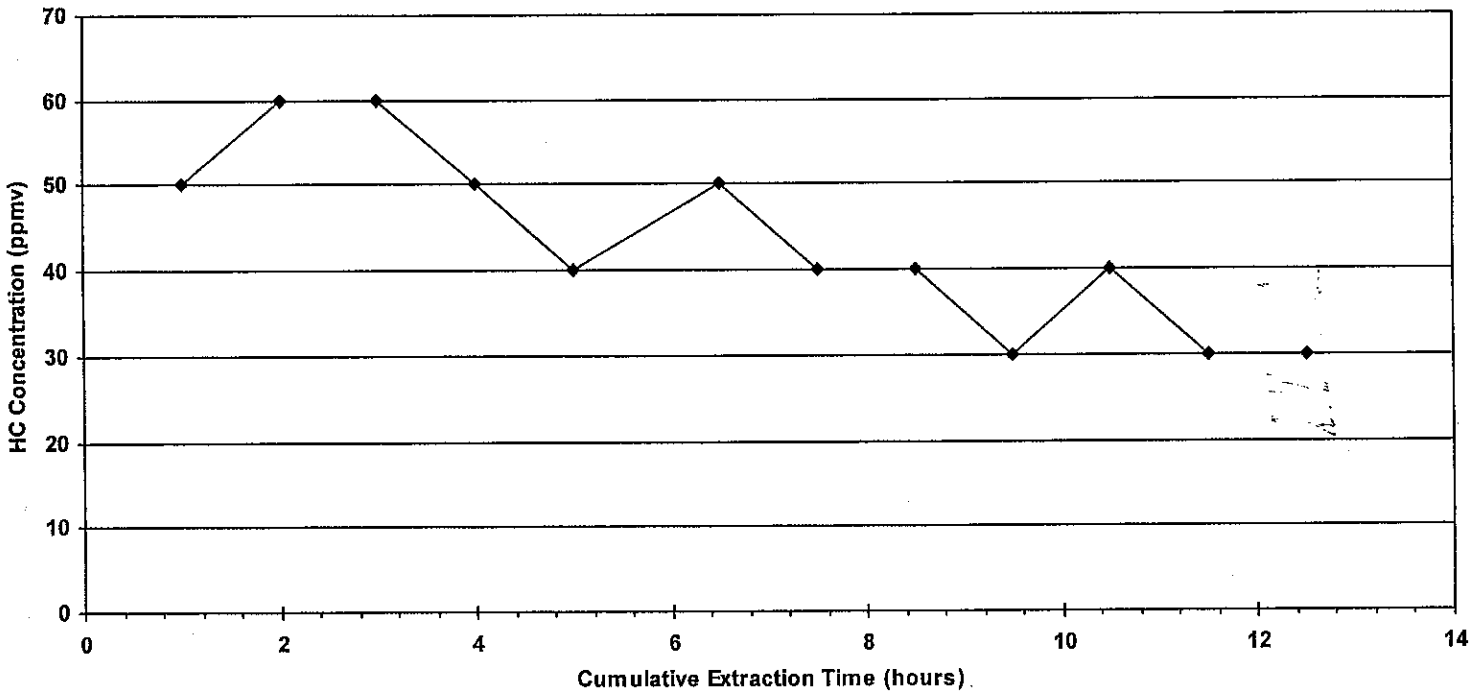
fbg = feet below ground
in. Hg = inches of mercury
Conc. = concentration
ppmv = parts per million by volume
scfm = standard cubic feet per minute

Graph 12
System Hydrocarbon (HC) and Cumulative HC removed vs. Time
Former 76 Station 0353
11/14/2005 through 11/15/2005



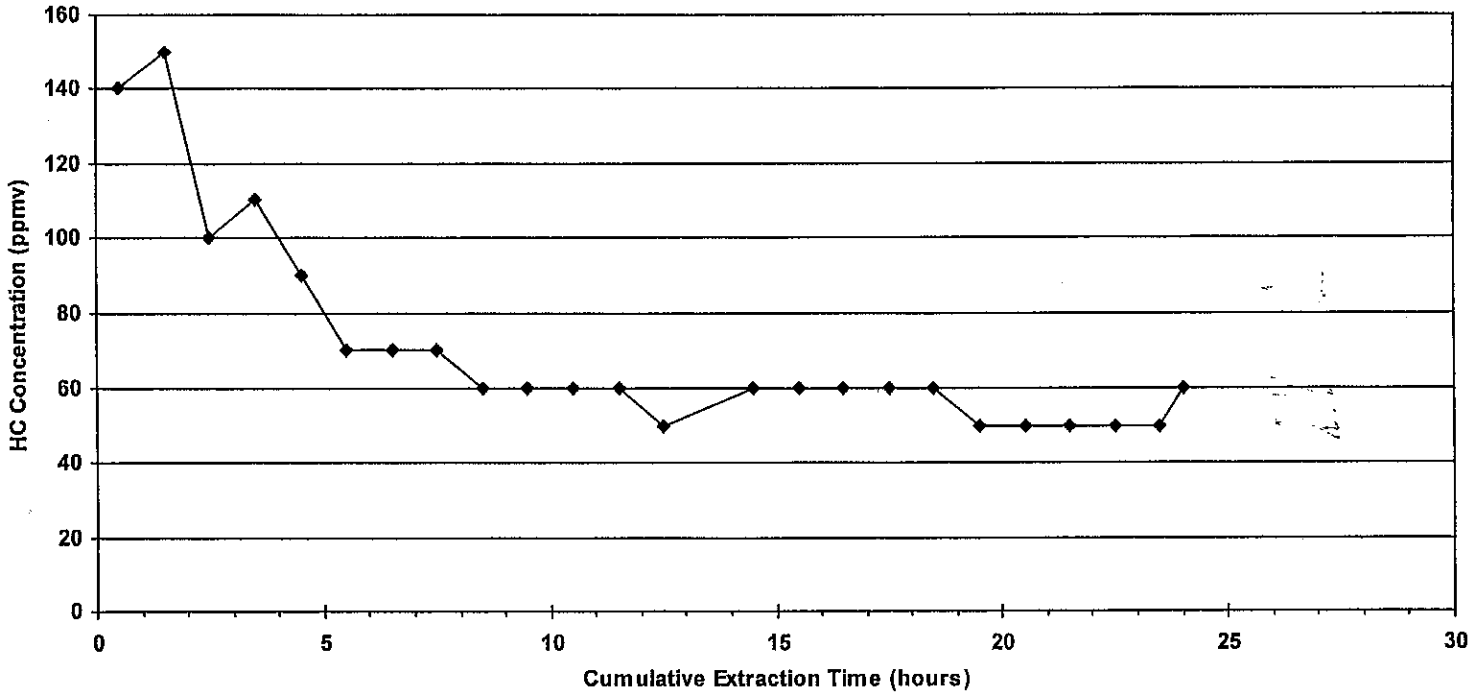
1. ppmv = parts per million by volume
2. lbs. = pounds
3. Conc = concentration
4. The HC concentrations were measured using a Horiba MEXA-224GE field HC analyzer.

Graph 13
Well Hydrocarbon (HC) Concentration vs. Time
Former 76 Station 0353, Well VW-1A
11/14/2005 through 11/15/2005



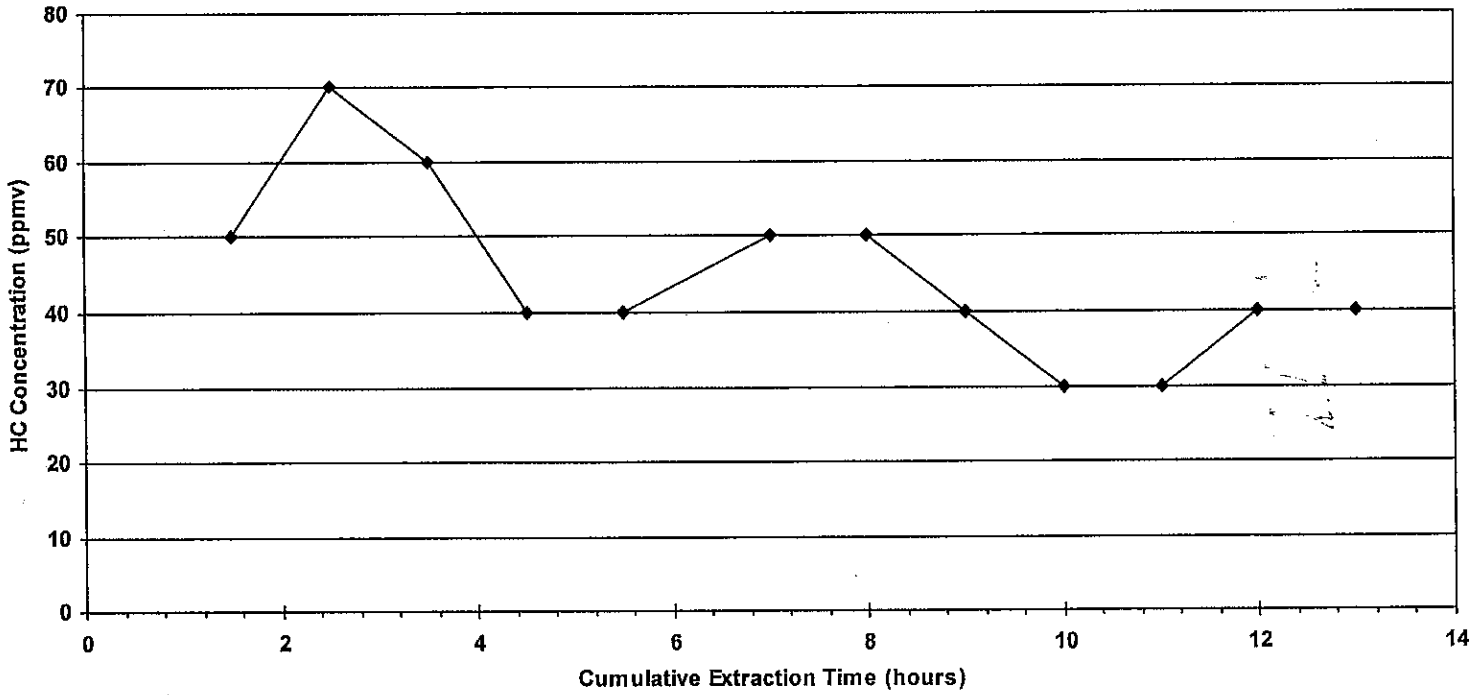
1. ppmv = parts per million by volume
2. The HC concentrations were measured using a Horiba MEXA-224GE field HC analyzer with a maximum range of 10,000 ppmv.

Graph 14
Well Hydrocarbon (HC) Concentration vs. Time
Former 76 Station 0353, Well VW-1B
11/14/2005 through 11/15/2005



1. ppmv = parts per million by volume
2. The HC concentrations were measured using a Horiba MEXA-224GE field HC analyzer with a maximum range of 10,000 ppmv.

Graph 15
Well Hydrocarbon (HC) Concentration vs. Time
Former 76 Station 0353, Well VW-2A
11/14/2005 through 11/15/2005

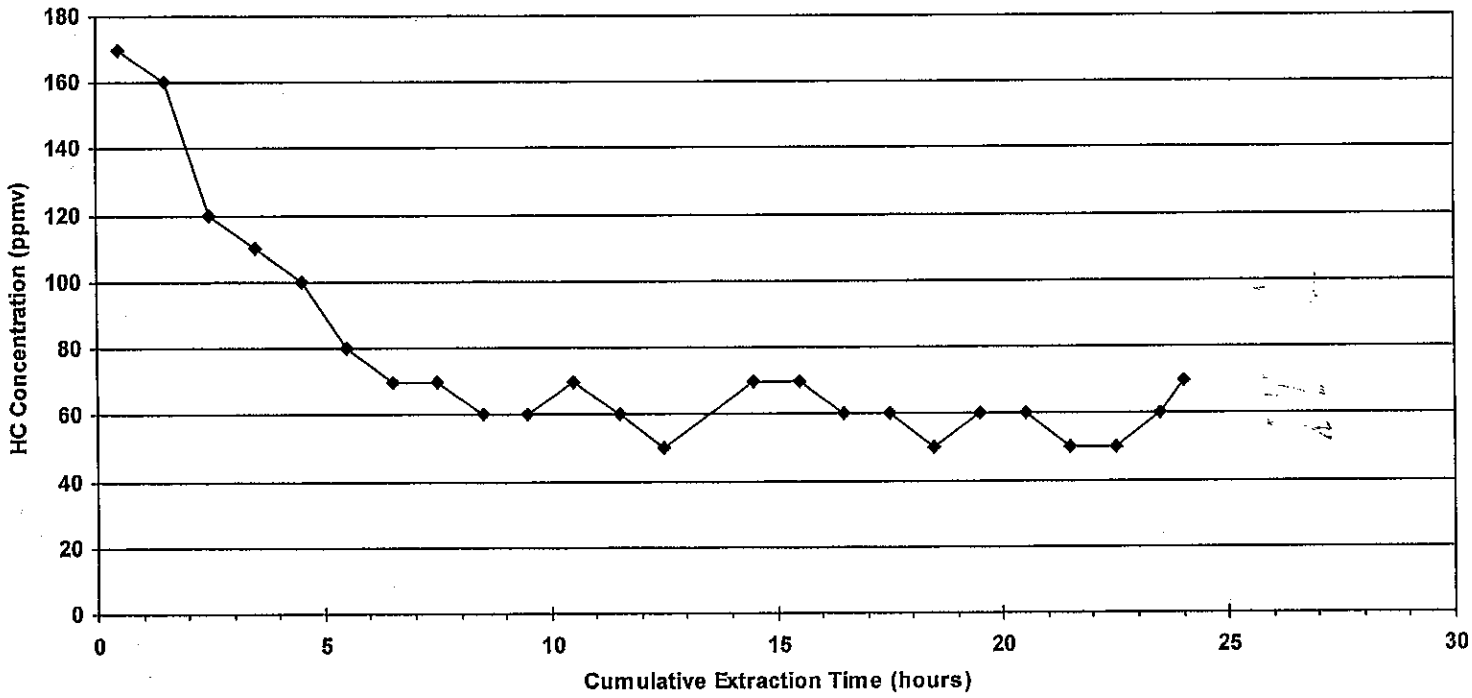


1. ppmv = parts per million by volume
2. The HC concentrations were measured using a Horiba MEXA-224GE field HC analyzer with a maximum range of 10,000 ppmv.

Graph 16
Well Hydrocarbon (HC) Concentration vs. Time

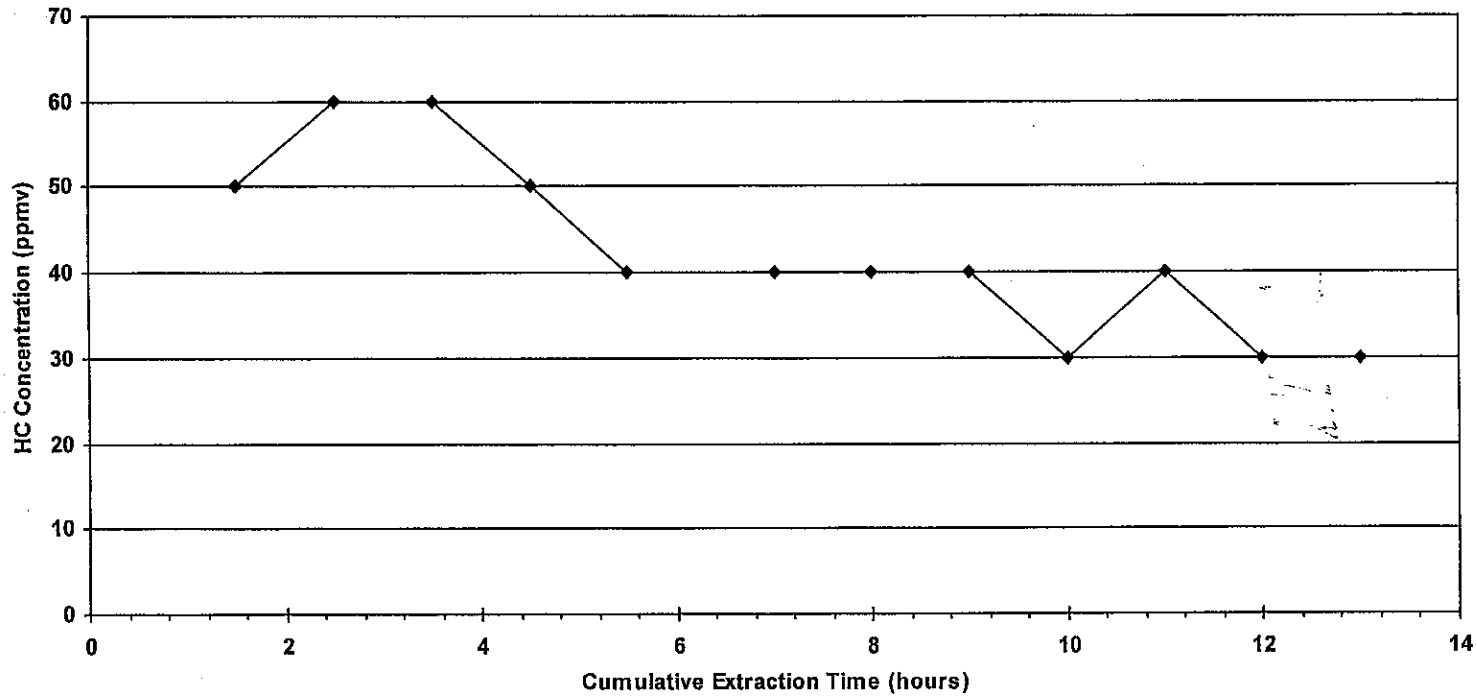
Former 76 Station 0353, Well VW-2B

11/14/2005 through 11/15/2005



1. ppmv = parts per million by volume
2. The HC concentrations were measured using a Horiba MEXA-224GE field HC analyzer with a maximum range of 10,000 ppmv.

Graph 17
Well Hydrocarbon (HC) Concentration vs. Time
Former 76 Station 0353, Well VW-3A
11/14/2005 through 11/15/2005

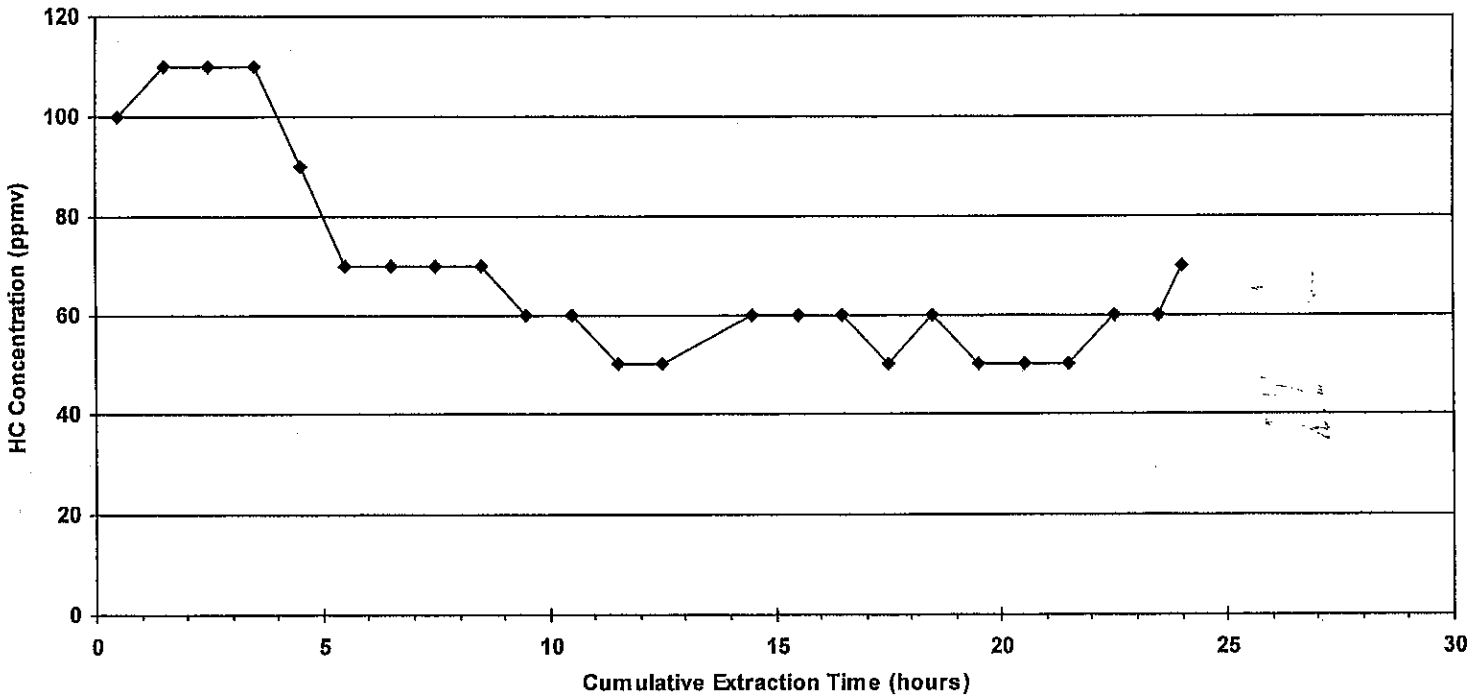


1. ppmv = parts per million by volume
2. The HC concentrations were measured using a Horiba MEXA-224GE field HC analyzer with a maximum range of 10,000 ppmv.

Graph 18
Well Hydrocarbon (HC) Concentration vs. Time

Former 76 Station 0353, Well VW-3B

11/14/2005 through 11/15/2005



1. ppmv = parts per million by volume
2. The HC concentrations were measured using a Horiba MEXA-224GE field HC analyzer with a maximum range of 10,000 ppmv.

MAJOR DIVISIONS				TYPICAL NAMES
COARSE-GRAINED SOILS MORE THAN HALF IS LARGER THAN NO. 200 SIEVE	GRAVELS MORE THAN HALF COARSE FRACTION IS LARGER THAN NO. 4 SIEVE SIZE	CLEAN GRAVELS WITH LITTLE OR NO FINES	GW	WELL-GRADED GRAVELS, GRAVEL-SAND MIXTURES
			GP	POORLY GRADED GRAVELS, GRAVEL-SAND MIXTURES
		GRAVEL WITH OVER 12% FINES	GM	SILTY GRAVELS, POORLY GRADED GRAVEL-SAND-SILT MIXTURES
			GC	CLAYEY GRAVELS, POORLY GRADED GRAVEL-SAND-CLAY MIXTURES
	SANDS MORE THAN HALF COARSE FRACTION IS SMALLER THAN NO. 4 SIEVE SIZE	CLEAN SANDS WITH LITTLE OR NO FINES	SW	WELL-GRADED SANDS, GRAVELLY SANDS
			SP	POORLY GRADED SANDS, GRAVELLY SANDS
		SANDS WITH OVER 12% FINES	SM	SILTY SANDS, POORLY GRADED SAND-SILT MIXTURES
			SC	CLAYEY SANDS, POORLY GRADED SAND-CLAY MIXTURES
FINE-GRAINED SOIL MORE THAN HALF IS SMALLER THAN NO. 200 SIEVE	SILTS AND CLAYS LIQUID LIMIT 50% OR LESS		ML	INORGANIC SILTS AND VERY FINE SANDS
			CL	INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, L. CLAYS
			OL	ORGANIC CLAYS AND ORGANIC SILTY CLAYS OF LOW PLASTICITY
	SILTS AND CLAYS LIQUID LIMIT GREATER THAN 50%		MH	INORGANIC SILTS, MICACEOUS OR DIATOMACEOUS FINE SANDY OR SILTY SOILS, ELASTIC SILTS
			CH	INORGANIC CLAYS OF HIGH PLASTICITY, FAT CLAYS
			OH	ORGANIC CLAYS OF MEDIUM TO HIGH PLASTICITY, ORGANIC SILTS
HIGHLY ORGANIC SOILS			PT	PEAT AND OTHER HIGHLY ORGANIC SOILS

- "UNDISTURBED" SPLIT-SPOON OR SHELBY TUBE SAMPLE
- BULK OR CLASSIFICATION SAMPLE
- STANDARD PENETRATION TEST SAMPLE
- NO SAMPLE RECOVERED
- CORE SAMPLE
- DEPTH TO FIRST GROUND WATER ENCOUNTERED
- DEPTH TO STABILIZED GROUND WATER

HC ODOR - HYDROCARBON ODOR

NO - NO ODOR
LO - SLIGHT ODOR
MD - MODERATE ODOR
SG - STRONG ODOR

VOC (PPM) - VOLATILE ORGANIC COMPOUND VAPOR CONCENTRATIONS IN PARTS PER MILLION DETECTED BY PHOTOIONIZATION DETECTOR OR ORGANIC VAPOR ANALYZER

BLOWS/6" - BLOWS REQUIRED TO DRIVE SAMPLER 6 INCHES WITH A 140-POUND HAMMER FALLING 30 INCHES

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PROJECT NO.: 10902203
NAME & LOCATION:
UNOCAL SS 0353
200 SOUTH CENTRAL AVENUE
GLENDALE, CALIFORNIA

KEY TO BORING LOG

LOG OF BORING

VOC (PID)	HC ODOR	BLOWS/6"	GROUND WATER LEVELS	DEPTH FT	SAMPLE	WELL CONSTRUCTION DETAIL	USCS	DESCRIPTION
								6" concrete
								FILL – Sand and pea gravel to approximately 15' bgs.
				10				
								SILTY SAND
				20				SAND, brown, fine to coarse, some fine gravel, poorly sorted, dense, damp
				30				
166	MOD	50					SW	SAND, brown, fine to coarse sand and gravel, dense, damp
1,324	MOD	21/50		40			SW	
1,622	SG	28/50					SW	
72,000	SG	50		50				NO RECOVERY AT 50'
72,000	SG	50					SM	SILTY SAND, brown, fine to coarse sand, some fine gravel, dense, damp
117	MOD	16/17/19		60			SW	SAND, light brown, fine to coarse, some fine gravel, dense, damp
84	MOD	50					SM	SILTY SAND
56	MOD	50		70			SW	SAND
38	MOD	23/50					SP	SAND, light brown, fine, well-sorted, 2% fine gravel, dense, damp
				80				
53								
37								SAND, light brown, fine to coarse, poorly sorted
				90				
								SILTY SAND
26								
21			▼	100				CLAYED SAND, moist
								SAND, light brown, fine to coarse, poorly sorted, some fine gravel, dense, saturated
				110				SILTY SAND, fine to coarse sand, fine gravel, saturated
				120				
				130				End of boring at 130' bgs; encountered groundwater at approximately 100' bgs; used 8" augers to 100' bgs; overdrilled 11" augers from 0–130' bgs; set 4" pvc groundwater monitoring well.
				140				
				150				

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PROJECT NO. 10902203
NAME & LOCATION: UNOCAL SS 0353
200 SOUTH CENTRAL AVENUE
GLENDALE, CALIFORNIA

LOGGED BY: ROBIN KIM
QC BY: VH
DATE: 08/10/04 & 08/11/04

BORING NO. MW-1

PAGE: 1 OF 1
ELEVATION: 518.789' MSL
EQUIPMENT: HSA
DRILLED BY: WDC

LOG OF BORING

VOC (PID)	HC ODOR	BLOWS/6"	GROUND WATER LEVELS	DEPTH FT	SAMPLE	WELL CONSTRUCTION DETAIL	USCS	DESCRIPTION
								6" concrete
				10				NOTE: LOGGED ON DRILLING CUTTINGS
0	NO			20				SAND, brown, fine to coarse with fine gravel, poorly sorted, dense, damp
6.5	NO			30				GRAVELLY SAND, brown, fine to coarse sand and gravel, very poorly sorted, very dense, damp
	NO			40				
	NO			50				SAND, brown, fine to coarse, some fine gravel
	NO			60				fine to coarse gravel increase, very dense
	NO	50/6		70			SW	SAND, brown, mostly fine to medium, with some coarse sand and fine gravel, poorly sorted, dense, damp
				80				
				90				
			▼	100				SILTY SAND, brown, some fine gravel
				110				
				120				End of boring at 120' bgs; encountered groundwater at approximately 100' bgs; used 8" augers to 100'bgs; overdrilled with 11" augers from 0–120' bgs; set 4" pvc groundwater monitoring well.
				130				
				140				
				150				

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PROJECT NO. 10902203
NAME & LOCATION: UNOCAL SS 0353
200 SOUTH CENTRAL AVENUE
GLENDALE, CALIFORNIA

LOGGED BY: ROBIN KIM
QC BY: VH
DATE: 08/04/04 & 08/05/04

BORING NO. MW-2

PAGE: 1 OF 1
ELEVATION: 518.179' MSL
EQUIPMENT: HSA
DRILLED BY: WDC

LOG OF BORING

VOC (PID)	HC ODOR	BLOWS/6"	GROUND WATER LEVELS	DEPTH FT	SAMPLE	WELL CONSTRUCTION DETAIL	USCS	DESCRIPTION
	NO							6" concrete
53								SAND, brown, fine to coarse with fine gravel, some fines, poorly sorted, loose, slightly damp
85	NO			10				some coarse gravel
0	NO			20				
0	NO							some
0	NO			30				
								more coarse gravel, dense
				40				
0				50				SILTY SAND, brown, with fine gravel, medium dense
0								
	SL			60				
0	SL	20/50					SW	SAND, light yellow-brown, fine to coarse, moderate sorting, dense, damp
185	MOD	50		70			SM	SILTY SAND, light brown, fine to coarse sand, fine gravel, dense, damp
7.9	SL	50					SP	SAND, light brown, mostly fine to medium, dense, well sorted, damp
369	SG	50		80			SM	SILTY SAND, light brown, fine to coarse, fine gravel
82.3	SL	50					SM	mostly fine to medium sand
136	SL	50		90			SM	some clay
130	NO	23/50					SW/SM	SAND/SILTY SAND, fine to coarse sand, fine gravel
104	NO	20/50	▼	100				mostly fine to medium sand, some coarse sand and fine gravel
				110				
				120				End of boring at 120' bgs; encountered groundwater at approximately 100' bgs; used 8" augers to 100'bgs; overdrilled with 11" augers from 0-120' bgs; set 4" pvc groundwater monitoring well.
				130				
				140				
				150				

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PROJECT NO. 10902203
NAME & LOCATION: UNOCAL SS 0353
200 SOUTH CENTRAL AVENUE
GLENDALE, CALIFORNIA

LOGGED BY: ROBIN KIM
QC BY: VH
DATE: 08/03/04

BORING NO. MW-3

PAGE: 1 OF 1
ELEVATION: 517.756' MSL
EQUIPMENT: HSA
DRILLED BY: WDC

LOG OF BORING

VOC (PID)	HC ODOR	BLOWS/6"	GROUND WATER LEVELS	DEPTH FT	SAMPLE	WELL CONSTRUCTION DETAIL	USCS	DESCRIPTION
								4" asphalt
0								SILTY SAND, brown, mostly fine to medium sand with approximately 3% fine to coarse gravel, medium dense, damp
0				10				
0								
0				20				SAND, brown, fine to coarse sand and gravel, some fines, medium dense, damp
0								
3				30				GRAVELLY SAND, brown, fine to coarse sand and gravel, approximately 30% coarse gravel, poorly sorted, very dense
0								
0				40				
0								coarse gravel decrease
0				50				SAND, brown, mostly fine to medium with fine gravel
0								SILTY SAND, brown, fine to coarse, 2% fine gravel
0				60				
0								
0				70				SAND, brown, mostly fine to medium, some coarse sand and gravel, dense, damp
0								
0				80				
0								
0				90				some coarse gravel
0								
0	NO	30/50	▼	100				SAND, brown, fine to coarse sand and gravel, poorly sorted, dense, moist to wet
								CLAYBY/SILTY SAND, saturated with fine gravel
				110				some
				120				End of boring at 120' bgs; encountered groundwater at approximately 100' bgs; used 8" augers to 100'bgs; overdrilled with 11" augers from 0–120' bgs; set 4" pvc groundwater monitoring well.
				130				
				140				NOTE: BORING LOG BASED ON DRILLING CUTTINGS
				150				

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PROJECT NO.	10902203	BORING NO.	MW-4
NAME & LOCATION:	UNOCAL SS 0353 200 SOUTH CENTRAL AVENUE GLENDALE, CALIFORNIA	PAGE:	1 OF 1
		ELEVATION:	517.310' MSL
LOGGED BY:	ROBIN KIM	EQUIPMENT:	HSA
QC BY:	VH	DRILLED BY:	WDC
DATE:	08/06/04 & 08/09/04		

LOG OF BORING

VOC (PID)	HC ODOR	BLOWS/6"	GROUND WATER LEVELS	DEPTH FT	SAMPLE	WELL CONSTRUCTION DETAIL	USCS	DESCRIPTION
								3" asphalt
0	NO							SAND, brown, mostly fine, some coarse sand and fine gravel, moderate sorting, damp
0	NO			10				fine to coarse gravel increase
0	NO							gravel decrease
28.5	NO			20				GRAVELLY SAND, brown, fine to coarse sand and gravel, poorly sorted, dense, damp
19.6	NO							cobbles to 4"
124.0	NO			30				SAND AND GRAVEL, 50/50
93.2	NO							cobbles to 4"
105	NO			40				SAND, brown fine to coarse sand and gravel, mostly fine gravel, dense, damp
36.4	NO							
80	NO			50				
186	NO							tried to sample, but "No Recovery" at 55' bgs.
73.6	NO			60				SAND, brown, fine to coarse, some fine gravel
12.3	NO							SILTY SAND, gray–brown, fine to coarse sand, some clay
34.3	NO			70				fine gravel
53.6	NO							
73.1	NO			80				
	NO							SAND, gray–brown, fine to coarse with fine gravel
	NO			90				
			▼	100				
				110				
				120				End of boring at 120' bgs; encountered groundwater at approximately 100' bgs; used 11" augers from 0–120' bgs; set 4" pvc groundwater monitoring well.
				130				
				140				
								NOTE: BORING LOG BASED ON DRILLING CUTTINGS
				150				

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PROJECT NO.	10902203	BORING NO.	MW-5
NAME & LOCATION:	UNOCAL SS 0353 200 SOUTH CENTRAL AVENUE GLENDALE, CALIFORNIA	PAGE:	1 OF 1
		ELEVATION:	516.647' MSL
LOGGED BY:	ROBIN KIM	EQUIPMENT:	HSA
QC BY:	VH	DRILLED BY:	WDC
DATE:	08/02/04		

LOG OF BORING

VOC (PID)	HC ODOR	BLOWS/6"	GROUND WATER LEVELS	DEPTH FT	SAMPLE	WELL CONSTRUCTION DETAIL	USCS	DESCRIPTION
								3" – 4" asphalt
9.7	N							
0.1	N			10				SAND, brown, fine to coarse with some fine to coarse gravel
								augers grinding
9.2	N			20				GRAVELLY SAND, fine to coarse sand and gravel; cobbles to 3"; poorly sorted, loose, damp
1.7	N			30				
								– same
1.3	N			40				~ 30% fine to coarse gravel
4.1	N			50				– same
0.1	N			60				SAND, brown, mostly fine with some coarse sand and fine gravel
7.0	N			70				– mostly fine to medium sand with some fine to coarse gravel
5.7	N			80				SAND, brown, mostly fine with some fine gravel, moderate sorting
4.0	N			90				SILTY SAND, brown, fine sand
10.1	N		▼	100				SAND, fine to coarse sand and gravel with fines, very poorly sorted
1.1	N	60/19/25					SM	SILTY SAND, brown, fine sand and gravel, medium dense, moist
14.6	N			110				CLAYEY, SILTY SAND, with fine gravel, saturated
				120				End of boring at 123' bgs; encountered groundwater at approximately 102.5' bgs; set 4" pvc groundwater monitoring well at 120' bgs.
				130				
				140				
				150				

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TEL: (818) 246-4499 FAX: (818) 246-4362

PROJECT NO.	10902204	BORING NO.	MW-6
NAME & LOCATION:	UNOCAL SS 0353 200 SOUTH CENTRAL AVENUE GLENDALE, CALIFORNIA	PAGE:	
LOGGED BY:	ROBIN KIM	ELEVATION:	
QC BY:	VH	EQUIPMENT:	CME 85
DATE:	12/16/04	DRILLED BY:	WEST HAZMAT

LOG OF BORING

VOC (PID)	HC ODOR	BLOWS/6"	GROUND WATER LEVELS	DEPTH FT	SAMPLE	WELL CONSTRUCTION DETAIL	USCS	DESCRIPTION
								4"–6" asphalt
22.4	N							SAND, brown, fine–grained, with some coarse gravel and cobbles to 3", poorly sorted, loose, damp
40.2	N			10				
26.8	N			20				SAND, fine to coarse sand and gravel
				30				GRAVELLY SAND, fine to coarse sand and gravel with cobbles
29.6	N			40				
31.7	N			50				– same, but no cobbles
20.5	N			60				SILTY SAND, fine to coarse sand and some fine gravel
				70				
32.6	N			80				– same, but with some coarse gravel
36.9	N			90				SAND, mostly fine, with some fine gravel
34.7	N		▼	100				SAND, light brown, mostly fine to medium, moderate sorting
20.1	N	13/19/21					SM	SILTY SAND, brown, fine to coarse sand and some fine gravel, some clay, poorly sorted, medium dense, moist to wet
48.2	N			110				SAND, fine to coarse, saturated
1.2	N			120				End of boring at 123' bgs; encountered groundwater at approximately 105' bgs; set 4" pvc groundwater monitoring well at 120' bgs.
				130				
				140				
				150				

EP ASSOCIATES
1111 NORTH BRAND BOULEVARD, SUITE 405
GLENDALE, CALIFORNIA 91202
TEL: (818) 246-4499 FAX: (818) 246-4362

PROJECT NO. 10902204
NAME & LOCATION: UNOCAL SS 0353
200 SOUTH CENTRAL AVENUE
GLENDALE, CALIFORNIA

LOGGED BY: ROBIN KIM
QC BY: VH
DATE: 12/15/04

BORING NO. MW-7

PAGE:
ELEVATION:
EQUIPMENT: CME 85
DRILLED BY: WEST HAZMAT

LOG OF BORING

VOC (PID)	HC ODOR	BLOWS/6"	GROUND WATER LEVELS	DEPTH FT	SAMPLE	WELL CONSTRUCTION DETAIL	USCS	DESCRIPTION
								6" asphalt
28.6	N							SAND, tan, fine to coarse, loose, damp
43.1	N			10				– some fine to coarse gravel
39.5	N			20				– some fine gravel
37.7	N			30				– same
36.8	N			40				– same
29.6	N			50				SILTY SAND, brown, fine to coarse sand with fine gravel
31.6	N			60				SAND, fine to coarse with fine gravel
23.5	N			70				SILTY SAND, fine to coarse sand, no gravel, damp
24.6	N			80				SILTY SAND, mostly fine sand
22.2	N			90				– same
23.8	N		▼	100				SILTY SAND, fine to coarse sand and some fine gravel
23.6	N						SM/SC	SILTY SAND/CLAYEY SAND, brown, mostly fine to medium sand, dense, moist
26.7	N			110				– same but saturated
29.4	N			120				– same
								End of boring at 123' bgs; encountered groundwater at approximately 105' bgs; set 4" pvc groundwater monitoring well at 119' bgs.
				130				
				140				
				150				

EP ASSOCIATES
1111 NORTH BRAND BOULEVARD, SUITE 405
GLENDALE, CALIFORNIA 91202
TEL: (818) 246-4499 FAX: (818) 246-4362

PROJECT NO. 10902204
NAME & LOCATION: UNOCAL SS 0353
200 SOUTH CENTRAL AVENUE
GLENDALE, CALIFORNIA

LOGGED BY: ROBIN KIM
QC BY: VH
DATE: 12/14/04

BORING NO. MW-8

PAGE:
ELEVATION:
EQUIPMENT: CME 85
DRILLED BY: WEST HAZMAT

LOG OF BORING

VOC (PID)	HC ODOR	BLOWS/6"	GROUND WATER LEVELS	DEPTH FT	SAMPLE	WELL CONSTRUCTION DETAIL	USCS	DESCRIPTION
								4"-6" asphalt
				10				
16.8	N			20				SAND, brown, fine to coarse with fine gravel, poorly sorted, dense, damp
20.8	N			30				GRAVELLY SAND, fine to coarse sand and gravel
24.6	N			40				SAND, fine to coarse sand and some fine gravel
				50				
23.4	N			60				– same
				70				
				80				
38.7	N			90				SAND, mostly fine to medium sand, some coarse sand and fine gravel
38.9	N	16/25/27	▼	100			SM	SILTY SAND, brown, fine to coarse sand and some fine gravel, some clay, medium dense, moist
32.9	N			110				– same, but saturated
37.1	N			120				– same
								End of boring at 123' bgs; encountered groundwater at approximately 105' bgs; set 4" pvc groundwater monitoring well at 120' bgs.
				130				
				140				
				150				

EP ASSOCIATES
1111 NORTH BRAND BOULEVARD, SUITE 405
GLENDALE, CALIFORNIA 91202
TEL: (818) 246-4499 FAX: (818) 246-4362

PROJECT NO. 10902204
NAME & LOCATION: UNOCAL SS 0353
200 SOUTH CENTRAL AVENUE
GLENDALE, CALIFORNIA

LOGGED BY: ROBIN KIM
QC BY: VH
DATE: 12/13/04

BORING NO. MW-9

PAGE:
ELEVATION:
EQUIPMENT: CME 85
DRILLED BY: WEST HAZMAT

LITHOLOGY
(UNIFIED SOILS CLASSIFICATION SYSTEM)

MAJOR DIVISIONS				TYPICAL NAMES
COARSE-GRAINED SOILS MORE THAN HALF IS LARGER THAN No. 200 SIEVE	GRAVELS MORE THAN HALF COARSE FRACTION IS LARGER THAN No. 4 SIEVE SIZE	CLEAN GRAVELS WITH LITTLE OR NO FINES	GW	WELL-GRADED GRAVELS, GRAVEL-SAND MIXTURES, LITTLE OR NO FINES
			GP	POORLY-GRADED GRAVELS, GRAVEL-SAND MIXTURES
		GRAVELS WITH OVER 12% FINES	GM	SILTY GRAVELS, GRAVEL-SAND-SILT MIXTURES
			GC	CLAYEY GRAVELS, GRAVEL-SAND-CLAY MIXTURES
	SANDS MORE THAN HALF COARSE FRACTION IS SMALLER THAN No. 4 SIEVE SIZE	CLEAN SANDS WITH LITTLE OR NO FINES	SW	WELL-GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES
			SP	POORLY-GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES
		SANDS WITH OVER 12% FINES	SM	SILTY SANDS, SAND-SILT MIXTURES
			SC	CLAYEY SANDS, SAND-CLAY MIXTURES
FINE-GRAINED SOILS MORE THAN HALF IS SMALLER THAN No. 200 SIEVE	SILTS AND CLAYS LIQUID LIMIT LESS THAN 50		ML	INORGANIC SILTS AND VERY FINE SANDS, ROCK FLOUR, SILTY OR CLAYEY FINE SANDS OR CLAYEY SILTS WITH SLIGHT PLASTICITY
			CL	INORGANIC CLAYS OF LOW- TO MEDIUM-PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS
			OL	ORGANIC SILTS AND ORGANIC SILTY CLAYS OF LOW PLASTICITY
	SILTS AND CLAYS LIQUID LIMIT GREATER THAN 50		MH	INORGANIC SILTS, MICACEOUS OR DIATOMACEOUS FINE SAND OR SILTY SOILS
			CH	INORGANIC CLAYS OF HIGH PLASTICITY, FAT CLAYS
			OH	ORGANIC CLAYS OF MEDIUM- TO HIGH-PLASTICITY, ORGANIC SILTS
HIGHLY ORGANIC SOILS			Pt	PEAT, HUMUS, SWAMP SOILS WITH HIGH ORGANIC CONTENTS

SYMBOLS AND NOTES

- SAMPLE INTERVAL
- SAMPLE NOT RECOVERED
- CONCRETE
- BENTONITE CHIPS
- COATED BENTONITE PELLETS
- VOLCLAY or BENTONITE GROUT
- FILTER SAND PACK
- WATER LEVEL ENCOUNTERED WHEN DRILLING
- STATIC WATER LEVEL

CLAST SIZE (Field Classification)

Gravel = >0.2 inches
Sand = 0.003 - 0.2 inches
Silt = <0.003 (not plastic)
Clay = <0.003 (plastic)

SANDS

4-10 blows per foot = Loose
10-30 blows per foot = Medium Dense
30-50 blows per foot = Dense
>50 blows per foot = Very Dense

USCS = Unified Soil Classification System
ppm = Parts Per Million (mg/kg)

DESCRIPTORS

Trace = 1% - 5%
Some = 6% - 10%
With = 11% - 25%
-ly = 26% - 40%
And = >40%

SILTS & CLAYS

2-4 blows per foot = Soft
4-8 blows per foot = Medium Stiff
8-15 blows per foot = Stiff
15-30 blows per foot = Very Stiff
>30 blows per foot = Hard

PID = Photoionization Detector
CGI = Combustible Gas Indicator

TRC

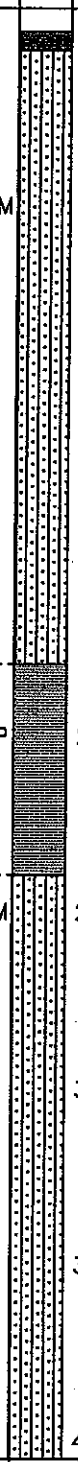
KEY TO BORING LOG

PROJECT NO.: 20-0948	DATE DRILLED: August 18, 2005
LOCATION: Former 76 Station 0353	LOGGED BY: R. Ponce/S. Owens
200 South Central Avenue	APPROVED BY: J. Nordenstam R.G.
Glendale, California	DRILLING CO./RIG: Cascade/CME-85

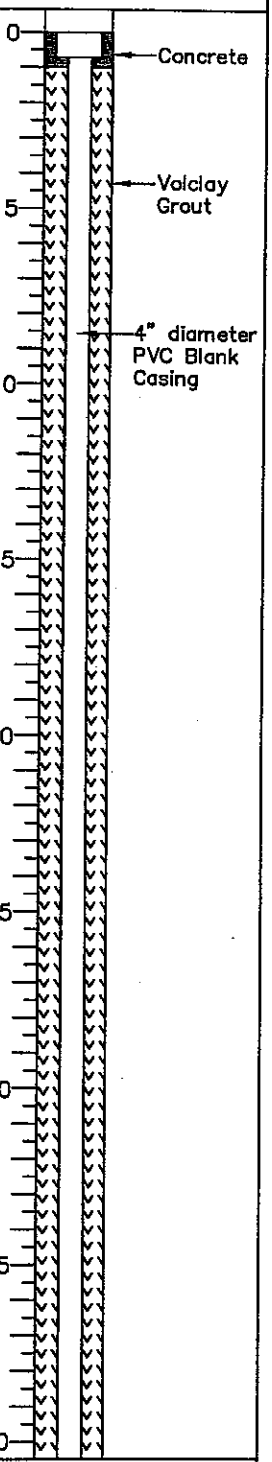
DRILLING METHOD: 10-inch Diameter Hollow Stem Auger
SAMPLER TYPE: 1.5-inch California Modified Split Spoon
TOTAL DEPTH: 116.5 feet DEPTH TO WATER: 100.5 feet

BLOWS PER 6 INCHES	PID (ppmv)	SAMPLE	DEPTH (feet below grade)	DESCRIPTION	USCS
12/16/19	1.1		5	SILTY SAND: grayish brown (10YR 5/2), dense, moist, fine-grained, trace medium-grained sand, trace fine and coarse gravel.	SM
14/16/21	0.1		10		
25/50	0		15	Very dense.	
15/22/30	0.5		20	SAND: light gray (10YR 7/2), very dense, moist, medium-grained, trace fine- and coarse-grained sand, trace fine and coarse gravel.	SP
32/50	0.5		25	SILTY SAND: brown (10YR 4/3), very dense, moist, fine-grained, trace medium- and coarse-grained sand, trace fine and coarse gravel.	SM
50	8.1		30		
--	--		35	No recovery.	
			40		

GRAPHIC LOG



WELL CONSTRUCTION DETAIL



TRC

LOG OF EXPLORATORY BORING

MW-1A

L:\Graphics\ProjectsByNumber\20-xxxx\20-0800_\20-0948_76#0353\Boring Logs\MW-1A.DWG Dec 21, 2005 - 9:06am dlindner

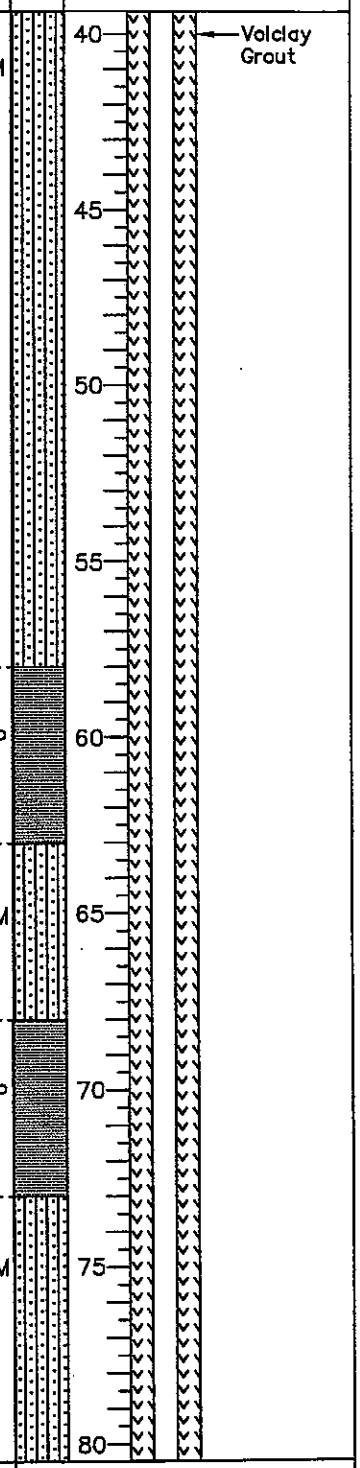
PROJECT NO.: 20-0948	DATE DRILLED: August 18, 2005
LOCATION: Former 76 Station 0353	LOGGED BY: R. Ponce/S. Owens
200 South Central Avenue	APPROVED BY: J. Nordenstam R.G.
Glendale, California	DRILLING CO./RIG: Cascade/CME-85

DRILLING METHOD: 10-inch Diameter Hollow Stem Auger
SAMPLER TYPE: 1.5-inch California Modified Split Spoon
TOTAL DEPTH: 116.5 feet DEPTH TO WATER: 100.5 feet

BLOWS PER 6 INCHES	PID (ppmv)	SAMPLE	DEPTH (feet below grade)	DESCRIPTION	USCS
50	1,266	X	40	SILTY SAND: brown (10YR 5/3), very dense, moist, fine-grained, trace medium- and coarse-grained sand, trace fine and coarse gravel, trace cobble.	SM
50	>1,999	X	45		
33/50	>1,999	X	50	No cobble.	
16/20/30	1,675		55		
50	113.6	X	60	SAND: light brownish gray (10YR 6/2), very dense, moist, medium-grained, trace fine- and coarse-grained sand, trace fine and coarse gravel.	SP
35/50	177.2		65	SILTY SAND: grayish brown (10YR 5/2), very dense, moist, fine-grained, trace medium- and coarse-grained sand, trace coarse gravel.	SM
32/50	200.6	X	70	SAND: brown (10YR 5/3), very dense, moist, medium-grained, trace fine and coarse-grained sand, trace coarse gravel, trace cobble.	SP
30/50	0.4	X	75	SILTY SAND: pale brown (10YR 6/3), very dense, moist, fine-grained, trace medium- and coarse-grained sand.	SM
			80		

GRAPHIC LOG

WELL CONSTRUCTION DETAIL



TRC

LOG OF EXPLORATORY BORING

MW-1A

L:\Graphics\ProjectsByNumber\20-xxxx\20-0800_\20-0948_76#0353\Boring Logs\MW-1A.DWG Dec 21, 2005 - 9:06am dlindner

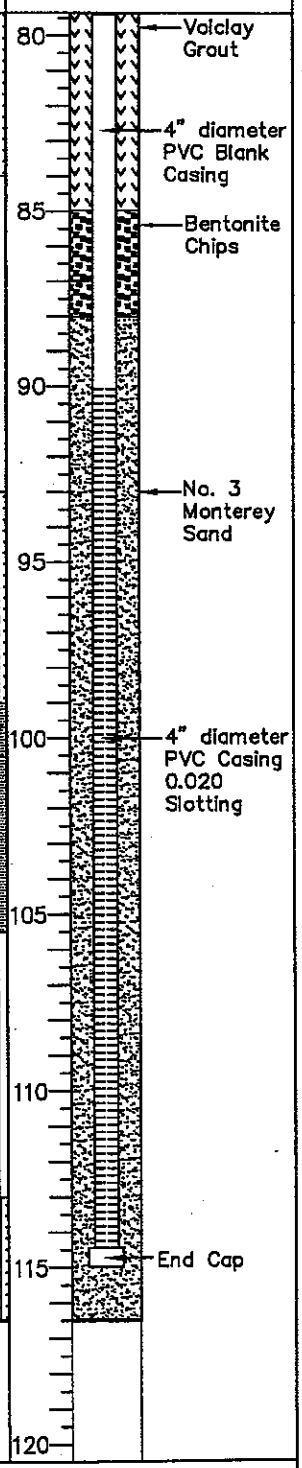
PROJECT NO.: 20-0948	DATE DRILLED: August 18, 2005
LOCATION: Former 76 Station 0353	LOGGED BY: R. Ponce/S. Owens
200 South Central Avenue	APPROVED BY: J. Nordenstam R.G.
Glendale, California	DRILLING CO./RIG: Cascade/CME-85

DRILLING METHOD: 10-inch Diameter Hollow Stem Auger
SAMPLER TYPE: 1.5-inch California Modified Split Spoon
TOTAL DEPTH: 116.5 feet DEPTH TO WATER: 100.5 feet

BLOWS PER 6 INCHES	PID (ppmv)	SAMPLE	DEPTH (feet below grade)	DESCRIPTION	USCS
34/50	39.4	X	80	SILTY SAND: brown (10YR 5/3), very dense, moist, fine-grained, trace medium-grained sand, trace fine and coarse gravel.	SM
39/50	50.2	X	85	SANDY SILT: dark grayish brown (10YR 4/2), hard, moist, fine-grained sand, trace medium-grained sand.	ML
35/50	34.6		90	Trace coarse gravel.	
30/50	42.3	X	95	SILTY SAND: dark yellowish brown (10YR 3/6), very dense, moist, fine-grained, trace medium-grained sand, trace fine and coarse gravel, trace cobble.	SM
36/50	5.5	X	100	SAND: pale brown (10YR 6/3), very dense, wet, medium-grained, trace fine- and coarse-grained sand.	SP
15/20/25	27.5		105	SANDY SILT: dark yellowish brown (10YR 4/4), hard, wet, fine-grained sand, trace clay.	ML
16/19/24	9.9		110	Brown (10YR 5/3), no clay.	
15/25/34	6.3	X	115	SILTY SAND: brown (10YR 5/3), very dense, wet, fine-grained, trace medium- and coarse-grained sand.	SM
			120		

GRAPHIC LOG

WELL CONSTRUCTION DETAIL



TRC

LOG OF EXPLORATORY BORING

MW-1A

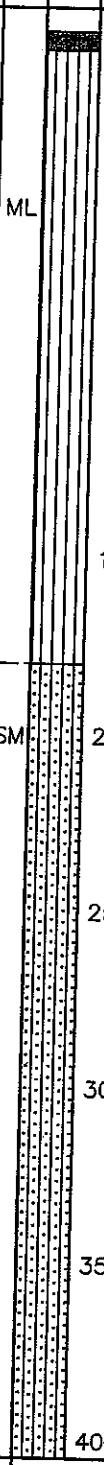
L:\Graphics\ProjectsByNumber\20-xxxx\20-0800_\20-0948_76#0353\Boring Logs\MW-1A.DWG Dec 21, 2005 - 9:05am dlindner

PROJECT NO.: 20-0948	DATE DRILLED: August 15, 2005
LOCATION: Former 76 Station 0353	LOGGED BY: R. Ponce/S. Owens
200 South Central Avenue	APPROVED BY: J. Nordenstam R.G.
Glendale, California	DRILLING CO./RIG: Cascade/CME-85

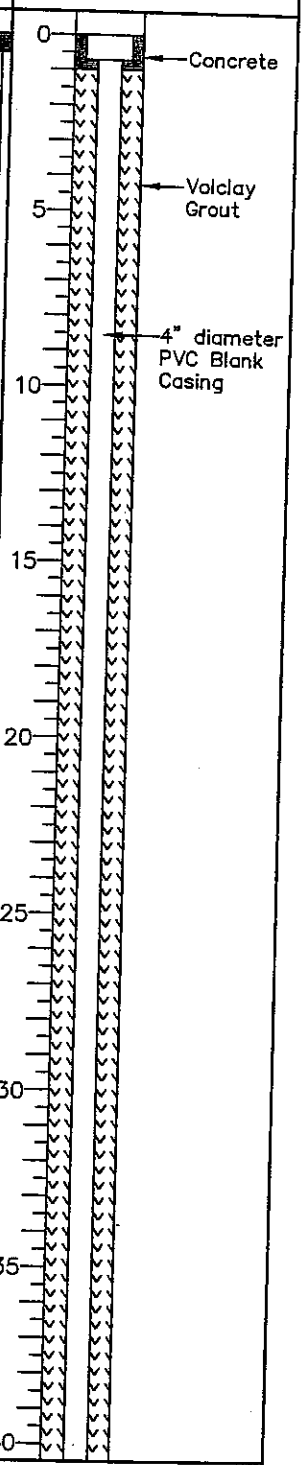
DRILLING METHOD: 10-inch Diameter Hollow Stem Auger
SAMPLER TYPE: 1.5-inch California Modified Split Spoon
TOTAL DEPTH: 116.5 feet DEPTH TO WATER: 100.5 feet

BLOWS PER 6 INCHES	PID (ppmv)	SAMPLE	DEPTH (feet below grade)	DESCRIPTION	USCS
			0	Hand-Augered to 5 feet.	
8/10/12	0	X	5	SANDY SILT: dark grayish brown (10YR 4/2), very stiff, moist, fine-grained sand.	ML
15/20/22	0	X	10	Hard, some medium-grained sand, some coarse-grained sand.	
25/50	0.4	X	15	Trace medium-grained sand.	
18/27/32	0.3	X	20	SILTY SAND: very dark grayish brown (10YR 3/2), very dense, moist, medium-grained, some fine-grained sand, trace fine and coarse gravel, trace cobble.	SM
31/50	0.5		25	Dark yellowish brown (10YR 4/6).	
50	1.2	X	30		
33/50	0.9	X	35		
			40		

GRAPHIC LOG



WELL CONSTRUCTION DETAIL



TRC

LOG OF EXPLORATORY BORING

MW-3A

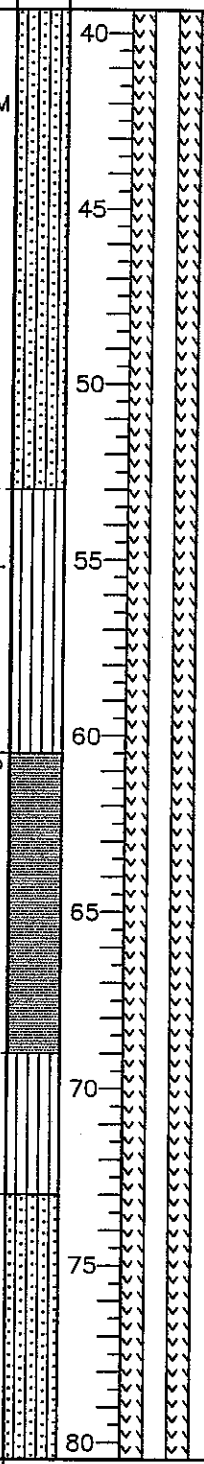
L:\Graphics\ProjectsByNumber\20-xxxx\20-0800_\20-0948_76#0353\Boring Logs\MW-3A.DWG Sep 09, 2005 - 3:20pm rhughes

PROJECT NO.: 20-0948	DATE DRILLED: August 15, 2005
LOCATION: Former 76 Station 0353	LOGGED BY: R. Ponce/S. Owens
200 South Central Avenue	APPROVED BY: J. Nordenstam R.G.
Glendale, California	DRILLING CO./RIG: Cascade/CME-85

DRILLING METHOD: 10-inch Diameter Hollow Stem Auger
SAMPLER TYPE: 1.5-inch California Modified Split Spoon
TOTAL DEPTH: 116.5 feet DEPTH TO WATER: 100.5 feet

BLOWS PER 6 INCHES	PID (ppmv)	SAMPLE	DEPTH (feet below grade)	DESCRIPTION	USCS
21/50	0.4		40	SILTY SAND: brown (10YR 4/3), very dense, moist, medium-grained, some fine-grained sand, trace fine and coarse gravel, trace cobble.	SM
50	1.5		45		
50	2.2		50	Gray (10YR 5/1).	
23/40	425.2		55	SANDY SILT: dark yellowish brown (10YR 4/6), hard, moist, fine-grained sand, some medium-grained sand, trace clay.	ML
30/50	11.6		60	SAND: reddish brown (5YR 4/4), very dense, moist, fine-grained, some medium-grained sand.	SP
50	7.6		65	Pinkish gray (5YR 7/2), some fine gravel, trace silt, trace coarse-grained sand.	
23/26/31	7.8		70	SANDY SILT: brown (10YR 4/3), hard, moist, fine-grained sand, trace fine and coarse gravel, trace clay.	ML
35/50	6.3		75	SILTY SAND: yellowish brown (10YR 5/4), very dense, moist, fine-grained, trace fine and coarse gravel.	SM
			80		

GRAPHIC LOG



WELL CONSTRUCTION DETAIL

TRC

LOG OF EXPLORATORY BORING

MW-3A

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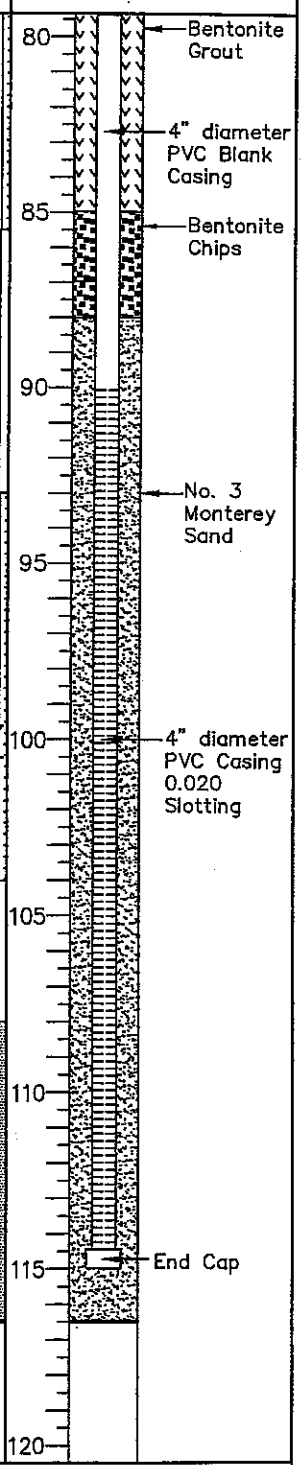
PROJECT NO.: 20-0948	DATE DRILLED: August 15, 2005
LOCATION: Former 76 Station 0353	LOGGED BY: R. Ponce/S. Owens
200 South Central Avenue	APPROVED BY: J. Nordenstam R.G.
Glendale, California	DRILLING CO./RIG: Cascade/CME-85

DRILLING METHOD: 10-inch Diameter Hollow Stem Auger
SAMPLER TYPE: 1.5-inch California Modified Split Spoon
TOTAL DEPTH: 116.5 feet DEPTH TO WATER: 100.5 feet

BLOWS PER 6 INCHES	PID (ppmv)	SAMPLE	DEPTH (feet below grade)	DESCRIPTION	USCS
24/50	3.6		80	SILTY SAND: dark yellowish brown (10YR 4/6), very dense, moist, fine-grained sand.	SM
31/50	15.5		85	SILT WITH SAND: brown (10YR 4/3), hard, moist, fine-grained sand, trace clay.	ML
17/25/30	10.0		90	SANDY SILT: dark yellowish brown (10YR 3/6), hard, moist, fine-grained sand, some clay.	
17/26/33	38.1		95	SILTY SAND: dark yellowish brown (10YR 3/4), very dense, moist, fine-grained, trace clay.	SM
14/22/32	24.7		100	Dark yellowish brown (10YR 4/4), wet, trace medium-grained sand, trace fine and coarse gravel.	
10/21/32	5.9		105	SANDY SILT: dark yellowish brown (10YR 3/4), hard, wet, fine-grained sand, trace clay.	ML
17/25/31	0		110	SAND: yellowish brown (10YR 5/4), very dense, wet, medium-grained, trace fine-grained sand.	SP
12/23/30	0		115		
			120		

GRAPHIC LOG

WELL CONSTRUCTION DETAIL



TRC

LOG OF EXPLORATORY BORING

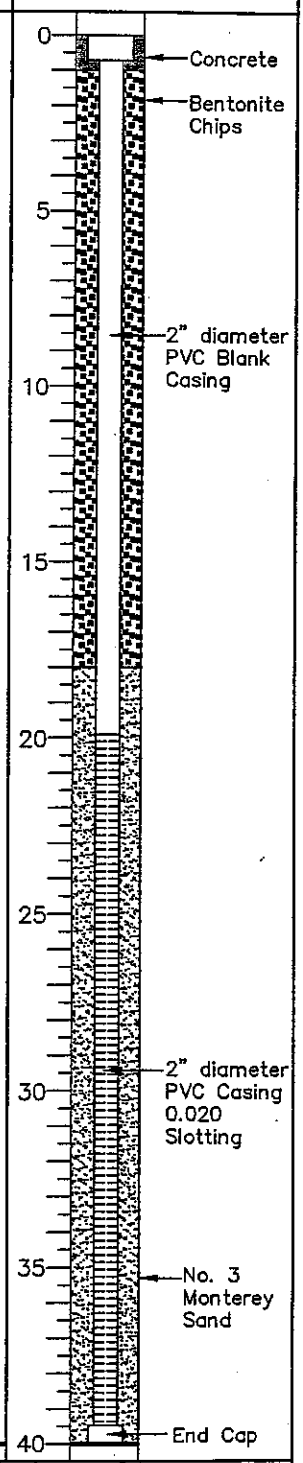
MW-3A

L:\Graphics\ProjectsByNumber\20-xxxx\20-0800_\20-0948_76#0353\Boring Logs\MW-3A.DWG Sep 15, 2005 - 11:28am mesten

PROJECT NO.: 20–0948	DATE DRILLED: August 17, 2005
LOCATION: Former 76 Station 0353	LOGGED BY: R. Ponce/S. Owens
200 South Central Avenue	APPROVED BY: J. Nordenstam R.G.
Glendale, California	DRILLING CO./RIG: Cascade/CME–85

DRILLING METHOD: 8–inch Diameter Hollow Stem Auger
SAMPLER TYPE: NA
TOTAL DEPTH: 40.0 feet DEPTH TO WATER: NA

BLOWS PER 6 INCHES	PID (ppmv)	SAMPLE	DEPTH (feet below grade)	DESCRIPTION	USCS	GRAPHIC LOG	WELL CONSTRUCTION DETAIL
			0	No Soil Samples Collected			
			5				
			10				
			15				
			20				
			25				
			30				
			35				
			40				



TRC

LOG OF EXPLORATORY BORING

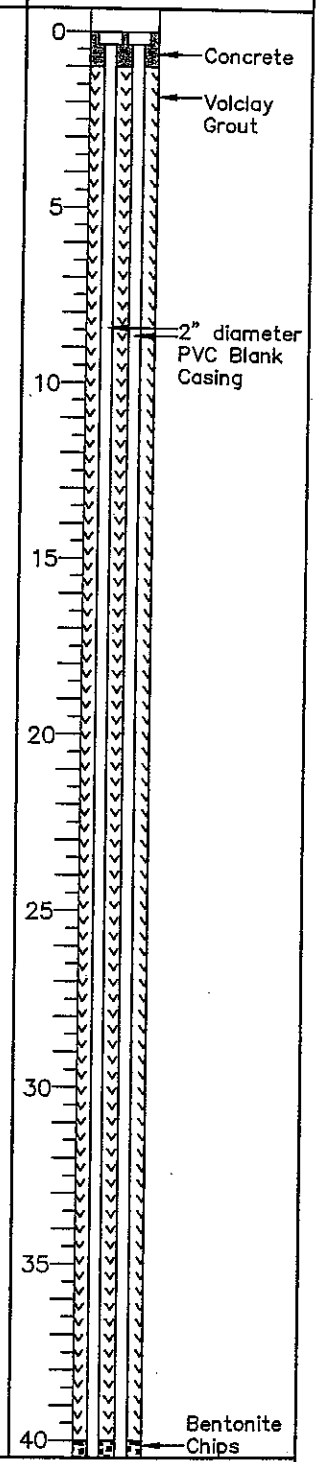
VW-1A

L:\Graphics\ProjectsByNumber\20–xxxx\20–0800_\20–0948_76#0353\Boring Logs\VW–1A.DWG Aug 26, 2005 – 11:18am lwinters

PROJECT NO.: 20-0948	DATE DRILLED: August 17, 2005
LOCATION: Former 76 Station 0353	LOGGED BY: R. Ponce/S. Owens
200 South Central Avenue	APPROVED BY: J. Nordenstam R.G.
Glendale, California	DRILLING CO./RIG: Cascade/CME-85

DRILLING METHOD: 10-inch Diameter Hollow Stem Auger
SAMPLER TYPE: NA
TOTAL DEPTH: 90.0 feet DEPTH TO WATER: NA

BLOWS PER 6 INCHES	PID (ppmv)	SAMPLE	DEPTH (feet below grade)	DESCRIPTION	USCS	GRAPHIC LOG	WELL CONSTRUCTION DETAIL
			0	No Soil Samples Collected			
			5				
			10				
			15				
			20				
			25				
			30				
			35				
			40				



TRC

LOG OF EXPLORATORY BORING

VW-1B/C

L:\Graphics\ProjectsByNumber\20-xxxx\20-0800_\20-0948_76#0353\Boring Logs\VW-1B_C.DWG Aug 26, 2005 - 1:58pm lwinters

PROJECT NO.: 20-0948	DATE DRILLED: August 17, 2005
LOCATION: Former 76 Station 0353	LOGGED BY: R. Ponce/S. Owens
200 South Central Avenue	APPROVED BY: J. Nordenstam R.G.
Glendale, California	DRILLING CO./RIG: Cascade/CME-85

DRILLING METHOD: 10-inch Diameter Hollow Stem Auger
SAMPLER TYPE: NA
TOTAL DEPTH: 90.0 feet DEPTH TO WATER: NA

BLOWS PER 6 INCHES	PID (ppmv)	SAMPLE	DEPTH (feet below grade)	DESCRIPTION	USCS	GRAPHIC LOG	WELL CONSTRUCTION DETAIL
			40	No Soil Samples Collected			40 Volclay Grout; Bentonite Chips; 2" diameter PVC Blank Casing
			45				45
			50				50
			55				55 No. 3 Monterey Sand
			60				60 2" diameter PVC Casing 0.020 Slotting
			65				65 End Cap; Bentonite Chips
			70				70 2" diameter PVC Casing 0.020 Slotting
			75				75 No. 3 Monterey Sand
			80				80

TRC

LOG OF EXPLORATORY BORING

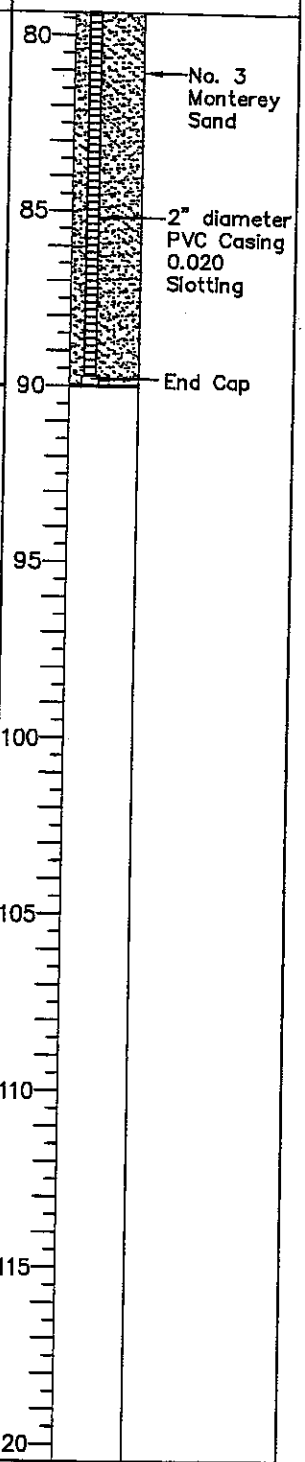
VW-1B/C

L:\Graphics\ProjectsByNumber\20-xxxx\20-0800_\20-0948_76#0353\Boring Logs\VW-1B_C.DWG Oct 13, 2005 - 9:57am lwinters

PROJECT NO.: 20-0948	DATE DRILLED: August 17, 2005
LOCATION: Former 76 Station 0353	LOGGED BY: R. Ponce/S. Owens
200 South Central Avenue	APPROVED BY: J. Nordenstam R.G.
Glendale, California	DRILLING CO./RIG: Cascade/CME-85

DRILLING METHOD: 10-inch Diameter Hollow Stem Auger
SAMPLER TYPE: NA
TOTAL DEPTH: 90.0 feet DEPTH TO WATER: NA

BLOWS PER 6 INCHES	PID (ppmv)	SAMPLE	DEPTH (feet below grade)	DESCRIPTION	USCS	GRAPHIC LOG	WELL CONSTRUCTION DETAIL
			80	No Soil Samples Collected			
			85				
			90				
			95				
			100				
			105				
			110				
			115				
			120				



TRC

LOG OF EXPLORATORY BORING

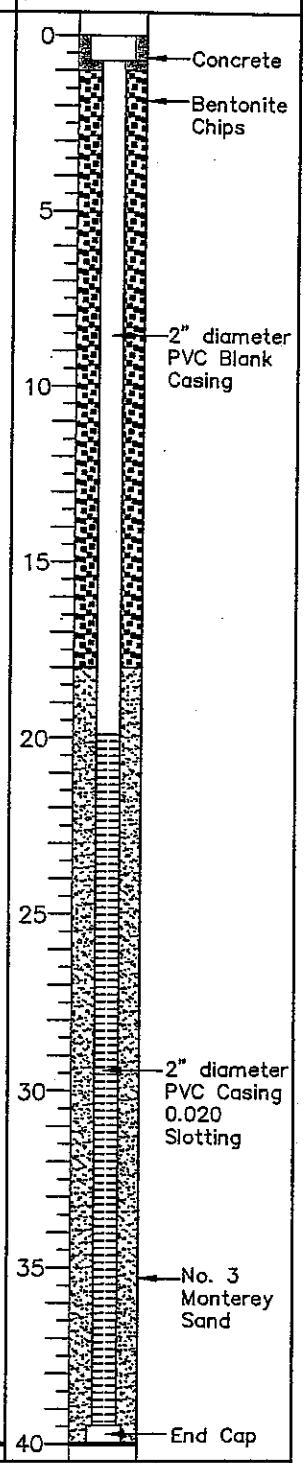
VW-1B/C

L:\Graphics\ProjectsByNumber\20-xxxx\20-0800_\20-0948_76#0353\Boring Logs\VW-1B_C.DWG Oct 13, 2005 - 10:00am lwinters

PROJECT NO.: 20-0948	DATE DRILLED: August 16, 2005
LOCATION: Former 76 Station 0353	LOGGED BY: R. Ponce/S. Owens
200 South Central Avenue	APPROVED BY: J. Nordenstam R.G.
Glendale, California	DRILLING CO./RIG: Cascade/CME-85

DRILLING METHOD: 8-inch Diameter Hollow Stem Auger
SAMPLER TYPE: NA
TOTAL DEPTH: 40.0 feet DEPTH TO WATER: NA

BLOWS PER 6 INCHES	PID (ppmv)	SAMPLE	DEPTH (feet below grade)	DESCRIPTION	USCS	GRAPHIC LOG	WELL CONSTRUCTION DETAIL
			0	No Soil Samples Collected			
			5				
			10				
			15				
			20				
			25				
			30				
			35				
			40				



TRC

LOG OF EXPLORATORY BORING

VW-2A

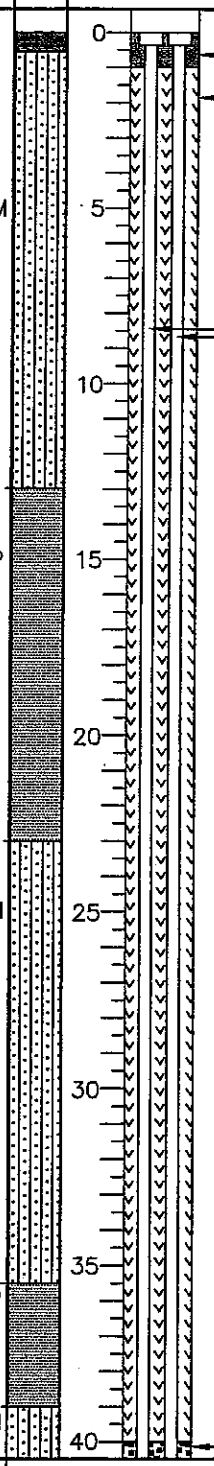
L:\Graphics\ProjectsByNumber\20-xxxx\20-0800_\20-0948_76#0353\Boring Logs\VW-2A.DWG Aug 26, 2005 - 11:27am lwinters

PROJECT NO.: 20-0948	DATE DRILLED: August 17, 2005
LOCATION: Former 76 Station 0353	LOGGED BY: R. Ponce/S. Owens
200 South Central Avenue	APPROVED BY: J. Nordenstam R.G.
Glendale, California	DRILLING CO./RIG: Cascade/CME-85

DRILLING METHOD: 10-inch Diameter Hollow Stem Auger
SAMPLER TYPE: 1.5-inch California Modified Split Spoon
TOTAL DEPTH: 91.5 feet DEPTH TO WATER: NA

BLOWS PER 6 INCHES	PID (ppmv)	SAMPLE	DEPTH (feet below grade)	DESCRIPTION	USCS
7/11/13	0	X	5	SILTY SAND: brown (10YR 4/3), medium dense, moist, fine-grained, trace medium-grained sand, trace fine and coarse gravel.	SM
11/15/20	0	X	10		
11/20/30	0	X	15	SAND: pale brown (10YR 6/3), very dense, moist, fine-grained, trace medium-grained sand, trace fine and coarse gravel.	SP
25/50	0		20		
30/50	0	X	25	SILTY SAND: dark yellowish brown (10YR 4/4), very dense, moist, fine-grained sand, trace medium-grained sand, trace fine and coarse gravel, trace cobble.	SM
32/50	0	X	30		
36/50	0	X	35	No cobble.	
				SAND: pale brown (10YR 6/3), very dense, moist, fine-grained, trace medium-grained sand, trace fine and coarse gravel.	SP
			40		SM

GRAPHIC LOG



WELL CONSTRUCTION DETAIL

TRC

LOG OF EXPLORATORY BORING

VW-2B/C

L:\Graphics\ProjectsByNumber\20-xxxx\20-0800_\20-0948_76#0353\Boring Logs\VW-2B_C.DWG Sep 09, 2005 - 3:03pm rhughes

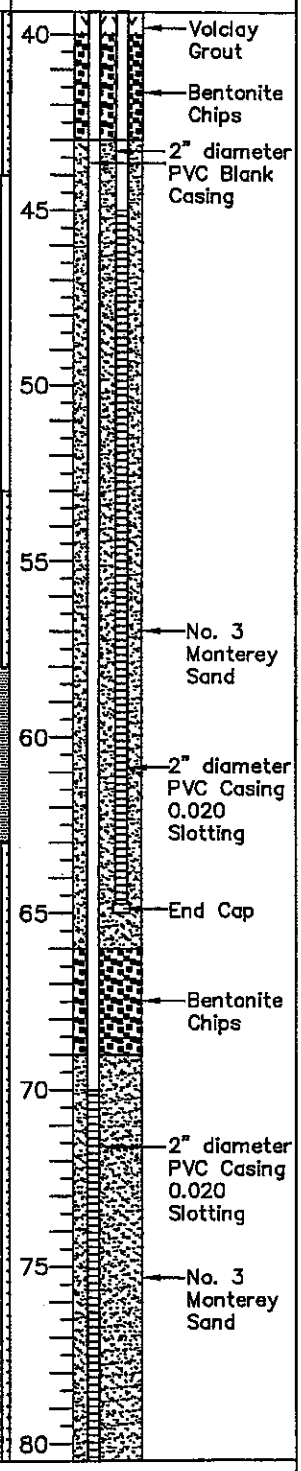
PROJECT NO.: 20-0948	DATE DRILLED: August 17, 2005
LOCATION: Former 76 Station 0353	LOGGED BY: R. Ponce/S. Owens
200 South Central Avenue	APPROVED BY: J. Nordenstam R.G.
Glendale, California	DRILLING CO./RIG: Cascade/CME-85

DRILLING METHOD: 10-inch Diameter Hollow Stem Auger
SAMPLER TYPE: 1.5-inch California Modified Split Spoon
TOTAL DEPTH: 91.5 feet DEPTH TO WATER: NA

BLOWS PER 6 INCHES	PID (ppmv)	SAMPLE	DEPTH (feet below grade)	DESCRIPTION	USCS
27/50	14.4		40	SILTY SAND: dark yellowish brown (10YR 4/4), very dense, moist, fine-grained, trace medium-grained sand, trace fine and coarse gravel.	SM
31/50	1,668		45	SANDY SILT: brown (10YR 5/3), hard, moist, fine-grained sand, trace medium-grained sand, trace fine and coarse gravel, trace clay.	ML
29/50	>1,999		50		
50	48.8		55	SILTY SAND: yellowish brown (10YR 5/6), very dense, moist, fine-grained, trace medium-grained, trace cobble.	SM
35/50	>1,999		60	SAND WITH SILT: pale brown (10YR 6/3), very dense, moist, medium-grained, trace fine- and coarse-grained sand, trace fine and coarse gravel.	SP
50	1,020		65	SILTY SAND: grayish brown (10YR 5/2), very dense, moist, fine-grained, trace medium- and coarse-grained sand, trace fine and coarse gravel.	SM
50	130.1		70	Trace cobble.	
16/19/20	117.1		75	No cobble.	
			80		

GRAPHIC LOG

WELL CONSTRUCTION DETAIL



TRC

LOG OF EXPLORATORY BORING

VW-2B/C

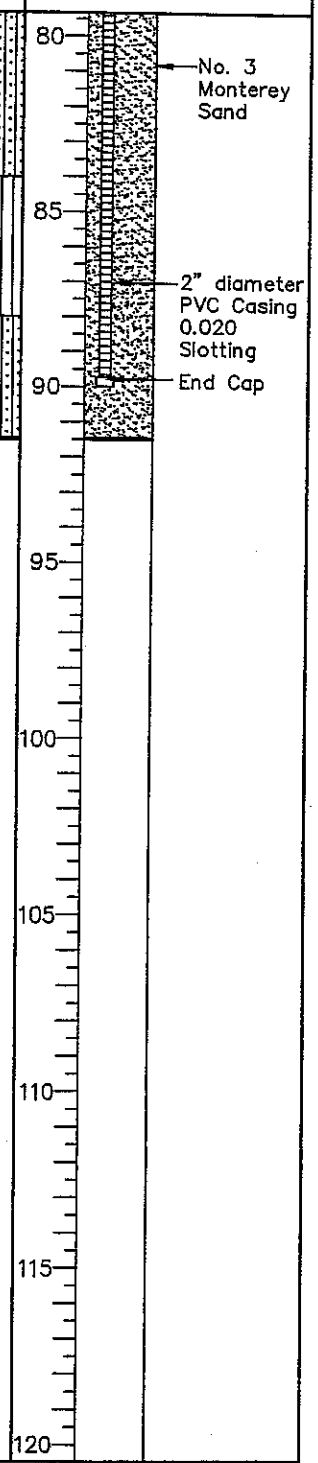
PROJECT NO.: 20-0948	DATE DRILLED: August 17, 2005
LOCATION: Former 76 Station 0353	LOGGED BY: R. Ponce/S. Owens
200 South Central Avenue	APPROVED BY: J. Nordenstam R.G.
Glendale, California	DRILLING CO./RIG: Cascade/CME-85

DRILLING METHOD: 10-inch Diameter Hollow Stem Auger
SAMPLER TYPE: 1.5-inch California Modified Split Spoon
TOTAL DEPTH: 91.5 feet DEPTH TO WATER: NA

BLOWS PER 6 INCHES	PID (ppmv)	SAMPLE	DEPTH (feet below grade)	DESCRIPTION	USCS
19/26/38	261.7	X	80	SILTY SAND: light brownish gray (10YR 6/2), very dense, moist, fine-grained, trace medium-grained sand, trace fine and coarse gravel.	SM
10/15/22	126.7	X	85	SANDY SILT: dark brown (10YR 3/3), hard, moist, fine-grained sand, trace clay.	ML
12/25/31	56.6	X	90	SILTY SAND: dark yellowish brown (10YR 4/4), very dense, moist, fine-grained.	SM

GRAPHIC LOG

WELL CONSTRUCTION DETAIL



TRC

LOG OF EXPLORATORY BORING

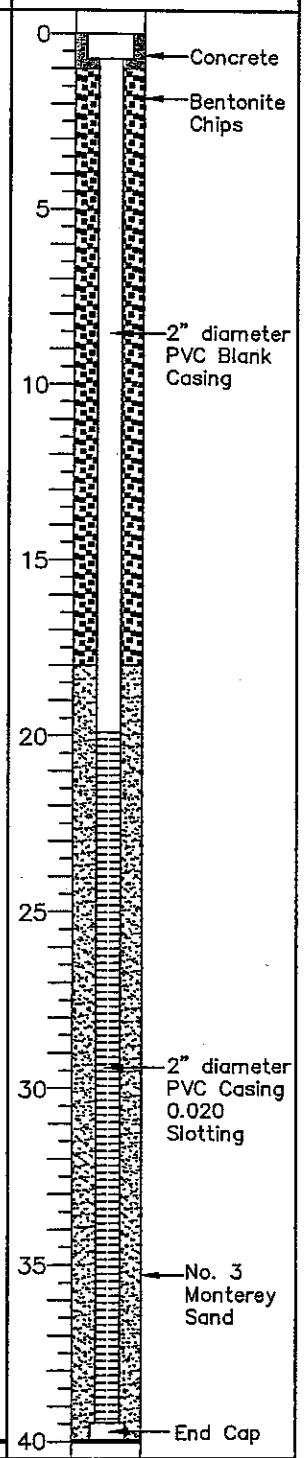
VW-2B/C

L:\Graphics\ProjectsByNumber\20-xxxx\20-0800_\20-0948_76#0353\Boring Logs\VW-2B_C.DWG Sep 15, 2005 - 11:29am mesten

PROJECT NO.: 20-0948	DATE DRILLED: August 16, 2005
LOCATION: Former 76 Station 0353	LOGGED BY: R. Ponce/S. Owens
200 South Central Avenue	APPROVED BY: J. Nordenstam R.G.
Glendale, California	DRILLING CO./RIG: Cascade/CME-85

DRILLING METHOD: 8-inch Diameter Hollow Stem Auger
SAMPLER TYPE: NA
TOTAL DEPTH: 40.0 feet DEPTH TO WATER: NA

BLOWS PER 6 INCHES	PID (ppmv)	SAMPLE	DEPTH (feet below grade)	DESCRIPTION	USCS	GRAPHIC LOG	WELL CONSTRUCTION DETAIL
			0	No Soil Samples Collected			Concrete; Bentonite Chips
			5				
			10				2" diameter PVC Blank Casing
			15				
			20				
			25				
			30				2" diameter PVC Casing 0.020 Slotting
			35				No. 3 Monterey Sand
			40				End Cap



TRC

LOG OF EXPLORATORY BORING

VW-3A

L:\Graphics\ProjectsByNumber\20-xxxx\20-0800_\20-0948_76#0353\Boring Logs\VW-3A.DWG Aug 26, 2005 - 1:42pm lwinters

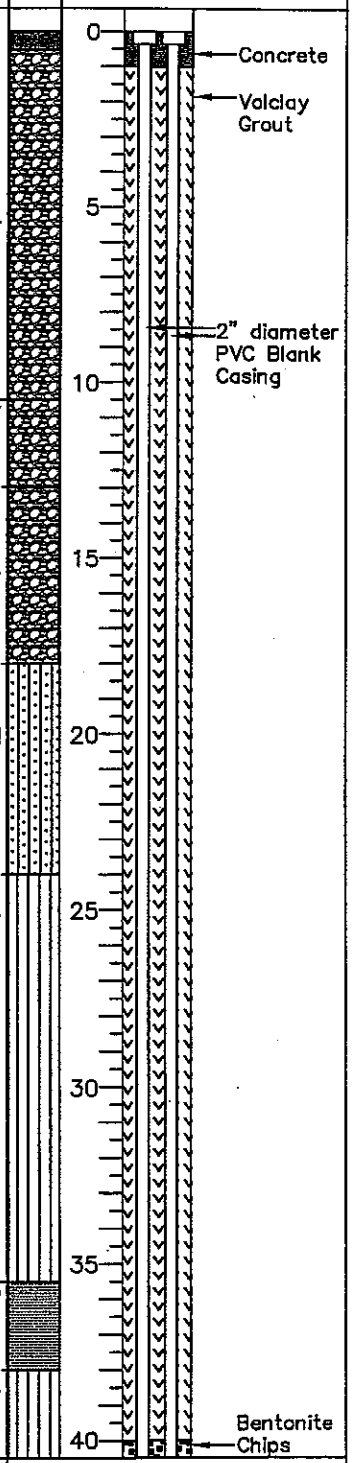
PROJECT NO.: 20–0948	DATE DRILLED: August 16, 2005
LOCATION: Former 76 Station 0353	LOGGED BY: R. Ponce/S. Owens
200 South Central Avenue	APPROVED BY: J. Nordenstam R.G.
Glendale, California	DRILLING CO./RIG: Cascade/CME–85

DRILLING METHOD: 10–inch Diameter Hollow Stem Auger
SAMPLER TYPE: 1.5–inch California Modified Split Spoon
TOTAL DEPTH: 91.5 feet DEPTH TO WATER: NA

BLOWS PER 6 INCHES	PID (ppmv)	SAMPLE	DEPTH (feet below grade)	DESCRIPTION	USCS
10/15/20	0	X	5	FILL: sandy silt, dark yellowish brown (10YR 4/4), hard, moist, fine-grained sand, trace medium-grained sand, trace fine and coarse gravel.	AF
17/26/32	0	X	10	FILL: pea gravel.	AF
25/50	0	X	15	FILL: sandy silt, brown (10YR 4/3), hard, moist, fine-grained sand, trace medium-grained sand, trace fine and coarse gravel.	AF
26/50	0		20	SILTY SAND: brown (10YR 5/3), very dense, moist, fine-grained, some medium-grained sand, trace fine and coarse gravel.	SM
19/26/36	0	X	25	SANDY SILT: brown (10YR 4/3), hard, moist, fine-grained sand, trace medium-grained sand, trace fine and coarse gravel.	ML
50	0	X	30		
32/50	0	X	35	SAND: yellowish brown (10YR 5/6), very dense, moist, fine-grained, trace fine and coarse gravel.	SP
			40		ML

GRAPHIC LOG

WELL CONSTRUCTION DETAIL



TRC

LOG OF EXPLORATORY BORING

VW-3B/C

L:\Graphics\ProjectsByNumber\20–xxxx\20–0800_\20–0948_76#0353\Boring Logs\VW–3B_C.DWG Dec 21, 2005 – 9:09am dlindner

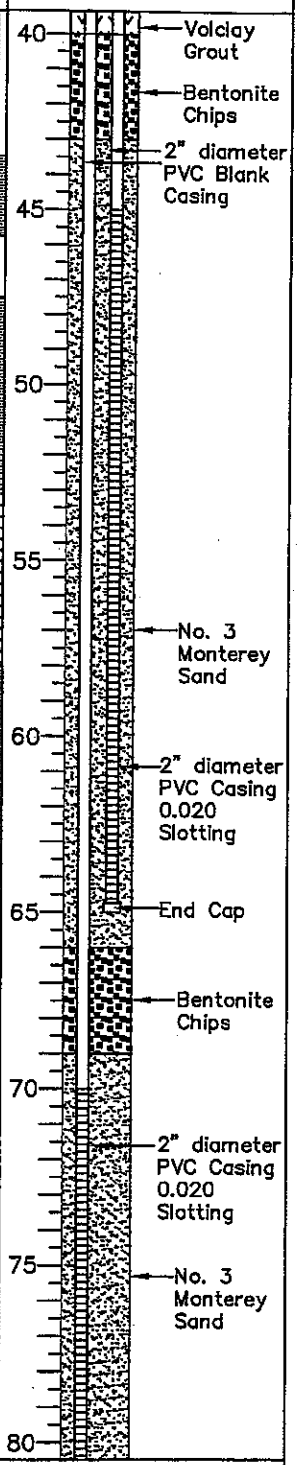
PROJECT NO.: 20-0948	DATE DRILLED: August 16, 2005
LOCATION: Former 76 Station 0353	LOGGED BY: R. Ponce/S. Owens
200 South Central Avenue	APPROVED BY: J. Nordenstam R.G.
Glendale, California	DRILLING CO./RIG: Cascade/CME-85

DRILLING METHOD: 10-inch Diameter Hollow Stem Auger
SAMPLER TYPE: 1.5-inch California Modified Split Spoon
TOTAL DEPTH: 91.5 feet DEPTH TO WATER: NA

BLOWS PER 6 INCHES	PID (ppmv)	SAMPLE	DEPTH (feet below grade)	DESCRIPTION	USCS
31/50	0	X	40	SANDY SILT: dark brown (10YR 3/3), hard, moist, fine-grained sand, trace medium-grained sand, trace fine and coarse gravel.	ML
				SAND: yellowish red (5YR 5/8), very dense, moist, fine-grained, trace medium-grained sand, trace fine gravel.	SP
20/28/35	0	X	45	SANDY SILT: dark brown (10YR 3/3), hard, moist, fine-grained sand, trace medium-grained sand, trace fine and coarse gravel.	ML
				SAND: bluish gray (2 for GLEY 5/1), very dense, moist, fine-grained, trace medium-grained sand, and trace fine and coarse gravel.	SP
27/50	442.6	X	50	Light olive gray (5Y 6/2).	
35/50	>1,999	X	55	SILTY SAND: light brownish gray (10YR 6/2), very dense, moist, fine-grained, some medium-grained sand, trace fine and coarse gravel.	SM
30/50	1,459	X	60	SAND: brownish yellow (10YR 6/6), very dense, moist, fine-grained, some medium-grained sand, trace fine and coarse gravel, trace silt.	SP
34/50	296.1	X	65	Grayish brown (10YR 5/2), trace cobbles.	
32/50	147.8	X	70	SILTY SAND: yellowish brown (10YR 5/4), very dense, moist, fine-grained, trace coarse gravel.	SM
36/50	111.4	X	75		
			80		SP

GRAPHIC LOG

WELL CONSTRUCTION DETAIL



TRC

LOG OF EXPLORATORY BORING

VW-3B/C

L:\Graphics\ProjectsByNumber\20-xxxx\20-0800_\20-0948_76#0353\Boring Logs\VW-3B_C.DWG Dec 21, 2005 - 9:09am dlindner

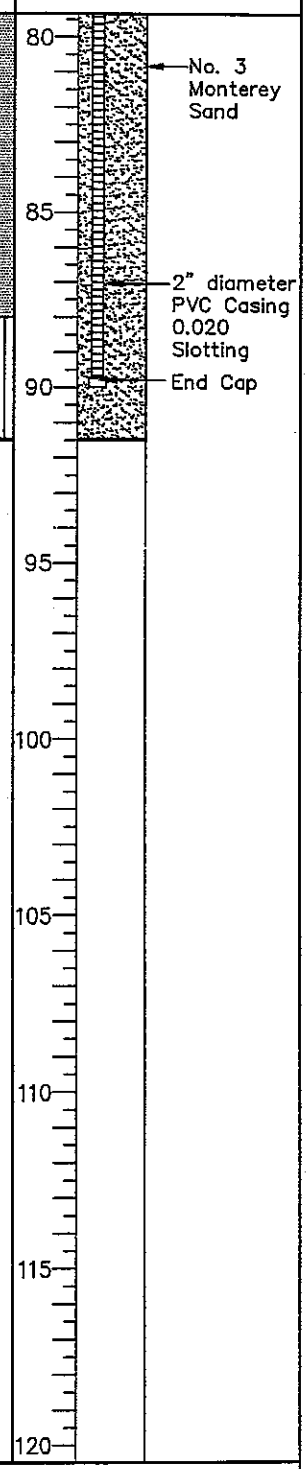
PROJECT NO.: 20-0948	DATE DRILLED: August 16, 2005
LOCATION: Former 76 Station 0353	LOGGED BY: R. Ponce/S. Owens
200 South Central Avenue	APPROVED BY: J. Nordenstam R.G.
Glendale, California	DRILLING CO./RIG: Cascade/CME-85

DRILLING METHOD: 10-inch Diameter Hollow Stem Auger
SAMPLER TYPE: 1.5-inch California Modified Split Spoon
TOTAL DEPTH: 91.5 feet DEPTH TO WATER: NA

BLOWS PER 6 INCHES	PID (ppmv)	SAMPLE	DEPTH (feet below grade)	DESCRIPTION	USCS
27/50	91.1	X	80	SAND: brown (10YR 5/3), very dense, moist, fine-grained, some medium-grained sand, trace fine and coarse gravel.	SP
29/50	376.4	X	85		
24/50	89.5		90	SANDY SILT: dark brown (10YR 3/3), hard, moist, fine-grained sand, trace clay.	ML
			95		
			100		
			105		
			110		
			115		
			120		

GRAPHIC LOG

WELL CONSTRUCTION DETAIL



TRC

LOG OF EXPLORATORY BORING

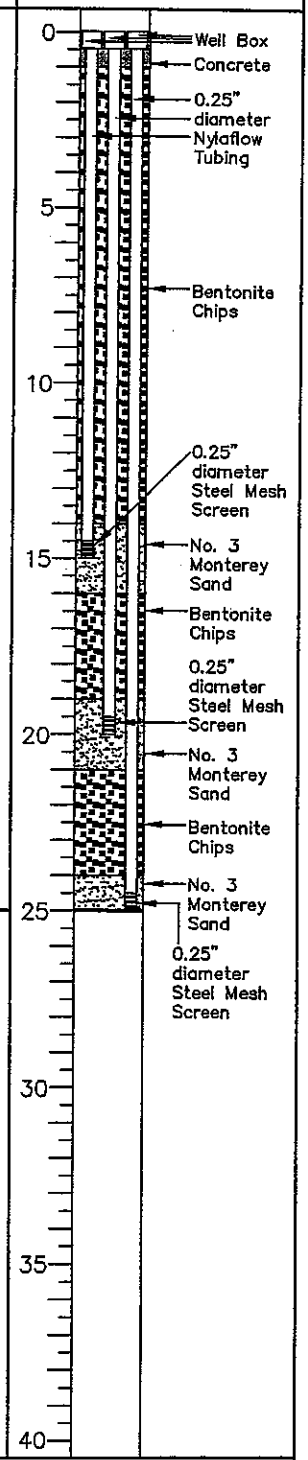
VW-3B/C

L:\Graphics\ProjectsByNumber\20-xxxx\20-0800_\20-0948_76#0353\Boring Logs\VW-3B_C.DWG Sep 15, 2005 - 11:31am mesten

PROJECT NO.: 20-0948	DATE DRILLED: August 18, 2005
LOCATION: Former 76 Station 0353	LOGGED BY: R. Ponce/S. Owens
200 South Central Avenue	APPROVED BY: J. Nordenstam R.G.
Glendale, California	DRILLING CO./RIG: Cascade/CME-85

DRILLING METHOD: 8-inch Diameter Hollow Stem Auger
SAMPLER TYPE: NA
TOTAL DEPTH: 25.0 feet DEPTH TO WATER: NA

BLOWS PER 6 INCHES	PID (ppmv)	SAMPLE	DEPTH (feet below grade)	DESCRIPTION	USCS	GRAPHIC LOG	WELL CONSTRUCTION DETAIL
			0	No Soil Samples Collected			
			5				
			10				
			15				
			20				
			25				
			30				
			35				
			40				



TRC

LOG OF EXPLORATORY BORING

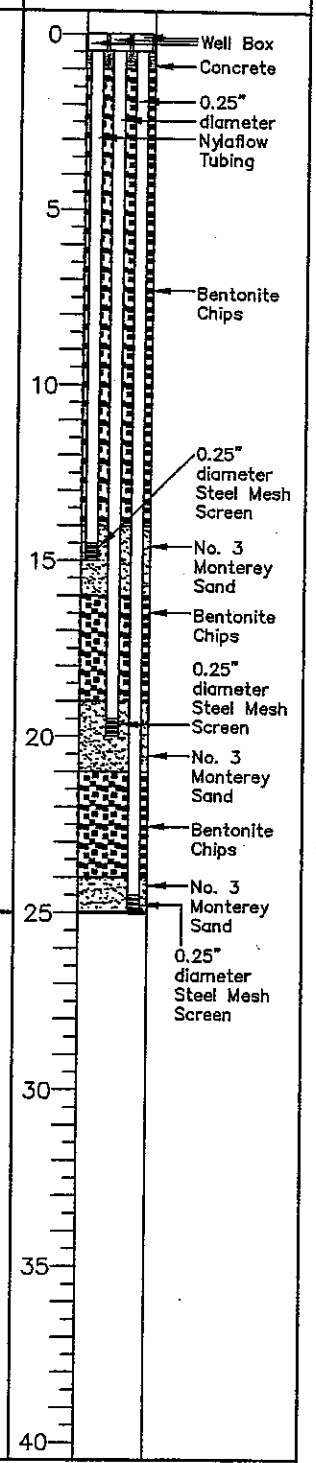
SG-1

L:\Graphics\ProjectsByNumber\20-xxxx\20-0800_\20-0948_76#0353\Boring Logs\SG-1.dwg Aug 26, 2005 - 9:42am lwinters

PROJECT NO.: 20-0948	DATE DRILLED: August 19, 2005
LOCATION: Former 76 Station 0353	LOGGED BY: R. Ponce/S. Owens
200 South Central Avenue	APPROVED BY: J. Nordenstam R.G.
Glendale, California	DRILLING CO./RIG: Cascade/CME-85

DRILLING METHOD: 8-inch Diameter Hollow Stem Auger
SAMPLER TYPE: NA
TOTAL DEPTH: 25.0 feet DEPTH TO WATER: NA

BLOWS PER 6 INCHES	PID (ppmv)	SAMPLE	DEPTH (feet below grade)	DESCRIPTION	USCS	GRAPHIC LOG	WELL CONSTRUCTION DETAIL
			0	No Soil Samples Collected			
			5				
			10				
			15				
			20				
			25				
			30				
			35				
			40				



TRC

LOG OF EXPLORATORY BORING

SG-2

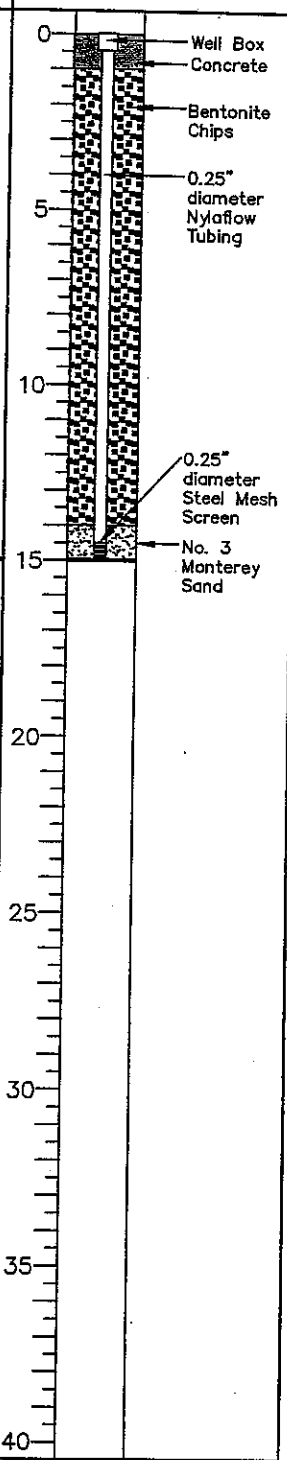
L:\Graphics\ProjectsByNumber\20-xxxx\20-0800_\20-0948_76#0353\Boring Logs\SG-2.dwg Aug 26, 2005 - 10:28am lwinters

PROJECT NO.: 20-0948	DATE DRILLED: August 19, 2005
LOCATION: Former 76 Station 0353	LOGGED BY: R. Ponce/S. Owens
200 South Central Avenue	APPROVED BY: J. Nordenstam R.G.
Glendale, California	DRILLING CO./RIG: Cascade/CME-85

DRILLING METHOD: 8-inch Diameter Hollow Stem Auger
SAMPLER TYPE: NA
TOTAL DEPTH: 15.0 feet DEPTH TO WATER: NA

BLOWS PER 6 INCHES	PID (ppmv)	SAMPLE	DEPTH (feet below grade)	DESCRIPTION	USCS	GRAPHIC LOG
			0	Hand-Augered to 5 feet. No Soil Samples Collected		
			5			
			10			
			15			
			20			
			25			
			30			
			35			
			40			

WELL CONSTRUCTION DETAIL



TRC

LOG OF EXPLORATORY BORING

SG-3

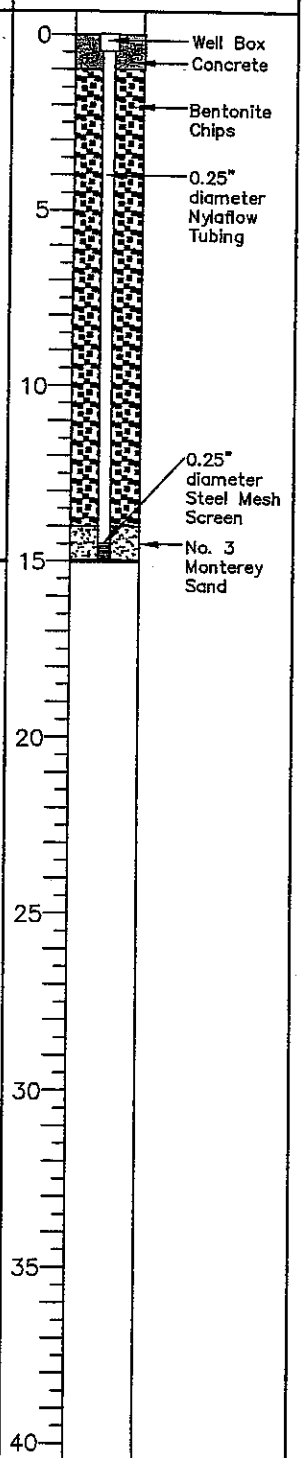
L:\Graphics\ProjectsByNumber\20-xxxx\20-0800_\20-0948_76#0353\Boring Logs\SG-3.dwg Aug 26, 2005 - 11:05am lwinters

PROJECT NO.: 20-0948	DATE DRILLED: August 19, 2005
LOCATION: Former 76 Station 0353	LOGGED BY: R. Ponce/S. Owens
200 South Central Avenue	APPROVED BY: J. Nordenstam R.G.
Glendale, California	DRILLING CO./RIG: Cascade/CME-85

DRILLING METHOD: 8-inch Diameter Hollow Stem Auger
SAMPLER TYPE: NA
TOTAL DEPTH: 15.0 feet DEPTH TO WATER: NA

BLOWS PER 6 INCHES	PID (ppmv)	SAMPLE	DEPTH (feet below grade)	DESCRIPTION	USCS	GRAPHIC LOG
			0	Hand-Augered to 5 feet. No Soil Samples Collected		
			5			
			10			
			15			
			20			
			25			
			30			
			35			
			40			

WELL CONSTRUCTION DETAIL



TRC

LOG OF EXPLORATORY BORING

SG-4

L:\Graphics\ProjectsByNumber\20-xxxx\20-0800_\20-0948_76#0353\Boring Logs\SG-4.dwg Aug 26, 2005 - 11:06am lwinters

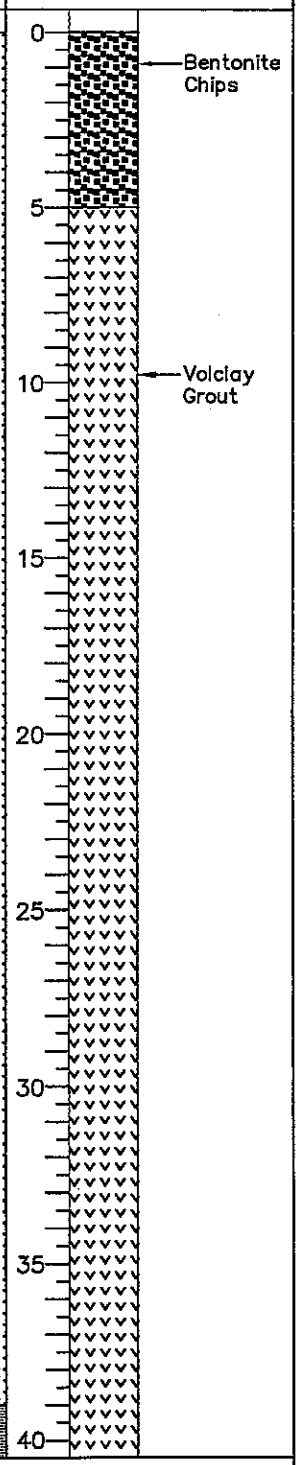
PROJECT NO.: 20-0948	DATE DRILLED: December 5, 2005
LOCATION: Former 76 Station 0353	LOGGED BY: S. Owens
200 South Central Avenue	APPROVED BY: J. Nordenstam, P.G.
Glendale, California	DRILLING CO./RIG: Cascade/CME-85

DRILLING METHOD: 8-inch Diameter Hollow Stem Auger
SAMPLER TYPE: 1.5-inch California Modified Split Spoon
TOTAL DEPTH: 101.5 feet DEPTH TO WATER: NA

BLOWS PER 6 INCHES	PID (ppmv)	SAMPLE	DEPTH (feet below grade)	DESCRIPTION	USCS
			0		
17/11	2.0		5	SILTY SAND: moderate brown (5YR 3/4), medium dense, moist, fine-grained, trace medium-grained sand, trace fine and coarse gravel, trace clay.	SM
--	--		10		
10/10/12	2.5		15	Trace coarse gravel.	
11/17/21	0.3		20		
14/18/20	0.8		25	Moderate brown (5YR 4/4), dense, no medium-grained sand.	
14/14/21	0.0		30	Pale brown (5Y 5/2), fine- to medium-grained sand, no gravel.	
50 for 6"	0.7		35	Moderate brown (5YR 4/4), very dense, medium-grained, trace coarse-grained sand, trace fine and coarse gravel.	
			40		SP

GRAPHIC LOG

WELL CONSTRUCTION DETAIL



TRC

LOG OF EXPLORATORY BORING

CB-1

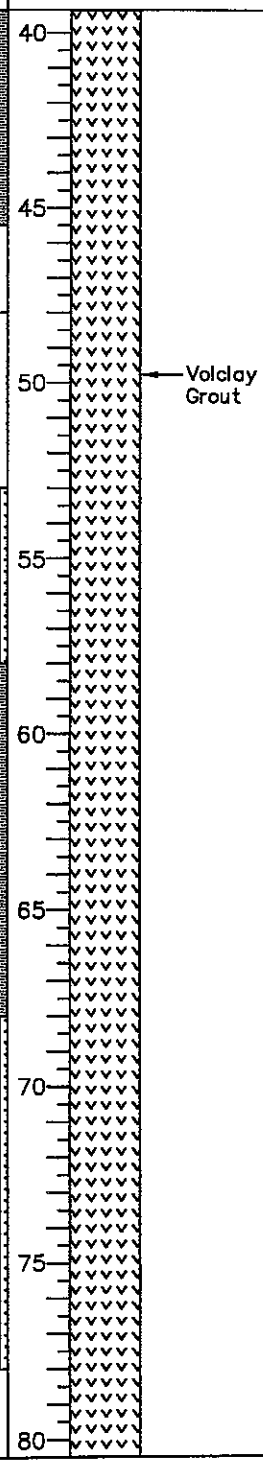
PROJECT NO.: 20-0948	DATE DRILLED: December 5, 2005
LOCATION: Former 76 Station 0353	LOGGED BY: S. Owens
200 South Central Avenue	APPROVED BY: J. Nordenstam, P.G.
Glendale, California	DRILLING CO./RIG: Cascade/CME-85

DRILLING METHOD: 8-inch Diameter Hollow Stem Auger
SAMPLER TYPE: 1.5-inch California Modified Split Spoon
TOTAL DEPTH: 101.5 feet DEPTH TO WATER: NA

BLOWS PER 6 INCHES	PID (ppmv)	SAMPLE	DEPTH (feet below grade)	DESCRIPTION	USCS
27/28/30	6.0	☒	40	SAND: pale yellowish brown (10YR 6/2), very dense, moist, medium-grained, trace fine and coarse gravel, trace cobble, trace clay.	SP
15/17/18	>1,999		45	SANDY SILT: dark yellowish brown (10YR 4/2), hard, moist, fine-grained sand, trace clay.	ML
12/14/15	>1,999		50	SILTY SAND/SANDY SILT: light brown (5YR 5/6), medium dense, moist, medium-grained, trace clay.	SM/ ML
7/10/12	170		55	SILTY SAND: moderate brown (5YR 4/4), medium dense, moist, fine-grained, trace clay.	SM
14/17/22	150	☒	60	SAND: light brown (5YR 5/6), dense, moist, medium-grained, some coarse-grained sand, trace clay.	SP
16/18/20	180	☒	65	With coarse gravel, some cobble, trace clay.	
10/10/14	836	☒	70	SILTY SAND: moderate brown (5YR 4/4), medium dense, moist, fine-grained, trace clay.	SM
11/11/14	270	☒	75	Trace fine and coarse gravel.	
			80		ML

GRAPHIC LOG

WELL CONSTRUCTION DETAIL



TRC

LOG OF EXPLORATORY BORING

CB-1

L:\Graphics\ProjectsByNumber\20-xxxx\20-0800_\20-0948_76#0353\Boring Logs\CB-1.DWG Jan 30, 2006 - 11:40am rdsantos

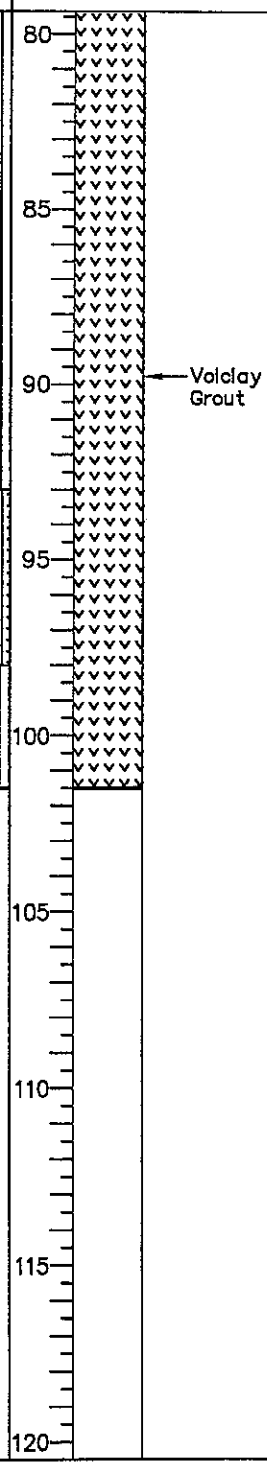
PROJECT NO.: 20-0948	DATE DRILLED: December 5, 2005
LOCATION: Former 76 Station 0353	LOGGED BY: S. Owens
200 South Central Avenue	APPROVED BY: J. Nordenstam, P.G.
Glendale, California	DRILLING CO./RIG: Cascade/CME-85

DRILLING METHOD: 8-inch Diameter Hollow Stem Auger
SAMPLER TYPE: 1.5-inch California Modified Split Spoon
TOTAL DEPTH: 101.5 feet DEPTH TO WATER: NA

BLOWS PER 6 INCHES	PID (ppmv)	SAMPLE	DEPTH (feet below grade)	DESCRIPTION	USCS
16/17/20	60.1		80	SANDY SILT: moderate brown (5YR 3/4), very stiff, moist, fine-grained sand, trace clay.	ML
17/18/21	40.4		85		
17/18/18	56.5		90	Trace clay.	
16/16/16	70.5		95	SILTY SAND: dark yellowish brown (10YR 4/2), dense, moist, fine-grained, some medium-grained sand, trace clay.	SM
50 for 6"	25.5		100	SILTY SAND/SANDY SILT: moderate brown (5YR 4/4), very dense, moist, medium-grained, trace clay.	SM/ ML
			105		
			110		
			115		
			120		

GRAPHIC LOG

WELL CONSTRUCTION DETAIL



TRC

LOG OF EXPLORATORY BORING

CB-1

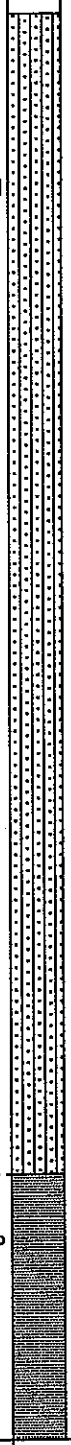
L:\Graphics\ProjectsByNumber\20-xxxx\20-0800_\20-0948_76#0353\Boring Logs\CB-1.DWG Jan 30, 2006 - 11:39am rdsantos

PROJECT NO.: 20-0948	DATE DRILLED: December 5, 2005
LOCATION: Former 76 Station 0353	LOGGED BY: S. Owens
200 South Central Avenue	APPROVED BY: J. Nordenstam, P.G.
Glendale, California	DRILLING CO./RIG: Cascade/CME-85

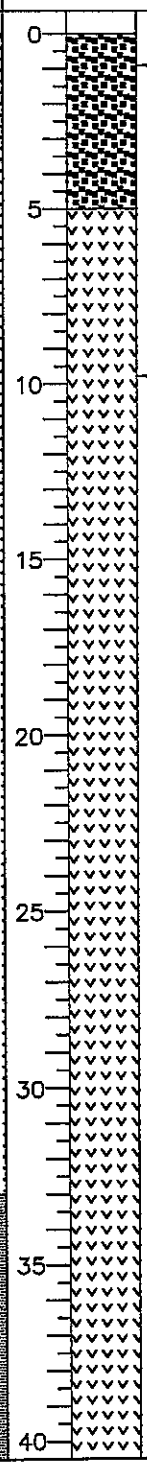
DRILLING METHOD: 8-inch Diameter Hollow Stem Auger
SAMPLER TYPE: 1.5-inch California Modified Split Spoon
TOTAL DEPTH: 42.0 feet DEPTH TO WATER: NA

BLOWS PER 6 INCHES	PID (ppmv)	SAMPLE	DEPTH (feet below grade)	DESCRIPTION	USCS
7/8/9	50.5	X	5	SILTY SAND: moderate brown (5YR 4/4), medium dense, moist, fine-grained, trace medium-grained sand, trace coarse gravel and clay.	SM
7/7/10	12.7	X	10		
10/10/10	6.4	X	15		
50 for 6"	8.1	X	20	Very dense.	
50 for 6"	6.2	X	25		
50 for 6"	6.5	X	30		
11/12/14	--	X	35	SAND: light brown (5YR 6/4), medium dense, moist, medium-grained, trace fine and coarse gravel, trace clay.	SP
			40		

GRAPHIC LOG



WELL CONSTRUCTION DETAIL



TRC

LOG OF EXPLORATORY BORING

CB-2

L:\Graphics\ProjectsByNumber\20-xxxx\20-0800_\20-0948_76#0353\Boring Logs\CB-2.DWG Jan 30, 2006 - 11:43am rdsantos

PROJECT NO.: 20-0948	DATE DRILLED: December 5, 2005
LOCATION: Former 76 Station 0353	LOGGED BY: S. Owens
200 South Central Avenue	APPROVED BY: J. Nordenstam, P.G.
Glendale, California	DRILLING CO./RIG: Cascade/CME-85

DRILLING METHOD: 8-inch Diameter Hollow Stem Auger
SAMPLER TYPE: 1.5-inch California Modified Split Spoon
TOTAL DEPTH: 42.0 feet DEPTH TO WATER: NA

BLOWS PER 6 INCHES	PID (ppmv)	SAMPLE	DEPTH (feet below grade)	DESCRIPTION	USCS	GRAPHIC LOG	WELL CONSTRUCTION DETAIL
7/7/8	5.1	☒	40	Refusal at approximately 42 feet.	SP		40 Volclay Grout
			45				45
			50				50
			55				55
			60				60
			65				65
			70				70
			75				75
			80				80

TRC

LOG OF EXPLORATORY BORING

CB-2

L:\Graphics\ProjectsByNumber\20-xxxx\20-0800_\20-0948_76#0353\Boring Logs\CB-2.DWG Jan 30, 2006 - 12:52pm rdsantos

PROJECT NO.: 20-0948	DATE DRILLED: December 7, 2005
LOCATION: Former 76 Station 0353	LOGGED BY: K. Keller
200 South Central Avenue	APPROVED BY: J. Nordenstam, P.G.
Glendale, California	DRILLING CO./RIG: Cascade/CME-85

DRILLING METHOD: 8-inch Diameter Hollow Stem Auger
SAMPLER TYPE: 1.5-inch California Modified Split Spoon
TOTAL DEPTH: 101.5 feet DEPTH TO WATER: 101 feet

BLOWS PER 6 INCHES	PID (ppmv)	SAMPLE	DEPTH (feet below grade)	DESCRIPTION	USCS	GRAPHIC LOG	WELL CONSTRUCTION DETAIL
			0, 5, 10, 15, 20, 25, 30, 35, 40	No soil samples collected from 5 to 45-feet below grade.			Bentonite Chips; Volclay Grout

TRC

LOG OF EXPLORATORY BORING

CB-2A

L:\Graphics\ProjectsByNumber\20-xxxx\20-0800_\20-0948_76#0353\Boring Logs\CB-2A.DWG Jan 30, 2006 - 12:54pm rdsantos

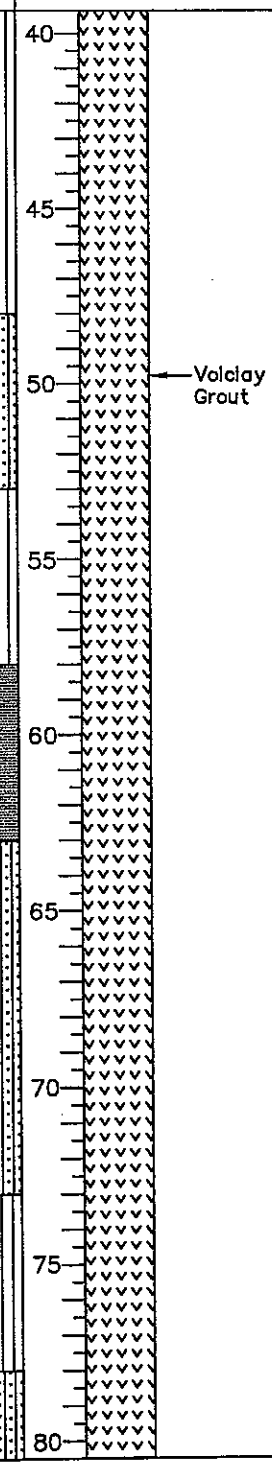
PROJECT NO.: 20-0948	DATE DRILLED: December 7, 2005
LOCATION: Former 76 Station 0353	LOGGED BY: K. Keller
200 South Central Avenue	APPROVED BY: J. Nordenstam, P.G.
Glendale, California	DRILLING CO./RIG: Cascade/CME-85

DRILLING METHOD: 8-inch Diameter Hollow Stem Auger
SAMPLER TYPE: 1.5-inch California Modified Split Spoon
TOTAL DEPTH: 101.5 feet DEPTH TO WATER: 101 feet

BLOWS PER 6 INCHES	PID (ppmv)	SAMPLE	DEPTH (feet below grade)	DESCRIPTION	USCS
			40		
17/18/24	11.7		45	SANDY SILT: grayish olive (10Y 4/2), stiff, moist, fine-grained sand, trace clay.	ML
18/20/30	1.7		50	SILTY SAND: moderate yellowish brown (10YR 5/4), dense, moist, fine-grained, trace fine gravel and clay.	SM
25/36/40	4.0		55	SANDY SILT: dark yellowish brown (10YR 4/2), hard, moist, medium-grained sand, trace fine-grained sand and gravel, trace clay.	ML
50 for 6"	1.2		60	SAND: dark yellowish orange (10YR 6/6), dense, moist, medium-grained, trace fine-grained sand, trace fine gravel and clay.	SP
50 for 6"	3.9		65	SILTY SAND: moderate yellowish brown (10YR 5/4), dense, moist, fine-grained, trace fine and coarse gravel, trace clay.	SM
14/17/28	4.1		70		
26/28/34	5.5		75	SANDY SILT: moderate yellowish brown (10YR 5/4), hard, moist, fine-grained sand, trace clay.	ML
			80		SM

GRAPHIC LOG

WELL CONSTRUCTION DETAIL



TRC

LOG OF EXPLORATORY BORING

CB-2A

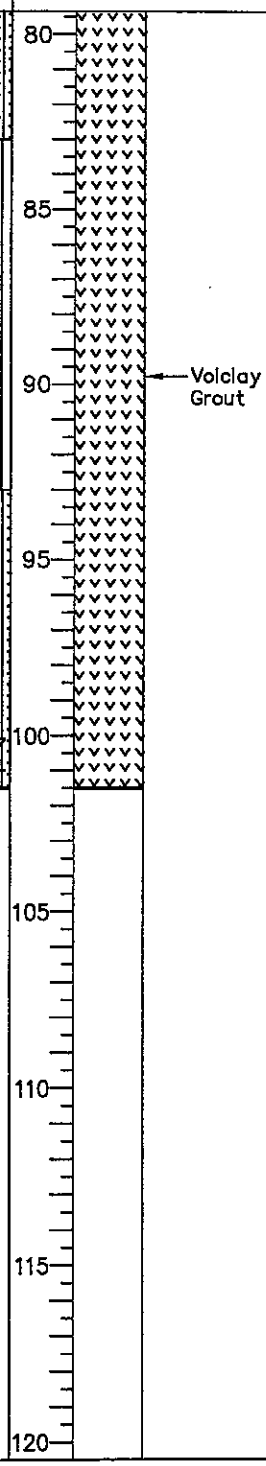
PROJECT NO.: 20–0948	DATE DRILLED: December 7, 2005
LOCATION: Former 76 Station 0353	LOGGED BY: K. Keller
200 South Central Avenue	APPROVED BY: J. Nordenstam, P.G.
Glendale, California	DRILLING CO./RIG: Cascade/CME–85

DRILLING METHOD: 8–inch Diameter Hollow Stem Auger
SAMPLER TYPE: 1.5–inch California Modified Split Spoon
TOTAL DEPTH: 101.5 feet DEPTH TO WATER: 101 feet

BLOWS PER 6 INCHES	PID (ppmv)	SAMPLE	DEPTH (feet below grade)	DESCRIPTION	USCS
19/21/36	5.6		80	SILTY SAND: moderate yellowish brown (10YR 5/4), dense, moist, fine-grained, trace clay.	SM
25/28/32	2.5		85	SANDY SILT: moderate yellowish brown (10YR 5/4), hard, moist, fine grained sand, some clay.	ML
22/26/34	6.6		90	Trace clay.	
13/16/28	1.9		95	SILTY SAND: moderate yellowish brown (10YR 5/4), dense, very moist, fine-grained, trace clay.	SM
16/22/34	0.8		100	Wet.	
			105		
			110		
			115		
			120		

GRAPHIC LOG

WELL CONSTRUCTION DETAIL



TRC

LOG OF EXPLORATORY BORING

CB-2A

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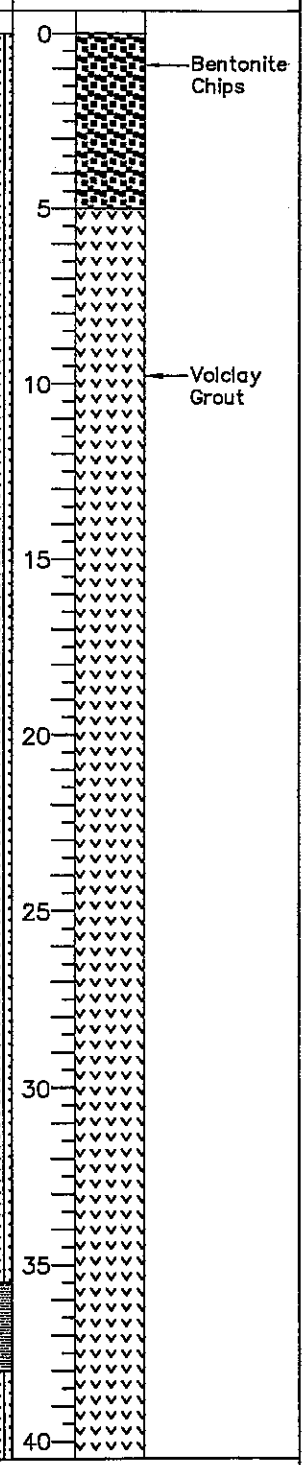
PROJECT NO.: 20–0948	DATE DRILLED: December 5 and 6, 2005
LOCATION: Former 76 Station 0353	LOGGED BY: S. Owens
200 South Central Avenue	APPROVED BY: J. Nordenstam, P.G.
Glendale, California	DRILLING CO./RIG: Cascade/CME–85

DRILLING METHOD: 8–inch Diameter Hollow Stem Auger
SAMPLER TYPE: 1.5–inch California Modified Split Spoon
TOTAL DEPTH: 101.5 feet DEPTH TO WATER: NA

BLOWS PER 6 INCHES	PID (ppmv)	SAMPLE	DEPTH (feet below grade)	DESCRIPTION	USCS
			0		
10/10/12	2.7		5	SILTY SAND: moderate brown (5YR 3/4), medium dense, moist, fine-grained, trace fine gravel, trace clay.	SM
6/8/10	3.1		10	Trace fine and coarse gravel.	
10/12/14	2.4		15		
28/50	3.2		20	Very dense.	
50 for 6"	4.1		25		
50 for 6"	3.3		30		
50 for 6"	2.0		35	SAND: light brown (5YR 6/4), very dense, moist, medium-grained, trace fine and coarse gravel, trace clay.	SP
			40		SM

GRAPHIC LOG

WELL CONSTRUCTION DETAIL



TRC

LOG OF EXPLORATORY BORING

CB-3

L:\Graphics\ProjectsByNumber\20–xxxx\20–0800_\20–0948_76#0353\Boring Logs\CB–3.DWG Jan 30, 2006 – 12:21pm rdsantos

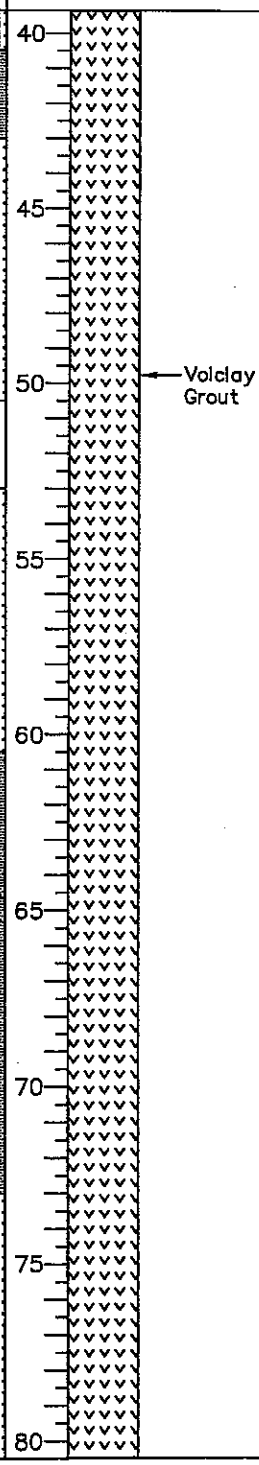
PROJECT NO.: 20-0948	DATE DRILLED: December 5 and 6, 2005
LOCATION: Former 76 Station 0353	LOGGED BY: S. Owens
200 South Central Avenue	APPROVED BY: J. Nordenstam, P.G.
Glendale, California	DRILLING CO./RIG: Cascade/CME-85

DRILLING METHOD: 8-inch Diameter Hollow Stem Auger
SAMPLER TYPE: 1.5-inch California Modified Split Spoon
TOTAL DEPTH: 101.5 feet DEPTH TO WATER: NA

BLOWS PER 6 INCHES	PID (ppmv)	SAMPLE	DEPTH (feet below grade)	DESCRIPTION	USCS
28/50	1.3	X	40	SILTY SAND: moderate brown (5YR 4/4) very dense, moist, fine-grained, trace clay.	SM
				SAND: pale yellowish brown (10YR 6/2), very dense, moist, fine-grained, trace coarse gravel, trace clay.	SP
50 for 12"	3.2	X	45	SILTY SAND: moderate brown (5YR 3/4), very dense, moist, fine-grained, trace fine and coarse gravel, trace clay.	SM
30/50	20.0	X	50	SANDY SILT: moderate brown (5Y 4/4), hard, moist, fine-grained sand, trace clay.	ML
22/23/36	374		55	SILTY SAND: moderate brown (5YR 3/4), very dense, moist, fine-grained, trace clay.	SM
50 for 6"	17.1	X	60	SAND: light brown (5YR 6/4), very dense, moist, medium-grained, trace fine and coarse gravel, trace clay.	SP
50 for 6"	30.8	X	65		
50 for 6"	4.6	X	70	Moderate brown (5YR 4/4), fine-grained.	
20/26/38	10.9		75	SILTY SAND: dark yellowish brrown (10YR 4/2), very dense, moist, fine-grained, trace fine and coarse gravel, trace clay.	SM
			80		

GRAPHIC LOG

WELL CONSTRUCTION DETAIL



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LOG OF EXPLORATORY BORING

CB-3

L:\Graphics\ProjectsByNumber\20-xxxx\20-0800_\20-0948_76#0353\Boring Logs\CB-3.DWG Jan 30, 2006 - 12:21pm rdsantos

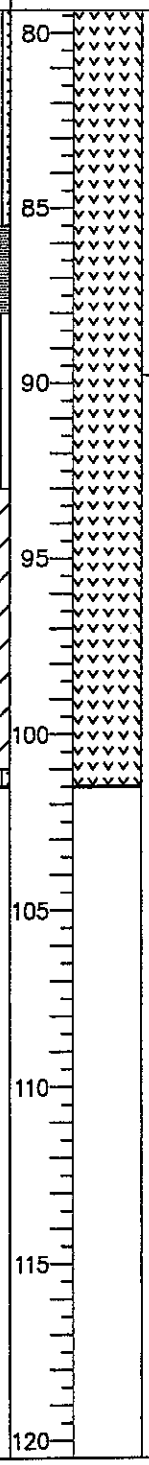
PROJECT NO.: 20-0948	DATE DRILLED: December 5 and 6, 2005
LOCATION: Former 76 Station 0353	LOGGED BY: S. Owens
200 South Central Avenue	APPROVED BY: J. Nordenstam, P.G.
Glendale, California	DRILLING CO./RIG: Cascade/CME-85

DRILLING METHOD: 8-inch Diameter Hollow Stem Auger
SAMPLER TYPE: 1.5-inch California Modified Split Spoon
TOTAL DEPTH: 101.5 feet DEPTH TO WATER: NA

BLOWS PER 6 INCHES	PID (ppmv)	SAMPLE	DEPTH (feet below grade)	DESCRIPTION	USCS
29/30/34	26.1		80	Moderate brown (5YR 4/4).	SM
			85		
50 for 6"	10.6			SAND: light brown (5YR 6/4), very dense, moist, fine-grained, trace clay.	SP
20/26/30	51.2		90	SANDY SILT: moderate brown (5YR 3/4), hard, moist, fine-grained sand, trace clay.	ML
19/28/30	56.4		95	CLAYEY SILT: moderate brown (5YR 4/4), hard, moist.	CL
18/20/24	42.8		100	SILTY SAND: moderate brown (5YR 3/4), dense, wet, fine-grained, trace clay.	SM
			105		
			110		
			115		
			120		

GRAPHIC LOG

WELL CONSTRUCTION DETAIL



TRC

LOG OF EXPLORATORY BORING

CB-3

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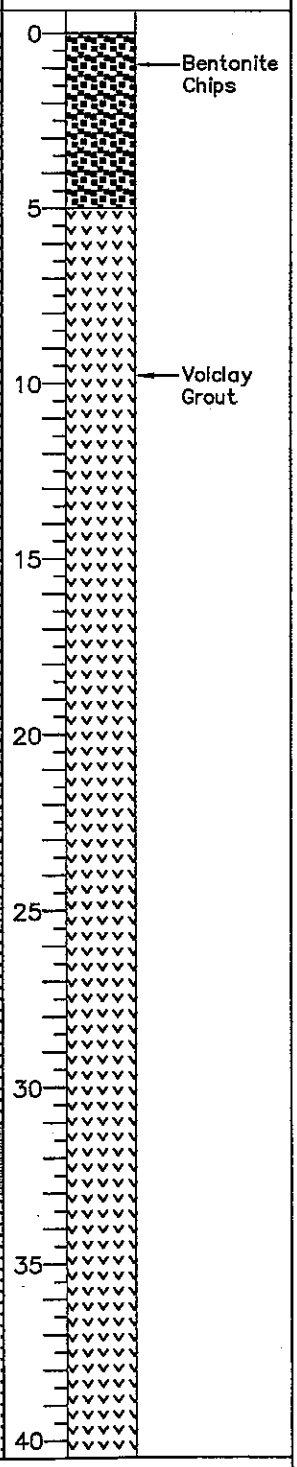
PROJECT NO.: 20-0948	DATE DRILLED: December 6, 2005
LOCATION: Former 76 Station 0353	LOGGED BY: S. Owens
200 South Central Avenue	APPROVED BY: J. Nordenstam, P.G.
Glendale, California	DRILLING CO./RIG: Cascade/CME-85

DRILLING METHOD: 8-inch Diameter Hollow Stem Auger
SAMPLER TYPE: 1.5-inch California Modified Split Spoon
TOTAL DEPTH: 101.5 feet DEPTH TO WATER: NA

BLOWS PER 6 INCHES	PID (ppmv)	SAMPLE	DEPTH (feet below grade)	DESCRIPTION	USCS
			0		
50 for 6"	4.0	X	5	SILTY SAND: moderate brown (5YR 4/4), very dense, moist, fine-grained, some coarse-grained sand, trace fine-grained sand, trace fine and coarse gravel, trace clay.	SM
50 for 6"	3.6	X	10		
50 for 6"	4.1	X	15	Trace cobble.	
50 for 6"	5.5	X	20	No cobble.	
50 for 6"	8.2	X	25	Trace cobble.	
17/22/32	76.9		30	SAND: light brown (5YR 6/4), very dense, moist, fine-grained, trace fine and coarse gravel, trace clay.	SP
50 for 6"	>1,999	X	35	SILTY SAND: dark yellowish brown (10YR 4/2), very dense, moist, fine-grained, trace medium-grained sand, trace fine and coarse gravel, trace clay.	SM
			40		

GRAPHIC LOG

WELL CONSTRUCTION DETAIL



TRC

LOG OF EXPLORATORY BORING

CB-4

PROJECT NO.: 20-0948	DATE DRILLED: December 6, 2005
LOCATION: Former 76 Station 0353	LOGGED BY: S. Owens
200 South Central Avenue	APPROVED BY: J. Nordenstam, P.G.
Glendale, California	DRILLING CO./RIG: Cascade/CME-85

DRILLING METHOD: 8-inch Diameter Hollow Stem Auger
SAMPLER TYPE: 1.5-inch California Modified Split Spoon
TOTAL DEPTH: 101.5 feet DEPTH TO WATER: NA

BLOWS PER 6 INCHES	PID (ppmv)	SAMPLE	DEPTH (feet below grade)	DESCRIPTION	USCS
			40	Moderate brown (5YR 4/4).	SM
28/50	>1,999			SAND: pale yellowish brown (10YR 6/2), very dense, moist, medium-grained, trace fine and coarse gravel.	SP
			45	SILTY SAND: pale brown (5YR 5/2), very dense, moist, fine-grained.	SM
20/26/38	>1,999			CLAYEY SILT: moderate brown (5YR 3/4), hard, moist.	CL
				SILTY SAND: moderate brown (5YR 4/4), very dense, moist, fine-grained.	SM
50 for 6"	>1,999		50	SAND: light brown (5YR 5/6), very dense, moist, fine-grained, trace fine and coarse gravel.	SP
			55	SILTY SAND: moderate brown (5YR 3/4), very dense, moist, fine-grained, trace fine and coarse gravel.	SM
37/50	>1,999				
34/50	>1,999		60	SAND: light brown (5YR 5/6), very dense, moist, medium-grained, trace fine and coarse gravel.	SP
			65	SANDY SILT: dark yellowish brown (10YR 4/2), hard, moist, fine-grained sand, trace clay.	ML
18/28/30	1,362			SILTY SAND: light brown (5YR 4/4), very dense, moist, fine-grained.	SM
			70	SANDY SILT: dark yellowish brown (10YR 4/2), hard, moist, fine-grained.	ML
28/50	>1,999			SILTY SAND: light brown (5YR 5/6), very dense, moist, fine-grained, trace fine and coarse gravel.	SM
			75	SAND: light brown (5YR 5/6), dense, moist, fine-grained.	SP
50 for 6"	>1,999				
			80		

GRAPHIC LOG

WELL CONSTRUCTION DETAIL

TRC

LOG OF EXPLORATORY BORING

CB-4

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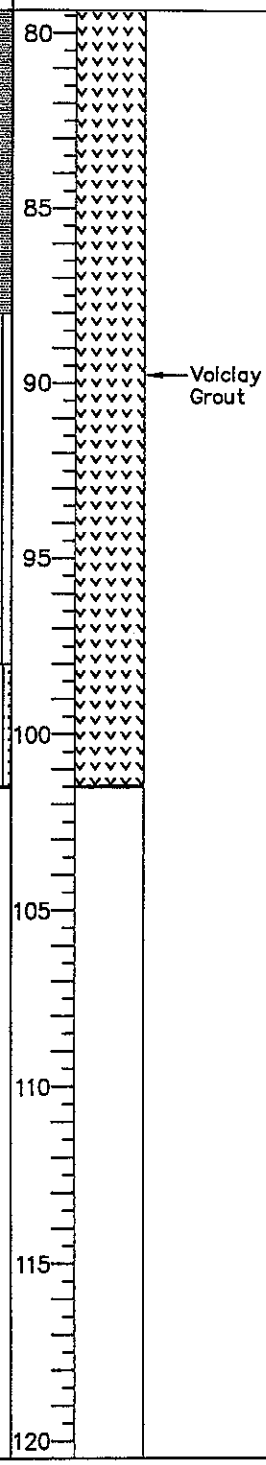
PROJECT NO.: 20-0948	DATE DRILLED: December 6, 2005
LOCATION: Former 76 Station 0353	LOGGED BY: S. Owens
200 South Central Avenue	APPROVED BY: J. Nordenstam, P.G.
Glendale, California	DRILLING CO./RIG: Cascade/CME-85

DRILLING METHOD: 8-inch Diameter Hollow Stem Auger
SAMPLER TYPE: 1.5-inch California Modified Split Spoon
TOTAL DEPTH: 101.5 feet DEPTH TO WATER: NA

BLOWS PER 6 INCHES	PID (ppmv)	SAMPLE	DEPTH (feet below grade)	DESCRIPTION	USCS
31/50	>1,999	X	80	Very dense, medium-grained, trace fine and coarse gravel, trace clay.	SP
50 for 12"	>1,999	X	85		
21/29/50	660		90	SANDY SILT: grayish brown (5YR 3/2), hard, moist, fine-grained sand, trace clay.	ML
50 for 6"	747.1	X	95		
50 for 6"	800	X	100	SILTY SAND: dark yellowish brown (10YR 4/2), very dense, moist, fine-grained, trace fine and coarse gravel, trace clay.	SM
			105		
			110		
			115		
			120		

GRAPHIC LOG

WELL CONSTRUCTION DETAIL



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LOG OF EXPLORATORY BORING

CB-4

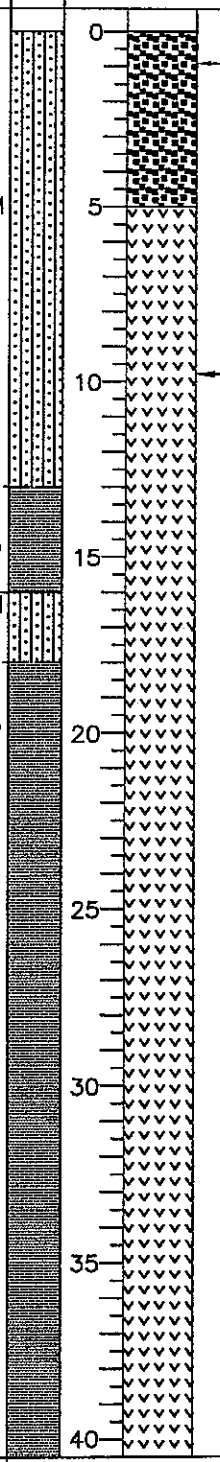
L:\Graphics\ProjectsByNumber\20-xxxx\20-0800_\20-0948_76#0353\Boring Logs\CB-4.DWG Jan 30, 2006 - 12:24pm rdsantos

PROJECT NO.: 20-0948	DATE DRILLED: December 7, 2005
LOCATION: Former 76 Station 0353	LOGGED BY: K. Keller
200 South Central Avenue	APPROVED BY: J. Nordenstam, P.G.
Glendale, California	DRILLING CO./RIG: Cascade/CME-85

DRILLING METHOD: 8-inch Diameter Hollow Stem Auger
SAMPLER TYPE: 1.5-inch California Modified Split Spoon
TOTAL DEPTH: 101.5 feet DEPTH TO WATER: NA

BLOWS PER 6 INCHES	PID (ppmv)	SAMPLE	DEPTH (feet below grade)	DESCRIPTION	USCS
--	0.4		5	SILTY SAND: moderate brown (5YR 4/4), medium dense, moist, fine-grained, trace clay.	SM
50 for 6"	28.2		10	Dark yellowish brown (10YR 4/2), dense, trace fine and coarse gravel, trace cobble, trace clay.	
27/50	15.9		15	SAND: moderate brown (5YR 4/4) dense, moist, trace fine and coarse gravel, trace clay.	SP
				SILTY SAND: moderate brown (5YR 4/4), dense, moist, fine-grained, trace clay.	SM
50 for 6"	5.5		20	SAND: moderate yellowish brown (10YR 5/4), dense, moist, fine-grained, some medium-grained sand, trace fine and coarse gravel, trace silt and clay.	SP
17/23/40	4.8		25		
50 for 6"	4.6		30		
50 for 12"	12.2		35	No medium-grained sand, silt, or clay.	
			40		

GRAPHIC LOG



WELL CONSTRUCTION DETAIL

TRC

LOG OF EXPLORATORY BORING

CB-5

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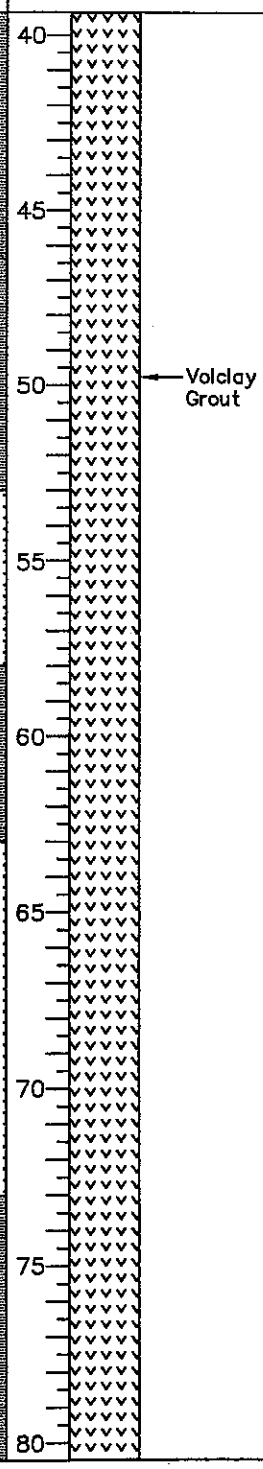
PROJECT NO.: 20-0948	DATE DRILLED: December 7, 2005
LOCATION: Former 76 Station 0353	LOGGED BY: K. Keller
200 South Central Avenue	APPROVED BY: J. Nordenstam, P.G.
Glendale, California	DRILLING CO./RIG: Cascade/CME-85

DRILLING METHOD: 8-inch Diameter Hollow Stem Auger
SAMPLER TYPE: 1.5-inch California Modified Split Spoon
TOTAL DEPTH: 101.5 feet DEPTH TO WATER: NA

BLOWS PER 6 INCHES	PID (ppmv)	SAMPLE	DEPTH (feet below grade)	DESCRIPTION	USCS
50 for 6"	2.7	X	40	Some medium-grained sand, trace clay.	SP
50 for 6"	23.1	X	45		
50 for 6"	13.3	X	50	No medium-grained sand, trace silt and clay.	
50 for 6"	203	X	55	SILTY SAND: moderate yellowish brown (10YR 5/4), dense, moist, fine-grained, trace fine and coarse gravel, trace coarse-grained sand and clay.	SM
50 for 6"	16.4	X	60	SAND: moderate yellowish brown (10YR 5/4), dense, moist, fine-grained, some medium-grained sand, trace fine and coarse gravel, trace coarse-grained sand and clay.	SP
22/23/30	20.3		65	SILTY SAND: moderate yellowish brown (10YR 5/4), dense, moist, fine-grained, trace fine and coarse gravel, trace clay.	SM
50 for 6"	35.1	X	70		
50 for 6"	22.9	X	75	SAND: moderate yellowish brown (10YR 5/4), dense, moist, fine-grained, trace medium-grained sand, trace clay.	SP
			80		

GRAPHIC LOG

WELL CONSTRUCTION DETAIL



TRC

LOG OF EXPLORATORY BORING

CB-5

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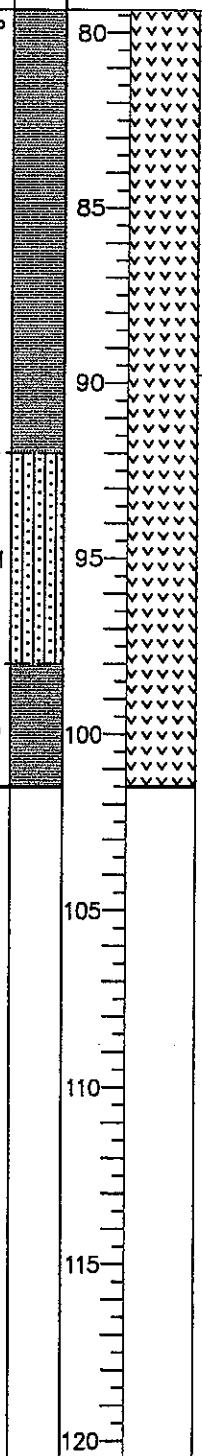
PROJECT NO.: 20-0948	DATE DRILLED: December 7, 2005
LOCATION: Former 76 Station 0353	LOGGED BY: K. Keller
200 South Central Avenue	APPROVED BY: J. Nordenstam, P.G.
Glendale, California	DRILLING CO./RIG: Cascade/CME-85

DRILLING METHOD: 8-inch Diameter Hollow Stem Auger
SAMPLER TYPE: 1.5-inch California Modified Split Spoon
TOTAL DEPTH: 101.5 feet DEPTH TO WATER: NA

BLOWS PER 6 INCHES	PID (ppmv)	SAMPLE	DEPTH (feet below grade)	DESCRIPTION	USCS
29/50	6.7	X	80	Trace coarse-grained sand, trace fine and coarse gravel, trace clay.	SP
50 for 6"	2.4	X	85		
29/40	6.9	X	90	Trace fine gravel.	
19/20/29	12.7		95	SILTY SAND: moderate brown (5YR 4/4), dense, moist, fine-grained, trace fine gravel, trace clay.	SM
50 for 6"	7.9	X	100	SAND: moderate yellowish brown (10YR 5/4), dense, moist, fine-grained, trace fine gravel, trace clay and silt.	SP
			105		
			110		
			115		
			120		

GRAPHIC LOG



WELL CONSTRUCTION DETAIL

TRC

LOG OF EXPLORATORY BORING

CB-5

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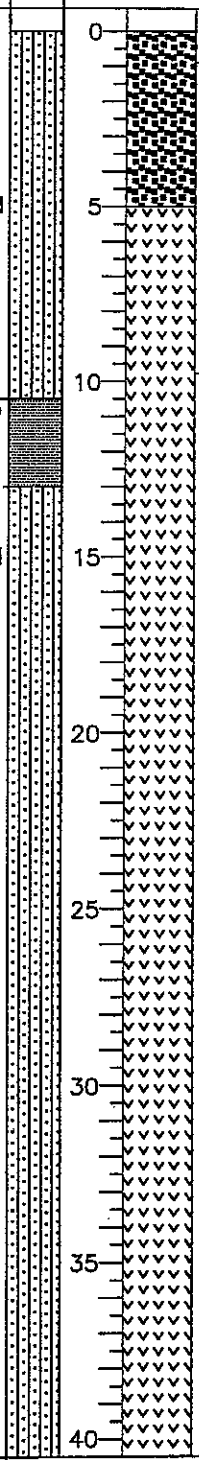
PROJECT NO.: 20-0948	DATE DRILLED: December 8, 2005
LOCATION: Former 76 Station 0353	LOGGED BY: S. Owens
200 South Central Avenue	APPROVED BY: J. Nordenstam, P.G.
Glendale, California	DRILLING CO./RIG: Cascade/CME-85

DRILLING METHOD: 8-inch Diameter Hollow Stem Auger
SAMPLER TYPE: 1.5-inch California Modified Split Spoon
TOTAL DEPTH: 101.5 feet DEPTH TO WATER: NA

BLOWS PER 6 INCHES	PID (ppmv)	SAMPLE	DEPTH (feet below grade)	DESCRIPTION	USCS
--	11.0		0–5	SILTY SAND: dark yellowish brown (10YR 4/2), medium dense, moist, fine-grained, trace fine and coarse gravel, trace clay.	SM
20/24/28	2.6		10	SAND: pale yellowish brown (10YR 6/2), very dense, moist, fine-grained, trace clay.	SP
50 for 6"	7.4		15	SILTY SAND: dark yellowish brown (10YR 4/2), very dense, moist, fine-grained, trace fine and coarse gravel, trace clay.	SM
50 for 6"	1.8		20		
50 for 6"	1.4		25		
50 for 6"	2.9		30	With fine and coarse gravel.	
50 for 6"	1.8		35	Trace fine and coarse gravel.	
			40		

GRAPHIC LOG



WELL CONSTRUCTION DETAIL

TRC

LOG OF EXPLORATORY BORING

CB-6

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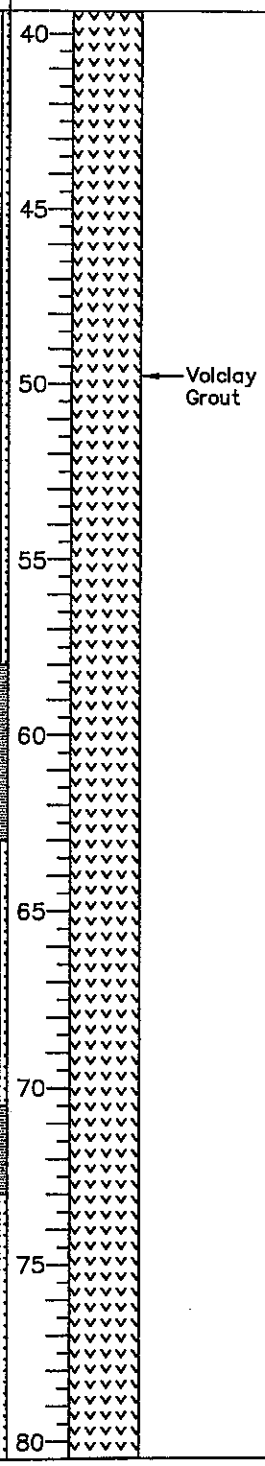
PROJECT NO.: 20-0948	DATE DRILLED: December 8, 2005
LOCATION: Former 76 Station 0353	LOGGED BY: S. Owens
200 South Central Avenue	APPROVED BY: J. Nordenstam, P.G.
Glendale, California	DRILLING CO./RIG: Cascade/CME-85

DRILLING METHOD: 8-inch Diameter Hollow Stem Auger
SAMPLER TYPE: 1.5-inch California Modified Split Spoon
TOTAL DEPTH: 101.5 feet DEPTH TO WATER: NA

BLOWS PER 6 INCHES	PID (ppmv)	SAMPLE	DEPTH (feet below grade)	DESCRIPTION	USCS
50 for 6"	2.9	X	40	Trace coarse gravel, trace clay.	SM
50 for 6"	26.4	X	45	Trace fine and coarse gravel, no clay.	
50 for 6"	4.6	X	50		
50 for 6"	146	X	55		
50 for 6"	3.2	X	60	SAND: grayish orange (10YR 7/4), very dense, moist, medium-grained, trace coarse gravel, trace clay.	SP
50 for 6"	5.6		65	SILTY SAND: dark yellowish brown (10YR 4/2), very dense, moist, fine-grained, trace fine and coarse gravel, trace clay.	SM
50 for 6"	5.3	X	70	SAND: pale yellowish brown (10YR 6/2), very dense, moist, fine-grained, trace fine and coarse gravel, trace clay and cobble.	SP
50 for 6"	5.9		75	SILTY SAND: dark yellowish brown (10YR 4/2), very dense, moist, fine-grained, trace clay.	SM
			80		

GRAPHIC LOG

WELL CONSTRUCTION DETAIL



TRC

LOG OF EXPLORATORY BORING

CB-6

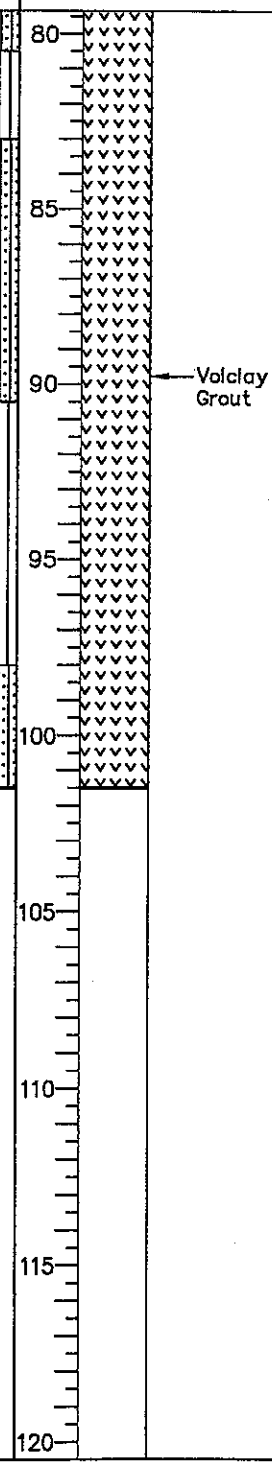
PROJECT NO.: 20-0948	DATE DRILLED: December 8, 2005
LOCATION: Former 76 Station 0353	LOGGED BY: S. Owens
200 South Central Avenue	APPROVED BY: J. Nordenstam, P.G.
Glendale, California	DRILLING CO./RIG: Cascade/CME-85

DRILLING METHOD: 8-inch Diameter Hollow Stem Auger
SAMPLER TYPE: 1.5-inch California Modified Split Spoon
TOTAL DEPTH: 101.5 feet DEPTH TO WATER: NA

BLOWS PER 6 INCHES	PID (ppmv)	SAMPLE	DEPTH (feet below grade)	DESCRIPTION	USCS
43/50	3.3	X	80	SANDY SILT: dark yellowish brown (10YR 4/2), hard, moist, fine-grained sand.	SM / ML
39/50	4.7	X	85	SILTY SAND: moderate brown (5YR 4/4), very dense, moist, fine-grained, trace clay.	SM
28/28/50	7.9		90	SANDY SILT: dark yellowish brown (10YR 4/2), hard, moist, fine-grained sand, trace clay.	ML
46/50	2.9	X	95		
32/50	7.1	X	100	SILTY SAND: dark yellowish brown (10YR 4/2), very dense, moist, fine-grained, trace clay.	SM
			105		
			110		
			115		
			120		

GRAPHIC LOG

WELL CONSTRUCTION DETAIL



TRC

LOG OF EXPLORATORY BORING

CB-6

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APPENDIX C

QUARTERLY MONITORING REPORT
JANUARY THROUGH MARCH 2006

TRC

QUARTERLY MONITORING REPORT
JANUARY THROUGH MARCH 2006

FORMER 76 STATION 0353
200 South Central Avenue
Glendale, California

Prepared For:

Ms. Shari London
CONOCOPHILLIPS COMPANY
3611 Harbor Boulevard Suite 200
Santa Ana, California 92704

By:

CERTIFIED ENGINEERING GEOLOGIST
DENNIS E. JENSEN
No. EG 1034
Exp. 4/07
STATE OF CALIFORNIA

Senior Project Geologist, Irvine Operations
February 2, 2006

21 Technology Drive • Irvine, California 92618
Main: 949-727-9336 • Fax: 949-727-7399
www.trcsolutions.com

LIST OF ATTACHMENTS	
Summary Sheet	Summary of Gauging and Sampling Activities
Tables	Table Key Contents of Tables Table 1: Current Fluid Levels and Selected Analytical Results Table 1a: Additional Current Analytical Results Table 2: Historic Fluid Levels and Selected Analytical Results Table 2a: Additional Historic Analytical Results
Figures	Figure 1: Vicinity Map Figure 2: Groundwater Elevation Contour Map Figure 3: Dissolved-Phase TPPH Concentration Map Figure 4: Dissolved-Phase Benzene Concentration Map Figure 5: Dissolved-Phase MTBE Concentration Map
Graphs	Groundwater Elevations vs. Time Benzene Concentrations vs. Time
Field Activities	General Field Procedures Field Monitoring Data Sheet(s) – 1/17/06 Groundwater Sampling Field Notes – 1/17/06
Laboratory Reports	Official Laboratory Reports Quality Control Reports Chain of Custody Records
Disposal Documents	Disposal/Treatment Manifests – Current (Pending)
Statement	Limitations

Summary of Gauging and Sampling Activities
January 2006 through March 2006
Former 76 Station 0353
200 South Central Avenue
Glendale, CA

Project Coordinator: **Shari London**
Telephone: **714-428-7720**
Date(s) of Gauging/Sampling Event: **01/17/06**

Water Sampling Contractor: ***TRC***
Compiled by: **Alma Montaño**

Sample Points

Groundwater wells: **4** onsite, **5** offsite Wells gauged: **9** Wells sampled: **9**
Purging method: **Submersible pump**
Purge water disposal: **Crosby and Overton treatment facility**
Other Sample Points: **0** Type: **n/a**

Liquid Phase Hydrocarbons (LPH)

Wells with LPH: **0** Maximum thickness (feet): **n/a**
LPH removal frequency: **n/a** Method: **n/a**
Treatment or disposal of water/LPH: **n/a**

Hydrogeologic Parameters

Depth to groundwater (below TOC): Minimum: **97.6 feet** Maximum: **99.92 feet**
Average groundwater elevation (relative to available local datum): **418.14 feet**
Average change in groundwater elevation since previous event: **1.53 feet**
Interpreted groundwater gradient and flow direction:
Current event: **0.004 ft/ft, west**
Previous event: *** see notes below (10/11/05)**

Selected Laboratory Results

Wells with detected **Benzene:** **2** Wells above MCL (1.0 µg/l): **0**
Maximum reported benzene concentration: **0.22J µg/l (MW-5)**

Wells with **TPPH 8260B** **0**
Wells with **MTBE** **5** Maximum: **2.0 µg/l (MW-3A)**

Notes:

* = Previous groundwater gradient appears to be internal toward MW-3A.

This report presents the results of groundwater monitoring and sampling activities performed by TRC. Please contact the primary consultant for other specific information on this site.

TABLES

TABLE KEY

STANDARD ABBREVIATIONS

--	=	not analyzed, measured, or collected
LPH	=	liquid-phase hydrocarbons
Trace	=	less than 0.01 foot of LPH in well
µg/l	=	micrograms per liter (approx. equivalent to parts per billion, ppb)
mg/l	=	milligrams per liter (approx. equivalent to parts per million, ppm)
ND<	=	not detected at or above laboratory detection limit
TOC	=	top of casing (surveyed reference elevation)

ANALYTES

BTEX	=	benzene, toluene, ethylbenzene, and (total) xylenes
DIPE	=	di-isopropyl ether
ETBE	=	ethyl tertiary butyl ether
MTBE	=	methyl tertiary butyl ether
PCB	=	polychlorinated biphenyls
PCE	=	tetrachloroethene
TBA	=	tertiary butyl alcohol
TCA	=	trichloroethane
TCE	=	trichloroethene
TPH-G	=	total petroleum hydrocarbons with gasoline distinction
TPH-D	=	total petroleum hydrocarbons with diesel distinction
TPPH	=	total purgeable petroleum hydrocarbons
TRPH	=	total recoverable petroleum hydrocarbons
TAME	=	tertiary amyl methyl ether
1,1-DCA	=	1,1-dichloroethane
1,2-DCA	=	1,2-dichloroethane (same as EDC, ethylene dichloride)
1,1-DCE	=	1,1-dichloroethene
1,2-DCE	=	1,2-dichloroethene (cis- and trans-)

NOTES

1. Elevations are in feet above mean sea level. Depths are in feet below surveyed top-of-casing.
2. Groundwater elevations for wells with LPH are calculated as: Surface Elevation – Measured Depth to Water + (Dp x LPH Thickness), where Dp is the density of the LPH, if known. A value of 0.75 is used for gasoline and when the density is not known. A value of 0.83 is used for diesel.
3. Wells with LPH are generally not sampled for laboratory analysis (see General Field Procedures).
4. Comments shown on tables are general. Additional explanations may be included in field notes and laboratory reports, both of which are included as part of this report.
5. A "J" flag indicates that a reported analytical result is an estimated concentration value between the method detection limit (MDL) and the practical quantification limit (PQL) specified by the laboratory.
6. Other laboratory flags (qualifiers) may have been reported. See the official laboratory report (attached) for a complete list of laboratory flags.
7. Concentration graphs based on tables (presented following Figures) show non-detect results prior to the Second Quarter 2000 plotted at fixed values for graphical display. Non-detect results reported since that time are plotted at reporting limits stated in the official laboratory report.
8. Groundwater vs. Time graphs may be corrected for apparent level changes due to resurvey.

REFERENCE

TRC began groundwater monitoring and sampling for Former 76 Station 0353 in January 2005. Historical data compiled prior to that time were provided by EP Associates.

Contents of Tables
Site: 0353

Table 1	Well/ Date	Depth to Water	LPH Thickness	Ground-water Elevation	Change in elevation	TPH-G (8015B)	TPPH (TPPH 8260)	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE (8021B)	MTBE (8260B)	TBA	Comments
Table 1a	Well/ Date	DIPE	Ethanol (8260B)	ETBE	TAME	Iron Ferrous	Manganese (dissolved)	Nitrate	Sulfate	Alkalinity (total)	Pre-purge Dissolved Oxygen	Pre-purge ORP			
Table 2	Well/ Date	Depth to Water	LPH Thickness	Ground-water Elevation	Change in elevation	TPH-G (8015B)	TPPH (TPPH 8260)	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE (8021B)	MTBE (8260B)	TBA	Comments
Table 2a	Well/ Date	DIPE	Ethanol (8260B)	ETBE	TAME	Iron Ferric	Iron Ferrous	Manganese (dissolved)	Nitrate	Sulfate	Alkalinity (total)	Pre-purge Dissolved Oxygen	Pre-purge ORP		

Table 1
SUMMARY OF GROUNDWATER LEVELS AND CHEMICAL ANALYSIS RESULTS
January 17, 2006
Former 76 Station 0353

Date Sampled	TOC Elevation	Depth to Water	LPH Thickness	Ground-water Elevation	Change in Elevation	TPH-G (8015B)	TPPH (TPPH 8260)	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE (8021B)	MTBE (8260B)	TBA	Comments
	(feet)	(feet)	(feet)	(feet)	(feet)	(mg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	
MW-1A		**(Screen Interval in feet: DNA)**													
01/17/06	517.74	99.25	0.00	418.49	1.03	--	ND<50	ND<1.0	ND<1.0	ND<1.0	ND<1.0	--	0.26J	ND<10	
MW-2		**(Screen Interval in feet: 90-119)**													
01/17/06	517.78	99.33	0.00	418.45	1.03	--	ND<50	ND<1.0	ND<1.0	ND<1.0	ND<1.0	--	ND<2.0	ND<10	
MW-3A		**(Screen Interval in feet: DNA)**													
01/17/06	517.10	98.80	0.00	418.30	2.50	--	ND<50	ND<1.0	ND<1.0	ND<1.0	ND<1.0	--	2.0	ND<10	
MW-4		**(Screen Interval in feet: 80-119)**													
01/17/06	516.50	98.29	0.00	418.21	1.88	--	ND<50	ND<1.0	ND<1.0	ND<1.0	ND<1.0	--	0.25J	ND<10	
MW-5		**(Screen Interval in feet: 90-119)**													
01/17/06	515.80	97.64	0.00	418.16	2.31	--	ND<50	0.22J	ND<1.0	ND<1.0	ND<1.0	--	0.18J	ND<10	
MW-6		**(Screen Interval in feet: DNA)**													
01/17/06	517.35	99.92	0.00	417.43	0.01	--	ND<50	ND<1.0	ND<1.0	ND<1.0	ND<1.0	--	ND<2.0	ND<10	
MW-7		**(Screen Interval in feet: 90-120)**													
01/17/06	516.88	98.75	0.00	418.13	1.61	--	ND<50	0.15J	0.18J	ND<1.0	ND<1.0	--	ND<2.0	ND<10	
MW-8		**(Screen Interval in feet: 90-119)**													
01/17/06	516.26	98.12	0.00	418.14	1.72	--	ND<50	ND<1.0	ND<1.0	ND<1.0	ND<1.0	--	0.25J	ND<10	
MW-9		**(Screen Interval in feet: DNA)**													
01/17/06	515.58	97.60	0.00	417.98	1.69	--	ND<50	ND<1.0	ND<1.0	ND<1.0	ND<1.0	--	ND<2.0	ND<10	

Table 1 a
ADDITIONAL CURRENT ANALYTICAL RESULTS
Former 76 Station 0353

Date Sampled	DIPE (µg/l)	Ethanol (8260B) (µg/l)	ETBE (µg/l)	TAME (µg/l)	Iron Ferrous (µg/l)	Manganese (dissolved) (µg/l)	Nitrate (mg/l)	Sulfate (mg/l)	Alkalinity (total) (mg/l)	Pre-purge Dissolved Oxygen (mg/l)	Pre-purge ORP (mV)
MW-1A											
01/17/06	ND<2.0	ND<1000	ND<2.0	ND<2.0	--	--	--	--	--	--	--
MW-2											
01/17/06	ND<2.0	ND<1000	ND<2.0	ND<2.0	--	--	--	--	--	--	--
MW-3A											
01/17/06	ND<2.0	ND<1000	ND<2.0	ND<2.0	--	--	--	--	--	--	--
MW-4											
01/17/06	ND<2.0	ND<1000	ND<2.0	ND<2.0	ND<100	ND<10	19	110	220	4.85	149
MW-5											
01/17/06	ND<2.0	ND<1000	ND<2.0	ND<2.0	--	--	--	--	--	--	--
MW-6											
01/17/06	ND<2.0	ND<1000	ND<2.0	ND<2.0	--	--	--	--	--	--	--
MW-7											
01/17/06	ND<2.0	ND<1000	ND<2.0	ND<2.0	ND<100	7.8J	10	170	190	5.89	124
MW-8											
01/17/06	ND<2.0	ND<1000	ND<2.0	ND<2.0	--	--	--	--	--	--	--
MW-9											
01/17/06	ND<2.0	ND<1000	ND<2.0	ND<2.0	--	--	--	--	--	--	--

Table 2
HISTORIC GROUNDWATER LEVELS AND CHEMICAL ANALYSIS RESULTS
September 2004 Through January 2006
Former 76 Station 0353

Date Sampled	TOC Elevation	Depth to Water	LPH Thickness	Ground-water Elevation	Change in Elevation	TPH-G (8015B)	TPPH (TPPH 8260)	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE (8021B)	MTBE (8260B)	TBA	Comments
	(feet)	(feet)	(feet)	(feet)	(feet)	(mg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	
MW-1	**(Screen Interval in feet: 90-128)**														
09/02/04	--	--	--	--	--	0.019	--	ND<1.0	ND<1.0	ND<1.0	ND<3.0	--	27.7	ND<50	
09/10/04	518.79	102.70	0.00	416.09	--	--	--	--	--	--	--	--	--	--	
01/04/05	518.79	103.02	0.00	415.77	-0.32	ND<0.010	--	ND<1.0	ND<1.0	ND<1.0	ND<3.0	--	ND<1.0	ND<50	
05/09/05	518.79	101.85	0.00	416.94	1.17	--	ND<50	ND<1.0	ND<1.0	ND<1.0	ND<1.0	--	0.23J	ND<50	
07/05/05	518.79	101.29	0.00	417.50	0.56	--	ND<50	ND<1.0	ND<1.0	ND<1.0	ND<1.0	--	ND<2.0	ND<10	
MW-1A	**(Screen Interval in feet: DNA)**														
10/11/05	517.74	100.28	0.00	417.46	--	--	ND<50	ND<1.0	ND<1.0	ND<1.0	ND<1.0	--	2.4	ND<10	
01/17/06	517.74	99.25	0.00	418.49	1.03	--	ND<50	ND<1.0	ND<1.0	ND<1.0	ND<1.0	--	0.26J	ND<10	
MW-2	**(Screen Interval in feet: 90-119)**														
09/02/04	--	--	--	--	--	0.013	--	ND<1.0	ND<1.0	ND<1.0	ND<3.0	--	14.9	ND<50	
09/10/04	518.18	102.30	0.00	415.88	--	--	--	--	--	--	--	--	--	--	
01/04/05	518.18	102.59	0.00	415.59	-0.29	ND<0.010	--	ND<1.0	ND<1.0	ND<1.0	ND<3.0	--	ND<1.0	ND<50	
05/09/05	518.18	101.58	0.00	416.60	1.01	--	ND<50	ND<1.0	ND<1.0	ND<1.0	ND<1.0	--	0.57J	ND<50	
07/05/05	518.18	101.08	0.00	417.10	0.50	--	ND<50	ND<1.0	ND<1.0	ND<1.0	ND<1.0	--	ND<2.0	ND<10	
10/11/05	517.78	100.36	0.00	417.42	0.32	--	ND<50	ND<1.0	ND<1.0	ND<1.0	ND<1.0	--	0.38J	ND<10	
01/17/06	517.78	99.33	0.00	418.45	1.03	--	ND<50	ND<1.0	ND<1.0	ND<1.0	ND<1.0	--	ND<2.0	ND<10	
MW-3	**(Screen Interval in feet: 90-119)**														
09/02/04	--	--	--	--	--	0.185	--	2.6	ND<1.0	0.5J	ND<3.0	--	217	ND<50	
09/10/04	517.76	101.86	0.00	415.90	--	--	--	--	--	--	--	--	--	--	
01/04/05	517.76	102.15	0.00	415.61	-0.29	ND<0.010	--	ND<1.0	ND<1.0	ND<1.0	ND<3.0	--	18.7	ND<50	
05/09/05	517.76	100.95	0.00	416.81	1.20	--	32J	ND<1.0	ND<1.0	ND<1.0	ND<1.0	--	21	ND<50	
07/05/05	517.76	100.42	0.00	417.34	0.53	--	ND<50	ND<1.0	ND<1.0	ND<1.0	ND<1.0	--	2.6	ND<10	
MW-3A	**(Screen Interval in feet: DNA)**														

Table 2
HISTORIC GROUNDWATER LEVELS AND CHEMICAL ANALYSIS RESULTS
September 2004 Through January 2006
Former 76 Station 0353

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G (8015B) (mg/l)	TPPH (TPPH 8260) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	TBA (µg/l)	Comments
MW-3A continued															
10/11/05	517.10	101.30	0.00	415.80	--	--	33J	ND<1.0	ND<1.0	ND<1.0	ND<1.0	--	50	ND<10	
01/17/06	517.10	98.80	0.00	418.30	2.50	--	ND<50	ND<1.0	ND<1.0	ND<1.0	ND<1.0	--	2.0	ND<10	
MW-4	**(Screen Interval in feet: 80-119)**														
09/02/04	--	--	--	--	--	0.033	--	ND<1.0	ND<1.0	ND<1.0	ND<3.0	--	44.5	ND<50	
09/10/04	517.31	102.20	0.00	415.11	--	--	--	--	--	--	--	--	--	--	
01/04/05	517.31	101.51	0.00	415.80	0.69	ND<0.010	--	ND<1.0	ND<1.0	ND<1.0	ND<3.0	--	ND<1.0	ND<50	
05/09/05	517.31	100.30	0.00	417.01	1.21	--	ND<50	ND<1.0	ND<1.0	ND<1.0	ND<1.0	--	0.32J	ND<50	
07/05/05	517.31	99.85	0.00	417.46	0.45	--	ND<50	ND<1.0	ND<1.0	ND<1.0	ND<1.0	--	0.20J	ND<10	
10/11/05	516.50	100.17	0.00	416.33	-1.13	--	ND<50	ND<1.0	ND<1.0	ND<1.0	ND<1.0	--	ND<2.0	ND<10	
01/17/06	516.50	98.29	0.00	418.21	1.88	--	ND<50	ND<1.0	ND<1.0	ND<1.0	ND<1.0	--	0.25J	ND<10	
MW-5	**(Screen Interval in feet: 90-119)**														
09/02/04	--	--	--	--	--	ND<0.010	--	ND<1.0	ND<1.0	ND<1.0	ND<3.0	--	ND<1.0	ND<50	
09/10/04	516.85	100.63	0.00	416.22	--	--	--	--	--	--	--	--	--	--	
01/04/05	516.85	100.93	0.00	415.92	-0.30	ND<0.010	--	ND<1.0	ND<1.0	ND<1.0	ND<3.0	--	ND<1.0	ND<50	
05/09/05	516.85	99.90	0.00	416.95	1.03	--	ND<50	ND<1.0	ND<1.0	ND<1.0	ND<1.0	--	0.16J	ND<50	
07/05/05	516.85	99.33	0.00	417.52	0.57	--	ND<50	ND<1.0	ND<1.0	ND<1.0	ND<1.0	--	0.23J	ND<10	
10/11/05	515.80	99.95	0.00	415.85	-1.67	--	ND<50	ND<1.0	ND<1.0	ND<1.0	ND<1.0	--	ND<2.0	ND<10	
01/17/06	515.80	97.64	0.00	418.16	2.31	--	ND<50	0.22J	ND<1.0	ND<1.0	ND<1.0	--	0.18J	ND<10	
MW-6	**(Screen Interval in feet: DNA)**														
09/10/04	517.32	102.17	0.00	415.15	--	--	--	--	--	--	--	--	--	--	
01/04/05	517.32	102.17	0.00	415.15	0.00	ND<0.010	--	ND<1.0	ND<1.0	ND<1.0	ND<3.0	--	8.0	ND<50	
05/09/05	517.32	101.03	0.00	416.29	1.14	--	92	2.5	3.6	3.5	11	--	ND<2.0	ND<50	
07/05/05	517.32	99.62	0.00	417.70	1.41	--	ND<50	ND<1.0	ND<1.0	ND<1.0	ND<1.0	--	1.2J	ND<10	

0353

Table 2
HISTORIC GROUNDWATER LEVELS AND CHEMICAL ANALYSIS RESULTS
September 2004 Through January 2006
Former 76 Station 0353

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G (8015B) (mg/l)	TPPH (TPPH 8260) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	TBA (µg/l)	Comments
MW-6 continued															
10/11/05	517.35	99.93	0.00	417.42	-0.28	--	ND<50	ND<1.0	ND<1.0	ND<1.0	ND<1.0	--	1.8J	ND<10	
01/17/06	517.35	99.92	0.00	417.43	0.01	--	ND<50	ND<1.0	ND<1.0	ND<1.0	ND<1.0	--	ND<2.0	ND<10	
MW-7	**(Screen Interval in feet: 90-120)**														
09/10/04	516.78	101.92	0.00	414.86	--	--	--	--	--	--	--	--	--	--	
01/04/05	516.78	101.92	0.00	414.86	0.00	ND<0.010	--	ND<1.0	ND<1.0	ND<1.0	ND<3.0	--	2.0	ND<50	
05/09/05	516.78	100.75	0.00	416.03	1.17	--	ND<50	ND<1.0	ND<1.0	ND<1.0	ND<1.0	--	0.22J	ND<50	
07/05/05	516.78	100.08	0.00	416.70	0.67	--	ND<50	ND<1.0	ND<1.0	ND<1.0	ND<1.0	--	ND<2.0	ND<10	
10/11/05	516.88	100.36	0.00	416.52	-0.18	--	ND<50	ND<1.0	ND<1.0	ND<1.0	ND<1.0	--	ND<2.0	ND<10	
01/17/06	516.88	98.75	0.00	418.13	1.61	--	ND<50	0.15J	0.18J	ND<1.0	ND<1.0	--	ND<2.0	ND<10	
MW-8	**(Screen Interval in feet: 90-119)**														
09/10/04	516.14	100.32	0.00	415.82	--	--	--	--	--	--	--	--	--	--	
01/04/05	516.14	100.32	0.00	415.82	0.00	ND<0.010	--	ND<1.0	ND<1.0	ND<1.0	ND<3.0	--	1.2	ND<50	
05/09/05	516.14	100.15	0.00	415.99	0.17	--	89	4.1	3.3	0.65J	14	--	0.16J	ND<50	
07/05/05	516.14	99.51	0.00	416.63	0.64	--	ND<50	ND<1.0	ND<1.0	ND<1.0	ND<1.0	--	0.20J	ND<10	
10/11/05	516.26	99.84	0.00	416.42	-0.21	--	ND<50	ND<1.0	ND<1.0	ND<1.0	ND<1.0	--	ND<2.0	ND<10	
01/17/06	516.26	98.12	0.00	418.14	1.72	--	ND<50	ND<1.0	ND<1.0	ND<1.0	ND<1.0	--	0.25J	ND<10	
MW-9	**(Screen Interval in feet: DNA)**														
09/10/04	515.50	100.82	0.00	414.68	--	--	--	--	--	--	--	--	--	--	
01/04/05	515.50	100.82	0.00	414.68	0.00	ND<0.010	--	ND<1.0	ND<1.0	ND<1.0	ND<3.0	--	ND<1.0	ND<50	
05/09/05	515.50	99.68	0.00	415.82	1.14	--	85	2.5	3.6	3.3	10	--	ND<2.0	ND<50	
07/05/05	515.50	99.00	0.00	416.50	0.68	--	ND<50	ND<1.0	ND<1.0	ND<1.0	ND<1.0	--	ND<2.0	ND<10	
10/11/05	515.58	99.29	0.00	416.29	-0.21	--	ND<50	ND<1.0	ND<1.0	ND<1.0	ND<1.0	--	ND<2.0	ND<10	
01/17/06	515.58	97.60	0.00	417.98	1.69	--	ND<50	ND<1.0	ND<1.0	ND<1.0	ND<1.0	--	ND<2.0	ND<10	

Table 2 a
ADDITIONAL HISTORIC ANALYTICAL RESULTS
Former 76 Station 0353

Date Sampled	DIPE (µg/l)	Ethanol (8260B) (µg/l)	ETBE (µg/l)	TAME (µg/l)	Iron Ferric (µg/l)	Iron Ferrous (µg/l)	Manganese (dissolved) (µg/l)	Nitrate (mg/l)	Sulfate (mg/l)	Alkalinity (total) (mg/l)	Pre-purge Dissolved Oxygen (mg/l)	Pre-purge ORP (mV)
MW-1												
09/02/04	ND<1.0	ND<500	ND<1.0	ND<1.0	--	--	--	--	--	--	--	--
01/04/05	ND<1.0	ND<1000	ND<1.0	ND<1.0	--	--	--	--	--	--	--	--
05/09/05	ND<2.0	ND<1000	ND<2.0	ND<2.0	--	--	--	--	--	--	--	--
07/05/05	ND<2.0	ND<1000	ND<2.0	ND<2.0	--	--	--	--	--	--	--	--
MW-1A												
10/11/05	ND<2.0	ND<1000	ND<2.0	ND<2.0	--	--	--	--	--	--	--	--
01/17/06	ND<2.0	ND<1000	ND<2.0	ND<2.0	--	--	--	--	--	--	--	--
MW-2												
09/02/04	ND<1.0	ND<1000	ND<1.0	ND<1.0	--	--	--	--	--	--	--	--
01/04/05	ND<1.0	ND<1000	ND<1.0	ND<1.0	--	--	--	--	--	--	--	--
05/09/05	ND<2.0	ND<1000	ND<2.0	ND<2.0	--	--	--	--	--	--	--	--
07/05/05	ND<2.0	ND<1000	ND<2.0	ND<2.0	--	--	--	--	--	--	--	--
10/11/05	ND<2.0	ND<1000	ND<2.0	ND<2.0	--	--	--	--	--	--	--	--
01/17/06	ND<2.0	ND<1000	ND<2.0	ND<2.0	--	--	--	--	--	--	--	--
MW-3												
09/02/04	ND<1.0	ND<1000	ND<1.0	ND<1.0	--	--	--	--	--	--	--	--
01/04/05	ND<1.0	ND<1000	ND<1.0	ND<1.0	--	--	--	--	--	--	--	--
05/09/05	ND<2.0	ND<1000	ND<2.0	ND<2.0	--	190	2.6J	8.2	150	270	--	--
07/05/05	ND<2.0	ND<1000	ND<2.0	ND<2.0	4900	120	ND<10	7.8	140	250	6.31	66
MW-3A												
10/11/05	ND<2.0	ND<1000	ND<2.0	ND<2.0	--	--	--	--	--	--	--	--
01/17/06	ND<2.0	ND<1000	ND<2.0	ND<2.0	--	--	--	--	--	--	--	--
MW-4												
09/02/04	ND<1.0	ND<1000	ND<1.0	ND<1.0	--	--	--	--	--	--	--	--
01/04/05	ND<1.0	ND<1000	ND<1.0	ND<1.0	--	--	--	--	--	--	--	--

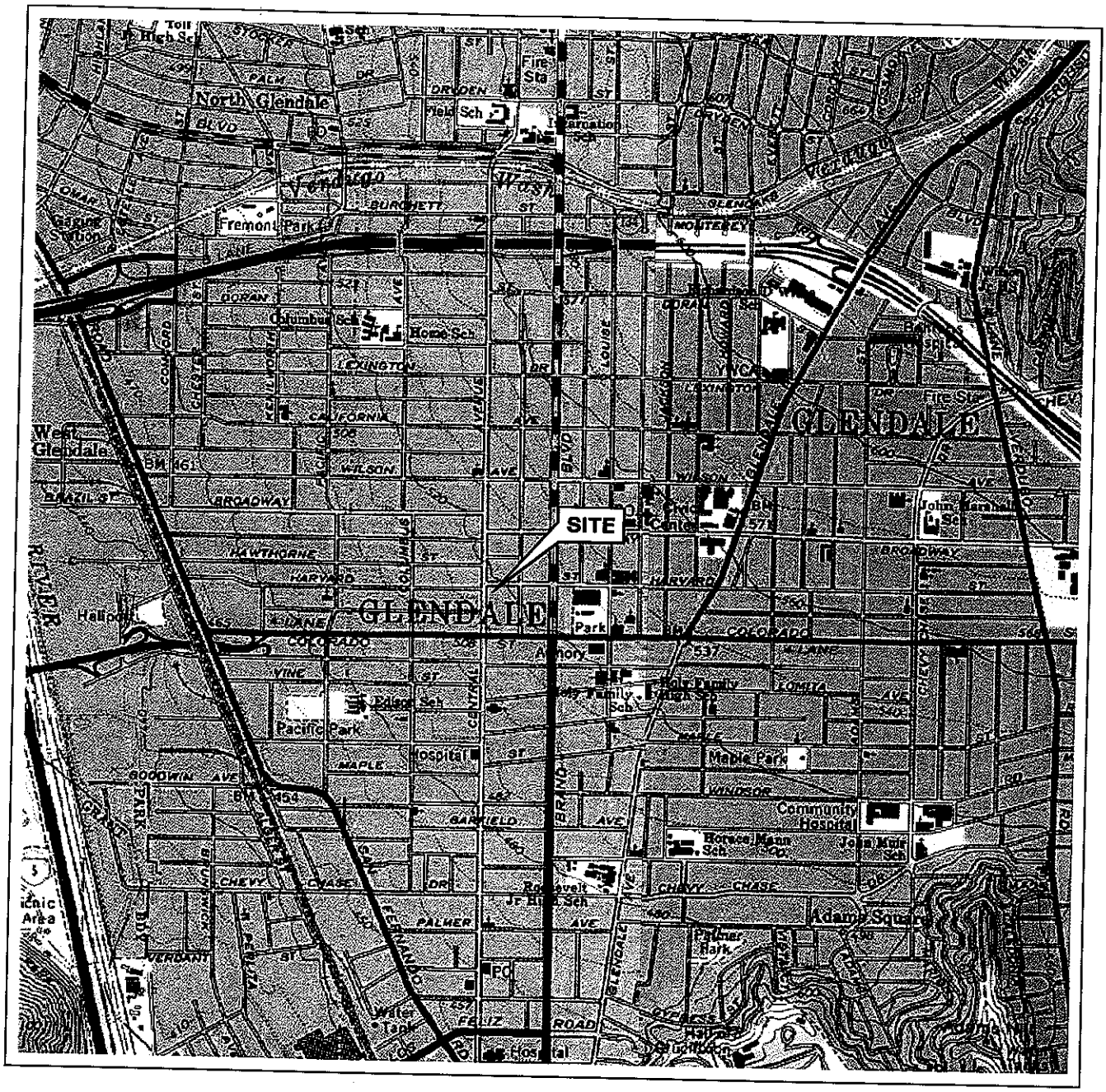
Table 2 a
ADDITIONAL HISTORIC ANALYTICAL RESULTS
Former 76 Station 0353

Date Sampled	DIPE (µg/l)	Ethanol (8260B) (µg/l)	ETBE (µg/l)	TAME (µg/l)	Iron Ferric (µg/l)	Iron Ferrous (µg/l)	Manganese (dissolved) (µg/l)	Nitrate (mg/l)	Sulfate (mg/l)	Alkalinity (total) (mg/l)	Pre-purge Dissolved Oxygen (mg/l)	Pre-purge ORP (mV)
MW-4 continued												
05/09/05	ND<2.0	ND<1000	ND<2.0	ND<2.0	--	310	2.2J	21	130	340	--	--
07/05/05	ND<2.0	ND<1000	ND<2.0	ND<2.0	20000	100	ND<10	21	130	200	4.72	80
10/11/05	ND<2.0	ND<1000	ND<2.0	ND<2.0	--	150	ND<10	21	120	91	4.59	68
01/17/06	ND<2.0	ND<1000	ND<2.0	ND<2.0	--	ND<100	ND<10	19	110	220	4.85	149
MW-5												
09/02/04	ND<1.0	ND<1000	ND<1.0	ND<1.0	--	--	--	--	--	--	--	--
01/04/05	ND<1.0	ND<1000	ND<1.0	ND<1.0	--	--	--	--	--	--	--	--
05/09/05	ND<2.0	ND<1000	ND<2.0	ND<2.0	--	--	--	--	--	--	--	--
07/05/05	ND<2.0	ND<1000	ND<2.0	ND<2.0	--	--	--	--	--	--	--	--
10/11/05	ND<2.0	ND<1000	ND<2.0	ND<2.0	--	--	--	--	--	--	--	--
01/17/06	ND<2.0	ND<1000	ND<2.0	ND<2.0	--	--	--	--	--	--	--	--
MW-6												
01/04/05	ND<1.0	ND<1000	ND<1.0	ND<1.0	--	--	--	--	--	--	--	--
05/09/05	ND<2.0	ND<1000	ND<2.0	ND<2.0	--	--	--	--	--	--	--	--
07/05/05	ND<2.0	ND<1000	ND<2.0	ND<2.0	--	--	--	--	--	--	--	--
10/11/05	ND<2.0	ND<1000	ND<2.0	ND<2.0	--	--	--	--	--	--	--	--
01/17/06	ND<2.0	ND<1000	ND<2.0	ND<2.0	--	--	--	--	--	--	--	--
MW-7												
01/04/05	ND<1.0	ND<1000	ND<1.0	ND<1.0	--	--	--	--	--	--	--	--
05/09/05	ND<2.0	ND<1000	ND<2.0	ND<2.0	--	690	30	10	170	390	--	--
07/05/05	ND<2.0	ND<1000	ND<2.0	ND<2.0	11000	110	ND<10	9.7	170	190	6.10	96
10/11/05	ND<2.0	ND<1000	ND<2.0	ND<2.0	--	180	5.5J	9.2	170	110	5.89	74
01/17/06	ND<2.0	ND<1000	ND<2.0	ND<2.0	--	ND<100	7.8J	10	170	190	5.89	124
MW-8												
01/04/05	ND<1.0	ND<1000	ND<1.0	ND<1.0	--	--	--	--	--	--	--	--

Table 2 a
ADDITIONAL HISTORIC ANALYTICAL RESULTS
Former 76 Station 0353

Date Sampled	DIPE (µg/l)	Ethanol (8260B) (µg/l)	ETBE (µg/l)	TAME (µg/l)	Iron Ferric (µg/l)	Iron Ferrous (µg/l)	Manganese (dissolved) (µg/l)	Nitrate (mg/l)	Sulfate (mg/l)	Alkalinity (total) (mg/l)	Pre-purge Dissolved Oxygen (mg/l)	Pre-purge ORP (mV)
MW-8 continued												
05/09/05	ND<2.0	ND<1000	ND<2.0	ND<2.0	--	--	--	--	--	--	--	--
07/05/05	ND<2.0	ND<1000	ND<2.0	ND<2.0	--	--	--	--	--	--	--	--
10/11/05	ND<2.0	ND<1000	ND<2.0	ND<2.0	--	--	--	--	--	--	--	--
01/17/06	ND<2.0	ND<1000	ND<2.0	ND<2.0	--	--	--	--	--	--	--	--
MW-9												
01/04/05	ND<1.0	ND<1000	ND<1.0	ND<1.0	--	--	--	--	--	--	--	--
05/09/05	ND<2.0	ND<1000	ND<2.0	ND<2.0	--	--	--	--	--	--	--	--
07/05/05	ND<2.0	ND<1000	ND<2.0	ND<2.0	--	--	--	--	--	--	--	--
10/11/05	ND<2.0	ND<1000	ND<2.0	ND<2.0	--	--	--	--	--	--	--	--
01/17/06	ND<2.0	ND<1000	ND<2.0	ND<2.0	--	--	--	--	--	--	--	--

FIGURES



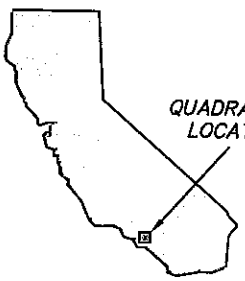
0 1/4 1/2 3/4 1 MILE

SCALE 1:24,000

N

SOURCE:

United States Geological Survey
7.5 Minute Topographic Map:
Pasadena Quadrangle



VICINITY MAP

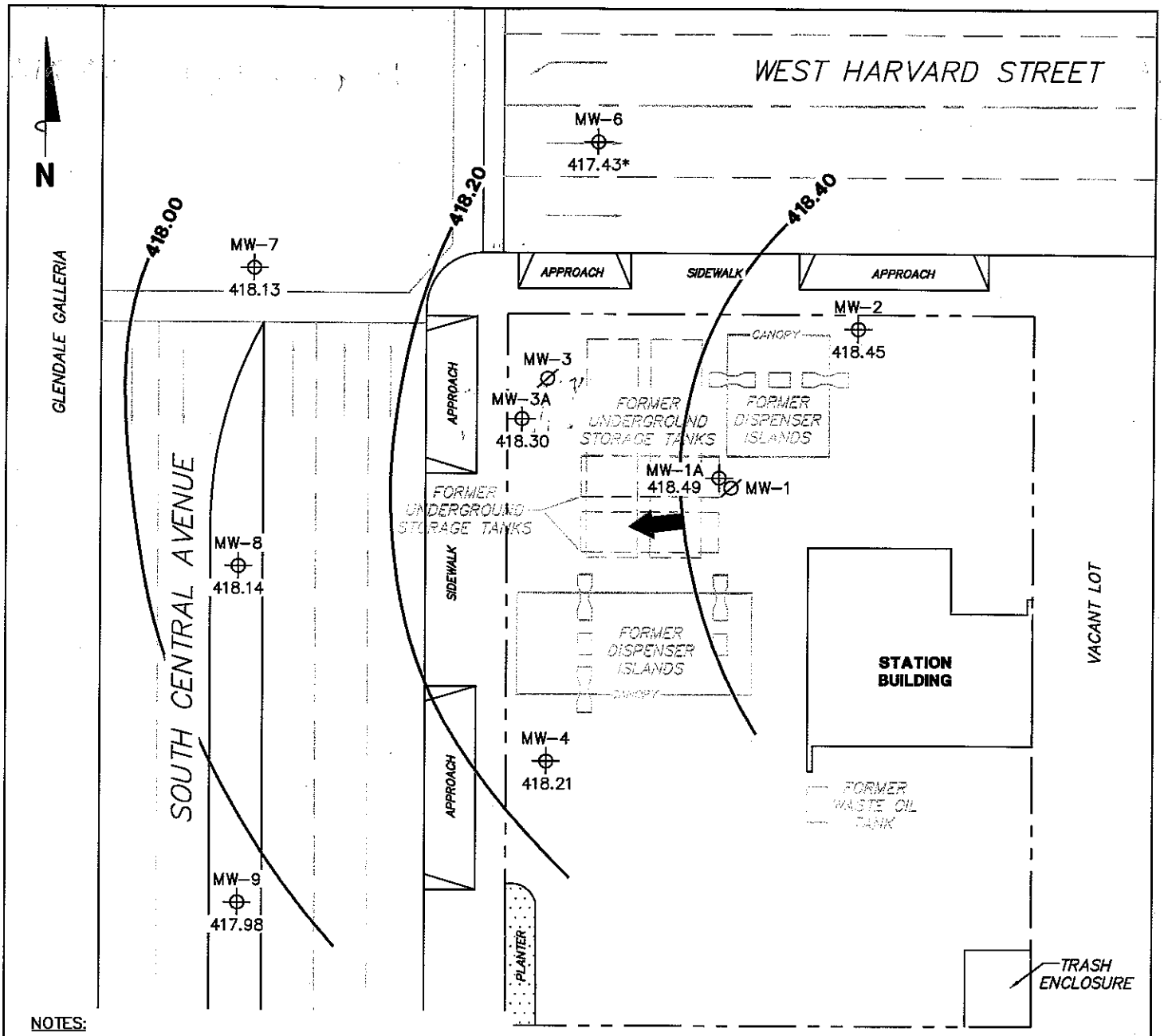
Former 76 Station 0353
200 South Central Avenue
Glendale, California

FIGURE 1

TRC

PS = 1:1

L:\ V I C I N I T Y M A P S\0353VM.dwg Jan 31, 2006 – 8:53am lwinters



NOTES:

Contour lines are interpretive and based on fluid levels measured in monitoring wells. Elevations are in feet above mean sea level. * = not included in groundwater contour interpretation.

LEGEND

MW-9 ⊕ Monitoring Well with Groundwater Elevation (feet)

418.40— Groundwater Elevation Contour

➡ General Direction of Groundwater Flow

GROUNDWATER ELEVATION CONTOUR MAP
January 17, 2006

Former 76 Station 0353
200 South Central Avenue
Glendale, California

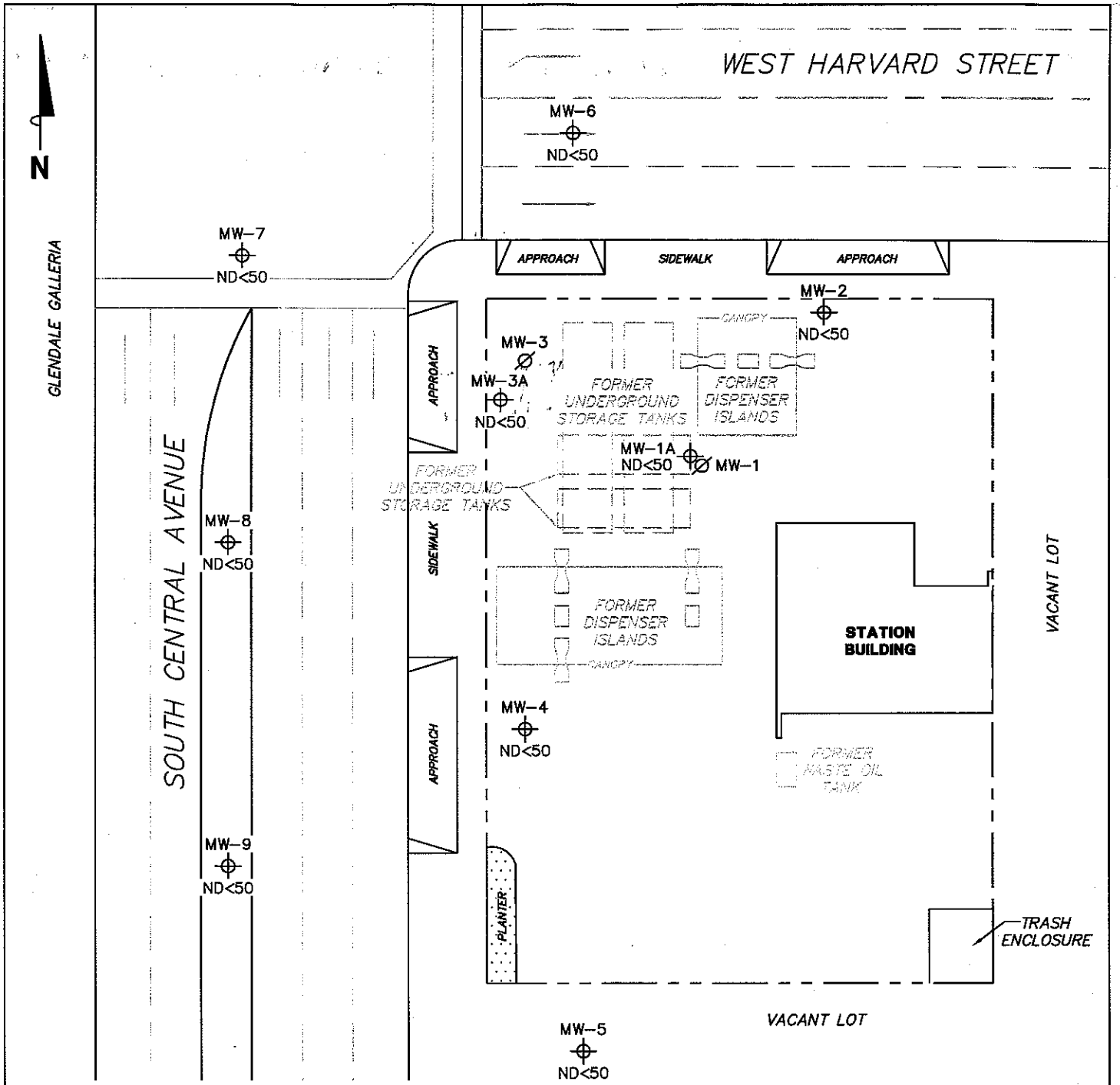
TRC

SCALE (FEET)
0 30

FIGURE 2

PS=1:1 0353-003

L:\Graphics\ProjectsByNumber\20-xxxx\20-0400(UnocalQMS)\x-0000\0353\0353qms.dwg Feb 03, 2006 - 11:10am lwinters



NOTES:

TPPH = total purgeable petroleum hydrocarbons.
µg/l = micrograms per liter. ND = not detected at limit indicated on official laboratory report.
Results obtained using EPA Method 8260B.

LEGEND

MW-9 ⊕ Monitoring Well with Dissolved-Phase TPPH Concentration (µg/l)

DISSOLVED-PHASE TPPH CONCENTRATION MAP
January 17, 2006

Former 76 Station 0353
200 South Central Avenue
Glendale, California

TRC

SCALE (FEET)
0 30

FIGURE 3

PS=1:1 0353-003

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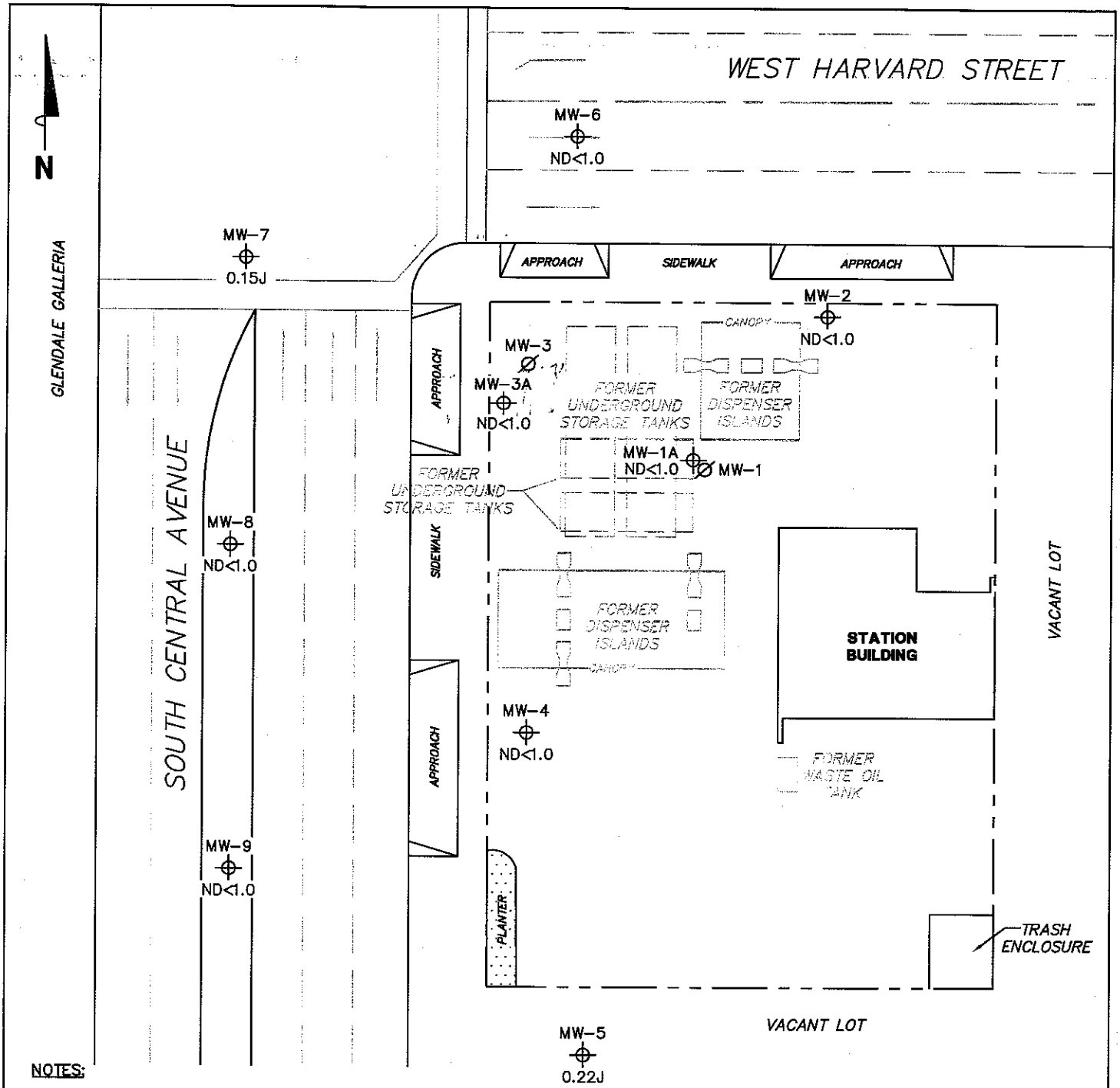


NOTES:

µg/l = micrograms per liter. ND = not detected at limit indicated on official laboratory report.
J = estimated concentration, value is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).

LEGEND

MW-9 ⊕ Monitoring Well with Dissolved-Phase Benzene Concentration (µg/l)

DISSOLVED-PHASE BENZENE CONCENTRATION MAP
January 17, 2005

Former 76 Station 0353
200 South Central Avenue
Glendale, California

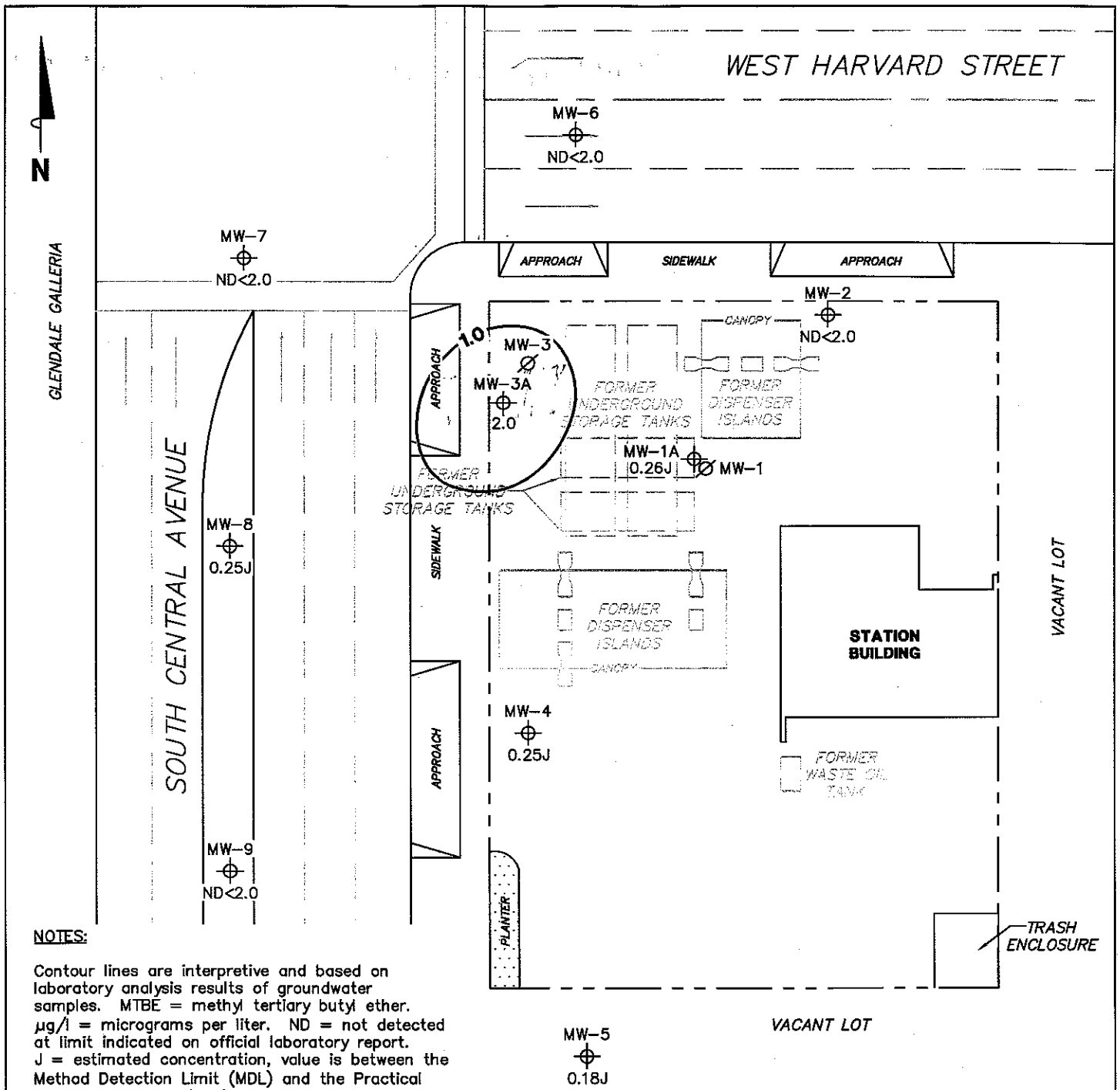
TRC

SCALE (FEET)
0 30

FIGURE 4

PS=1:1 0353-003

L:\Graphics\ProjectsByNumber\20-xxxx\20-0400(UnocalQMS)\x-0000\0353\0353qms.dwg Feb 03, 2006 - 11:08am lwinters



NOTES:

Contour lines are interpretive and based on laboratory analysis results of groundwater samples. MTBE = methyl tertiary butyl ether. µg/l = micrograms per liter. ND = not detected at limit indicated on official laboratory report. J = estimated concentration, value is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL). Results obtained using EPA Method 8260B.

LEGEND

MW-9 ⊕ Monitoring Well with Dissolved-Phase MTBE Concentration (µg/l)

—1.0— Dissolved-Phase MTBE Contour (µg/l)

DISSOLVED-PHASE MTBE CONCENTRATION MAP
January 17, 2006

Former 76 Station 0353
200 South Central Avenue
Glendale, California

TRC

SCALE (FEET)
0 30

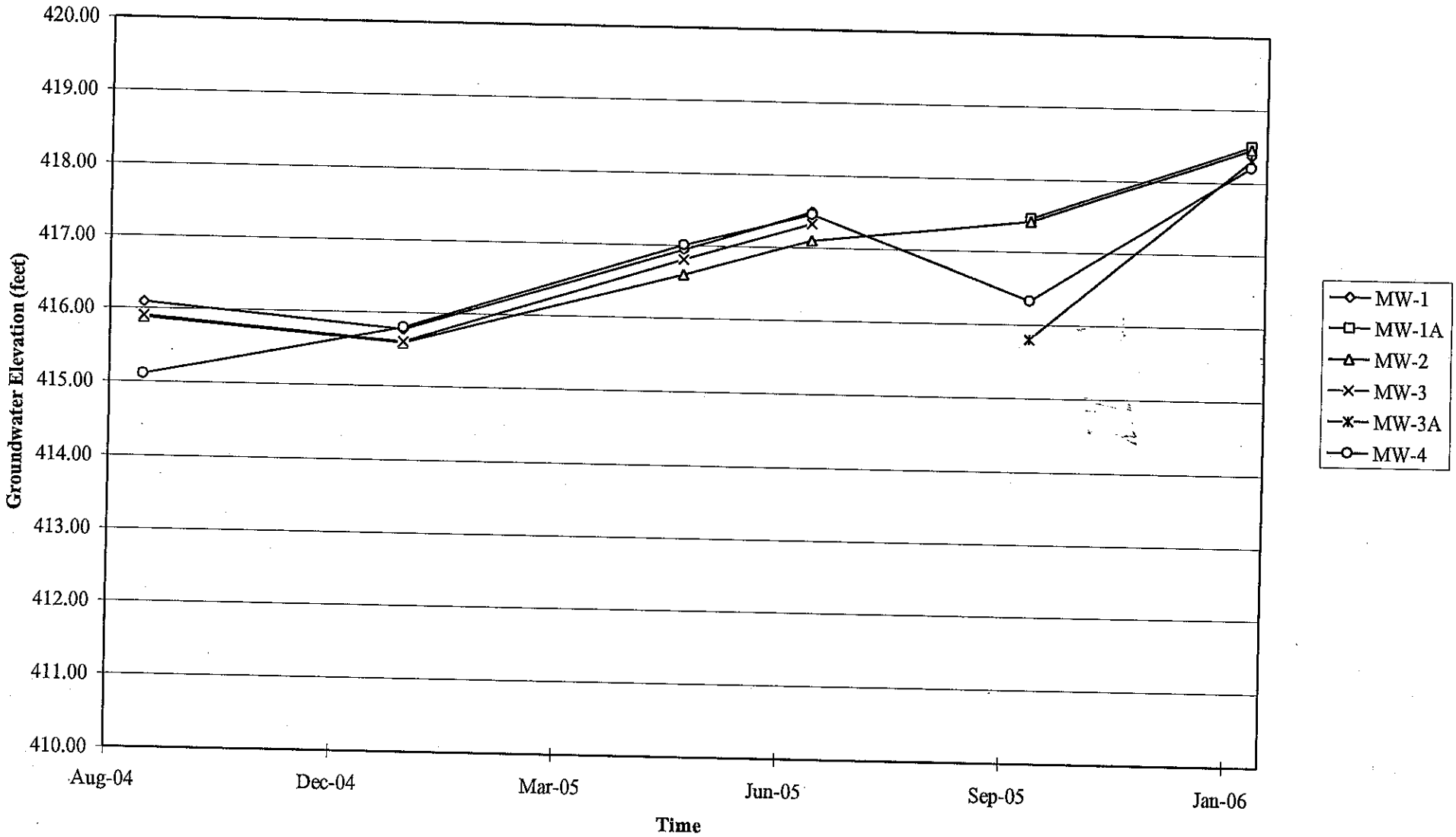
FIGURE 5

PS=1:1 0353-003

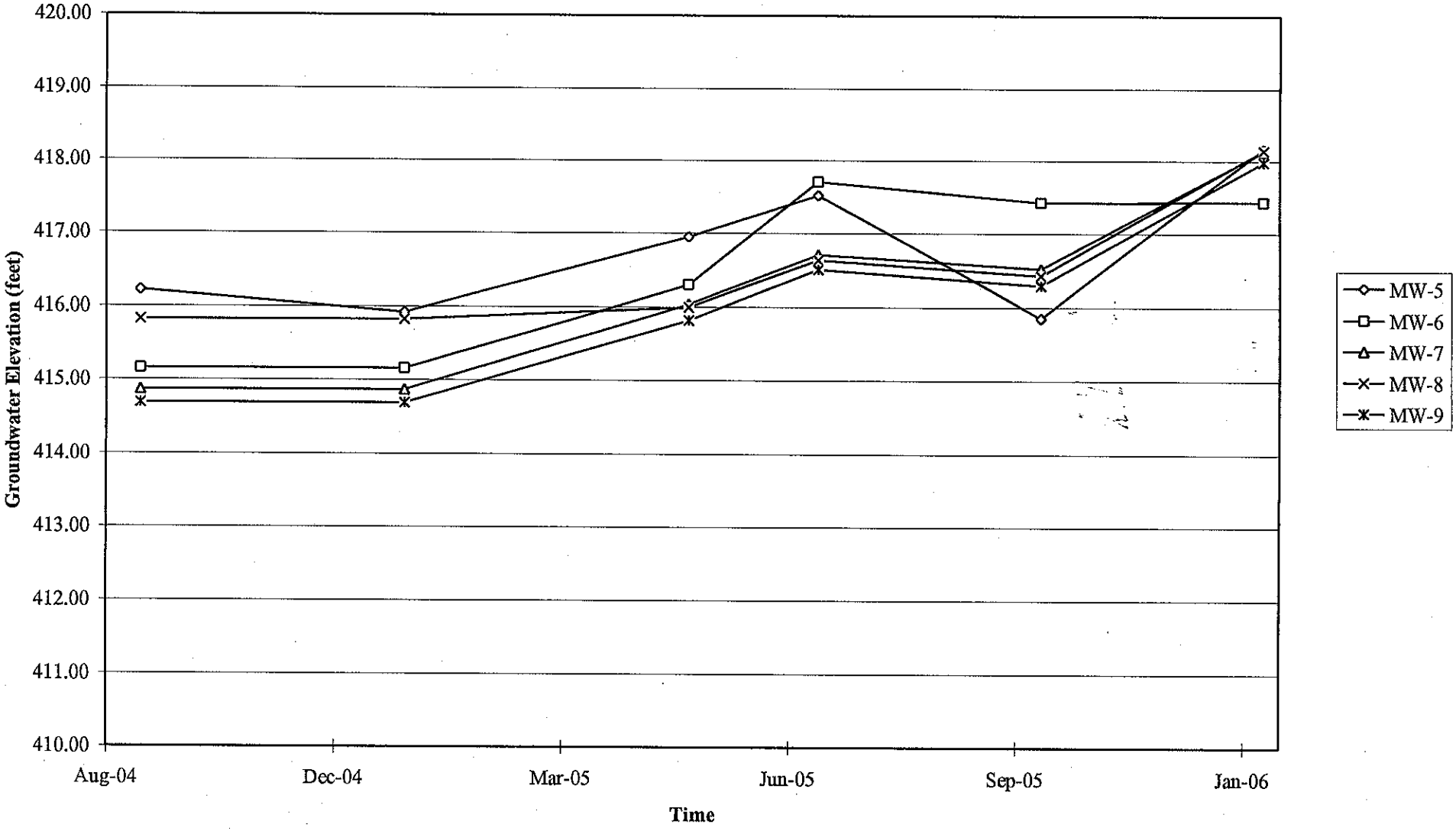
L:\Graphics\ProjectsByNumber\20-xxxx\20-0400(UnocalQMS)\x-0000\0353\0353qms.dwg Feb 03, 2006 - 11:14am lwinters

GRAPHS

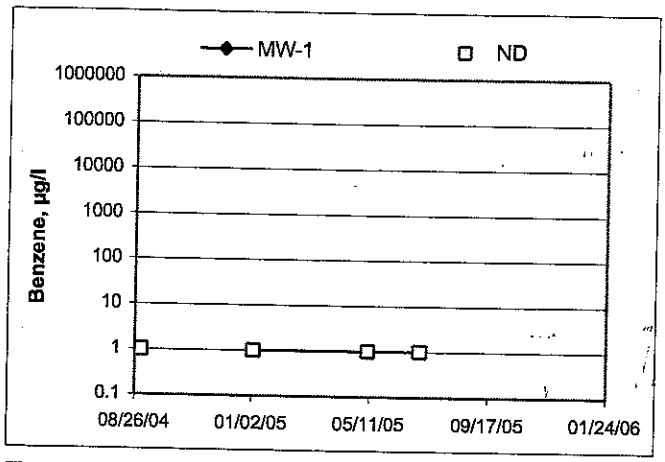
Groundwater Elevations vs. Time
Former 76 Station 0353

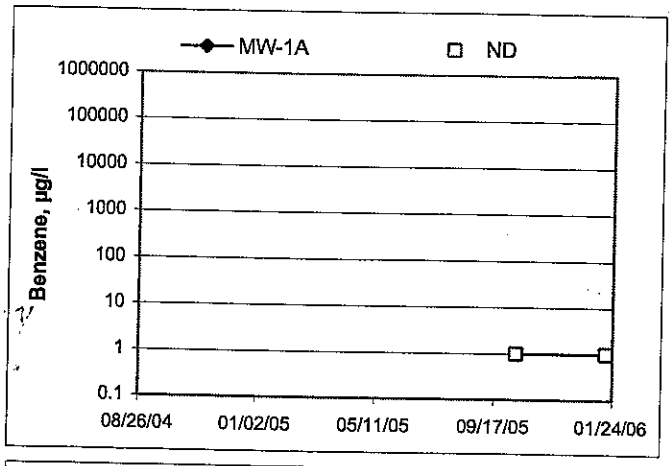


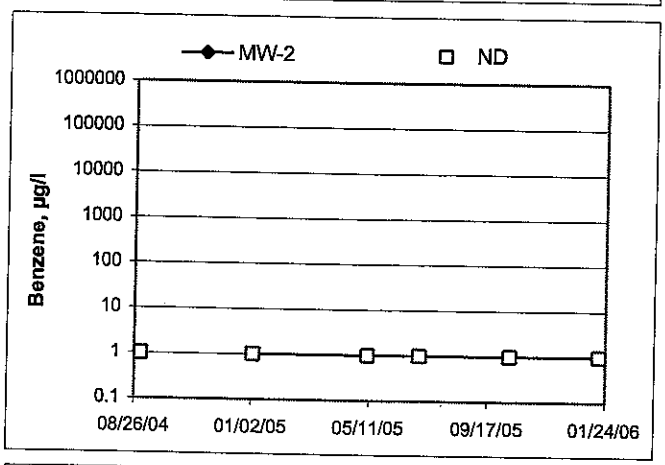
Groundwater Elevations vs. Time
Former 76 Station 0353

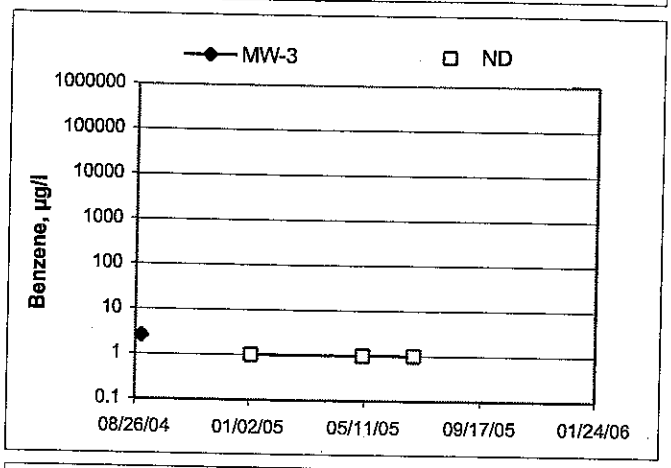


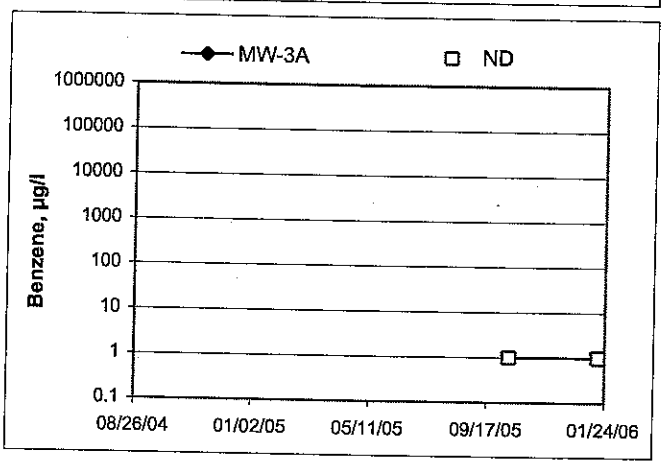
Benzene Concentrations vs Time
Former 76 Station 0353

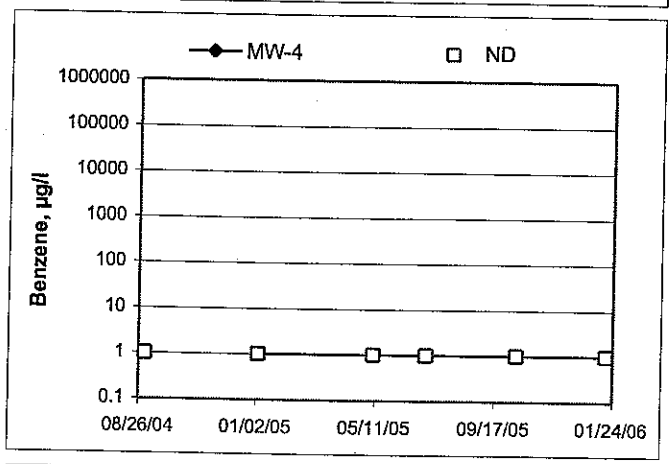


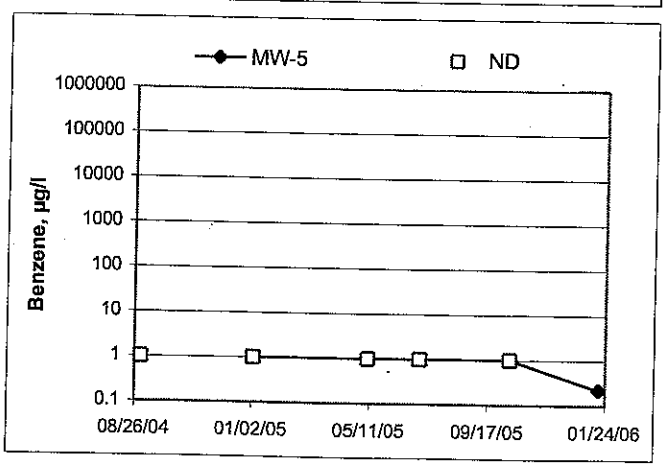


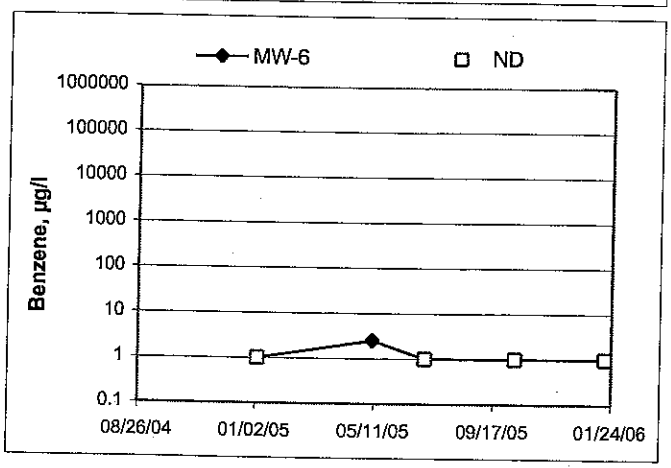




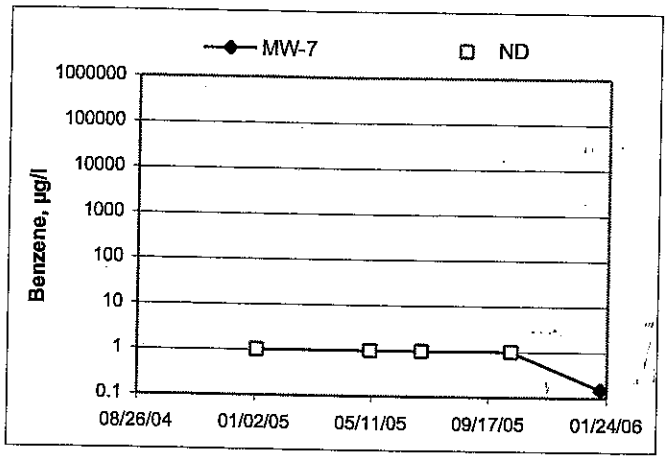


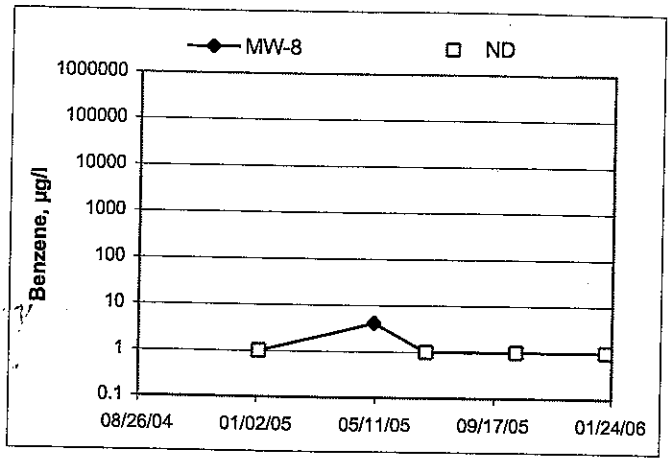


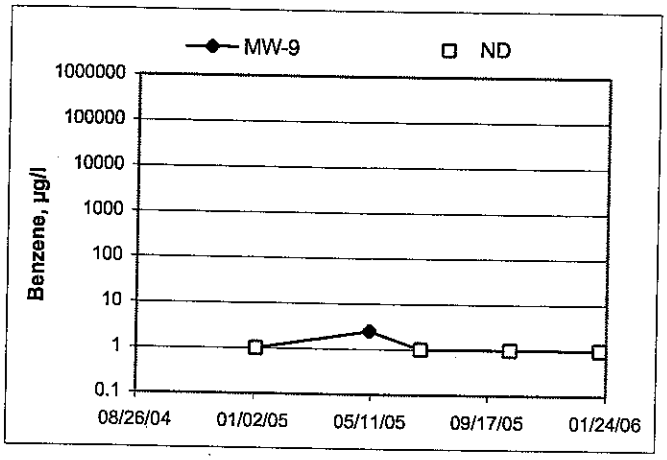




Benzene Concentrations vs Time
Former 76 Station 0353







GENERAL FIELD PROCEDURES

Groundwater Monitoring and Sampling Assignments

For each site, TRC technicians are provided with a Technical Service Request (TSR) that specifies activities required to complete the groundwater monitoring and sampling assignment for the site. TSRs are based on client directives, instructions from the primary environmental consultant for the site, regulatory requirements, and TRC's previous experience with the site.

Fluid Level Measurements

Initial site activities include determination of well locations based on a site map provided with the TSR. Well boxes are opened and caps are removed. Indications of well or well box damage or of pressure buildup in the well are noted.

Fluid levels in each well are measured using a coated cloth tape equipped with an electronic interface probe, which distinguishes between liquid phase hydrocarbon (LPH) and water. The depth to LPH (if it is present), to water, and to the bottom of the well are measured from the top of the well casing (surveyors mark or notch if present) to the nearest 0.01 foot. Unless otherwise instructed, a well with less than 0.67 foot between the measured top of water and the measured bottom of the well casing is considered dry, and is not sampled. If the well contains 0.67 foot or more of water, an attempt is made to bail and/or sample as specified on the TSR.

Wells that are found to contain LPH are not purged or sampled. Instead, one casing volume of fluid is bailed from the well and the well is re-sealed. Bailed fluids are placed in a container separate from normal purge water, and properly disposed.

Purging and Groundwater Parameter Measurement

TSR instructions may specify that a well not be purged (no-purge sampling), be purged using low-flow methods, or be purged using conventional pump and/or bail methods. Conventional purging generally consists of pumping or bailing until a minimum of three casing volumes of water have been removed or until the well has been pumped dry. Pumping is generally accomplished using submersible electric or pneumatic diaphragm pumps.

During conventional purging, three groundwater parameters (temperature, pH, and conductivity) are measured after removal of each casing volume. Stabilization of these parameters, to within 10 percent, confirm that sufficient purging has been completed. In some cases, the TSR indicates that other parameters are also to be measured during purging. TRC commonly measures dissolved oxygen (DO), oxidation-reduction potential (ORP), and/or turbidity. Instruments used for groundwater parameter measurements are calibrated daily according to manufacturer's instructions.

Low-flow purging utilizes a bladder or peristaltic pump to remove water from the well at a low rate. Groundwater parameters specified by the TSR are measured continuously until they become stable in general accordance with EPA guidelines.

Purge water is generally collected in labeled drums for disposal. Drums may be left on site for disposal by others, or transported to a collection location for eventual transfer to a licensed treatment or recycling facility. In some cases, purge water may be collected directly from the site by a licensed vacuum truck company, or may be treated on site by an active remediation system, if so directed.

Groundwater Sample Collection

After wells are purged, or not purged, according to TSR instructions, samples are collected for laboratory analysis. For wells that have been purged using conventional pump or bail methods, sampling is conducted after the well has recovered to 80 percent of its original volume or after two hours if the well does not recover to at least 80 percent. If there is insufficient recharge of water in the well after two hours, the well is not sampled.

Samples are collected by lowering a new, disposable, ½-inch to 4-inch polyethylene bottom-fill bailer to just below the water level in the well. The bailer is retrieved and the water sample is carefully transferred to containers specified for the laboratory analytical methods indicated by the TSR. Particular care is given to containers for volatile organic analysis (VOAs) which require filling to zero headspace and fitting with Teflon-sealed caps.

After filling, all containers are labeled with project number (or site number), well designation, sample date, sample time, and the sampler's initials, and placed in an insulated chest with ice. Samples remain chilled prior to and during transport to a state-certified laboratory for analysis. Sample container descriptions and requested analyses are entered onto a chain-of-custody form in order to provide instructions to the laboratory. The chain-of-custody form accompanies the samples during transportation to provide a continuous record of possession from the field to the laboratory. If a freight or overnight carrier transports the samples, the carrier is noted on the form.

For wells that have been purged using low-flow methods, sample containers are filled from the effluent stream of the bladder or peristaltic pump. In some cases, if so specified by the TSR, samples are taken from the sample ports of actively pumping remediation wells.

Sequence of Gauging, Purging and Sampling

The sequence in which monitoring activities are conducted are specified on the TSR. In general, wells are gauged beginning with the least affected well and ending with the well that has the highest concentration based on previous analytic results. After all gauging for the site is completed, wells are purged and/or sampled from the least-affected to the most-affected well.

Decontamination

In order to reduce the possibility of cross contamination between wells, strict isolation and decontamination procedures are observed. Portable pumps are not used in wells with LPH. Technicians wear nitrile gloves during all gauging, purging and sampling activities. Gloves are changed between wells and more often if warranted. Any equipment that could come in contact with fluids are either dedicated to a particular wells, decontaminated prior to each use, or discarded after a single use. Decontamination consists of washing in a solution of Liqui-nox and water and rinsing twice. The final rinse is in deionized water.

Exceptions

Additional tasks or non-standard procedures, if any, that may be requested or required for a particular site, and noted on the site TSR, are documented in field notes on the following pages.

FIELD MONITORING DATA SHEET

Technician: Thomas Velazquez Job #/Task #: 200-400-83/FFRO Date: 01-17-06

Site # 0353 Project Manager Anju Parpan Page 1 of 1

Well #	TOC	Time Gauged	Total Depth	Depth to Water	Depth to Product	Product Thickness (feet)	Time Sampled	Misc. Well Notes
mw-9	X	0618	119.80	97.60	Ø	Ø	0658	4" sounder-2
mw-7	X	0702	119.85	98.75	Ø	Ø	0945	4" ↓ ↓
mw-5	X	0547	120.11	97.64	Ø	Ø	0828	4" Sounder-1
mw-6	X	0553	120.15	99.92	Ø	Ø	0858	4" ↓ ↓
mw-2	X	0559	120.49	99.33	Ø	Ø	0932	4" ↓ ↓

FIELD DATA COMPLETE ✓ QA/QC ✓ COC ✓ WELL BOX CONDITION SHEETS ✓

WTT CERTIFICATE MANIFEST DRUM INVENTORY ✓ TRAFFIC CONTROL ✓

FIELD MONITORING DATA SHEET

Technician: ES Job #/Task #: 20040083 FA20 Date: 1/17/06

Site # 0353 Project Manager AF Page 1 of 1

Well #	TOC	Time Gauged	Total Depth	Depth to Water	Depth to Product	Product Thickness (feet)	Time Sampled	Misc. Well Notes
MW-8	X	0536	118.91	98.12	Θ	Θ	0647	
MW-4	X	0546	119.50	98.29	Θ	Θ	0730	4"
MW-1A	X	0555	113.90	99.25	Θ	Θ	0843	4"
MW-3A	X	0601	115.02	98.80	Θ	Θ	0900	4"

FIELD DATA COMPLETE ✓ QA/QC ✓ COC ✓ WELL BOX CONDITION SHEETS ✓

WTT CERTIFICATE MANIFEST DRUM INVENTORY ✓ TRAFFIC CONTROL ✓

1

GROUNDWATER SAMPLING FIELD NOTES

Technician: Thomas Velazquez

Site: 0353 Project No.: 200-400-83/FA20 Date: 01-17-06

Well No. MW-9 Purge Method: SUB-1

Depth to Water (feet): 97.60 Depth to Product (feet): 0

Total Depth (feet) 119.80 LPH & Water Recovered (gallons): 0

Water Column (feet): 22.2 Casing Diameter (Inches): 4"

80% Recharge Depth(feet): 102.04 1 Well Volume (gallons): 14

Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F/C)	pH	D.O.	ORP	Turbidity
0626			14	973	20.6	7.65			
			28	981	21.0	7.60			
	0653		42	984	21.2	7.64			

Static at Time Sampled	Total Gallons Purged	Sample Time
99.45	42	0658

Comments:

Well No. MW-7 Purge Method: SUB-2

Depth to Water (feet): 98.75 Depth to Product (feet): 0

Total Depth (feet) 119.85 LPH & Water Recovered (gallons): 0

Water Column (feet): 21.1 Casing Diameter (Inches): 4"

80% Recharge Depth(feet): 102.97 1 Well Volume (gallons): 14

Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F/C)	pH	D.O.	ORP	Turbidity P.H.
0711			14	968	20.5	7.26			
	0736		28	965	20.8	7.23			
			~~42~~	—	—	—	5.89	124	7.22

Static at Time Sampled	Total Gallons Purged	Sample Time
98.79	28	0945

Comments:

*

2

GROUNDWATER SAMPLING FIELD NOTES

Technician: Thomas Velazquez

Site: 0353 Project No.: 200-400-83 / FAZO Date: 01-17-06

Well No. MW-5 Purge Method: SUB - 1

Depth to Water (feet): 97.64 Depth to Product (feet): Ø

Total Depth (feet) 120.11 LPH & Water Recovered (gallons): Ø

Water Column (feet): 22.47 Casing Diameter (Inches): 4"

80% Recharge Depth(feet): 102.13 1 Well Volume (gallons): 15

Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F C)	pH	D.O.	ORP	Turbidity
0749			15	988	21.4	7.13			
			30	990	21.6	7.18			
	0819		45	995	22.0	7.20			

Static at Time Sampled	Total Gallons Purged	Sample Time
97.75	45	0828

Comments:

Well No. MW-6 Purge Method: SUB -1

Depth to Water (feet): 99.92 Depth to Product (feet): Ø

Total Depth (feet) 120.15 LPH & Water Recovered (gallons): Ø

Water Column (feet): 20.23 Casing Diameter (Inches): 4"

80% Recharge Depth(feet): 103.96 1 Well Volume (gallons): 13

Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F C)	pH	D.O.	ORP	Turbidity
0835			13	958	21.0	7.08			
			26	963	21.2	7.11			
	0851		39	960	21.8	7.10			

Static at Time Sampled	Total Gallons Purged	Sample Time
99.01	39	0858

Comments:

3

GROUNDWATER SAMPLING FIELD NOTES

Technician: Thomas Velazquez

Site: 0353 Project No.: 200-400-83/FA20 Date: 01-17-06

Well No. MW-2 Purge Method: SUB-1

Depth to Water (feet): 99.33 Depth to Product (feet): Ø

Total Depth (feet) 120.49 LPH & Water Recovered (gallons): Ø

Water Column (feet): 21.16 Casing Diameter (Inches): 4"

80% Recharge Depth(feet): 103.56 1 Well Volume (gallons): 14

Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F C)	pH	D.O.	ORP	Turbidity
0903			14	917	20.8	7.10			
			28	916	21.3	7.07			
	0920		42	915	21.2	7.12			

Static at Time Sampled	Total Gallons Purged	Sample Time
99.36	42	0932

Comments:

Well No. Purge Method:

Depth to Water (feet): Depth to Product (feet):

Total Depth (feet) LPH & Water Recovered (gallons):

Water Column (feet): Casing Diameter (Inches):

80% Recharge Depth(feet): 1 Well Volume (gallons):

Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F C)	pH	D.O.	ORP	Turbidity

Static at Time Sampled	Total Gallons Purged	Sample Time

Comments:

GROUNDWATER SAMPLING FIELD NOTES

Technician: ES

Site 0353 Project No.: 20040083 Date: 1/17/06

Well No. MW-8 Purge Method: Sub #1

Depth to Water (feet): 98.12 Depth to Product (feet): 0

Total Depth (feet) 118.91 LPH & Water Recovered (gallons): 0

Water Column (feet): 20.79 Casing Diameter (Inches): 4"

80% Recharge Depth(feet): 102.27 1 Well Volume (gallons): 14

Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F C)	pH	D.O.	ORP	Turbidity
0617			14	947	20.3	6.83			
			28	949	20.8	6.90			
	0637		42	959	21.0	6.92			

Static at Time Sampled	Total Gallons Purged	Sample Time
98.19	42	0647

Comments:

Well No. MW-4 Purge Method: Sub #1

Depth to Water (feet): 98.29 Depth to Product (feet): 0

Total Depth (feet) 119.50 LPH & Water Recovered (gallons): 0

Water Column (feet): 21.21 Casing Diameter (Inches): 4"

80% Recharge Depth(feet): 102.53 1 Well Volume (gallons): 14

1

147

Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F C)	pH	D.O.	ORP	Turbidity
0654			14	~~6.86~~ 942	20.1	6.86	4.85	149	
			28	940	21.1	6.86			
	0714		42	945	21.4	6.88			

Static at Time Sampled	Total Gallons Purged	Sample Time
98.29	42	0730

Comments:

GROUNDWATER SAMPLING FIELD NOTES

Technician: ES

Site: 0353 Project No.: 20040083 Date: 1/17/06

Well No. MW-1A Purge Method: Sub #1

Depth to Water (feet): 99.25 Depth to Product (feet): 0

Total Depth (feet) 113.90 LPH & Water Recovered (gallons): 0

Water Column (feet): 14.65 Casing Diameter (Inches): 4"

80% Recharge Depth(feet): 102.18 1 Well Volume (gallons): 10

Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F (C))	pH	D.O.	ORP	Turbidity
0738			10	958	20.8	7.08			
			20	983	20.3	7.31			
	0757		30	9.97	20.6	7.43			

Static at Time Sampled	Total Gallons Purged	Sample Time
99.28	30	0843

Comments:

(2)

Well No. MW-3A Purge Method: Sub #1

Depth to Water (feet): 98.86 Depth to Product (feet): 0

Total Depth (feet) 115.02 LPH & Water Recovered (gallons): 0

Water Column (feet): 16.22 Casing Diameter (Inches): 4"

80% Recharge Depth(feet): 102.04 1 Well Volume (gallons): 11

Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F (C))	pH	D.O.	ORP	Turbidity
0805			11	993	19.6	7.01			
			22	969	21.1	6.99			
	0826		33	966	21.5	6.98			

Static at Time Sampled	Total Gallons Purged	Sample Time
98.84	33	0900

Comments:

BC Laboratories, Inc

Date of Report: 01/30/2006

Anju Farfan

TRC Alton Geoscience

21 Technology Drive
Irvine, CA 92618-2302

RE: 0353

BC Lab Number: 0600544

Enclosed are the results of analyses for samples received by the laboratory on 01/17/06 16:15. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Vanessa Hooker
Client Service Rep

Authorized Signature

All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

4100 Atlas Court • Bakersfield, CA 93308 • (661) 327-4911 • FAX (661) 327-1918 • www.bclabs.com

BC Laboratories, Inc

TRC Alton Geoscience 21 Technology Drive Irvine CA, 92618-2302	Project: 0353 Project Number: [none] Project Manager: Anju Farfan	**Reported:** 01/30/06 11:46

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information				
0600544-01	**COC Number:** ---		**Receive Date:** 01/17/06 16:15	Delivery Work Order (LabW:	
	Project Number: 0353		**Sampling Date:** 01/17/06 06:58	Global ID: T0603728619	
	Sampling Location: MW-9		**Sample Depth:** ---	Matrix: W	
	Sampling Point: MW-9		**Sample Matrix:** Water	Samle QC Type (SACode): CS	
	Sampled By: Thomas Velazquez of TRCI			Cooler ID:	
0600544-02	**COC Number:** ---		**Receive Date:** 01/17/06 16:15	Delivery Work Order (LabW:	
	Project Number: 0353		**Sampling Date:** 01/17/06 09:45	Global ID: T0603728619	
	Sampling Location: MW-7		**Sample Depth:** ---	Matrix: W	
	Sampling Point: MW-7		**Sample Matrix:** Water	Samle QC Type (SACode): CS	
	Sampled By: Thomas Velazquez of TRCI			Cooler ID:	
0600544-03	**COC Number:** ---		**Receive Date:** 01/17/06 16:15	Delivery Work Order (LabW:	
	Project Number: 0353		**Sampling Date:** 01/17/06 08:28	Global ID: T0603728619	
	Sampling Location: MW-5		**Sample Depth:** ---	Matrix: W	
	Sampling Point: MW-5		**Sample Matrix:** Water	Samle QC Type (SACode): CS	
	Sampled By: Thomas Velazquez of TRCI			Cooler ID:	
0600544-04	**COC Number:** ---		**Receive Date:** 01/17/06 16:15	Delivery Work Order (LabW:	
	Project Number: 0353		**Sampling Date:** 01/17/06 08:58	Global ID: T0603728619	
	Sampling Location: MW-6		**Sample Depth:** ---	Matrix: W	
	Sampling Point: MW-6		**Sample Matrix:** Water	Samle QC Type (SACode): CS	
	Sampled By: Thomas Velazquez of TRCI			Cooler ID:	
0600544-05	**COC Number:** ---		**Receive Date:** 01/17/06 16:15	Delivery Work Order (LabW:	
	Project Number: 0353		**Sampling Date:** 01/17/06 09:32	Global ID: T0603728619	
	Sampling Location: MW-2		**Sample Depth:** ---	Matrix: W	
	Sampling Point: MW-2		**Sample Matrix:** Water	Samle QC Type (SACode): CS	
	Sampled By: Thomas Velazquez of TRCI			Cooler ID:	

TRC Alton Geoscience
21 Technology Drive
Irvine CA, 92618-2302

Project: 0353
Project Number: [none]
Project Manager: Anju Farfan

Reported: 01/30/06 11:46

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information				
0600544-06	**COC Number:** ---		**Receive Date:** 01/17/06 16:15		Delivery Work Order (LabW:
	Project Number: 0353		**Sampling Date:** 01/17/06 06:47		Global ID: T0603728619
	Sampling Location: MW-8		**Sample Depth:** ---		Matrix: W
	Sampling Point: MW-8		**Sample Matrix:** Water		Samle QC Type (SACode): CS
	Sampled By: Eduardo Sanchez of TRCI				Cooler ID:
0600544-07	**COC Number:** ---		**Receive Date:** 01/17/06 16:15		Delivery Work Order (LabW:
	Project Number: 0353		**Sampling Date:** 01/17/06 07:30		Global ID: T0603728619
	Sampling Location: MW-4		**Sample Depth:** ---		Matrix: W
	Sampling Point: MW-4		**Sample Matrix:** Water		Samle QC Type (SACode): CS
	Sampled By: Eduardo Sanchez of TRCI				Cooler ID:
0600544-08	**COC Number:** ---		**Receive Date:** 01/17/06 16:15		Delivery Work Order (LabW:
	Project Number: 0353		**Sampling Date:** 01/17/06 08:43		Global ID: T0603728619
	Sampling Location: MW-1A		**Sample Depth:** ---		Matrix: W
	Sampling Point: MW-1A		**Sample Matrix:** Water		Samle QC Type (SACode): CS
	Sampled By: Eduardo Sanchez of TRCI				Cooler ID:
0600544-09	**COC Number:** ---		**Receive Date:** 01/17/06 16:15		Delivery Work Order (LabW:
	Project Number: 0353		**Sampling Date:** 01/17/06 09:00		Global ID: T0603728619
	Sampling Location: MW-3A		**Sample Depth:** ---		Matrix: W
	Sampling Point: MW-3A		**Sample Matrix:** Water		Samle QC Type (SACode): CS
	Sampled By: Eduardo Sanchez of TRCI				Cooler ID:

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Project: 0353
Project Number: [none]
Project Manager: Anju Farfan

Reported: 01/30/06 11:46

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 0600544-01 | **Client Sample Name:** 0353, MW-9, MW-9, 1/17/2006 6:58:00AM, Thomas Velazquez

Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instrument ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Benzene	ND	ug/L	1.0	0.12	EPA-8260	01/19/06	01/19/06 16:58	sdu	MS-V12	1	BPA0857	ND	
Ethylbenzene	ND	ug/L	1.0	0.13	EPA-8260	01/19/06	01/19/06 16:58	sdu	MS-V12	1	BPA0857	ND	
Methyl t-butyl ether	ND	ug/L	2.0	0.15	EPA-8260	01/19/06	01/19/06 16:58	sdu	MS-V12	1	BPA0857	ND	
Toluene	ND	ug/L	1.0	0.15	EPA-8260	01/19/06	01/19/06 16:58	sdu	MS-V12	1	BPA0857	ND	
Total Xylenes	ND	ug/L	1.0	0.40	EPA-8260	01/19/06	01/19/06 16:58	sdu	MS-V12	1	BPA0857	ND	
t-Amyl Methyl ether	ND	ug/L	2.0	0.31	EPA-8260	01/19/06	01/19/06 16:58	sdu	MS-V12	1	BPA0857	ND	
t-Butyl alcohol	ND	ug/L	10	10	EPA-8260	01/19/06	01/19/06 16:58	sdu	MS-V12	1	BPA0857	ND	
Diisopropyl ether	ND	ug/L	2.0	0.25	EPA-8260	01/19/06	01/19/06 16:58	sdu	MS-V12	1	BPA0857	ND	
Ethanol	ND	ug/L	1000	110	EPA-8260	01/19/06	01/19/06 16:58	sdu	MS-V12	1	BPA0857	ND	
Ethyl t-butyl ether	ND	ug/L	2.0	0.27	EPA-8260	01/19/06	01/19/06 16:58	sdu	MS-V12	1	BPA0857	ND	
Total Purgeable Petroleum Hydrocarbons	ND	ug/L	50	23	EPA-8260	01/19/06	01/19/06 16:58	sdu	MS-V12	1	BPA0857	ND	
1,2-Dichloroethane-d4 (Surrogate)	88.3	%	76 - 114 (LCL - UCL)		EPA-8260	01/19/06	01/19/06 16:58	sdu	MS-V12	1	BPA0857		
Toluene-d8 (Surrogate)	100	%	88 - 110 (LCL - UCL)		EPA-8260	01/19/06	01/19/06 16:58	sdu	MS-V12	1	BPA0857		
4-Bromofluorobenzene (Surrogate)	105	%	86 - 115 (LCL - UCL)		EPA-8260	01/19/06	01/19/06 16:58	sdu	MS-V12	1	BPA0857		

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Project: 0353
Project Number: [none]
Project Manager: Anju Farfan

Reported: 01/30/06 11:46

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 0600544-02 | **Client Sample Name:** 0353, MW-7, MW-7, 1/17/2006 9:45:00AM, Thomas Velazquez

Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instrument ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Benzene	0.15	ug/L	1.0	0.12	EPA-8260	01/19/06	01/20/06 14:48	sdu	MS-V12	1	BPA0857	ND	J
Ethylbenzene	ND	ug/L	1.0	0.13	EPA-8260	01/19/06	01/20/06 14:48	sdu	MS-V12	1	BPA0857	ND	
Methyl t-butyl ether	ND	ug/L	2.0	0.15	EPA-8260	01/19/06	01/20/06 14:48	sdu	MS-V12	1	BPA0857	ND	
Toluene	0.18	ug/L	1.0	0.15	EPA-8260	01/19/06	01/20/06 14:48	sdu	MS-V12	1	BPA0857	ND	J
Total Xylenes	ND	ug/L	1.0	0.40	EPA-8260	01/19/06	01/20/06 14:48	sdu	MS-V12	1	BPA0857	ND	
t-Amyl Methyl ether	ND	ug/L	2.0	0.31	EPA-8260	01/19/06	01/20/06 14:48	sdu	MS-V12	1	BPA0857	ND	
t-Butyl alcohol	ND	ug/L	10	10	EPA-8260	01/19/06	01/20/06 14:48	sdu	MS-V12	1	BPA0857	ND	
Diisopropyl ether	ND	ug/L	2.0	0.25	EPA-8260	01/19/06	01/20/06 14:48	sdu	MS-V12	1	BPA0857	ND	
Ethanol	ND	ug/L	1000	110	EPA-8260	01/19/06	01/20/06 14:48	sdu	MS-V12	1	BPA0857	ND	
Ethyl t-butyl ether	ND	ug/L	2.0	0.27	EPA-8260	01/19/06	01/20/06 14:48	sdu	MS-V12	1	BPA0857	ND	
Total Purgeable Petroleum Hydrocarbons	ND	ug/L	50	23	EPA-8260	01/19/06	01/20/06 14:48	sdu	MS-V12	1	BPA0857	ND	
1,2-Dichloroethane-d4 (Surrogate)	94.9	%	76 - 114 (LCL - UCL)		EPA-8260	01/19/06	01/20/06 14:48	sdu	MS-V12	1	BPA0857		
Toluene-d8 (Surrogate)	100	%	88 - 110 (LCL - UCL)		EPA-8260	01/19/06	01/20/06 14:48	sdu	MS-V12	1	BPA0857		
4-Bromofluorobenzene (Surrogate)	107	%	86 - 115 (LCL - UCL)		EPA-8260	01/19/06	01/20/06 14:48	sdu	MS-V12	1	BPA0857		

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Water Analysis (General Chemistry)

BCL Sample ID: 0600544-02 | **Client Sample Name:** 0353, MW-7, MW-7, 1/17/2006 9:45:00AM, Thomas Velazquez

Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instrument ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Total Alkalinity as CaCO3	190	mg/L	5.0	5.0	EPA-310.1	01/24/06	01/24/06 13:30	MAR	BDB	2	BPA1058	1.9	A01
Nitrate as N	10	mg/L	0.10	0.012	EPA-300.0	01/18/06	01/18/06 14:46	NTN	IC2	1	BPA0703	ND	
Sulfate	170	mg/L	1.0	0.12	EPA-300.0	01/18/06	01/18/06 14:46	NTN	IC2	1	BPA0703	ND	
Iron (III) Species	17000	ug/L	100	100	Calc	01/20/06	01/30/06 11:37	MSA	Calc	1	BPA0876	ND	
Iron (II) Species	ND	ug/L	100	100	SM-3500-Fe	01/18/06	01/18/06 08:15	MV1	SPEC05	1	BPA0742	ND	

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Water Analysis (Metals)

BCL Sample ID: 0600544-02 **Client Sample Name:** 0353, MW-7, MW-7, 1/17/2006 9:45:00AM, Thomas Velazquez

Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instrument ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Manganese	7.8	ug/L	10	5.3	EPA-6010B	01/25/06	01/25/06 14:13	ARD	PE-OP1	1	BPA1057	ND	J

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Project: 0353
Project Number: [none]
Project Manager: Anju Farfan

Reported: 01/30/06 11:46

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 0600544-03 | **Client Sample Name:** 0353, MW-5, MW-5, 1/17/2006 8:28:00AM, Thomas Velazquez

Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instrument ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Benzene	0.22	ug/L	1.0	0.12	EPA-8260	01/19/06	01/19/06 21:43	sdu	MS-V12	1	BPA0857	ND	J
Ethylbenzene	ND	ug/L	1.0	0.13	EPA-8260	01/19/06	01/19/06 21:43	sdu	MS-V12	1	BPA0857	ND	
Methyl t-butyl ether	0.18	ug/L	2.0	0.15	EPA-8260	01/19/06	01/19/06 21:43	sdu	MS-V12	1	BPA0857	ND	J
Toluene	ND	ug/L	1.0	0.15	EPA-8260	01/19/06	01/19/06 21:43	sdu	MS-V12	1	BPA0857	ND	
Total Xylenes	ND	ug/L	1.0	0.40	EPA-8260	01/19/06	01/19/06 21:43	sdu	MS-V12	1	BPA0857	ND	
t-Amyl Methyl ether	ND	ug/L	2.0	0.31	EPA-8260	01/19/06	01/19/06 21:43	sdu	MS-V12	1	BPA0857	ND	
t-Butyl alcohol	ND	ug/L	10	10	EPA-8260	01/19/06	01/19/06 21:43	sdu	MS-V12	1	BPA0857	ND	
Diisopropyl ether	ND	ug/L	2.0	0.25	EPA-8260	01/19/06	01/19/06 21:43	sdu	MS-V12	1	BPA0857	ND	
Ethanol	ND	ug/L	1000	110	EPA-8260	01/19/06	01/19/06 21:43	sdu	MS-V12	1	BPA0857	ND	
Ethyl t-butyl ether	ND	ug/L	2.0	0.27	EPA-8260	01/19/06	01/19/06 21:43	sdu	MS-V12	1	BPA0857	ND	
Total Purgeable Petroleum Hydrocarbons	ND	ug/L	50	23	EPA-8260	01/19/06	01/19/06 21:43	sdu	MS-V12	1	BPA0857	ND	
1,2-Dichloroethane-d4 (Surrogate)	89.9	%	76 - 114 (LCL - UCL)		EPA-8260	01/19/06	01/19/06 21:43	sdu	MS-V12	1	BPA0857		
Toluene-d8 (Surrogate)	100	%	88 - 110 (LCL - UCL)		EPA-8260	01/19/06	01/19/06 21:43	sdu	MS-V12	1	BPA0857		
4-Bromofluorobenzene (Surrogate)	107	%	86 - 115 (LCL - UCL)		EPA-8260	01/19/06	01/19/06 21:43	sdu	MS-V12	1	BPA0857		

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Project: 0353
Project Number: [none]
Project Manager: Anju Farfan

Reported: 01/30/06 11:46

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 0600544-04 | **Client Sample Name:** 0353, MW-6, MW-6, 1/17/2006 8:58:00AM, Thomas Velazquez

Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instrument ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Benzene	ND	ug/L	1.0	0.12	EPA-8260	01/19/06	01/19/06 22:05	sdu	MS-V12	1	BPA0857	ND	
Ethylbenzene	ND	ug/L	1.0	0.13	EPA-8260	01/19/06	01/19/06 22:05	sdu	MS-V12	1	BPA0857	ND	
Methyl t-butyl ether	ND	ug/L	2.0	0.15	EPA-8260	01/19/06	01/19/06 22:05	sdu	MS-V12	1	BPA0857	ND	
Toluene	ND	ug/L	1.0	0.15	EPA-8260	01/19/06	01/19/06 22:05	sdu	MS-V12	1	BPA0857	ND	
Total Xylenes	ND	ug/L	1.0	0.40	EPA-8260	01/19/06	01/19/06 22:05	sdu	MS-V12	1	BPA0857	ND	
t-Amyl Methyl ether	ND	ug/L	2.0	0.31	EPA-8260	01/19/06	01/19/06 22:05	sdu	MS-V12	1	BPA0857	ND	
t-Butyl alcohol	ND	ug/L	10	10	EPA-8260	01/19/06	01/19/06 22:05	sdu	MS-V12	1	BPA0857	ND	
Diisopropyl ether	ND	ug/L	2.0	0.25	EPA-8260	01/19/06	01/19/06 22:05	sdu	MS-V12	1	BPA0857	ND	
Ethanol	ND	ug/L	1000	110	EPA-8260	01/19/06	01/19/06 22:05	sdu	MS-V12	1	BPA0857	ND	
Ethyl t-butyl ether	ND	ug/L	2.0	0.27	EPA-8260	01/19/06	01/19/06 22:05	sdu	MS-V12	1	BPA0857	ND	
Total Purgeable Petroleum Hydrocarbons	ND	ug/L	50	23	EPA-8260	01/19/06	01/19/06 22:05	sdu	MS-V12	1	BPA0857	ND	
1,2-Dichloroethane-d4 (Surrogate)	88.5	%	76 - 114 (LCL - UCL)		EPA-8260	01/19/06	01/19/06 22:05	sdu	MS-V12	1	BPA0857		
Toluene-d8 (Surrogate)	101	%	88 - 110 (LCL - UCL)		EPA-8260	01/19/06	01/19/06 22:05	sdu	MS-V12	1	BPA0857		
4-Bromofluorobenzene (Surrogate)	104	%	86 - 115 (LCL - UCL)		EPA-8260	01/19/06	01/19/06 22:05	sdu	MS-V12	1	BPA0857		

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Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 0600544-05 | **Client Sample Name:** 0353, MW-2, MW-2, 1/17/2006 9:32:00AM, Thomas Velazquez

Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instrument ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Benzene	ND	ug/L	1.0	0.12	EPA-8260	01/19/06	01/19/06 23:54	sdu	MS-V12	1	BPA0857	ND	
Ethylbenzene	ND	ug/L	1.0	0.13	EPA-8260	01/19/06	01/19/06 23:54	sdu	MS-V12	1	BPA0857	ND	
Methyl t-butyl ether	ND	ug/L	2.0	0.15	EPA-8260	01/19/06	01/19/06 23:54	sdu	MS-V12	1	BPA0857	ND	
Toluene	ND	ug/L	1.0	0.15	EPA-8260	01/19/06	01/19/06 23:54	sdu	MS-V12	1	BPA0857	ND	
Total Xylenes	ND	ug/L	1.0	0.40	EPA-8260	01/19/06	01/19/06 23:54	sdu	MS-V12	1	BPA0857	ND	
t-Amyl Methyl ether	ND	ug/L	2.0	0.31	EPA-8260	01/19/06	01/19/06 23:54	sdu	MS-V12	1	BPA0857	ND	
t-Butyl alcohol	ND	ug/L	10	10	EPA-8260	01/19/06	01/19/06 23:54	sdu	MS-V12	1	BPA0857	ND	
Diisopropyl ether	ND	ug/L	2.0	0.25	EPA-8260	01/19/06	01/19/06 23:54	sdu	MS-V12	1	BPA0857	ND	
Ethanol	ND	ug/L	1000	110	EPA-8260	01/19/06	01/19/06 23:54	sdu	MS-V12	1	BPA0857	ND	
Ethyl t-butyl ether	ND	ug/L	2.0	0.27	EPA-8260	01/19/06	01/19/06 23:54	sdu	MS-V12	1	BPA0857	ND	
Total Purgeable Petroleum Hydrocarbons	ND	ug/L	50	23	EPA-8260	01/19/06	01/19/06 23:54	sdu	MS-V12	1	BPA0857	ND	
1,2-Dichloroethane-d4 (Surrogate)	90.0	%	76 - 114 (LCL - UCL)		EPA-8260	01/19/06	01/19/06 23:54	sdu	MS-V12	1	BPA0857		
Toluene-d8 (Surrogate)	100	%	88 - 110 (LCL - UCL)		EPA-8260	01/19/06	01/19/06 23:54	sdu	MS-V12	1	BPA0857		
4-Bromofluorobenzene (Surrogate)	105	%	86 - 115 (LCL - UCL)		EPA-8260	01/19/06	01/19/06 23:54	sdu	MS-V12	1	BPA0857		

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Project: 0353
Project Number: [none]
Project Manager: Anju Farfan

Reported: 01/30/06 11:46

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 0600544-06 | **Client Sample Name:** 0353, MW-8, MW-8, 1/17/2006 6:47:00AM, Eduardo Sanchez

Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instrument ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Benzene	ND	ug/L	1.0	0.12	EPA-8260	01/19/06	01/19/06 22:27	sdu	MS-V12	1	BPA0857	ND	
Ethylbenzene	ND	ug/L	1.0	0.13	EPA-8260	01/19/06	01/19/06 22:27	sdu	MS-V12	1	BPA0857	ND	
Methyl t-butyl ether	0.25	ug/L	2.0	0.15	EPA-8260	01/19/06	01/19/06 22:27	sdu	MS-V12	1	BPA0857	ND	J
Toluene	ND	ug/L	1.0	0.15	EPA-8260	01/19/06	01/19/06 22:27	sdu	MS-V12	1	BPA0857	ND	
Total Xylenes	ND	ug/L	1.0	0.40	EPA-8260	01/19/06	01/19/06 22:27	sdu	MS-V12	1	BPA0857	ND	
t-Amyl Methyl ether	ND	ug/L	2.0	0.31	EPA-8260	01/19/06	01/19/06 22:27	sdu	MS-V12	1	BPA0857	ND	
t-Butyl alcohol	ND	ug/L	10	10	EPA-8260	01/19/06	01/19/06 22:27	sdu	MS-V12	1	BPA0857	ND	
Diisopropyl ether	ND	ug/L	2.0	0.25	EPA-8260	01/19/06	01/19/06 22:27	sdu	MS-V12	1	BPA0857	ND	
Ethanol	ND	ug/L	1000	110	EPA-8260	01/19/06	01/19/06 22:27	sdu	MS-V12	1	BPA0857	ND	
Ethyl t-butyl ether	ND	ug/L	2.0	0.27	EPA-8260	01/19/06	01/19/06 22:27	sdu	MS-V12	1	BPA0857	ND	
Total Purgeable Petroleum Hydrocarbons	ND	ug/L	50	23	EPA-8260	01/19/06	01/19/06 22:27	sdu	MS-V12	1	BPA0857	ND	
1,2-Dichloroethane-d4 (Surrogate)	88.7	%	76 - 114 (LCL - UCL)		EPA-8260	01/19/06	01/19/06 22:27	sdu	MS-V12	1	BPA0857		
Toluene-d8 (Surrogate)	101	%	88 - 110 (LCL - UCL)		EPA-8260	01/19/06	01/19/06 22:27	sdu	MS-V12	1	BPA0857		
4-Bromofluorobenzene (Surrogate)	104	%	86 - 115 (LCL - UCL)		EPA-8260	01/19/06	01/19/06 22:27	sdu	MS-V12	1	BPA0857		

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21 Technology Drive
Irvine CA, 92618-2302

Project: 0353
Project Number: [none]
Project Manager: Anju Farfan

Reported: 01/30/06 11:46

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 0600544-07 | **Client Sample Name:** 0353, MW-4, MW-4, 1/17/2006 7:30:00AM, Eduardo Sanchez

Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instrument ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Benzene	ND	ug/L	1.0	0.12	EPA-8260	01/19/06	01/19/06 22:49	sdu	MS-V12	1	BPA0857	ND	
Ethylbenzene	ND	ug/L	1.0	0.13	EPA-8260	01/19/06	01/19/06 22:49	sdu	MS-V12	1	BPA0857	ND	
Methyl t-butyl ether	0.25	ug/L	2.0	0.15	EPA-8260	01/19/06	01/19/06 22:49	sdu	MS-V12	1	BPA0857	ND	J
Toluene	ND	ug/L	1.0	0.15	EPA-8260	01/19/06	01/19/06 22:49	sdu	MS-V12	1	BPA0857	ND	
Total Xylenes	ND	ug/L	1.0	0.40	EPA-8260	01/19/06	01/19/06 22:49	sdu	MS-V12	1	BPA0857	ND	
t-Amyl Methyl ether	ND	ug/L	2.0	0.31	EPA-8260	01/19/06	01/19/06 22:49	sdu	MS-V12	1	BPA0857	ND	
t-Butyl alcohol	ND	ug/L	10	10	EPA-8260	01/19/06	01/19/06 22:49	sdu	MS-V12	1	BPA0857	ND	
Diisopropyl ether	ND	ug/L	2.0	0.25	EPA-8260	01/19/06	01/19/06 22:49	sdu	MS-V12	1	BPA0857	ND	
Ethanol	ND	ug/L	1000	110	EPA-8260	01/19/06	01/19/06 22:49	sdu	MS-V12	1	BPA0857	ND	
Ethyl t-butyl ether	ND	ug/L	2.0	0.27	EPA-8260	01/19/06	01/19/06 22:49	sdu	MS-V12	1	BPA0857	ND	
Total Purgeable Petroleum Hydrocarbons	ND	ug/L	50	23	EPA-8260	01/19/06	01/19/06 22:49	sdu	MS-V12	1	BPA0857	ND	
1,2-Dichloroethane-d4 (Surrogate)	88.0	%	76 - 114 (LCL - UCL)		EPA-8260	01/19/06	01/19/06 22:49	sdu	MS-V12	1	BPA0857		
Toluene-d8 (Surrogate)	100	%	88 - 110 (LCL - UCL)		EPA-8260	01/19/06	01/19/06 22:49	sdu	MS-V12	1	BPA0857		
4-Bromofluorobenzene (Surrogate)	106	%	86 - 115 (LCL - UCL)		EPA-8260	01/19/06	01/19/06 22:49	sdu	MS-V12	1	BPA0857		

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Project: 0353
Project Number: [none]
Project Manager: Anju Farfan

Reported: 01/30/06 11:46

Water Analysis (General Chemistry)

BCL Sample ID: 0600544-07 | **Client Sample Name:** 0353, MW-4, MW-4, 1/17/2006 7:30:00AM, Eduardo Sanchez

Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instrument ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Total Alkalinity as CaCO3	220	mg/L	5.0	5.0	EPA-310.1	01/24/06	01/24/06 13:30	MAR	BDB	2	BPA1058	1.9	A01
Nitrate as N	19	mg/L	0.10	0.012	EPA-300.0	01/18/06	01/18/06 15:05	NTN	IC2	1	BPA0703	ND	
Sulfate	110	mg/L	1.0	0.12	EPA-300.0	01/18/06	01/18/06 15:05	NTN	IC2	1	BPA0703	ND	
Iron (III) Species	5400	ug/L	100	100	Calc	01/20/06	01/30/06 11:37	MSA	Calc	1	BPA0876	ND	
Iron (II) Species	ND	ug/L	100	100	SM-3500-Fe	01/18/06	01/18/06 08:15	MV1	SPEC05	1	BPA0742	ND	

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TRC Alton Geoscience 21 Technology Drive Irvine CA, 92618-2302	Project: 0353 Project Number: [none] Project Manager: Anju Farfan	**Reported:** 01/30/06 11:46

Water Analysis (Metals)

BCL Sample ID: 0600544-07 | **Client Sample Name:** 0353, MW-4, MW-4, 1/17/2006 7:30:00AM, Eduardo Sanchez

Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instrument ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Manganese	ND	ug/L	10	5.3	EPA-6010B	01/25/06	01/25/06 14:18	ARD	PE-OP1	1	BPA1057	ND	

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Project: 0353
Project Number: [none]
Project Manager: Anju Farfan

Reported: 01/30/06 11:46

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 0600544-08 | **Client Sample Name:** 0353, MW-1A, MW-1A, 1/17/2006 8:43:00AM, Eduardo Sanchez

Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instrument ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Benzene	ND	ug/L	1.0	0.12	EPA-8260	01/19/06	01/19/06 23:10	sdu	MS-V12	1	BPA0857	ND	
Ethylbenzene	ND	ug/L	1.0	0.13	EPA-8260	01/19/06	01/19/06 23:10	sdu	MS-V12	1	BPA0857	ND	
Methyl t-butyl ether	0.26	ug/L	2.0	0.15	EPA-8260	01/19/06	01/19/06 23:10	sdu	MS-V12	1	BPA0857	ND	J
Toluene	ND	ug/L	1.0	0.15	EPA-8260	01/19/06	01/19/06 23:10	sdu	MS-V12	1	BPA0857	ND	
Total Xylenes	ND	ug/L	1.0	0.40	EPA-8260	01/19/06	01/19/06 23:10	sdu	MS-V12	1	BPA0857	ND	
t-Amyl Methyl ether	ND	ug/L	2.0	0.31	EPA-8260	01/19/06	01/19/06 23:10	sdu	MS-V12	1	BPA0857	ND	
t-Butyl alcohol	ND	ug/L	10	10	EPA-8260	01/19/06	01/19/06 23:10	sdu	MS-V12	1	BPA0857	ND	
Diisopropyl ether	ND	ug/L	2.0	0.25	EPA-8260	01/19/06	01/19/06 23:10	sdu	MS-V12	1	BPA0857	ND	
Ethanol	ND	ug/L	1000	110	EPA-8260	01/19/06	01/19/06 23:10	sdu	MS-V12	1	BPA0857	ND	
Ethyl t-butyl ether	ND	ug/L	2.0	0.27	EPA-8260	01/19/06	01/19/06 23:10	sdu	MS-V12	1	BPA0857	ND	
Total Purgeable Petroleum Hydrocarbons	ND	ug/L	50	23	EPA-8260	01/19/06	01/19/06 23:10	sdu	MS-V12	1	BPA0857	ND	
1,2-Dichloroethane-d4 (Surrogate)	87.6	%	76 - 114 (LCL - UCL)		EPA-8260	01/19/06	01/19/06 23:10	sdu	MS-V12	1	BPA0857		
Toluene-d8 (Surrogate)	100	%	88 - 110 (LCL - UCL)		EPA-8260	01/19/06	01/19/06 23:10	sdu	MS-V12	1	BPA0857		
4-Bromofluorobenzene (Surrogate)	104	%	86 - 115 (LCL - UCL)		EPA-8260	01/19/06	01/19/06 23:10	sdu	MS-V12	1	BPA0857		

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Project: 0353
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Project Manager: Anju Farfan

Reported: 01/30/06 11:46

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 0600544-09 | **Client Sample Name:** 0353, MW-3A, MW-3A, 1/17/2006 9:00:00AM, Eduardo Sanchez

Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instrument ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Benzene	ND	ug/L	1.0	0.12	EPA-8260	01/19/06	01/19/06 23:32	sdu	MS-V12	1	BPA0857	ND	
Ethylbenzene	ND	ug/L	1.0	0.13	EPA-8260	01/19/06	01/19/06 23:32	sdu	MS-V12	1	BPA0857	ND	
Methyl t-butyl ether	2.0	ug/L	2.0	0.15	EPA-8260	01/19/06	01/19/06 23:32	sdu	MS-V12	1	BPA0857	ND	
Toluene	ND	ug/L	1.0	0.15	EPA-8260	01/19/06	01/19/06 23:32	sdu	MS-V12	1	BPA0857	ND	
Total Xylenes	ND	ug/L	1.0	0.40	EPA-8260	01/19/06	01/19/06 23:32	sdu	MS-V12	1	BPA0857	ND	
t-Amyl Methyl ether	ND	ug/L	2.0	0.31	EPA-8260	01/19/06	01/19/06 23:32	sdu	MS-V12	1	BPA0857	ND	
t-Butyl alcohol	ND	ug/L	10	10	EPA-8260	01/19/06	01/19/06 23:32	sdu	MS-V12	1	BPA0857	ND	
Diisopropyl ether	ND	ug/L	2.0	0.25	EPA-8260	01/19/06	01/19/06 23:32	sdu	MS-V12	1	BPA0857	ND	
Ethanol	ND	ug/L	1000	110	EPA-8260	01/19/06	01/19/06 23:32	sdu	MS-V12	1	BPA0857	ND	
Ethyl t-butyl ether	ND	ug/L	2.0	0.27	EPA-8260	01/19/06	01/19/06 23:32	sdu	MS-V12	1	BPA0857	ND	
Total Purgeable Petroleum Hydrocarbons	ND	ug/L	50	23	EPA-8260	01/19/06	01/19/06 23:32	sdu	MS-V12	1	BPA0857	ND	
1,2-Dichloroethane-d4 (Surrogate)	89.2	%	76 - 114 (LCL - UCL)		EPA-8260	01/19/06	01/19/06 23:32	sdu	MS-V12	1	BPA0857		
Toluene-d8 (Surrogate)	100	%	88 - 110 (LCL - UCL)		EPA-8260	01/19/06	01/19/06 23:32	sdu	MS-V12	1	BPA0857		
4-Bromofluorobenzene (Surrogate)	106	%	86 - 115 (LCL - UCL)		EPA-8260	01/19/06	01/19/06 23:32	sdu	MS-V12	1	BPA0857		

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Project: 0353
Project Number: [none]
Project Manager: Anju Farfan

Reported: 01/30/06 11:46

Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Precision & Accuracy

Constituent	Batch ID	QC Sample ID	QC Sample Type	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
Benzene	BPA0857	BPA0857-MS1	Matrix Spike	ND	28.230	25.000	ug/L		113		70 - 130	
		BPA0857-MSD1	Matrix Spike Duplicate	ND	28.580	25.000	ug/L	0.881	114	20	70 - 130	
Toluene	BPA0857	BPA0857-MS1	Matrix Spike	ND	28.430	25.000	ug/L		114		70 - 130	
		BPA0857-MSD1	Matrix Spike Duplicate	ND	28.880	25.000	ug/L	1.74	116	20	70 - 130	
1,2-Dichloroethane-d4 (Surrogate)	BPA0857	BPA0857-MS1	Matrix Spike	ND	8.8100	10.000	ug/L		88.1		76 - 114	
		BPA0857-MSD1	Matrix Spike Duplicate	ND	10.240	10.000	ug/L		102		76 - 114	
Toluene-d8 (Surrogate)	BPA0857	BPA0857-MS1	Matrix Spike	ND	10.070	10.000	ug/L		101		88 - 110	
		BPA0857-MSD1	Matrix Spike Duplicate	ND	10.030	10.000	ug/L		100		88 - 110	
4-Bromofluorobenzene (Surrogate)	BPA0857	BPA0857-MS1	Matrix Spike	ND	10.510	10.000	ug/L		105		86 - 115	
		BPA0857-MSD1	Matrix Spike Duplicate	ND	10.420	10.000	ug/L		104		86 - 115	

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Project: 0353
Project Number: [none]
Project Manager: Anju Farfan

Reported: 01/30/06 11:46

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Batch ID	QC Sample ID	QC Sample Type	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
Nitrate as N	BPA0703	BPA0703-DUP1	Duplicate	0.91200	0.91000		mg/L	0.220		10		
		BPA0703-MS1	Matrix Spike	0.91200	6.0131	5.0505	mg/L		101		80 - 120	
		BPA0703-MSD1	Matrix Spike Duplicate	0.91200	6.0354	5.0505	mg/L	0.00	101	10	80 - 120	
Sulfate	BPA0703	BPA0703-DUP1	Duplicate	201.95	202.12		mg/L	0.0841		10		
		BPA0703-MS1	Matrix Spike	201.95	300.80	101.01	mg/L		97.9		80 - 120	
		BPA0703-MSD1	Matrix Spike Duplicate	201.95	301.12	101.01	mg/L	0.306	98.2	10	80 - 120	
Iron (II) Species	BPA0742	BPA0742-DUP1	Duplicate	ND	ND		ug/L			10		
Total Alkalinity as CaCO3	BPA1058	BPA1058-DUP1	Duplicate	186.34	189.20		mg/L	1.52		10		
		BPA1058-MS1	Matrix Spike	186.34	315.66	125.00	mg/L		103		80 - 120	
		BPA1058-MSD1	Matrix Spike Duplicate	186.34	313.76	125.00	mg/L	0.976	102	10	80 - 120	

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Project: 0353
Project Number: [none]
Project Manager: Anju Farfan

Reported: 01/30/06 11:46

Water Analysis (Metals)

Quality Control Report - Precision & Accuracy

Constituent	Batch ID	QC Sample ID	QC Sample Type	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
Manganese	BPA1057	BPA1057-DUP1	Duplicate	7.7995	7.9901		ug/L	2.41		20		J
		BPA1057-MS1	Matrix Spike	7.7995	227.25	204.08	ug/L		108		75 - 125	
		BPA1057-MSD1	Matrix Spike Duplicate	7.7995	217.43	204.08	ug/L	4.74	103	20	75 - 125	

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Project: 0353
Project Number: [none]
Project Manager: Anju Farfan

Reported: 01/30/06 11:46

Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Laboratory Control Sample

Constituent	Batch ID	QC Sample ID	QC Type	Result	Spike Level	PQL	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
Benzene	BPA0857	BPA0857-BS1	LCS	27.930	25.000	0.50	ug/L	112		70 - 130		
Toluene	BPA0857	BPA0857-BS1	LCS	28.210	25.000	0.50	ug/L	113		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BPA0857	BPA0857-BS1	LCS	10.050	10.000		ug/L	100		76 - 114		
Toluene-d8 (Surrogate)	BPA0857	BPA0857-BS1	LCS	10.070	10.000		ug/L	101		88 - 110		
4-Bromofluorobenzene (Surrogate)	BPA0857	BPA0857-BS1	LCS	10.410	10.000		ug/L	104		86 - 115		

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Project: 0353
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Project Manager: Anju Farfan

Reported: 01/30/06 11:46

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	Batch ID	QC Sample ID	QC Type	Result	Spike Level	PQL	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
Nitrate as N	BPA0703	BPA0703-BS1	LCS	5.1520	5.0000	0.10	mg/L	103		90 - 110		
Sulfate	BPA0703	BPA0703-BS1	LCS	104.49	100.00	1.0	mg/L	104		90 - 110		
Iron (II) Species	BPA0742	BPA0742-BS1	LCS	2053.8	2000.0	100	ug/L	103		90 - 110		
Total Alkalinity as CaCO3	BPA1058	BPA1058-BS1	LCS	104.11	100.00	2.5	mg/L	104		90 - 110		

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Water Analysis (Metals)

Quality Control Report - Laboratory Control Sample

Constituent	Batch ID	QC Sample ID	QC Type	Result	Spike Level	PQL	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
Manganese	BPA1057	BPA1057-BS1	LCS	216.46	200.00	10	ug/L	108		85 - 115		

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Project: 0353
Project Number: [none]
Project Manager: Anju Farfan

Reported: 01/30/06 11:46

Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Method Blank Analysis

Constituent	Batch ID	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
Benzene	BPA0857	BPA0857-BLK1	ND	ug/L	0.50	0.12	
Ethylbenzene	BPA0857	BPA0857-BLK1	ND	ug/L	0.50	0.12	
Methyl t-butyl ether	BPA0857	BPA0857-BLK1	ND	ug/L	0.50	0.12	
Toluene	BPA0857	BPA0857-BLK1	ND	ug/L	0.50	0.15	
Total Xylenes	BPA0857	BPA0857-BLK1	ND	ug/L	1.0	0.37	
t-Amyl Methyl ether	BPA0857	BPA0857-BLK1	ND	ug/L	0.50	0.49	
t-Butyl alcohol	BPA0857	BPA0857-BLK1	ND	ug/L	10	10	
Diisopropyl ether	BPA0857	BPA0857-BLK1	ND	ug/L	0.50	0.25	
Ethanol	BPA0857	BPA0857-BLK1	ND	ug/L	250	110	
Ethyl t-butyl ether	BPA0857	BPA0857-BLK1	ND	ug/L	0.50	0.25	
Total Purgeable Petroleum Hydrocarbons	BPA0857	BPA0857-BLK1	ND	ug/L	50	23	
1,2-Dichloroethane-d4 (Surrogate)	BPA0857	BPA0857-BLK1	88.3	%	76 - 114 (LCL - UCL)		
Toluene-d8 (Surrogate)	BPA0857	BPA0857-BLK1	100	%	88 - 110 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	BPA0857	BPA0857-BLK1	104	%	86 - 115 (LCL - UCL)		

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Project: 0353
Project Number: [none]
Project Manager: Anju Farfan

Reported: 01/30/06 11:46

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	Batch ID	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
Nitrate as N	BPA0703	BPA0703-BLK1	ND	mg/L	0.10	0.012	
Sulfate	BPA0703	BPA0703-BLK1	ND	mg/L	1.0	0.12	
Iron (II) Species	BPA0742	BPA0742-BLK1	ND	ug/L	100	100	
Iron (III) Species	BPA0876	BPA0876-BLK1	ND	ug/L	100	100	
Total Alkalinity as CaCO3	BPA1058	BPA1058-BLK1	ND	mg/L	2.5	2.5	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

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TRC Alton Geoscience
21 Technology Drive
Irvine CA, 92618-2302

Project: 0353
Project Number: [none]
Project Manager: Anju Farfan

Reported: 01/30/06 11:46

Water Analysis (Metals)

Quality Control Report - Method Blank Analysis

Constituent	Batch ID	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
Manganese	BPA1057	BPA1057-BLK1	ND	ug/L	10	5.3	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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TRC Alton Geoscience 21 Technology Drive Irvine CA, 92618-2302	Project: 0353 Project Number: [none] Project Manager: Anju Farfan	**Reported:** 01/30/06 11:46

Notes and Definitions

J	Estimated value
A01	PQL's and MDL's are raised due to sample dilution.
ND	Analyte NOT DETECTED at or above the reporting limit
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

: LABORATORIES INC. | SAMPLE RECEIPT FORM | Rev. No. 10 01/21/04 | Page 1 Of 1

ubmission #: 06-00544 | Project Code: | TB Batch #

SHIPPING INFORMATION

deral Express ☐ UPS ☐ Hand Delivery ☐
: Lab Field Service ☒ Other ☐ (Specify)_____

SHIPPING CONTAINER

Ice Chest ☒ None ☐
Box ☐ Other ☐ (Specify)_____

efrigerant: Ice ☒ Blue Ice ☐ None ☐ Other ☐ Comments:

istody Seals: Ice Chest ☐ Intact? Yes ☐ No ☐ | Containers ☐ Intact? Yes ☐ No ☐ | None ☒ Comments:

samples received? Yes ☒ No ☐ All samples containers intact? Yes ☒ No ☐ Description(s) match COC? Yes ☒ No ☐

COC Received
☒ YES ☐ NO

Ice Chest ID _____
Temperature: 5.1 °C
Thermometer ID: #48

Emissivity 1.00
Container QT Amber

Date/Time 1/17/06
Analyst Init NAL 1605

SAMPLE CONTAINERS	SAMPLE NUMBERS 1	2	3	4	5	6	7	8	9	10
GENERAL MINERAL/ GENERAL PHYSICAL	D,E,F	D,E,F					D,E,F			
PE UNPRESERVED										
INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS	B	B					B			
CYANIDE	1/17 AGM									
NITROGEN FORMS										
TOTAL SULFIDE										
NITRATE / NITRITE										
ml TOTAL ORGANIC CARBON										
TOX										
CHEMICAL OXYGEN DEMAND										
PHENOLICS										
ml VOA VIAL TRAVEL BLANK										
ml VOA VIAL	A	A	A	A	A	A	A	A	A	
EPA 413.1, 413.2, 418.1										
ODOR										
DIOLOGICAL										
CTERIOLOGICAL										
ml VOA VIAL- 504										
EPA 508/608/8080										
EPA 515.1/8150										
EPA 525										
EPA 525 TRAVEL BLANK										
ml EPA 547										
ml EPA 531.1										
EPA 548										
EPA 549										
EPA 632										
EPA 8015M										
QA/QC										
AMBER										
OZ. JAR										
OZ. JAR										
IL SLEEVE										
B VIAL										
ASTIC BAG										
RROUS IRON	C	C					C			
CORE	1/17 AGM									

nments _____
nple Numbering Completed By AGM Date/Time 1/17/06 2030

IH :DOCS\WP80\LAB_DOCS\FORMS\SAMREC2.WPD]

Short holding time

BC LABORATORIES, INC.
4100 Atlas Court ☐ Bakersfield, CA 93308
(661) 327-4911 ☐ FAX (661) 327-1918

CHAIN OF CUSTODY

406-00544

Circle one: Phillips 66 / Unocal

Address: 200 S. Central Ave

City: Glendale

State: CA Zip: Shari

Phillips 66 /Unocal Mgr: London

Consultant Firm: TRC
21 Techology Drive
Irvine, CA 92618-2302
Attn: Anju Farfan

4-digit site#: 0353

Workorder # 471/TRC502

Project #: 20040083

Sampler Name: Eduardo Sanchez

MATRIX: (GW) Groundwater (S) Soil (WW) Wastewater (SL) Sludge

Analysis Requested

Lab#	Sample Description	Field Point Name	Date & Time Sampled	MATRIX	BTEX/MTBE by 8021B, Gas by 8015	TPH GAS by 8015M	TPH DIESEL by 8015	8260 full list w/ MTBE & oxygenates	BTEX/MTBE/OXYS BY 8260B	ETHANOL by 8260B	TPPH by 8260B	Dissolved Manganese	Ferrous Iron/Ferric Iron	Nitrate/Sulfate/Total Alkalinity	Turnaround Time Requested 4 days
	MW-8 -6	0353	1/17/06 0647	GW					X	X	X				STD
	MW-4 -7	0353	1/17/06 0730	GW					X	X	X	X	X	X	X
	MW-1A -8	0353	1/17/06 0843	GW					X	X	X				X
	MW-3A -9	0353	1/17/06 0900	GW					X	X	X				X

Comments

GLOBAL ID: T0603728619

Relinquished by: (Signature) [signature] — Received by: [signature] — Date & Time 1-17-06 1235

Relinquished by: (Signature) [signature] — Received by: Numa Lourenzana — Date & Time 1/17/06 1615

Relinquished by: (Signature) — Received by: — Date & Time

(A) = ANALYSIS (C) = CONTAINER (P) = PRESERVATIVE

CHK BY DISTRIBUTION
SUB-OUT

BC LABORATORIES, INC.
4100 Atlas Court □ Bakersfield, CA 93308
(661) 327-4911 □ FAX (661) 327-1918

CHAIN OF CUSTODY

#06-00544

Analysis Requested

Circle one: Phillips 66 / Unocal

Address: 200 South Central ave

City: Glendale

State: CA Zip: Shari

Phillips 66 /Unocal Mgr: London

Consultant Firm: TRC
21 Techology Drive
Irvine, CA 92618-2302
Attn: Anju Farfan

4-digit site#: 0353
Workorder # 4711TRC502
Project #: 200-400-83
Sampler Name: Thomas Velazquez

MATRIX
(GW) Ground-water
(S) Soil
(WW) Waste-water
(SL) Sludge

Lab#	Sample Description	Field Point Name	Date & Time Sampled		MATRIX	BTEX/MTBE by 8021B, Gas by 8015	TPH GAS by 8015M	TPH DIESEL by 8015	8260 full list w/ MTBE & oxygenates	BTEX/MTBE/OXYS BY 8260B	ETHANOL by 8260B	TPPH by 8260B	Dissolved Manganese/ Ferrous Iron	Ferric Iron, nitrate, sulfate, Total Alkalinity		Turnaround Time Requested STD / 4WDAS HCL
	MW-9 -1	0353	01-17-06	0658	GW					X	X	X				X
*	MW-7 -2	↓	01-17-06	0945	↓					X	X	X	X	X		
	MW-5 -3		01-17-06	0828						X	X	X				X
	MW-6 -4		01-17-06	0858						X	X	X				X
	MW-2 -5		01-17-06	0932						X	X	X				X

BAGGED	NO. CONTAINERS	TIME
Cr^{+6}	NO_2 NO_3	CP SS
DO	BOD MBAS	C O T

Comments: Short Holding TIME on well MW-7

GLOBAL ID: T0603728619

Relinquished by (Signature): [signature]
Relinquished by (Signature):
Relinquished by (Signature):

Received by: [signature]
Received by: [signature] 1/17/06 1615
Received by:

Date & Time: 1-17-06 1235
Date & Time:
Date & Time:

(A) = ANALYSIS (C) = CONTAINER (P) = PRESERVATIVE

LA

TRC

Receipt of Manifest is Pending

(February 2, 2006)

21 Technology Drive • Irvine, California 92618
Main: 949-727-9336 • Fax: 949-727-7399
www.trcsolutions.com

LIMITATIONS

The fluid level monitoring and groundwater sampling activities summarized in this report have been performed under the responsible charge of a California Registered Geologist or Registered Civil Engineer and have been conducted in accordance with current practice and the standard of care exercised by geologists and engineers performing similar tasks in this area. No warranty, express or implied, is made regarding the conclusions and professional opinions presented in this report. The conclusions are based solely upon an analysis of the observed conditions. If actual conditions differ from those described in this report, our office should be notified.

APPENDIX D

UNDERGROUND STORAGE TANK
LOW RISK CASE REVIEW FORM

State of California
Environmental Protection Agency

UNDERGROUND STORAGE TANK
LOW RISK CASE REVIEW FORM

Los Angeles Regional
Water Quality Control Board

Case reviewer: Jimmie Woo	Unit Chief: Gregg Kwey	Section Chief: Yue Rong (Acting)	AEO: David Bacharowski	EO: Dennis Dickerson
Date:	Date:	Date:	Date:	Date:

LUSTIS File No.: **912040107**		Investigation and Cleanup Priority:	
Site Name/Address: **Former 76 Station 0353, 200 South Central Avenue, Glendale, CA**	Responsible parties: **ConocoPhillips Company**	Address: **P.O. Box 25376, Santa Ana, CA, 92799**	Phone no.: **(714) 428-7720**

I. CASE INFORMATION (N/A = Not Applicable)

Tank No	Size in Gallons	Contents	Closed in-place/Removed/Active?	Date
1	**20,000**	**gasoline**	**removed**	**7/18/05**
2	**20,000**	**gasoline**	**removed**	**7/18/05**
3	**550**	**waste oil**	**removed**	**7/18/05**
4				
5				
6				

II. SITE CHARACTERIZATION INFORMATION (GW=groundwater, --- =Not Reported)

GW Basin: **405.21**	Beneficial uses: **MUN, IND, PROC, and AGR**	Depth to drinking water aquifer: **Site located in Crystal Springs Well Field which is on NPL due to chlorinated solvent contamination.**	
Distance to nearest municipal supply well: **>1 mile**		Distance between known shallow GW contamination and aquifer: **NA**	
GW highest depth: **97.60 fbg (MW-9, 1/173/06)**	GW lowest depth: **103.20 fbg (MW-1, 1/04/05)**	Well screen interval: **MW-1: 90-128; MW-1A: 90-155: MW-2: 90-119; MW-3: 90-119; MW-3A: 90-115; MW-4: 80-119; MW-5: 90-119; MW-6: 90-120, MW-7: 90-120; MW-8: 89-120; MW-9: 90-120**	Flow direction: **West**
Soil types: **sand, gravelly sand and sandy gravel with interbedded silty sand and clayey sand**		Maximum soil depth sampled: **130 feet below grade**	

III. SITE INSPECTION

Pre-closure site inspection:	Is there sensitive receptor next to the site (school, church, hospital, kindergarten etc.)? **No** If yes, brief description:

IV. MAXIMUM DOCUMENTED CONTAMINANT CONCENTRATIONS -- Initial and Latest (ND=Non-detect; NRQ=Not required)

Contaminant	Soil (mg/kg)		PRGs*		Soil Screening Levels (mg/kg)**	Water (µg/L)		MCLs (µg/L)
	Initial (mg/kg)	Latest (mg/kg)	Residential (mg/kg)	Industrial (mg/kg)	Depth (ft) = 50 Type of soil = Sand	Initial (ug/L)	Latest (ug/L)	
TPH (Gas)	24,300	6,900	--	--	500	92	ND	--
TPH (Diesel)	NRQ	NRQ	--	--	NRQ	NRQ	NRQ	--
Benzene	75.3	14	0.64	1.4	0.018	4.1	0.22J	1
Toluene	1,870	520	520	520	0.87	3.6	0.18J	150
Ethylbenzene	672	41	400	400	2.8	3.5	ND	300
Xylenes	3,900	1,200	270	420	7.8	14	ND	1,750
Methyl tertiary butyl ether (MTBE)	0.646	1.3	32	70	0.022	217	2.0	5
Di-isopropyl ether (DIPE)	ND	ND	--	--	--	ND	ND	--
Ethyl tertiary butyl ether (ETBE)	ND	ND	--	--	--	ND	ND	--
Tertiary amyl methyl ether (TAME)	ND	ND	--	--	--	ND	ND	--
Tertiary butyl alcohol (TBA)	0.181	0.61	--	--	--	ND	ND	--

* PRGs = USEPA Region 9 Preliminary Remedial Goals
** Please see the attached table 4 –1

Site Name/Address: **Former 76 Station 0353, 200 S. Central Avenue, Glendale, CA**	Staff Initial:

V. FREE PRODUCT

Was free product encountered? **No**	Has free product been totally recovered? **NA**
When was free product recovery project completed? **NA**	

VI. SOIL REMEDIATION

Method: **Vapor Extraction**	Duration of remediation: **779 hrs during October/November 2005**
Waste manifest document: **NA**	Soil disposal volume: **NA**

VII. GROUNDWATER REMEDIATION

Method: **NA**	Duration of remediation: **NA**

VIII. RECOMMENDED ACTION

Soil Closure only:	Case Closure: **X**	Solvent Case?
Additional action required (i.e.: additional site assessment, remediation, monitoring):		

IX. COMMENTS AND JUSTIFICATION FOR RECOMMENDED ACTION

Hydrocabon-affected soil present in vicinity of former gasoline USTs is of limited vertical and lateral extent and has been adequately assessed and remediated.

Hydrocarbon-affected soil present in the vicinity of the former eastern dispenser island is of limited vertical and lateral extent and has been adequately assessed. This area of hydrocarbon-affected soil will be excavated during redevelopment activities.

Hydrocarbon-affected soil present in the vicinity of the former waste oil UST is be of limited vertical and lateral extent and has been adequately assessed. This area of hydrocarbon-affected soil will be excavated during redevelopment activities.

Four shallow, diesel/heavy-end hydrocarbon soil plumes present in the southern portion of the site are of limited vertical and lateral extent and have been adequately assessed. These areas of hydrocarbon-affected soil will be excavated during redevelopment activities.

A risk assessment conducted before vapor extraction activities were conducted at the site indicated that contaminated soil present beneath the site did not pose a potential risk to humans associated with the proposed redevelopment of the site.

The dissolved-phase hydrocarbon plume appears to be of limited lateral extent and stable. No municipal groundwater production wells are located within 1 mile of the site. The site is located in the Crystal Springs Well Field which is on the NPL due chlorinated solvent contamination.

X. MTBE FATE & TRANSPORT PLUME LENGTH MODELING ANALYSIS

None conducted.

XI. ELECTRONIC DELIVERABLE FORMAT (EDF) SUBMISSION

Has electronic data reporting requirement been met? **Yes**

XII. AB 681 REQUIREMENT (Land Owner Notification)

Have landowner or impacted site notification requirements been met? **Yes**

Owner _____

Responsible party _____

Pre-closure letter sent date _____ _____

(Mar 2004)

Site Name/Address: **Former 76 Station 0353, 200 S. Central Avenue, Glendale, CA**	Staff Initial:

Table 4-1: Maximum Soil Screening Levels (mg/kg) for TPH and BTEX above Drinking Water Aquifers

	Distance Above Groundwater	Carbon Range		
		C4-C12	C13-C22	C23-C32
TPH	>150 feet	1,000	10,000	50,000
	20-150 feet	500	1,000	10,000
	<20 feet	100	100	1,000

	Distance Above Groundwater	Lithology			
		Gravel	Sand	Silt	Clay
BTEX	150 feet	B=0.044 T=2 E=8 X=23 MTBE = 0.039	B=0.077 T=4 E=17 X=48 MTBE = 0.078	B=0.165 T=9 E=34 X=93 MTBE = 0.156	B=0.8 T=43 E=170 X=465 MTBE = 0.78
	120 feet	B=0.035 T=1.57 E=6.3 X=17.9 MTBE = 0.028	B=0.058 T=3.1 E=12.7 X=36 MTBE = 0.061	B=0.123 T=7 E=25.9 X=70.3 MTBE = 0.117	B=0.603 T=32 E=128 X=351 MTBE = 0.591
	100 feet	B=0.028 T=1.3 E=5.1 X=14.4 MTBE = 0.020	B=0.046 T=2.57 E=9.86 X=28 MTBE = 0.05	B=0.094 T=5.4 E=20.4 X=55.1 MTBE = 0.091	B=0.471 T=25 E=101 X=276 MTBE = 0.464
	80 feet	B=0.022 T=1 E=4 X=11 MTBE = 0.013	B=0.033 T=2 E=7 X=20 MTBE = 0.039	B=0.066 T=4 E=15 X=40 MTBE = 0.065	B=0.34 T=18 E=73 X=200 MTBE = 0.338
	60 feet	B=0.018 T=0.72 E=2.9 X=7.9 MTBE = 0.013	B=0.026 T=1.4 E=4.9 X=13.9 MTBE = 0.03	B=0.048 T=2.8 E=10.7 X=28.4 MTBE = 0.048	B=0.241 T=13 E=52 X=141.5 MTBE = 0.247
	40 feet	B=0.015 T=0.43 E=1.8 X=4.8 MTBE = 0.013	B=0.018 T=0.87 E=2.8 X=7.8 MTBE = 0.022	B=0.029 T=1.6 E=6.3 X=16.9 MTBE = 0.03	B=0.143 T=7.5 E=30 X=83 MTBE = 0.156
	20 feet	B=0.011 T=0.15 E=0.7 X=1.75 MTBE = 0.013	B=0.011 T=0.3 E=0.7 X=1.75 MTBE = 0.013	B=0.011 T=0.45 E=2 X=5.3 MTBE = 0.013	B=0.044 T=2.3 E=9 X=24.5 MTBE = 0.065

- TPH = Total petroleum hydrocarbons.
- BTEX = benzene, toluene, ethylbenzene, and xylenes, respectively. MTBE = methyl tertiary butyl ether.
- Respective MCLs (ppm): B=0.001, T=0.15, E=0.7, X=1.75, MTBE=0.013.
- BTEX screening concentrations determined per the attenuation factor method as described in RWQCB Guidance for VOC Impacted Sites (March 1996), with a natural degradation factor of 11 for BTEX and of 3 for MTBE. Table values can be linearly interpolated between distance above groundwater and are proportional to fraction of each lithological thickness.
- Values in Table 4-1 are for soils above drinking water aquifers. All groundwaters are considered as drinking water resources unless exempted by one of the criteria as defined under SWRCB Resolution 88-63 (TDS>3000 mg/L, or deliverability <200 gal/day, or existing contamination that cannot be reasonably treated). Regional Board staff will make a determination of potential water use at a particular site considering water quality objectives and beneficial uses. For non-drinking water aquifers, regardless of depth, TPH for ">150 feet" category in the table should be used; BTEX screening levels are set at 100 times respective MCLs and MTBE 30 times MCL as preliminary levels determined to be protective of human health and the environment.
- Distance above groundwater must be measured from the highest anticipated water level. Lithology is based on the USCS scale.
- In areas of naturally-occurring hydrocarbons, Regional Board staff will make determinations on TPH levels.

(revised 3/30/04)