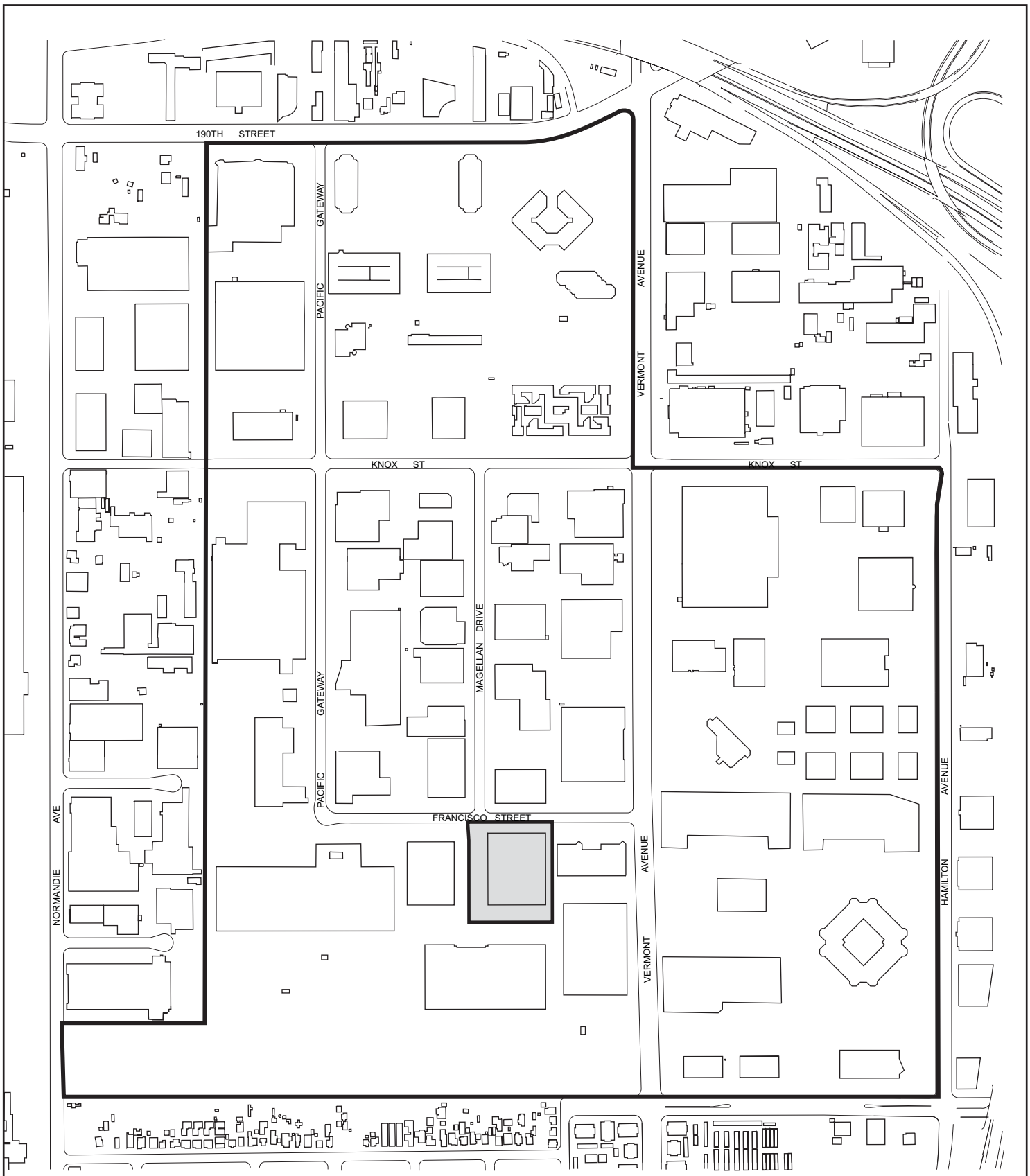
PARCEL 7351-034-068

Parcel 7351-034-068 is located in the south-central portion of the former Styrene Plancor. Styrene was manufactured within the plancor as a component of synthetic rubber. The western portion of the parcel area was used for ethylene purification during the period of plancor operation. Purification was achieved through compression, drying, refrigeration and fractionation steps that produced hydrocarbon chains in the C1 to C4 range, including 1,3-butadiene. The butadiene was transported by pipeline to the Butadiene Plancor. A produced resin fraction was stored in the tank farm area approximately 800 feet to the west of the parcel. The produced ethylene was reacted with benzene in an area to the north of the parcel area to produce ethylbenzene, a feedstock for production of styrene. Former plancor facilities identified in the parcel area are as follows:

- A compressor house building;
- A small “switch house” building;
- Unspecified ethylene purification equipment and controls;
- Aboveground tanks used for storage of butadiene and resin feed; and
- Underground pipelines used for transport of surface water runoff and/or wastewater.

T:\Ladd\DelAmo\794-187



N

0 600 1,200

Scale in Feet

LOCATION MAP
Parcel 7351-034-068

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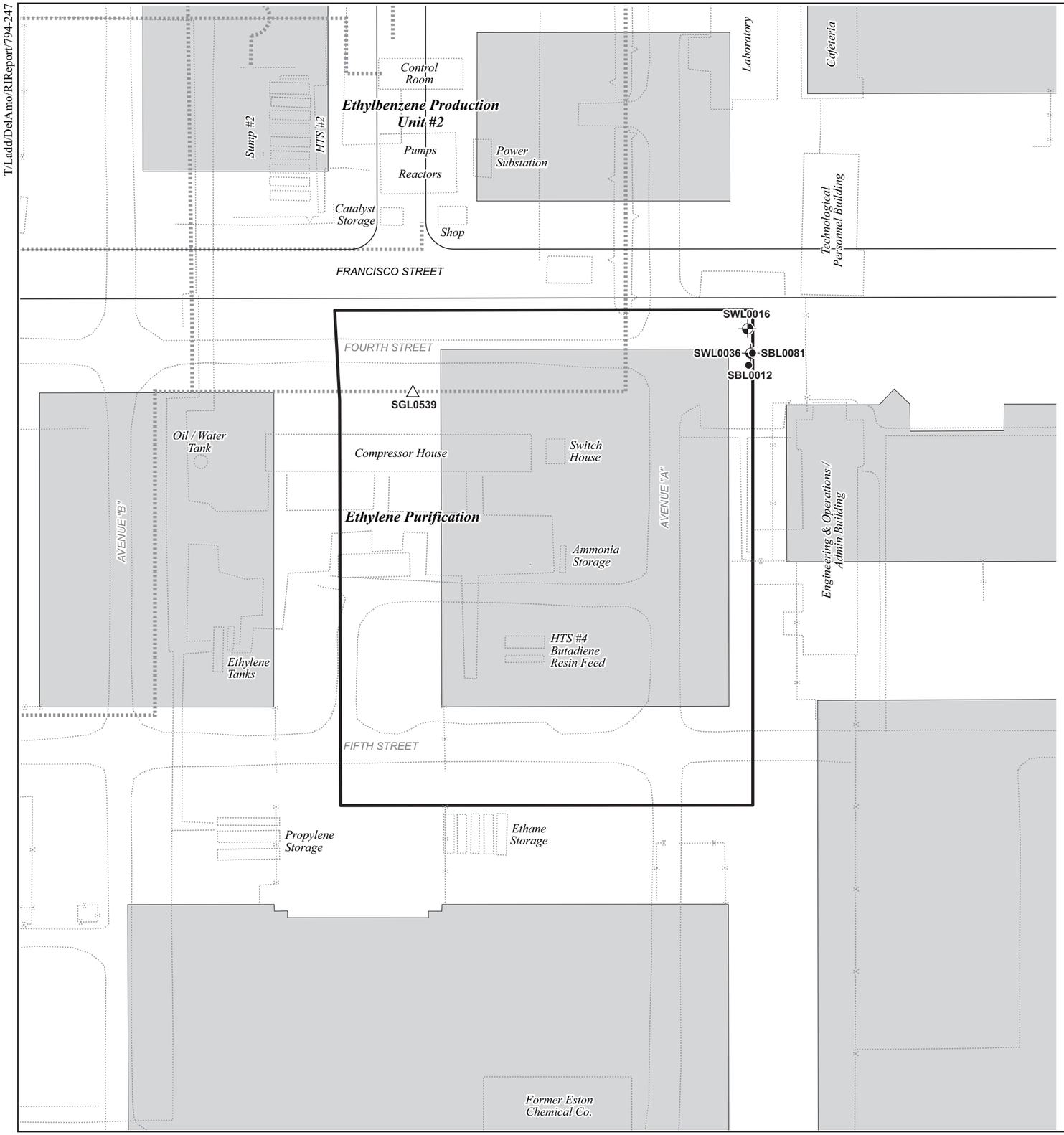

Legend

- Soil gas sampling location
- Soil boring
- Groundwater monitoring well
- Parcel boundary
- Cooling Tower #3 / Acetone / Acetonitrile — Outlines of historical features with use/contents indicated
- Approximate location of former underground pipelines with a potential to have transported VOC-containing fluids

N

0 100 200
Scale in Feet

SAMPLING LOCATIONS AND HISTORICAL FEATURES
Parcel No. 7351-034-068

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SUMMARY OF ANALYTICAL DATA
PARCEL 7351-034-068

Sample Media	Location	Depth (ft. bgs)	Date	Analysis Class	Analyte	Concentration	Screening Criteria Exceeded
Shallow Soil Gas (<= 15')	SGL0539	7.00	03/09/94	VOCs		All ND	
Deep Soil (> 15')	SBL0012	30.0	11/17/92	Physical Properties	Bulk Density H	1.51 g/cc	
					Bulk Density V	1.48 g/cc	
					Grain Density H	2.55 g/cc	
					Grain Density V	2.50 g/cc	
					Porosity H	40.8 %vb	
					Porosity V	40.9 %vb	
					Effective Porosity H	26.8 %vb	
					Effective Porosity V	25.1 %vb	
					Moisture Content	25.5 %wt	
					Moisture Content	20.63 %m	
					Air Permeability H	1.4E-04 cm/s	
					Air Permeability V	1.1E-04 cm/s	
					Native State Air Permeability H	2,100 md	
					Native State Air Permeability V	1,650 md	
					Hydraulic Conductivity H	9.2E-05 cm/s	
					Hydraulic Conductivity V	6.3E-05 cm/s	
					Water Permeability H	97.9 md	
					Water Permeability V	67.5 md	
					PAN	26.64 %	
					0.020MM_SIEVE	5.90 %	
					0.030MM_SIEVE	3.97 %	
					0.037MM_SIEVE	5.22 %	
					0.053MM_SIEVE	3.40 %	
					0.074MM_SIEVE	4.08 %	
					0.105MM_SIEVE	4.76 %	
					0.149MM_SIEVE	5.56 %	
					0.210MM_SIEVE	12.02 %	
					0.300MM_SIEVE	9.52 %	
					0.420MM_SIEVE	9.52 %	
					0.590MM_SIEVE	6.46 %	
					0.840MM_SIEVE	2.38 %	
					1.190MM_SIEVE	0.57 %	
		133	11/18/92	Physical Properties	Bulk Density H	1.68 g/cc	
					Bulk Density V	1.67 g/cc	
					Grain Density H	2.61 g/cc	
					Grain Density V	2.59 g/cc	

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SUMMARY OF ANALYTICAL DATA
PARCEL 7351-034-068

Sample Media	Location	Depth (ft. bgs)	Date	Analysis Class	Analyte	Concentration	Screening Criteria Exceeded
Deep Soil (> 15')	SBL0012	133	11/18/92	Physical Properties	Porosity H	35.4 %vb	
					Porosity V	35.7 %vb	
					Effective Porosity H	22.9 %vb	
					Effective Porosity V	26.4 %vb	
					Air Permeability H	5.9E-05 cm/s	
					Air Permeability V	1.7E-04 cm/s	
					Native State Air Permeability H	892 md	
					Native State Air Permeability V	2,570 md	
					Hydraulic Conductivity H	5.2E-05 cm/s	
					Hydraulic Conductivity V	7.3E-05 cm/s	
					Water Permeability H	55.3 md	
					Water Permeability V	77.8 md	
					PAN	0.86 %	
					0.037MM_SIEVE	0.60 %	
					0.044MM_SIEVE	1.28 %	
					0.063MM_SIEVE	2.82 %	
					0.088MM_SIEVE	7.53 %	
					0.125MM_SIEVE	40.29 %	
					0.177MM_SIEVE	32.85 %	
					0.250MM_SIEVE	11.72 %	
					0.354MM_SIEVE	1.20 %	
					0.500MM_SIEVE	0.26 %	
					0.707MM_SIEVE	0.17 %	
					1.000MM_SIEVE	0.17 %	
					1.414MM_SIEVE	0.26 %	
		143	11/18/92	Physical Properties	Bulk Density H	1.37 g/cc	
					Bulk Density V	1.34 g/cc	
					Grain Density H	2.60 g/cc	
					Grain Density V	2.59 g/cc	
					Porosity H	47.3 %vb	
					Porosity V	48.2 %vb	
					Effective Porosity H	11.0 %vb	
					Effective Porosity V	9.30 %vb	
					Liquid Limit	72 %m	
					Moisture Content	35.06 %m	
					Plastic Index	51 %m	
					Plastic Limit	21 %m	

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SUMMARY OF ANALYTICAL DATA
PARCEL 7351-034-068

Sample Media	Location	Depth (ft. bgs)	Date	Analysis Class	Analyte	Concentration	Screening Criteria Exceeded
Deep Soil (> 15')	SBL0012	143	11/18/92	Physical Properties	PAN	28.25 %	
					0.020MM_SIEVE	6.25 %	
					0.030MM_SIEVE	4.21 %	
					0.037MM_SIEVE	5.53 %	
					0.053MM_SIEVE	3.61 %	
					0.074MM_SIEVE	4.33 %	
					0.105MM_SIEVE	5.05 %	
					0.149MM_SIEVE	5.89 %	
					0.210MM_SIEVE	6.73 %	
					0.300MM_SIEVE	10.10 %	
					0.420MM_SIEVE	10.10 %	
					0.590MM_SIEVE	6.85 %	
					0.840MM_SIEVE	2.52 %	
					1.190MM_SIEVE	0.60 %	
	SBL0081	72.0	01/19/94	Physical Properties	Moisture Content	27.61 %m	
		163	01/19/94	Physical Properties	Liquid Limit	60 %m	
					Moisture Content	33.53 %m	
					Plastic Index	36 %m	
					Plastic Limit	24 %m	
		180	01/20/94	Physical Properties	Moisture Content	25.05 %m	
Groundwater - Water Table	SWL0016	NA	08/11/93	VOCs	1,1,1-Trichloroethane	9.2 ug/l	
					1,1-Dichloroethene	**120 ug/l**	**CA MCL (6)**
					Benzene	**19 ug/l**	**CA MCL (1)**
					Tetrachloroethene	**320 ug/l**	**CA MCL (5)**
					Trichloroethene	**9.2 ug/l**	**CA MCL (5)**
			02/17/94	VOCs	1,1,1-Trichloroethane	10 ug/l	
					1,1-Dichloroethene	**180 ug/l**	**CA MCL (6)**
					Tetrachloroethene	**410 ug/l**	**CA MCL (5)**
			05/04/94	VOCs	**1,1-Dichloroethene**	**140 ug/l**	**CA MCL (6)**
					Benzene	**4.6 ug/l**	**CA MCL (1)**
					Tetrachloroethene	**350 ug/l**	**CA MCL (5)**
					sec-Butylbenzene	12 ug/l	
			07/22/94	VOCs	**1,1-Dichloroethene**	**170 ug/l**	**CA MCL (6)**
					Benzene	**13 ug/l**	**CA MCL (1)**
					Tetrachloroethene	**320 ug/l**	**CA MCL (5)**
			10/19/94	VOCs	**1,1-Dichloroethene**	**160 ug/l**	**CA MCL (6)**
					Benzene	**8.8 ug/l**	**CA MCL (1)**

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SUMMARY OF ANALYTICAL DATA
PARCEL 7351-034-068

Sample Media	Location	Depth (ft. bgs)	Date	Analysis Class	Analyte	Concentration	Screening Criteria Exceeded
Groundwater - Water Table	SWL0016	NA	10/19/94	VOCs	Ethylbenzene	8.4 ug/l	
					Tetrachloroethene	**350 ug/l**	**CA MCL (5)**
					Xylenes (Total)	10 ug/l	
					sec-Butylbenzene	9.8 ug/l	
			03/17/95	VOCs	**1,1-Dichloroethene**	**66 ug/l**	**CA MCL (6)**
					Benzene	**4.7 ug/l**	**CA MCL (1)**
					Tetrachloroethene	**280 ug/l**	**CA MCL (5)**
			07/05/95	VOCs	**1,1-Dichloroethene**	**89 ug/l**	**CA MCL (6)**
					Benzene	**21 ug/l**	**CA MCL (1)**
					Tetrachloroethene	**340 ug/l**	**CA MCL (5)**
			10/19/95	VOCs	**1,1-Dichloroethene**	**120 ug/l**	**CA MCL (6)**
					Tetrachloroethene	**340 ug/l**	**CA MCL (5)**
			02/09/96	VOCs	1,1,1-Trichloroethane	3.2 ug/l	
					1,1-Dichloroethene	**140 ug/l**	**CA MCL (6)**
					Benzene	**7.5 ug/l**	**CA MCL (1)**
					Tetrachloroethene	**350 ug/l**	**CA MCL (5)**
					sec-Butylbenzene	7.6 ug/l	
			01/15/04	VOCs	1,1-Dichloroethane	0.70 ug/l	
					1,1-Dichloroethene	**19 ug/l**	**CA MCL (6)**
					Benzene	0.76 ug/l	
					Chloroform	0.77 ug/l	
					Tetrachloroethene	**120 ug/l**	**CA MCL (5)**
					Trichloroethene	1.8 ug/l	
					sec-Butylbenzene	2.6 ug/l	
Groundwater - Gage	SWL0036	NA	10/19/95	VOCs	Methylene chloride	2.1 ug/l	
			09/06/00	VOCs	Ethylbenzene	0.30 ug/l	
			01/15/04	VOCs	Ethylbenzene	1.1 ug/l	
					Tetrachloroethene	0.34 ug/l	
					Trichloroethene	0.73 ug/l	

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