PACIFIC GATEWAY (NORTH SEGMENT)

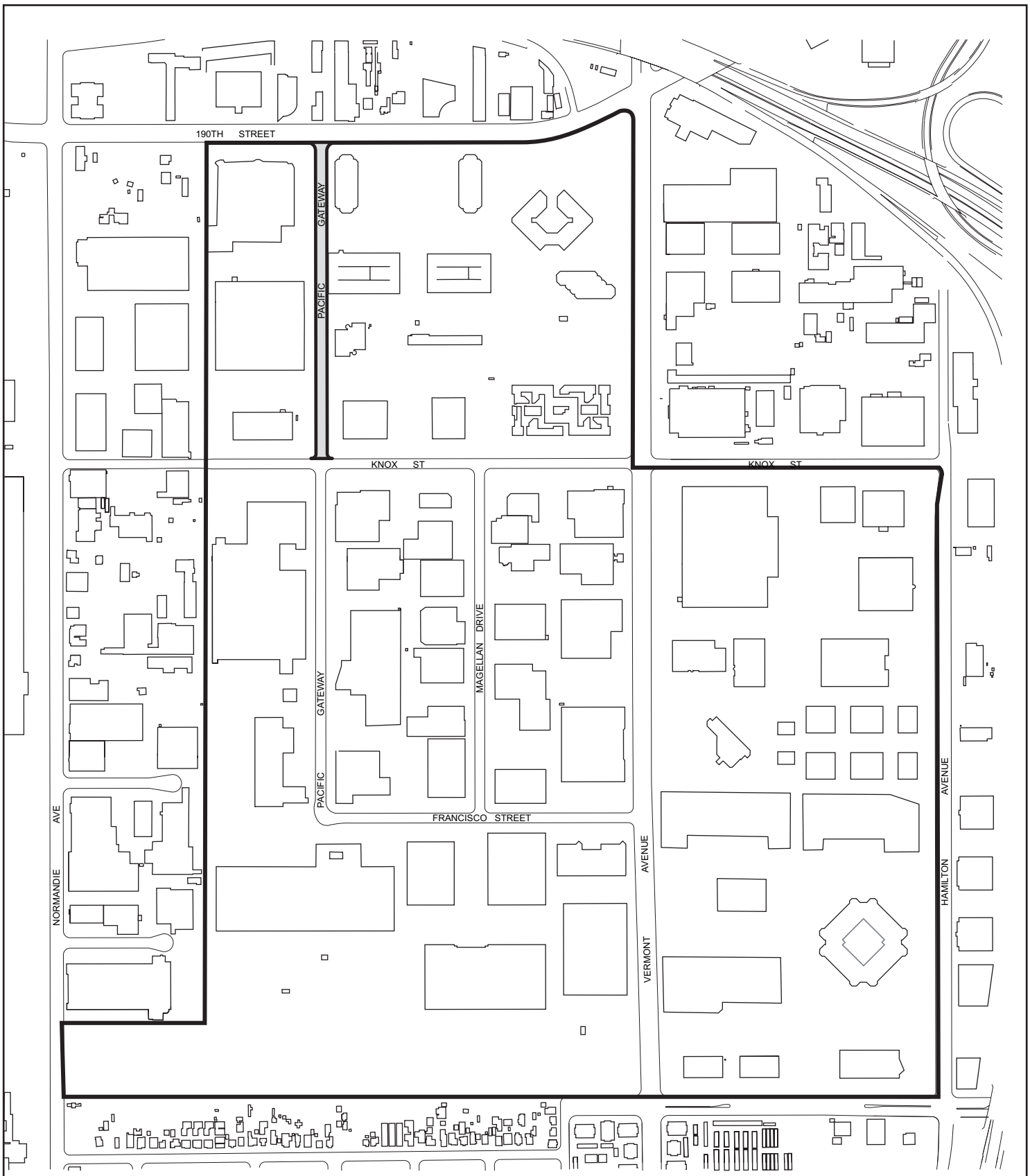
Pacific Gateway (north segment) is located in the Copolymer Plancor. Butadiene and styrene were polymerized to produce synthetic rubber in the Copolymer Plancor during its period of operation. The street segment area was used primarily for storage of VOCs. Former rubber plant facilities located within the street segment are as follows:

- Above-ground storage tanks for styrene, butadiene, cyclohexane, methanol, sulfuric acid, caustic, water, oil, and "BLE" (a staining antioxident); and

- Short sections of underground pipelines used for transport of surface runoff water and/or wastewater.

The southern end of the street segment is located within a stained area that is apparent on some historical aerial photographs taken during the operational period of the plancor. There is no documentation to indicate the nature of the staining material, but carbon black storage facilities were within the stained area (but not on the parcel). Carbon black is soot, and was used as reinforcing filler in the rubber to improve its durability.

T:\Ladd\DelAmo\1094-323



N

0 600 1,200

Scale in Feet

LOCATION MAP
Pacific Gateway North

T/Ladd/DelAmo/RIReport/805-191

190TH STREET
PACIFIC GATEWAY
FIRST STREET
SECOND STREET
KNOX STREET
AVENUE "D"
AVENUE "C"
AVENUE "B"

Tank Farm #1
Butadiene
Styrene
SGL0194
SGL0195
Butadiene
Pump House #1
Caustic/H_2O
Latex Storage Tank Farm
Primary Effluent Separator #1
Oleic Acid
Soap Tank #1
Reactor Building #1
Soap
Pigment Building #1
C5 Hydrocarbon Disposal
Isoprene Storage
Methanol
Condensate
Flare Stack
HCD
Caustic
Acid
Waste Transfer Station
Pump House
Buried Gasoline Tank
Paint Shop
SGL0196
Butadiene
Styrene
Brine Purification
Fatty Acid
Dressinate
Reactor Building #2
Surge Tanks
Butadiene
SGL0197
SGL0198
SGL0494
SGL0199
SGL0570
Inert Gas
Sump
Brine
Pump House #2
SGL0200
Methanol
Cooling Tower
Tank Farm #2
H_2O
Pigment Building #2
Caustic/H_2O
Sulfuric Acid
HTS #1
Secondary Effluent Separator
Vacuum Flash
Primary Effluent Separator #2
Methanol
SBL0262
Solvent Storage
Oil Feed
Cyclohexane
Dressinate
Recycled Solvent
SGL0201
SGL0202
SGL0203
SGL0204
Non Staining Oil
Pump House #3
SBL0261
Tank Farm #3
Caustic/H_2O
K.O.
Ajone DO
Soap Tanks Dressinate
Primary Effluent Separator #3
Reactor Building #3
Pigment Building #3
Caustic
BLE
Oil Emulsion Make-up Tanks
Caustic
Flash Column
Carbon Slurry Tanks
Carbon Black Storage
Solution Blend
Blowdown
Carbon Black Building
Reactor Building
Slurry Pit
Solution Blend
SBL0042
Contractor's Building
Final Effluent Pit
Replenishing Agent Tanks

Legend

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

N

0 300 600
Scale in Feet

SAMPLING LOCATIONS AND HISTORICAL FEATURES
Pacific Gateway (North)

URS

SUMMARY OF ANALYTICAL DATA
PARCEL Pacific Gateway (N)

Sample Media	Location	Depth (ft. bgs)	Date	Analysis Class	Analyte	Concentration	Screening Criteria Exceeded
Shallow Soil Gas (<= 15')	SGL0194	6.50	04/20/93	VOCs	1,1,1-Trichloroethane	0.011 ppmv	
					1,2,4-Trimethylbenzene	0.0038 ppmv	
					4-Ethyl Toluene	0.0026 ppmv	
					Acetone	0.011 ppmv	
					Acetonitrile	0.015 ppmv	
					Benzene	0.0096 ppmv	
					Ethylbenzene	0.0053 ppmv	
					Freon 11	0.0045 ppmv	
					Methyl Ethyl Ketone	0.0024 ppmv	
					Styrene	0.0024 ppmv	
					Tetrachloroethene	0.0048 ppmv	
					Toluene	0.0073 ppmv	
					Xylenes (Total)	0.0068 ppmv	
	SGL0195	6.50	04/20/93	VOCs		All ND	
	SGL0196	6.50	04/20/93	VOCs		All ND	
	SGL0197	6.50	04/20/93	VOCs		All ND	
	SGL0198	6.50	04/20/93	VOCs		All ND	
	SGL0199	6.50	04/20/93	VOCs		All ND	
	SGL0200	6.50	04/20/93	VOCs		All ND	
	SGL0201	6.50	04/20/93	VOCs		All ND	
	SGL0202	6.50	04/20/93	VOCs		All ND	
	SGL0203	6.50	04/20/93	VOCs		All ND	
	SGL0204	6.50	04/20/93	VOCs		All ND	
	SGL0494	6.00	10/12/93	VOCs	1,1,1-Trichloroethane	0.0018 ppmv	
					1,2,4-Trimethylbenzene	0.032 ppmv	
					1,3,5-Trimethylbenzene	0.028 ppmv	
					4-Ethyl Toluene	0.048 ppmv	
					Acetone	0.0077 ppmv	
					Benzene	0.0034 ppmv	
					Ethylbenzene	0.53 ppmv	
					Freon 11	0.015 ppmv	
					Freon 12	0.0061 ppmv	
					Tetrachloroethene	0.0016 ppmv	
					Toluene	0.0049 ppmv	
					Xylenes (Total)	0.38 ppmv	
	SGL0570	7.00	03/14/94	VOCs		All ND	
Shallow Soil (<= 15')	SBL0042	4.80	02/12/93	Pest./PCBs		All ND	

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SUMMARY OF ANALYTICAL DATA
PARCEL Pacific Gateway (N)

Sample Media	Location	Depth (ft. bgs)	Date	Analysis Class	Analyte	Concentration	Screening Criteria Exceeded
Shallow Soil (<= 15')	SBL0042	4.80	02/12/93	Metals	Al	19,000 mg/kg	
					As	2.0 mg/kg	
					Ba	160 mg/kg	
					Be	0.52 mg/kg	
					Ca	4,000 mg/kg	
					Cd	16 mg/kg	
					Co	11 mg/kg	
					Cr	21 mg/kg	
					Cu	20 mg/kg	
					Fe	27,000 mg/kg	
					K	4,700 mg/kg	
					Mg	7,400 mg/kg	
					Mn	370 mg/kg	
					Na	2,400 mg/kg	
					Ni	13 mg/kg	
					Pb	11 mg/kg	
					V	42 mg/kg	
					Zn	51 mg/kg	
				Cyanide	Cyanide	ND	
		8.50	02/10/93	VOCs		All ND	
				SVOCs/PAHs		All ND	
		9.50	02/13/93	Pest./PCBs		All ND	
				Metals	Al	22,000 mg/kg	
					As	3.3 mg/kg	
					Ba	140 mg/kg	
					Be	0.48 mg/kg	
					Ca	7,300 mg/kg	
					Cd	17 mg/kg	
					Co	12 mg/kg	
					Cr	23 mg/kg	
					Cu	26 mg/kg	
					Fe	29,000 mg/kg	
					K	4,100 mg/kg	
					Mg	8,800 mg/kg	
					Mn	530 mg/kg	
					Na	1,300 mg/kg	
					Ni	16 mg/kg	

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SUMMARY OF ANALYTICAL DATA
PARCEL Pacific Gateway (N)

Sample Media	Location	Depth (ft. bgs)	Date	Analysis Class	Analyte	Concentration	Screening Criteria Exceeded
Shallow Soil (<= 15')	SBL0042	9.50	02/13/93	Metals	Pb	13 mg/kg	
					V	47 mg/kg	
					Zn	55 mg/kg	
				Cyanide	Cyanide	ND	
		9.70	02/12/93	Pest./PCBs		All ND	
				Metals	Al	21,000 mg/kg	
					As	3.4 mg/kg	
					Ba	140 mg/kg	
					Be	0.48 mg/kg	
					Ca	7,200 mg/kg	
					Cd	17 mg/kg	
					Co	12 mg/kg	
					Cr	22 mg/kg	
					Cu	27 mg/kg	
					Fe	29,000 mg/kg	
					K	4,200 mg/kg	
					Mg	8,800 mg/kg	
					Mn	520 mg/kg	
					Na	1,500 mg/kg	
					Ni	16 mg/kg	
					Pb	12 mg/kg	
					V	45 mg/kg	
					Zn	56 mg/kg	
				Cyanide	Cyanide	ND	
		13.0	02/13/93	Pest./PCBs		All ND	
				Metals	Al	19,000 mg/kg	
					As	3.4 mg/kg	
					Ba	130 mg/kg	
					Be	0.44 mg/kg	
					Ca	7,400 mg/kg	
					Cd	15 mg/kg	
					Co	11 mg/kg	
					Cr	19 mg/kg	
					Cu	23 mg/kg	
					Fe	26,000 mg/kg	
					K	3,900 mg/kg	
					Mg	8,200 mg/kg	

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SUMMARY OF ANALYTICAL DATA
PARCEL Pacific Gateway (N)

Sample Media	Location	Depth (ft. bgs)	Date	Analysis Class	Analyte	Concentration	Screening Criteria Exceeded
Shallow Soil (<= 15')	SBL0042	13.0	02/13/93	Metals	Mn	370 mg/kg	
					Na	920 mg/kg	
					Ni	13 mg/kg	
					Pb	10 mg/kg	
					V	42 mg/kg	
					Zn	53 mg/kg	
				Cyanide	Cyanide	ND	
	SBL0261	1.50	04/15/03	SVOCs/PAHs	2-Methylnaphthalene	0.037 mg/kg	
					Acenaphthylene	0.058 mg/kg	
					Benzo(a)anthracene	0.1 mg/kg	
					Benzo(a)pyrene	0.095 mg/kg	
					Benzo(b)fluoranthene	0.09 mg/kg	
					Benzo(g,h,i)perylene	0.066 mg/kg	
					Benzo(k)fluoranthene	0.12 mg/kg	
					Chrysene	0.22 mg/kg	
					Dibenzo(a,h)anthracene	0.021 mg/kg	
					Fluoranthene	0.19 mg/kg	
					Indeno(1,2,3-c,d)pyrene	0.077 mg/kg	
					Naphthalene	0.04 mg/kg	
					Phenanthrene	0.2 mg/kg	
					Pyrene	0.33 mg/kg	
	SBL0262	2.50	04/15/03	SVOCs/PAHs	2-Methylnaphthalene	0.0043 mg/kg	
					Acenaphthene	0.0025 mg/kg	
					Acenaphthylene	0.0065 mg/kg	
					Anthracene	0.006 mg/kg	
					Benzo(a)anthracene	0.031 mg/kg	
					Benzo(a)pyrene	0.029 mg/kg	
					Benzo(b)fluoranthene	0.036 mg/kg	
					Benzo(g,h,i)perylene	0.014 mg/kg	
					Benzo(k)fluoranthene	0.032 mg/kg	
					Chrysene	0.042 mg/kg	
					Dibenzo(a,h)anthracene	0.005 mg/kg	
					Fluoranthene	0.053 mg/kg	
					Fluorene	0.003 mg/kg	
					Indeno(1,2,3-c,d)pyrene	0.016 mg/kg	
					Naphthalene	0.0028 mg/kg	
					Phenanthrene	0.032 mg/kg	

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SUMMARY OF ANALYTICAL DATA
PARCEL Pacific Gateway (N)

Sample Media	Location	Depth (ft. bgs)	Date	Analysis Class	Analyte	Concentration	Screening Criteria Exceeded
Shallow Soil (<= 15')	SBL0262	2.50	04/15/03	SVOCs/PAHs	Pyrene	0.063 mg/kg	
Deep Soil (> 15')	SBL0042	19.0	02/12/93	VOCs		All ND	
				SVOCs/PAHs		All ND	
Groundwater - Water Table	XMW-21	NA	02/15/94	VOCs	**Benzene**	**4,400 ug/l**	**CA MCL (1)**
					Carbon disulfide	130 ug/l	
					Chloroethane	130 ug/l	
					Ethylbenzene	**1,600 ug/l**	**CA MCL (700)**
					Isopropylbenzene	260 ug/l	
					Toluene	**170 ug/l**	**CA MCL (150)**
					Xylenes (Total)	290 ug/l	
					n-Propylbenzene	180 ug/l	
					sec-Butylbenzene	710 ug/l	
			05/20/94	VOCs	**Benzene**	**81,000 ug/l**	**CA MCL (1)**
					Chloroethane	70 ug/l	
					Ethylbenzene	**20,000 ug/l**	**CA MCL (700)**
			07/28/94	VOCs	**Benzene**	**5,800 ug/l**	**CA MCL (1)**
					Ethylbenzene	**10,000 ug/l**	**CA MCL (700)**
			10/07/94	VOCs	**Benzene**	**14,000 ug/l**	**CA MCL (1)**
					Ethylbenzene	**12,000 ug/l**	**CA MCL (700)**
					sec-Butylbenzene	380 ug/l	
			03/10/95	VOCs	1,2,4-Trimethylbenzene	1,700 ug/l	
					Benzene	**43,000 ug/l**	**CA MCL (1)**
					Ethylbenzene	**31,000 ug/l**	**CA MCL (700)**
					Toluene	**8,500 ug/l**	**CA MCL (150)**
					Xylenes (Total)	**7,400 ug/l**	**CA MCL (1750)**
			06/23/95	VOCs	**Benzene**	**48,000 ug/l**	**CA MCL (1)**
					Ethylbenzene	**39,000 ug/l**	**CA MCL (700)**
					sec-Butylbenzene	580 ug/l	
			10/12/95	VOCs	**Benzene**	**4,100 ug/l**	**CA MCL (1)**
					Ethylbenzene	**23,000 ug/l**	**CA MCL (700)**
			02/05/96	VOCs	1,3,5-Trimethylbenzene	110 ug/l	
					Benzene	**1,500 ug/l**	**CA MCL (1)**
					Ethylbenzene	**6,500 ug/l**	**CA MCL (700)**
					Isopropylbenzene	180 ug/l	
					sec-Butylbenzene	360 ug/l	
			06/11/96	VOCs	**Benzene**	**17,000 ug/l**	**CA MCL (1)**
					Ethylbenzene	**35,000 ug/l**	**CA MCL (700)**

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SUMMARY OF ANALYTICAL DATA
PARCEL Pacific Gateway (N)

Sample Media	Location	Depth (ft. bgs)	Date	Analysis Class	Analyte	Concentration	Screening Criteria Exceeded
Groundwater - Water Table	XMW-21	NA	06/11/96	VOCs	Isopropylbenzene	410 ug/l	
					sec-Butylbenzene	610 ug/l	
			10/22/96	VOCs	**Benzene**	**24,000 ug/l**	**CA MCL (1)**
					Ethylbenzene	**25,000 ug/l**	**CA MCL (700)**
					Isopropylbenzene	450 ug/l	
					sec-Butylbenzene	960 ug/l	
			01/22/97	VOCs	**Benzene**	**740 ug/l**	**CA MCL (1)**
					Ethylbenzene	**11,000 ug/l**	**CA MCL (700)**
					Isopropylbenzene	280 ug/l	
					n-Propylbenzene	210 ug/l	
					sec-Butylbenzene	580 ug/l	
			03/11/98	VOCs	**Benzene**	**3,300 ug/l**	**CA MCL (1)**
					Ethylbenzene	**10,000 ug/l**	**CA MCL (700)**
					Isopropylbenzene	260 ug/l	
					n-Propylbenzene	250 ug/l	
			02/11/99	VOCs	**Benzene**	**4,300 ug/l**	**CA MCL (1)**
					Ethylbenzene	**16,000 ug/l**	**CA MCL (700)**
					Isopropylbenzene	180 ug/l	
					n-Propylbenzene	180 ug/l	
			07/28/00	VOCs	**Benzene**	**2,200 ug/l**	**CA MCL (1)**
					Ethylbenzene	**14,000 ug/l**	**CA MCL (700)**
					Isopropylbenzene	220 ug/l	
					n-Propylbenzene	190 ug/l	
					sec-Butylbenzene	620 ug/l	
			01/28/04	VOCs	**Benzene**	**1,000 ug/l**	**CA MCL (1)**
					Carbon disulfide	35 ug/l	
					Ethylbenzene	**12,000 ug/l**	**CA MCL (700)**
					Isopropylbenzene	230 ug/l	
					n-Butylbenzene	310 ug/l	
					n-Propylbenzene	230 ug/l	
					sec-Butylbenzene	730 ug/l	

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