TABLE 4.7-2 (cont.)

SOIL QUALITY DATA
BLANK SAMPLES
VOLATILE ORGANIC COMPOUNDS

(concentrations in ug/kg)

	LAB BLANKS							
	03/11/92	03/11/92	03/13/92	03/16/92	03/17/92	03/17/92	03/17/92	03/18/92
BETX COMPOUNDS								
Benzene	10 U	10 U	1200 U	10 U	10 U	10 U	1200 U	10 U
Ethyl Benzene	10 U	10 U	1200 U	10 U	10 U	10 U	1200 U	10 U
Toluene	10 U	10 U	1200 U	10 U	10 U	10 U	1200 U	10 U
Xylenes	10 U	10 U	1200 U	10 U	10 U	10 U	1200 U	10 U
CHLORINATED COMPOUNDS								
Bromodichloromethane	10 U	10 U	1200 U	10 U	10 U	10 U	1200 U	10 U
Carbon Tetrachloride	10 U	10 U	1200 U	10 U	10 U	10 U	1200 U	10 U
Chloroethane	10 U	10 U	1200 U	10 U	10 U	10 U	1200 U	10 U
Chloroform	2 J	2 J	350 J	2 J	2 J	10 U	1200 U	10 U
Chloromethane	10 U	10 U	1200 U	10 U	10 U	10 U	1200 U	10 U
Chlorobenzene	10 U	10 U	1200 U	10 U	10 U	10 U	1200 U	10 U
Chlorodibromomethane	10 U	10 U	1200 U	10 U	10 U	10 U	1200 U	10 U
1,1-Dichloroethane	10 U	10 U	1200 U	10 U	10 U	10 U	1200 U	10 U
1,2-Dichloroethane	10 U	10 U	1200 U	10 U	10 U	10 U	1200 U	10 U
1,1-Dichloroethylene	10 U	10 U	1200 U	10 U	10 U	10 U	1200 U	10 U
1,2-Dichloroethylene	10 U	10 U	1200 U	10 U	10 U	10 U	1200 U	10 U
1,2-Dichloropropane	10 U	10 U	1200 U	10 U	10 U	10 U	1200 U	10 U
Cis-1,3-Dichloro-1-propene	10 U	10 U	1200 U	10 U	10 U	10 U	1200 U	10 U
Trans-1,3-Dichloro-1-propene	10 U	10 U	1200 U	10 U	10 U	10 U	1200 U	10 U
Methylene Chloride	4 J	12	170 J	4 J	12	7 J	450 J	7 J
Styrene	10 U	10 U	1200 U	10 U	10 U	10 U	1200 U	10 U
1,1,2,2-Tetrachloroethane	10 U	10 U	1200 U	10 U	10 U	10 U	1200 U	10 U
Tetrachloroethylene	10 U	10 U	1200 U	10 U	10 U	10 U	1200 U	10 U
1,1,1-Trichloroethane	10 U	10 U	1200 U	10 U	10 U	10 U	1200 U	10 U
1,1,2-Trichloroethane	10 U	10 U	1200 U	10 U	10 U	10 U	1200 U	10 U
Trichloroethylene	10 U	10 U	1200 U	10 U	10 U	10 U	1200 U	10 U
Vinyl Chloride	10 U	10 U	1200 U	10 U	10 U	10 U	1200 U	10 U
OTHER COMPOUNDS								
Acetone	10	10	1200 U	10	10	6 J	1200 U	6 J
Bromoform	10 U	10 U	1200 U	10 U	10 U	10 U	1200 U	10 U
Bromomethane	10 U	10 U	1200 U	10 U	10 U	10 U	1200 U	10 U
Carbondisulfide	10 U	10 U	1200 U	10 U	10 U	10 U	1200 U	10 U
2-Hexanone	10 U	10 U	1200 U	10 U	10 U	10 U	1200 U	10 U
Methyl Ethyl Ketone	10 U	10 U	1200 U	10 U	10 U	10 U	1200 U	10 U
Methyl Isobutyl Ketone	10 U	10 U	1200 U	10 U	10 U	10 U	1200 U	10 U

J Associated value is qualified as an estimate. The value is considered to be acceptable and usable.
U Not detected. Note that the laboratory would have reported, with a J qualifier, any detected concentration below the stated quantitation limit but above the laboratory's method detection limit. The laboratory's method detection limit is typically about 10 percent of the stated quantitation limit in the table.

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TABLE 4.7-2 (cont.)

SOIL QUALITY DATA
BLANK SAMPLES
VOLATILE ORGANIC COMPOUNDS

(concentrations in ug/kg)

	LAB BLANKS							
	03/18/92	03/18/92	03/19/92	03/20/92	03/21/92	03/24/92	03/25/92	04/07/92
BETX COMPOUNDS								
Benzene	10 U	1200 U	1200 U	10 U	1200 U	10 U	10 U	10 U
Ethyl Benzene	10 U	1200 U	1200 U	10 U	1200 U	10 U	10 U	10 U
Toluene	10 U	1200 U	1200 U	10 U	1200 U	10 U	10 U	10 U
Xylenes	10 U	1200 U	1200 U	10 U	1200 U	10 U	10 U	10 U
CHLORINATED COMPOUNDS								
Bromodichloromethane	10 U	1200 U	1200 U	10 U	1200 U	10 U	10 U	10 U
Carbon Tetrachloride	10 U	1200 U	1200 U	10 U	1200 U	10 U	10 U	10 U
Chloroethane	10 U	1200 U	1200 U	10 U	1200 U	10 U	10 U	10 U
Chloroform	10 U	1200 U	1200 U	2 J	1200 U	10 U	10 U	10 U
Chloromethane	10 U	1200 U	1200 U	10 U	1200 U	10 U	10 U	10 U
Chlorobenzene	10 U	1200 U	1200 U	10 U	1200 U	10 U	10 U	10 U
Chlorodibromomethane	10 U	1200 U	1200 U	10 U	1200 U	10 U	10 U	10 U
1,1-Dichloroethane	10 U	1200 U	1200 U	10 U	1200 U	10 U	10 U	10 U
1,2-Dichloroethane	10 U	1200 U	1200 U	10 U	1200 U	10 U	10 U	10 U
1,1-Dichloroethylene	10 U	1200 U	1200 U	10 U	1200 U	10 U	10 U	10 U
1,2-Dichloroethylene	10 U	1200 U	1200 U	10 U	1200 U	10 U	10 U	10 U
1,2-Dichloropropane	10 U	1200 U	1200 U	10 U	1200 U	10 U	10 U	10 U
Cis-1,3-Dichloro-1-propene	10 U	1200 U	1200 U	10 U	1200 U	10 U	10 U	10 U
Trans-1,3-Dichloro-1-propene	10 U	1200 U	1200 U	10 U	1200 U	10 U	10 U	10 U
Methylene Chloride	8 J	450 J	450 J	12	450 J	8 J	7 J	5 J
Styrene	10 U	1200 U	1200 U	10 U	1200 U	10 U	10 U	10 U
1,1,2,2-Tetrachloroethane	10 U	1200 U	1200 U	10 U	1200 U	10 U	10 U	10 U
Tetrachloroethylene	10 U	1200 U	1200 U	10 U	1200 U	10 U	10 U	10 U
1,1,1-Trichloroethane	10 U	1200 U	1200 U	10 U	1200 U	10 U	10 U	10 U
1,1,2-Trichloroethane	10 U	1200 U	1200 U	10 U	1200 U	10 U	10 U	10 U
Trichloroethylene	10 U	1200 U	1200 U	10 U	1200 U	10 U	10 U	10 U
Vinyl Chloride	10 U	1200 U	1200 U	10 U	1200 U	10 U	10 U	10 U
OTHER COMPOUNDS								
Acetone	9 J	1200 U	1200 U	10	1200 U	9 J	6 J	3 J
Bromoform	10 U	1200 U	1200 U	10 U	1200 U	10 U	10 U	10 U
Bromomethane	10 U	1200 U	1200 U	10 U	1200 U	10 U	10 U	10 U
Carbondisulfide	10 U	1200 U	1200 U	10 U	1200 U	10 U	10 U	10 U
2-Hexanone	10 U	1200 U	1200 U	10 U	1200 U	10 U	10 U	10 U
Methyl Ethyl Ketone	10 U	1200 U	1200 U	10 U	1200 U	10 U	10 U	10 U
Methyl Isobutyl Ketone	10 U	1200 U	1200 U	10 U	1200 U	10 U	10 U	10 U

J Associated value is qualified as an estimate. The value is considered to be acceptable and usable.
U Not detected. Note that the laboratory would have reported, with a J qualifier, any detected concentration below the stated quantitation limit but above the laboratory's method detection limit. The laboratory's method detection limit is typically about 10 percent of the stated quantitation limit in the table.

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TABLE 4.7-2 (cont.)

SOIL QUALITY DATA
BLANK SAMPLES
VOLATILE ORGANIC COMPOUNDS

(concentrations in ug/kg)

	LAB BLANKS							
	04/07/92	04/07/92	04/08/92	08/24/93	08/25/93	08/25/93	08/30/93	08/30/93
BETX COMPOUNDS								
Benzene	10 U	10 U	10 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethyl Benzene	10 U	10 U	10 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	10 U	10 U	10 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Xylenes	10 U	10 U	10 U	--	--	--	--	--
m & p Xylene	--	--	--	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
o-Xylene	--	--	--	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
CHLORINATED COMPOUNDS								
Bromodichloromethane	10 U	10 U	10 U	--	--	--	--	--
Carbon Tetrachloride	10 U	10 U	10 U	--	--	--	--	--
Chloroethane	10 U	10 U	10 U	--	--	--	--	--
Chloroform	10 U	10 U	10 U	--	--	--	--	--
Chloromethane	10 U	10 U	10 U	--	--	--	--	--
Chlorobenzene	10 U	10 U	10 U	--	--	--	--	--
Chlorodibromomethane	10 U	10 U	10 U	--	--	--	--	--
1,1-Dichloroethane	10 U	10 U	10 U	--	--	--	--	--
1,2-Dichloroethane	10 U	10 U	10 U	--	--	--	--	--
1,1-Dichloroethylene	10 U	10 U	10 U	--	--	--	--	--
1,2-Dichloroethylene	10 U	10 U	10 U	--	--	--	--	--
1,2-Dichloropropane	10 U	10 U	10 U	--	--	--	--	--
Cis-1,3-Dichloro-1-propene	10 U	10 U	10 U	--	--	--	--	--
Trans-1,3-Dichloro-1-propene	10 U	10 U	10 U	--	--	--	--	--
Methylene Chloride	4 J	5 J	4 J	--	--	--	--	--
Styrene	10 U	10 U	10 U	--	--	--	--	--
1,1,2,2-Tetrachloroethane	10 U	10 U	10 U	--	--	--	--	--
Tetrachloroethylene	10 U	10 U	10 U	--	--	--	--	--
1,1,1-Trichloroethane	10 U	10 U	10 U	--	--	--	--	--
1,1,2-Trichloroethane	10 U	10 U	10 U	--	--	--	--	--
Trichloroethylene	10 U	10 U	10 U	--	--	--	--	--
Vinyl Chloride	10 U	10 U	10 U	--	--	--	--	--
OTHER COMPOUNDS								
Acetone	10 U	4 J	10 U	--	--	--	--	--
Bromoform	10 U	10 U	10 U	--	--	--	--	--
Bromomethane	10 U	10 U	10 U	--	--	--	--	--
Carbondisulfide	10 U	10 U	10 U	--	--	--	--	--
2-Hexanone	10 U	10 U	10 U	--	--	--	--	--
Methyl Ethyl Ketone	10 U	5 J	10 U	--	--	--	--	--
Methyl Isobutyl Ketone	10 U	10 U	10 U	--	--	--	--	--

-- Not analyzed.
J Associated value is qualified as an estimate. The value is considered to be acceptable and usable.
U Not detected. Note that the laboratory would have reported, with a J qualifier, any detected concentration below the stated quantitation limit but above the laboratory's method detection limit. The laboratory's method detection limit is typically about 10 percent of the stated quantitation limit in the table.

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TABLE 4.7-2 (cont.)

SOIL QUALITY DATA
BLANK SAMPLES
VOLATILE ORGANIC COMPOUNDS

(concentrations in ug/kg)

	LAB BLANKS							
	08/31/93	08/31/93	09/01/93	10/04/93	10/04/93	10/05/93	10/05/93	11/01/93
BETX COMPOUNDS								
Benzene	1.0 U	1.0 U	1.0 U	10 U	10 U	10 U	10 U	1.0 U
Ethyl Benzene	1.0 U	1.0 U	0.3 J	10 U	10 U	10 U	10 U	1.0 U
Toluene	1.0 U	1.0 U	1.0 U	10 U	10 U	10 U	10 U	0.2 J
Xylenes	--	--	--	10 U	10 U	10 U	10 U	--
m & p Xylene	2.0 U	2.0 U	2.0 U	--	--	--	--	0.3 J
o-Xylene	1.0 U	1.0 U	1.0 U	--	--	--	--	1.0 U
CHLORINATED COMPOUNDS								
Bromodichloromethane	--	--	--	10 U	10 U	10 U	10 U	--
Carbon Tetrachloride	--	--	--	10 U	10 U	10 U	10 U	--
Chloroethane	--	--	--	10 U	10 U	10 U	10 U	--
Chloroform	--	--	--	10 U	10 U	10 U	10 U	--
Chloromethane	--	--	--	10 U	10 U	10 U	10 U	--
Chlorobenzene	--	--	--	10 U	10 U	10 U	10 U	--
Chlorodibromomethane	--	--	--	10 U	10 U	10 U	10 U	--
1,1-Dichloroethane	--	--	--	10 U	10 U	10 U	10 U	--
1,2-Dichloroethane	--	--	--	10 U	10 U	10 U	10 U	--
1,1-Dichloroethylene	--	--	--	10 U	10 U	10 U	10 U	--
1,2-Dichloroethylene	--	--	--	10 U	10 U	10 U	10 U	--
1,2-Dichloropropane	--	--	--	10 U	10 U	10 U	10 U	--
Cis-1,3-Dichloro-1-propene	--	--	--	10 U	10 U	10 U	10 U	--
Trans-1,3-Dichloro-1-propene	--	--	--	10 U	10 U	10 U	10 U	--
Methylene Chloride	--	--	--	10 U	10 U	2 J	10 U	--
Styrene	--	--	--	10 U	10 U	10 U	10 U	--
1,1,2,2-Tetrachloroethane	--	--	--	10 U	10 U	10 U	10 U	--
Tetrachloroethylene	--	--	--	10 U	10 U	10 U	10 U	--
1,1,1-Trichloroethane	--	--	--	10 U	10 U	10 U	10 U	--
1,1,2-Trichloroethane	--	--	--	10 U	10 U	10 U	10 U	--
Trichloroethylene	--	--	--	10 U	10 U	10 U	10 U	--
Vinyl Chloride	--	--	--	10 U	10 U	10 U	10 U	--
OTHER COMPOUNDS								
Acetone	--	--	--	10 U	10 U	9 J	8 J	--
Bromoform	--	--	--	10 U	10 U	10 U	10 U	--
Bromomethane	--	--	--	10 U	10 U	10 U	10 U	--
Carbondisulfide	--	--	--	10 U	10 U	10 U	10 U	--
2-Hexanone	--	--	--	10 U	10 U	10 U	10 U	--
Methyl Ethyl Ketone	--	--	--	10 U	10 U	10 U	10 U	--
Methyl Isobutyl Ketone	--	--	--	10 U	10 U	10 U	10 U	--

-- Not analyzed.
J Associated value is qualified as an estimate. The value is considered to be acceptable and usable.
U Not detected. Note that the laboratory would have reported, with a J qualifier, any detected concentration below the stated quantitation limit but above the laboratory's method detection limit. The laboratory's method detection limit is typically about 10 percent of the stated quantitation limit in the table.

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TABLE 4.7-3

SOIL QUALITY DATA
BLANK SAMPLES
SEMIVOLATILE ORGANIC COMPOUNDS

(concentrations in ug/L)

	LAB BLANKS							
	03/05/92	03/05/92	03/05/92	03/07/92	03/09/92	03/10/92	03/10/92	03/11/92
CARCINOGENIC COMPOUNDS								
Benzo(a)anthracene	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
Benzo(b)fluoranthene	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
Benzo(k)fluoranthene	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
Benzo(a)pyrene	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
Carbazole	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
Chrysene	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
Dibenzo(ah)anthracene	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
Indeno(1,2,3,cd)pyrene	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
PROJECT SPECIFIC NON-CARCINOGENIC COMPOUNDS								
Acenaphthene	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
Acenaphthylene	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
Anthracene	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
Benzo(ghi)perylene	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
Dibenzofuran	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
Fluoranthene	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
Fluorene	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
2-Methylnaphthalene	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
Naphthalene	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
Phenanthrene	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
Pyrene	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
PHENOLIC COMPOUNDS								
4-Chloro-3-methylphenol	330 U	330 U	330 U	330 U	330 U	330 U	--	330 U
2-Chlorophenol	330 U	330 U	330 U	330 U	330 U	330 U	--	330 U
o-Cresol	330 U	330 U	330 U	330 U	330 U	330 U	--	330 U
p-Cresol	330 U	330 U	330 U	330 U	330 U	330 U	--	330 U
2,4-Dichlorophenol	330 U	330 U	330 U	330 U	330 U	330 U	--	330 U
2,4-Dimethylphenol	330 U	330 U	330 U	330 U	330 U	330 U	--	330 U
2,4-Dinitrophenol	800 U	800 U	800 U	800 U	800 U	800 U	--	800 U
2-Methyl-4,6-dinitrophenol	800 U	800 U	800 U	800 U	800 U	800 U	--	800 U
2-Nitrophenol	330 U	330 U	330 U	330 U	330 U	330 U	--	330 U
4-Nitrophenol	800 U	800 U	800 U	800 U	800 U	800 U	--	800 U
Pentachlorophenol	800 U	800 U	800 U	800 U	800 U	800 U	--	800 U
Phenol	330 U	330 U	330 U	330 U	330 U	330 U	--	330 U
2,4,5-Trichlorophenol	800 U	800 U	800 U	800 U	800 U	800 U	--	800 U
2,4,6-Trichlorophenol	330 U	330 U	330 U	330 U	330 U	330 U	--	330 U

-- Not analyzed.

U Not detected. Note that the laboratory would have reported, with a J qualifier, any detected concentration below the stated quantitation limit but above the laboratory's method detection limit. The laboratory's method detection limit is typically about 10 percent of the stated quantitation limit in the table.

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TABLE 4.7-3 (cont.)

SOIL QUALITY DATA
BLANK SAMPLES
SEMIVOLATILE ORGANIC COMPOUNDS

(concentrations in ug/L)

	LAB BLANKS							
	03/05/92	03/05/92	03/05/92	03/07/92	03/09/92	03/10/92	03/10/92	03/11/92
OTHER SEMIVOLATILE ORGANIC COMPOUNDS								
Bis(2-chloroethoxy)methane	330 U	330 U	--	330 U	330 U	330 U	--	330 U
Bis(2-chloroethyl)ether	330 U	330 U	--	330 U	330 U	330 U	--	330 U
Bis(2-chloroisopropyl)ether	330 U	330 U	--	330 U	330 U	330 U	--	330 U
Bis(2-ethylhexyl)phthalate	96 J	330 U	--	330 U	330 U	330 U	--	330 U
4-Bromophenyl phenyl ether	330 U	330 U	--	330 U	330 U	330 U	--	330 U
Butyl benzyl phthalate	330 U	330 U	--	330 U	330 U	330 U	--	330 U
4-Chloroaniline	330 U	330 U	--	330 U	330 U	330 U	--	330 U
2-Chloronaphthalene	330 U	330 U	--	330 U	330 U	330 U	--	330 U
4-Chlorophenyl phenyl ether	330 U	330 U	--	330 U	330 U	330 U	--	330 U
Di-n-butyl phthalate	190 J	100 J	--	100 J	100 J	330 U	--	50 J
Di-n-octyl phthalate	330 U	330 U	--	330 U	330 U	330 U	--	330 U
1,2-Dichlorobenzene	330 U	330 U	--	330 U	330 U	330 U	--	330 U
1,3-Dichlorobenzene	330 U	330 U	--	330 U	330 U	330 U	--	330 U
1,4-Dichlorobenzene	330 U	330 U	--	330 U	330 U	330 U	--	330 U
3,3-Dichlorobenzidine	330 U	330 U	--	330 U	330 U	330 U	--	330 U
Diethyl phthalate	330 U	330 U	--	330 U	330 U	330 U	--	330 U
Dimethyl phthalate	330 U	330 U	--	330 U	330 U	330 U	--	330 U
2,4-Dinitrotoluene	330 U	330 U	--	330 U	330 U	330 U	--	330 U
2,6-Dinitrotoluene	330 U	330 U	--	330 U	330 U	330 U	--	330 U
Hexachlorobenzene	330 U	330 U	--	330 U	330 U	330 U	--	330 U
Hexachlorobutadiene	330 U	330 U	--	330 U	330 U	330 U	--	330 U
Hexachlorocyclopentadiene	330 U	330 U	--	330 U	330 U	330 U	--	330 U
Hexachloroethane	330 U	330 U	--	330 U	330 U	330 U	--	330 U
Isophorone	330 U	330 U	--	330 U	330 U	330 U	--	330 U
N-Nitrosodi-n-propylamine	330 U	330 U	--	330 U	330 U	330 U	--	330 U
N-Nitrosodiphenylamine	330 U	330 U	--	330 U	330 U	330 U	--	330 U
2-Nitroaniline	800 U	800 U	--	800 U	800 U	800 U	--	800 U
3-Nitroaniline	800 U	800 U	--	800 U	800 U	800 U	--	800 U
4-Nitroaniline	800 U	800 U	--	800 U	800 U	800 U	--	800 U
Nitrobenzene	330 U	330 U	--	330 U	330 U	330 U	--	330 U
1,2,4-Trichlorobenzene	330 U	330 U	--	330 U	330 U	330 U	--	330 U

-- Not analyzed.
J Associated value is qualified as an estimate. The value is considered to be acceptable and usable.
U Not detected. Note that the laboratory would have reported, with a J qualifier, any detected concentration below the stated quantitation limit but above the laboratory's method detection limit. The laboratory's method detection limit is typically about 10 percent of the stated quantitation limit in the table.

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TABLE 4.7-3 (cont.)

SOIL QUALITY DATA
BLANK SAMPLES
SEMIVOLATILE ORGANIC COMPOUNDS

(concentrations in ug/L)

	LAB BLANKS							
	03/11/92	03/13/92	03/13/92	03/16/92	03/17/92	03/18/92	03/18/92	03/19/92
CARCINOGENIC COMPOUNDS								
Benzo(a)anthracene	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
Benzo(b)fluoranthene	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
Benzo(k)fluoranthene	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
Benzo(a)pyrene	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
Carbazole	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
Chrysene	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
Dibenzo(ah)anthracene	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
Indeno(1,2,3,cd)pyrene	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
PROJECT SPECIFIC NON-CARCINOGENIC COMPOUNDS								
Acenaphthene	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
Acenaphthylene	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
Anthracene	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
Benzo(ghi)perylene	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
Dibenzofuran	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
Fluoranthene	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
Fluorene	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
2-Methylnaphthalene	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
Naphthalene	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
Phenanthrene	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
Pyrene	330 U	330 U	330 U	330 U	330 U	330 U	330 U	330 U
PHENOLIC COMPOUNDS								
4-Chloro-3-methylphenol	330 U	330 U	330 U	--	--	330 U	330 U	330 U
2-Chlorophenol	330 U	330 U	330 U	--	--	330 U	330 U	330 U
o-Cresol	330 U	330 U	330 U	--	--	330 U	330 U	330 U
p-Cresol	330 U	330 U	330 U	--	--	330 U	330 U	330 U
2,4-Dichlorophenol	330 U	330 U	330 U	--	--	330 U	330 U	330 U
2,4-Dimethylphenol	330 U	330 U	330 U	--	--	330 U	330 U	330 U
2,4-Dinitrophenol	800 U	800 U	800 U	--	--	800 U	800 U	800 U
2-Methyl-4,6-dinitrophenol	800 U	800 U	800 U	--	--	800 U	800 U	800 U
2-Nitrophenol	330 U	330 U	330 U	--	--	330 U	330 U	330 U
4-Nitrophenol	800 U	800 U	800 U	--	--	800 U	800 U	800 U
Pentachlorophenol	800 U	800 U	800 U	--	--	800 U	800 U	800 U
Phenol	330 U	330 U	330 U	--	--	330 U	330 U	330 U
2,4,5-Trichlorophenol	800 U	800 U	330 U	--	--	800 U	800 U	800 U
2,4,6-Trichlorophenol	330 U	330 U	330 U	--	--	330 U	330 U	330 U

-- Not analyzed.

U Not detected. Note that the laboratory would have reported, with a J qualifier, any detected concentration below the stated quantitation limit but above the laboratory's method detection limit. The laboratory's method detection limit is typically about 10 percent of the stated quantitation limit in the table.

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TABLE 4.7-3 (cont.)

SOIL QUALITY DATA
BLANK SAMPLES
SEMIVOLATILE ORGANIC COMPOUNDS

(concentrations in ug/L)

	LAB BLANKS							
	03/11/92	03/13/92	03/13/92	03/16/92	03/17/92	03/18/92	03/18/92	03/19/92
OTHER SEMIVOLATILE ORGANIC COMPOUNDS								
Bis(2-chloroethoxy)methane	--	330 U	--	--	--	330 U	--	--
Bis(2-chloroethyl)ether	--	330 U	--	--	--	330 U	--	--
Bis(2-chloroisopropyl)ether	--	330 U	--	--	--	330 U	--	--
Bis(2-ethylhexyl)phthalate	--	330 U	--	--	--	330 U	--	--
4-Bromophenyl phenyl ether	--	330 U	--	--	--	330 U	--	--
Butyl benzyl phthalate	--	330 U	--	--	--	330 U	--	--
4-Chloroaniline	--	330 U	--	--	--	330 U	--	--
2-Chloronaphthalene	--	330 U	--	--	--	330 U	--	--
4-Chlorophenyl phenyl ether	--	330 U	--	--	--	330 U	--	--
Di-n-butyl phthalate	--	50 J	--	--	--	130 J	--	--
Di-n-octyl phthalate	--	330 U	--	--	--	330 U	--	--
1,2-Dichlorobenzene	--	330 U	--	--	--	330 U	--	--
1,3-Dichlorobenzene	--	330 U	--	--	--	330 U	--	--
1,4-Dichlorobenzene	--	330 U	--	--	--	330 U	--	--
3,3-Dichlorobenzidine	--	330 U	--	--	--	330 U	--	--
Diethyl phthalate	--	330 U	--	--	--	330 U	--	--
Dimethyl phthalate	--	330 U	--	--	--	330 U	--	--
2,4-Dinitrotoluene	--	330 U	--	--	--	330 U	--	--
2,6-Dinitrotoluene	--	330 U	--	--	--	330 U	--	--
Hexachlorobenzene	--	330 U	--	--	--	330 U	--	--
Hexachlorobutadiene	--	330 U	--	--	--	330 U	--	--
Hexachlorocyclopentadiene	--	330 U	--	--	--	330 U	--	--
Hexachloroethane	--	330 U	--	--	--	330 U	--	--
Isophorone	--	330 U	--	--	--	330 U	--	--
N-Nitrosodi-n-propylamine	--	330 U	--	--	--	330 U	--	--
N-Nitrosodiphenylamine	--	330 U	--	--	--	330 U	--	--
2-Nitroaniline	--	800 U	--	--	--	800 U	--	--
3-Nitroaniline	--	800 U	--	--	--	800 U	--	--
4-Nitroaniline	--	800 U	--	--	--	800 U	--	--
Nitrobenzene	--	330 U	--	--	--	330 U	--	--
1,2,4-Trichlorobenzene	--	330 U	--	--	--	330 U	--	--

-- Not analyzed.
J Associated value is qualified as an estimate. The value is considered to be acceptable and usable.
U Not detected. Note that the laboratory would have reported, with a J qualifier, any detected concentration below the stated quantitation limit but above the laboratory's method detection limit. The laboratory's method detection limit is typically about 10 percent of the stated quantitation limit in the table.

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TABLE 4.7-3 (cont.)

SOIL QUALITY DATA
BLANK SAMPLES
SEMIVOLATILE ORGANIC COMPOUNDS

(concentrations in ug/L)

	LAB BLANKS		
	03/20/92	03/24/92	03/25/92
CARCINOGENIC COMPOUNDS			
Benzo(a)anthracene	330 U	330 U	330 U
Benzo(b)fluoranthene	330 U	330 U	330 U
Benzo(k)fluoranthene	330 U	330 U	330 U
Benzo(a)pyrene	330 U	330 U	330 U
Carbazole	330 U	330 U	330 U
Chrysene	330 U	330 U	330 U
Dibenzo(ah)anthracene	330 U	330 U	330 U
Indeno(1,2,3,cd)pyrene	330 U	330 U	330 U
PROJECT SPECIFIC NON-CARCINOGENIC COMPOUNDS			
Acenaphthene	330 U	330 U	330 U
Acenaphthylene	330 U	330 U	330 U
Anthracene	330 U	330 U	330 U
Benzo(ghi)perylene	330 U	330 U	330 U
Dibenzofuran	330 U	330 U	330 U
Fluoranthene	330 U	330 U	330 U
Fluorene	330 U	330 U	330 U
2-Methylnaphthalene	330 U	330 U	330 U
Naphthalene	330 U	330 U	330 U
Phenanthrene	330 U	330 U	330 U
Pyrene	330 U	330 U	330 U
PHENOLIC COMPOUNDS			
4-Chloro-3-methylphenol	330 U	330 U	330 U
2-Chlorophenol	330 U	330 U	330 U
o-Cresol	330 U	330 U	330 U
p-Cresol	330 U	330 U	330 U
2,4-Dichlorophenol	330 U	330 U	330 U
2,4-Dimethylphenol	330 U	330 U	330 U
2,4-Dinitrophenol	800 U	800 U	800 U
2-Methyl-4,6-dinitrophenol	800 U	800 U	800 U
2-Nitrophenol	330 U	330 U	330 U
4-Nitrophenol	800 U	800 U	800 U
Pentachlorophenol	800 U	800 U	800 U
Phenol	330 U	330 U	330 U
2,4,5-Trichlorophenol	800 U	800 U	800 U
2,4,6-Trichlorophenol	330 U	330 U	330 U

U Not detected. Note that the laboratory would have reported, with a J qualifier, any detected concentration below the stated quantitation limit but above the laboratory's method detection limit. The laboratory's method detection limit is typically about 10 percent of the stated quantitation limit in the table.

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TABLE 4.7-3 (cont.)

SOIL QUALITY DATA
BLANK SAMPLES
SEMIVOLATILE ORGANIC COMPOUNDS

(concentrations in ug/kg)

	LAB BLANKS						
	08/24/93	08/25/93	08/25/93	09/01/93	09/01/93	09/08/93	09/09/93
CARCINOGENIC COMPOUNDS							
Benzo(a)anthracene	41 U	41 U	41 U	41 U	41 U	41 U	41 U
Benzo(b)fluoranthene	29 U	29 U	29 U	29 U	29 U	29 U	29 U
Benzo(k)fluoranthene	57 U	57 U	57 U	57 U	57 U	57 U	57 U
Benzo(a)pyrene	43 U	43 U	43 U	43 U	43 U	43 U	43 U
Carbazole	42 U	42 U	42 U	42 U	42 U	42 U	42 U
Chrysene	34 U	34 U	34 U	34 U	34 U	34 U	34 U
Dibenzo(ah)anthracene	45 U	45 U	45 U	45 U	45 U	45 U	45 U
Indeno(1,2,3,cd)pyrene	42 U	42 U	42 U	42 U	42 U	42 U	42 U
PROJECT SPECIFIC NON-CARCINOGENIC COMPOUNDS							
Acenaphthene	37 U	37 U	37 U	37 U	37 U	37 U	37 U
Acenaphthylene	41 U	41 U	41 U	41 U	41 U	41 U	41 U
Anthracene	34 U	34 U	34 U	34 U	34 U	34 U	34 U
Benzo(ghi)perylene	40 U	40 U	40 U	40 U	40 U	40 U	40 U
Dibenzofuran	40 U	40 U	40 U	40 U	40 U	40 U	40 U
Fluoranthene	46 U	46 U	46 U	46 U	46 U	46 U	46 U
Fluorene	42 U	42 U	42 U	42 U	42 U	42 U	42 U
2-Methylnaphthalene	48 U	48 U	48 U	48 U	48 U	48 U	48 U
Naphthalene	45 U	45 U	45 U	45 U	45 U	45 U	45 U
Phenanthrene	38 U	38 U	38 U	38 U	38 U	38 U	38 U
Pyrene	41 U	41 U	41 U	41 U	41 U	41 U	41 U
PHENOLIC COMPOUNDS							
4-Chloro-3-methylphenol	--	--	--	--	--	--	--
2-Chlorophenol	--	--	--	--	--	--	--
o-Cresol	33 U	33 U	33 U	33 U	33 U	33 U	33 U
p-Cresol	36 U	36 U	36 U	36 U	36 U	36 U	36 U
2,4-Dichlorophenol	--	--	--	--	--	--	--
2,4-Dimethylphenol	220 U	220 U	220 U	220 U	220 U	220 U	220 U
2,4-Dinitrophenol	--	--	--	--	--	--	--
2-Methyl-4,6-dinitrophenol	--	--	--	--	--	--	--
2-Nitrophenol	--	--	--	--	--	--	--
4-Nitrophenol	--	--	--	--	--	--	--
Pentachlorophenol	--	--	--	--	--	--	--
Phenol	43 U	43 U	43 U	43 U	43 U	43 U	43 U
2,4,5-Trichlorophenol	--	--	--	--	--	--	--
2,4,6-Trichlorophenol	--	--	--	--	--	--	--

-- Not analyzed.
U Not detected.
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TABLE 4.7-3 (cont.)

SOIL QUALITY DATA
BLANK SAMPLES
SEMIVOLATILE ORGANIC COMPOUNDS

(concentrations in ug/kg)

	LAB BLANKS						
	09/13/93	09/15/93	09/17/93	09/20/93	09/21/93	09/21/93	09/23/93
CARCINOGENIC COMPOUNDS							
Benzo(a)anthracene	41 U	41 U	41 U	41 U	41 U	41 U	41 U
Benzo(b)fluoranthene	29 U	29 U	29 U	29 U	29 U	29 U	29 U
Benzo(k)fluoranthene	57 U	57 U	57 U	57 U	57 U	57 U	57 U
Benzo(a)pyrene	43 U	43 U	43 U	43 U	43 U	43 U	43 U
Carbazole	42 U	42 U	42 U	42 U	42 U	42 U	42 U
Chrysene	34 U	34 U	34 U	34 U	34 U	34 U	34 U
Dibenzo(ah)anthracene	45 U	45 U	45 U	45 U	45 U	45 U	45 U
Indeno(1,2,3,cd)pyrene	42 U	42 U	42 U	42 U	42 U	42 U	42 U
PROJECT SPECIFIC NON-CARCINOGENIC COMPOUNDS							
Acenaphthene	37 U	37 U	37 U	37 U	37 U	37 U	37 U
Acenaphthylene	41 U	41 U	41 U	41 U	41 U	41 U	41 U
Anthracene	34 U	34 U	34 U	34 U	34 U	34 U	34 U
Benzo(ghi)perylene	40 U	40 U	40 U	40 U	40 U	40 U	40 U
Dibenzofuran	40 U	40 U	40 U	40 U	40 U	40 U	40 U
Fluoranthene	46 U	46 U	46 U	46 U	46 U	46 U	46 U
Fluorene	42 U	42 U	42 U	42 U	42 U	42 U	42 U
2-Methylnaphthalene	48 U	48 U	48 U	48 U	48 U	48 U	48 U
Naphthalene	45 U	45 U	45 U	45 U	45 U	45 U	45 U
Phenanthrene	38 U	38 U	38 U	38 U	38 U	38 U	38 U
Pyrene	41 U	41 U	41 U	41 U	41 U	41 U	41 U
PHENOLIC COMPOUNDS							
4-Chloro-3-methylphenol	--	--	--	--	--	--	--
2-Chlorophenol	--	--	--	--	--	--	--
o-Cresol	33 U	33 U	33 U	33 U	33 U	33 U	33 U
p-Cresol	36 U	36 U	36 U	36 U	36 U	36 U	36 U
2,4-Dichlorophenol	--	--	--	--	--	--	--
2,4-Dimethylphenol	220 U	220 U	220 U	220 U	220 U	220 U	220 U
2,4-Dinitrophenol	--	--	--	--	--	--	--
2-Methyl-4,6-dinitrophenol	--	--	--	--	--	--	--
2-Nitrophenol	--	--	--	--	--	--	--
4-Nitrophenol	--	--	--	--	--	--	--
Pentachlorophenol	--	--	--	--	--	--	--
Phenol	43 U	43 U	43 U	43 U	43 U	43 U	43 U
2,4,5-Trichlorophenol	--	--	--	--	--	--	--
2,4,6-Trichlorophenol	--	--	--	--	--	--	--

-- Not analyzed.
U Not detected.
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TABLE 4.7-3 (cont.)

SOIL QUALITY DATA
BLANK SAMPLES
SEMIVOLATILE ORGANIC COMPOUNDS

(concentrations in ug/kg)

	LAB BLANKS						
	09/27/93	09/28/93	09/28/93	09/29/93	10/04/93	10/04/93	10/05/93
CARCINOGENIC COMPOUNDS							
Benzo(a)anthracene	41 U	41 U	41 U	41 U	41 U	41 U	41 U
Benzo(b)fluoranthene	29 U	29 U	29 U	29 U	29 U	29 U	29 U
Benzo(k)fluoranthene	57 U	57 U	57 U	57 U	57 U	57 U	57 U
Benzo(a)pyrene	43 U	43 U	43 U	43 U	43 U	43 U	43 U
Carbazole	42 U	42 U	42 U	42 U	42 U	42 U	42 U
Chrysene	34 U	34 U	34 U	34 U	34 U	34 U	34 U
Dibenzo(ah)anthracene	45 U	45 U	45 U	45 U	45 U	45 U	45 U
Indeno(1,2,3,cd)pyrene	42 U	42 U	42 U	42 U	42 U	42 U	42 U
PROJECT SPECIFIC NON-CARCINOGENIC COMPOUNDS							
Acenaphthene	37 U	37 U	37 U	37 U	37 U	37 U	37 U
Acenaphthylene	41 U	41 U	41 U	41 U	41 U	41 U	41 U
Anthracene	34 U	34 U	34 U	34 U	34 U	34 U	34 U
Benzo(ghi)perylene	40 U	40 U	40 U	40 U	40 U	40 U	40 U
Dibenzofuran	40 U	40 U	40 U	40 U	40 U	40 U	40 U
Fluoranthene	46 U	46 U	46 U	46 U	46 U	46 U	46 U
Fluorene	42 U	42 U	42 U	42 U	42 U	42 U	42 U
2-Methylnaphthalene	48 U	48 U	48 U	48 U	48 U	48 U	48 U
Naphthalene	45 U	45 U	45 U	45 U	45 U	45 U	45 U
Phenanthrene	38 U	38 U	38 U	38 U	38 U	38 U	38 U
Pyrene	41 U	41 U	41 U	41 U	41 U	41 U	41 U
PHENOLIC COMPOUNDS							
4-Chloro-3-methylphenol	--	--	--	--	--	42 U	42 U
2-Chlorophenol	--	--	--	--	--	47 U	47 U
o-Cresol	33 U	33 U	33 U	33 U	33 U	33 U	33 U
p-Cresol	36 U	36 U	36 U	36 U	36 U	36 U	36 U
2,4-Dichlorophenol	--	--	--	--	--	32 U	32 U
2,4-Dimethylphenol	220 U	220 U	220 U	220 U	220 U	220 U	220 U
2,4-Dinitrophenol	--	--	--	--	--	83 U	83 U
2-Methyl-4,6-dinitrophenol	--	--	--	--	--	140 U	140 U
2-Nitrophenol	--	--	--	--	--	51 U	51 U
4-Nitrophenol	--	--	--	--	--	240 U	240 U
Pentachlorophenol	--	--	--	--	--	53 U	53 U
Phenol	43 U	43 U	43 U	43 U	43 U	43 U	43 U
2,4,5-Trichlorophenol	--	--	--	--	--	54 U	54 U
2,4,6-Trichlorophenol	--	--	--	--	--	38 U	38 U

-- Not analyzed.
U Not detected.
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TABLE 4.7-3 (cont.)

SOIL QUALITY DATA
BLANK SAMPLES
SEMIVOLATILE ORGANIC COMPOUNDS

(concentrations in ug/kg)

	LAB BLANKS						
	09/27/93	09/28/93	09/28/93	09/29/93	10/04/93	10/04/93	10/05/93
OTHER SEMIVOLATILE ORGANIC COMPOUNDS							
Bis(2-chloroethoxy)methane	--	--	--	--	--	46 U	46 U
Bis(2-chloroethyl)ether	--	--	--	--	--	53 U	53 U
Bis(2-chloroisopropyl)ether	--	--	--	--	--	46 U	46 U
Bis(2-ethylhexyl)phthalate	--	--	--	--	--	110 U	110 U
4-Bromophenyl phenyl ether	--	--	--	--	--	30 U	30 U
Butyl benzyl phthalate	--	--	--	--	--	42 U	42 U
4-Chloroaniline	--	--	--	--	--	58 U	58 U
2-Chloronaphthalene	--	--	--	--	--	41 U	41 U
4-Chlorophenyl phenyl ether	--	--	--	--	--	38 U	38 U
Di-n-butyl phthalate	--	--	--	--	--	110 J	390
Di-n-octyl phthalate	--	--	--	--	--	56 U	56 U
1,2-Dichlorobenzene	--	--	--	--	--	50 U	50 U
1,3-Dichlorobenzene	--	--	--	--	--	51 U	51 U
1,4-Dichlorobenzene	--	--	--	--	--	51 U	51 U
3,3-Dichlorobenzidine	--	--	--	--	--	160 U	160 U
Diethyl phthalate	--	--	--	--	--	46 U	46 U
Dimethyl phthalate	--	--	--	--	--	43 U	43 U
2,4-Dinitrotoluene	--	--	--	--	--	51 U	51 U
2,6-Dinitrotoluene	--	--	--	--	--	46 U	46 U
Hexachlorobenzene	--	--	--	--	--	32 U	32 U
Hexachlorobutadiene	--	--	--	--	--	47 U	47 U
Hexachlorocyclopentadiene	--	--	--	--	--	41 U	41 U
Hexachloroethane	--	--	--	--	--	47 U	47 U
Isophorone	--	--	--	--	--	48 U	48 U
N-Nitrosodi-n-propylamine	--	--	--	--	--	41 U	41 U
N-Nitrosodiphenylamine	--	--	--	--	--	37 U	37 U
2-Nitroaniline	--	--	--	--	--	37 U	37 U
3-Nitroaniline	--	--	--	--	--	97 U	97 U
4-Nitroaniline	--	--	--	--	--	130 U	130 U
Nitrobenzene	--	--	--	--	--	47 U	47 U
1,2,4-Trichlorobenzene	--	--	--	--	--	50 U	50 U

-- Not analyzed.
J Associated value is qualified as an estimate. The value is considered to be acceptable and usable.
U Not detected.
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TABLE 4.7-3 (cont.)

SOIL QUALITY DATA
BLANK SAMPLES
SEMIVOLATILE ORGANIC COMPOUNDS

(concentrations in ug/kg)

	LAB BLANKS					
	10/06/93	10/07/93	10/07/93	10/08/93	10/08/93	11/05/93
CARCINOGENIC COMPOUNDS						
Benzo(a)anthracene	41 U	41 U	41 U	41 U	41 U	41 U
Benzo(b)fluoranthene	29 U	29 U	29 U	29 U	29 U	29 U
Benzo(k)fluoranthene	57 U	57 U	57 U	57 U	57 U	57 U
Benzo(a)pyrene	43 U	43 U	43 U	43 U	43 U	43 U
Carbazole	42 U	42 U	42 U	42 U	42 U	42 U
Chrysene	34 U	34 U	34 U	34 U	34 U	34 U
Dibenzo(ah)anthracene	45 U	45 U	45 U	45 U	45 U	45 U
Indeno(1,2,3,cd)pyrene	42 U	42 U	42 U	42 U	42 U	42 U
PROJECT SPECIFIC NON-CARCINOGENIC COMPOUNDS						
Acenaphthene	37 U	37 U	37 U	37 U	37 U	37 U
Acenaphthylene	41 U	41 U	41 U	41 U	41 U	41 U
Anthracene	34 U	34 U	34 U	34 U	34 U	34 U
Benzo(ghi)perylene	40 U	40 U	40 U	40 U	40 U	40 U
Dibenzofuran	40 U	40 U	40 U	40 U	40 U	40 U
Fluoranthene	46 U	46 U	46 U	46 U	46 U	46 U
Fluorene	42 U	42 U	42 U	42 U	42 U	42 U
2-Methylnaphthalene	48 U	48 U	48 U	48 U	48 U	48 U
Naphthalene	45 U	45 U	45 U	45 U	45 U	45 U
Phenanthrene	38 U	38 U	38 U	38 U	38 U	38 U
Pyrene	41 U	41 U	41 U	41 U	41 U	41 U
PHENOLIC COMPOUNDS						
4-Chloro-3-methylphenol	--	--	--	42 U	--	--
2-Chlorophenol	--	--	--	47 U	--	--
o-Cresol	33 U	33 U	33 U	33 U	33 U	33 U
p-Cresol	36 U	36 U	36 U	36 U	36 U	36 U
2,4-Dichlorophenol	--	--	--	32 U	--	--
2,4-Dimethylphenol	220 U	220 U	220 U	220 U	220 U	220 U
2,4-Dinitrophenol	--	--	--	83 U	--	--
2-Methyl-4,6-dinitrophenol	--	--	--	140 U	--	--
2-Nitrophenol	--	--	--	51 U	--	--
4-Nitrophenol	--	--	--	240 U	--	--
Pentachlorophenol	--	--	--	53 U	--	--
Phenol	43 U	43 U	43 U	43 U	43 U	43 U
2,4,5-Trichlorophenol	--	--	--	54 U	--	--
2,4,6-Trichlorophenol	--	--	--	38 U	--	--

-- Not analyzed.
U Not detected.
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TABLE 4.7-3 (cont.)

SOIL QUALITY DATA
BLANK SAMPLES
SEMIVOLATILE ORGANIC COMPOUNDS

(concentrations in ug/kg)

	LAB BLANKS					
	10/06/93	10/07/93	10/07/93	10/08/93	10/08/93	11/05/93
OTHER SEMIVOLATILE ORGANIC COMPOUNDS						
Bis(2-chloroethoxy)methane	--	--	--	46 U	--	--
Bis(2-chloroethyl)ether	--	--	--	53 U	--	--
Bis(2-chloroisopropyl)ether	--	--	--	46 U	--	--
Bis(2-ethylhexyl)phthalate	--	--	--	110 U	--	--
4-Bromophenyl phenyl ether	--	--	--	30 U	--	--
Butyl benzyl phthalate	--	--	--	42 U	--	--
4-Chloroaniline	--	--	--	58 U	--	--
2-Chloronaphthalene	--	--	--	41 U	--	--
4-Chlorophenyl phenyl ether	--	--	--	38 U	--	--
Di-n-butyl phthalate	--	--	--	190 J	--	--
Di-n-octyl phthalate	--	--	--	56 U	--	--
1,2-Dichlorobenzene	--	--	--	50 U	--	--
1,3-Dichlorobenzene	--	--	--	51 U	--	--
1,4-Dichlorobenzene	--	--	--	51 U	--	--
3,3-Dichlorobenzidine	--	--	--	160 U	--	--
Diethyl phthalate	--	--	--	46 U	--	--
Dimethyl phthalate	--	--	--	43 U	--	--
2,4-Dinitrotoluene	--	--	--	51 U	--	--
2,6-Dinitrotoluene	--	--	--	46 U	--	--
Hexachlorobenzene	--	--	--	32 U	--	--
Hexachlorobutadiene	--	--	--	47 U	--	--
Hexachlorocyclopentadiene	--	--	--	41 U	--	--
Hexachloroethane	--	--	--	47 U	--	--
Isophorone	--	--	--	48 U	--	--
N-Nitrosodi-n-propylamine	--	--	--	41 U	--	--
N-Nitrosodiphenylamine	--	--	--	37 U	--	--
2-Nitroaniline	--	--	--	37 U	--	--
3-Nitroaniline	--	--	--	97 U	--	--
4-Nitroaniline	--	--	--	130 U	--	--
Nitrobenzene	--	--	--	47 U	--	--
1,2,4-Trichlorobenzene	--	--	--	50 U	--	--

-- Not analyzed.
J Associated value is qualified as an estimate. The value is considered to be acceptable and usable.
U Not detected.
svlbs.prn
01/25/94

TABLE 4.7-4

SOIL QUALITY DATA
BLANK SAMPLES
PESTICIDES AND PCBs

(concentrations in ug/kg)

	LAB BLANKS						
	03/07/92	03/09/92	03/10/92	03/11/92	03/13/92	03/18/92	03/25/92
PESTICIDES							
Aldrin	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 UJ
a-BHC	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 UJ
b-BHC	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 UJ
d-BHC	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 UJ
g-BHC (Lindane)	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 UJ
Alpha Chlordane	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 UJ
Gamma Chlordane	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 UJ
4,4'-DDD	3.3 U	3.3 U	3.3 U	3.3 U	3.3 U	3.3 U	3.3 UJ
4,4'-DDE	3.3 U	3.3 U	3.3 U	3.3 U	3.3 U	3.3 U	3.3 UJ
4,4'-DDT	3.3 U	3.3 U	3.3 U	3.3 U	3.3 U	3.3 U	3.3 UJ
Dieldrin	3.3 U	3.3 U	3.3 U	3.3 U	3.3 U	3.3 U	3.3 UJ
Endosulfan I	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 UJ
Endosulfan II	3.3 U	3.3 U	3.3 U	3.3 U	3.3 U	3.3 U	3.3 UJ
Endosulfan Sulfate	3.3 U	3.3 U	3.3 U	3.3 U	3.3 U	3.3 U	3.3 UJ
Endrin	3.3 U	3.3 U	3.3 U	3.3 U	3.3 U	3.3 U	3.3 UJ
Endrin Aldehyde	3.3 U	3.3 U	3.3 U	3.3 U	3.3 U	3.3 U	3.3 UJ
Endrin Ketone	3.3 U	3.3 U	3.3 U	3.3 U	3.3 U	3.3 U	3.3 UJ
Heptachlor	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 UJ
Heptachlor Epoxide	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 UJ
Methyloxyclor	17 U	17 U	17 U	17 U	17 U	17 U	17 UJ
Toxaphene	170 U	170 U	170 U	170 U	170 U	170 U	170 UJ
PCBs							
PCB-1016	33 U	33 U	33 U	33 U	33 U	33 U	33 UJ
PCB-1221	67 U	67 U	67 U	67 U	67 U	67 U	67 UJ
PCB-1232	33 U	33 U	33 U	33 U	33 U	33 U	33 UJ
PCB-1242	33 U	33 U	33 U	33 U	33 U	33 U	33 UJ
PCB-1248	33 U	33 U	33 U	33 U	33 U	33 U	33 UJ
PCB-1254	33 U	33 U	33 U	33 U	33 U	33 U	33 UJ
PCB-1260	33 U	33 U	33 U	33 U	33 U	33 U	33 UJ

J Associated value is qualified as an estimate. The value is considered to be acceptable and usable.
U Not detected.
3,.017
01/25/94

TABLE 4.7-4 (cont.)

SOIL QUALITY DATA
BLANK SAMPLES
PESTICIDES AND PCBs

(concentrations in ug/kg)

	LAB BLANKS				
	08/31/93	09/20/93	09/23/93	10/04/93	10/08/93
PESTICIDES					
Aldrin	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
a-BHC	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
b-BHC	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
d-BHC	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
g-BHC (Lindane)	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
Alpha Chlordane	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
Gamma Chlordane	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
4,4'-DDD	3.3 U	3.3 U	3.3 U	3.3 U	3.3 U
4,4'-DDE	3.3 U	3.3 U	3.3 U	3.3 U	3.3 U
4,4'-DDT	3.3 U	3.3 U	3.3 U	3.3 U	3.3 U
Dieldrin	3.3 U	3.3 U	3.3 U	3.3 U	3.3 U
Endosulfan I	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
Endosulfan II	3.3 U	3.3 U	3.3 U	3.3 U	3.3 U
Endosulfan Sulfate	3.3 U	3.3 U	3.3 U	3.3 U	3.3 U
Endrin	3.3 U	3.3 U	3.3 U	3.3 U	3.3 U
Endrin Aldehyde	3.3 U	3.3 U	3.3 U	3.3 U	3.3 U
Endrin Ketone	3.3 U	3.3 U	3.3 U	3.3 U	3.3 U
Heptachlor	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
Heptachlor Epoxide	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
Methyloxyclor	17 U	17 U	17 U	17 U	17 U
Toxaphene	170 U	170 U	170 U	170 U	170 U
PCBs					
PCB-1016	33 U	33 U	33 U	33 U	33 U
PCB-1221	67 U	67 U	67 U	67 U	67 U
PCB-1232	33 U	33 U	33 U	33 U	33 U
PCB-1242	33 U	33 U	33 U	33 U	33 U
PCB-1248	33 U	33 U	33 U	33 U	33 U
PCB-1254	33 U	33 U	33 U	33 U	33 U
PCB-1260	33 U	33 U	33 U	33 U	33 U

U Not detected.
3,.017
01/25/94

TABLE 4.7-5

SOIL QUALITY DATA
BLANK SAMPLES
GENERAL REMEDIATION EVALUATION PARAMETERS

(concentrations in mg/kg, unless noted otherwise)

	LAB BLANKS				
	09/20/93	09/21/93	10/06/93	10/07/93	10/08/93
Corrosivity					
pH, standard units	--	--	--	--	--
Reactivity					
Sulfide, total	<4	<4.0	<4.0	--	--
Cyanide, total	--	--	--	--	--
Total Organic Carbon	<5.0	<5.0	--	--	--
Cation Exchange Capacity, meq/hg	--	--	--	--	--
Gross Heating Value, cal/g	--	--	--	--	--
Oil and Grease	--	--	<1.6	<1.6	<1.6
Flash Point, degrees F	--	--	--	--	--
Sulfate	<1.0	<1.0	<1.0	--	--
Sulfide, total	<4	<4.0	<4.0	--	--
Iron	<100	<20.0	<20.0	--	--

-- Not analyzed.
.003
01/25/94

TABLE 4.7-6

SOIL QUALITY DATA
BLANK SAMPLES
TCLP ANALYSIS

(concentrations in ug/L)

	LAB BLANKS	
	03/09/92	03/09/92
VOLATILE ORGANIC COMPOUNDS		
Benzene	5 U	--
2-Butanone	10 U	--
Carbon Tetrachloride	5 U	--
Chlorobenzene	5 U	--
Chloroform	5 U	--
1,2-Dichloroethane	5 U	--
1,1-Dichloroethene	5 U	--
Tetrachloroethene	5 U	--
Trichloroethene	5 U	--
Vinyl Chloride	10 U	--
SEMIVOLATILE ORGANIC COMPOUNDS		
m-Cresol	10 U	--
o-Cresol	10 U	--
p-Cresol	10 U	--
1,4-Dichlorobenzene	10 U	--
2,4-Dinitrotoluene	10 U	--
Hexachlorobenzene	10 U	--
Hexachlorobutadiene	10 U	--
Hexachloroethane	10 U	--
Nitrobenzene	10 U	--
Pentachlorophenol	50 U	--
Pyridine	50 U	--
2,4,5-Trichlorophenol	50 U	--
2,4,6-Trichlorophenol	10 U	--
PESTICIDES		
g-BHC (Lindane)	2 U	2 U
Chlordane	10 U	10 U
2,4-D	100 U	--
Endrin	2 U	2 U
Heptachlor	2 U	2 U
Heptachlor Epoxide	2 U	2 U
Methyloxychlor	10 U	10 U
Toxaphene	50 U	50 U
2,4,5-TP (Silvex)	10 U	--
METALS		
Arsenic	30.0 U	--
Barium	200 U	--
Cadmium	5.0 U	--
Chromium	10.0 U	--
Lead	30.0 U	--
Mercury	0.2 U	--
Selenium	60.0 U	--
Silver	10.0 U	--

-- Not analyzed.
U Not detected.
3,.020
01/06/94

TABLE 4.7-7

WATER QUALITY DATA
BLANK SAMPLES
INORGANIC COMPOUNDS

(concentrations in ug/L)

	LAB BLANKS							
	08/31/93	10/17/93	10/19/93	10/20/93	11/05/93	11/30/93	12/01/93	12/02/93
Arsenic, total	<10.0	<10.0	<10.0	<30.0	--	--	--	--
Arsenic III	<3.4	<10	<10	<10	--	10 U	10 U	--
Arsenic V	<3.4	<10	<10	<10	--	10 U	10 U	--
Cyanide, total	<10.0	<5.0	<5.0	<5.0	--	--	--	--
Amenable Cyanide	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Thiocyanate	--	<100	<100	<100	<100	<100	<100	<100
Cyanide, WAD	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Aluminum	--	--	--	--	--	--	--	--
Antimony	--	--	--	--	--	--	--	--
Barium	--	--	--	--	--	--	--	--
Beryllium	--	--	--	--	--	--	--	--
Cadmium	<5.0	<5.0	<5.0	<5.0	--	--	--	--
Calcium	--	--	--	--	--	--	--	--
Chromium, total	--	--	--	--	--	--	--	--
Cobalt	--	--	--	--	--	--	--	--
Copper	--	--	--	--	--	--	--	--
Iron	--	--	--	--	--	--	--	--
Lead	<3.0	<3.0	<3.0	<3.0	--	--	--	--
Magnesium	--	--	--	--	--	--	--	--
Manganese	--	--	--	--	--	--	--	--
Mercury	<0.2	<0.2	<0.2	<0.2	--	--	--	--
Nickel	--	--	--	--	--	--	--	--
Potassium	--	--	--	--	--	--	--	--
Selenium	<5.0	<5.0	<5.0	<5.0	--	--	--	--
Silver	--	--	--	--	--	--	--	--
Sodium	--	--	--	--	--	--	--	--
Thallium	--	--	--	--	--	--	--	--
Vanadium	--	--	--	--	--	--	--	--
Zinc	--	--	--	--	--	--	--	--

-- Not analyzed.
U Not detected.
.033
01/25/94

TABLE 4.7-7 (cont.)

WATER QUALITY DATA
BLANK SAMPLES
INORGANIC COMPOUNDS

(concentrations in ug/L)

	FIELD BLANKS				
	04/07/92	04/09/92	08/30/93	08/31/93	09/30/93
Arsenic, total	0.94 U	0.95 U	1.4 U	1.4 U	1.2 BJ
Arsenic III	--	--	3.4 U	3.4 U	--
Arsenic V	--	--	3.4 U	3.4 U	--
Cyanide, total	1.8 U	1.8 U	5.6 U	2.0 U	0.96 B
Amenable Cyanide	--	--	<25.0	<5.0	--
Thiocyanate	--	--	<100	<100	--
Cyanide, WAD	--	--	<25.0	<5.0	--
Aluminum	27.8 U	21.1 U	--	--	13.6 U
Antimony	10.9 U	10.9 U	--	--	11.7 U
Barium	0.63 B	1.6 U	--	--	1.1 B
Beryllium	0.19 U	0.19 U	--	--	0.15 U
Cadmium	2.9 U	2.9 U	2.9 U	2.9 U	2.9 U
Calcium	225 U	172 U	--	--	47.8 B
Chromium, total	2.1 U	2.1 U	--	--	2.3 U
Cobalt	3.6 U	3.6 U	--	--	3.1 B
Copper	11.8 U	6.1 U	--	--	1.4 U
Iron	35.0 U	17.4 U	--	--	15.0 B
Lead	2.7 B	0.92 U	1.2 U	1.2 U	1.6 U
Magnesium	21.3 U	21.3 U	--	--	16.8 U
Manganese	0.92 U	0.62 U	--	--	0.69 UJ
Mercury	0.0010 U	0.16 U	0.10 U	0.04 U	0.06 UJ
Nickel	3.8 U	6.0 U	--	--	8.7 U
Potassium	710 U	710 U	--	--	788 U
Selenium	1.2 UJ	1.2 U	2.1 U	2.1 U	1.8 B
Silver	1.7 U	1.7 U	--	--	1.6 U
Sodium	757 U	1220 U	--	--	85.8 BJ
Thallium	1.7 U	1.7 U	--	--	1.4 U
Vanadium	1.7 U	1.7 U	--	--	1.9 U
Zinc	23.7 UJ	6.2 U	--	--	5.7 B

-- Not analyzed.
B The reported value is less than the Contract Required Detection Limit (CRDL) but greater than or equal to the Instrument Detection Limit (IDL).
J Associated value is qualified as an estimate. The value is considered to be acceptable and usable.
U Not detected.

.033
03/27/94

TABLE 4.7-7 (cont.)

WATER QUALITY DATA
BLANK SAMPLES
INORGANIC COMPOUNDS

(concentrations in ug/L)

	FIELD BLANKS			
	10/01/93	11/30/93	12/01/93	12/02/93
Arsenic, total	1.0 UJ	1.7 B	1.0 U	2.0 B
Arsenic III	--	10 UJ	10 UJ	32.2
Arsenic V	--	10 U	10 U	10 U
Cyanide, total	0.96 B	1.2 UJ	1.2 UJ	1.2 UJ
Amenable Cyanide	--	<5.0	<5.0	<5.0
Thiocyanate	--	<100	<100	<100
Cyanide, WAD	--	<5.0	<5.0	<5.0
Aluminum	13.6 U	--	--	--
Antimony	11.7 U	--	--	--
Barium	0.33 U	--	--	--
Beryllium	0.15 U	--	--	--
Cadmium	2.9 U	3.2 U	3.2 U	3.2 U
Calcium	29.6 B	--	--	--
Chromium, total	2.3 U	--	--	--
Cobalt	1.9 U	--	--	--
Copper	4.4 B	--	--	--
Iron	157	--	--	--
Lead	1.6 U	1.8 BJ	1.6 U	2.8 B
Magnesium	16.8 U	--	--	--
Manganese	0.71 BJ	--	--	--
Mercury	0.08 UJ	0.13 U	0.13 U	0.13 U
Nickel	8.7 U	--	--	--
Potassium	788 U	--	--	--
Selenium	1.5 U	1.5 UJ	1.5 U	1.5 U
Silver	1.6 U	--	--	--
Sodium	110 BJ	--	--	--
Thallium	1.4 U	--	--	--
Vanadium	1.9 U	--	--	--
Zinc	6.1 B	--	--	--

-- Not analyzed.
B The reported value is less than the Contract Required Detection Limit (CRDL) but greater than or equal to the Instrument Detection Limit (IDL).
J Associated value is qualified as an estimate. The value is considered to be acceptable and usable.
U Not detected.

.033
03/27/94

TABLE 4.7-7 (cont.)

WATER QUALITY DATA
BLANK SAMPLES
INORGANIC COMPOUNDS

(concentrations in ug/L)

	PREPARATION BLANKS					
	10/06/93	10/07/93	11/05/93	11/30/93	12/01/93	12/02/93
Arsenic, total	17.000 U	17.000 U	15.300 U	15.300 U	15.300 U	15.300 U
Depth	--	--	--	--	--	--
Arsenic III	--	--	--	--	--	--
Arsenic V	--	--	--	--	--	--
Cyanide, total	--	--	1.238 U	1.238 U	1.238 U	1.238 U
Amenable Cyanide	--	--	--	--	--	--
Thiocyanate	--	--	--	--	--	--
Cyanide, WAD	--	--	--	--	--	--
Aluminum	--	--	--	--	--	11.300 U
Antimony	--	--	--	--	--	10.400 U
Barium	0.400 B	1.840 B	--	--	--	0.550 U
Beryllium	--	--	--	--	--	0.120 U
Cadmium	3.100 B	2.920 U	3.190 U	3.190 U	3.190 U	3.190 U
Calcium	--	--	--	--	--	22.090 B
Chromium, total	2.340 U	2.340 U	--	--	--	2.360 U
Cobalt	--	--	--	--	--	2.140 U
Copper	--	--	--	--	--	0.990 U
Iron	--	--	3.760 B	--	--	3.630 U
Lead	16.000 U	16.000 U	1.630 U	1.630 U	1.630 U	1.630 U
Magnesium	--	--	--	--	--	20.000 U
Manganese	--	--	--	--	--	0.590 B
Mercury	0.093 B	0.055 B	0.042 U	0.127 U	0.127 U	0.127 U
Nickel	--	--	--	--	--	4.930 B
Potassium	--	--	--	--	--	572.000 U
Selenium	23.700 U	28.400 B	1.516 U	1.516 U	1.516 U	1.516 U
Silver	1.610 U	1.610 U	--	--	--	2.210 U
Sodium	--	--	--	--	--	25.900 U
Thallium	--	--	--	--	--	1.391 U
Vanadium	--	--	--	--	--	1.480 U
Zinc	--	--	--	--	--	1.020 U

-- Not analyzed.
B The reported value is less than the Contract Required Detection Limit (CRDL) but greater than or equal to the Instrument Detection Limit (IDL).
U Not detected.
.033
01/25/94

TABLE 4.7-7 (cont.)

WATER QUALITY DATA
BLANK SAMPLES
INORGANIC COMPOUNDS

(concentrations in ug/L)

	BB3174	BBF311	BBJUG0
	08/31/93	08/31/93	08/31/93
Arsenic, total	<10.0	<2.0	--
Arsenic III	<3.4	--	--
Arsenic V	<3.4	--	--
Cyanide, total	--	<1.0	<5.0
Amenable Cyanide	--	--	<5.0
Thiocyanate	--	--	--
Cyanide, WAD	--	--	<5.0
Aluminum	--	--	--
Antimony	--	--	--
Barium	--	--	--
Beryllium	--	--	--
Cadmium	<5.0	<1.0	--
Calcium	--	--	--
Chromium, total	--	--	--
Cobalt	--	--	--
Copper	--	--	--
Iron	--	--	--
Lead	<3.0	<0.6	--
Magnesium	--	--	--
Manganese	--	--	--
Mercury	<0.2	<0.10	--
Nickel	--	--	--
Potassium	--	--	--
Selenium	<5.0	<1.0	--
Silver	--	--	--
Sodium	--	--	--
Thallium	--	--	--
Vanadium	--	--	--
Zinc	--	--	--

-- Not analyzed.
3,.016
01/25/94

TABLE 4.7-8

WATER QUALITY DATA
BLANK SAMPLES
VOLATILE ORGANIC COMPOUNDS

(concentrations in ug/L)

	LAB BLANKS				
	04/07/92	04/07/92	04/07/92	04/08/92	04/09/92
BETX COMPOUNDS					
Benzene	10 U	10 U	10 U	10 U	10 U
Ethyl Benzene	10 U	10 U	10 U	10 U	10 U
Toluene	10 U	10 U	10 U	10 U	10 U
Xylenes	10 U	10 U	10 U	10 U	10 U
CHLORINATED COMPOUNDS					
Bromodichloromethane	10 U	10 U	10 U	10 U	10 U
Carbon Tetrachloride	10 U	10 U	10 U	10 U	10 U
Chloroethane	10 U	10 U	10 U	10 U	10 U
Chloroform	10 U	10 U	10 U	10 U	10 U
Chloromethane	10 U	10 U	10 U	10 U	10 U
Chlorobenzene	10 U	10 U	10 U	10 U	10 U
Chlorodibromomethane	10 U	10 U	10 U	10 U	10 U
1,1-Dichloroethane	10 U	10 U	10 U	10 U	10 U
1,2-Dichloroethane	10 U	10 U	10 U	10 U	10 U
1,1-Dichloroethylene	10 U	10 U	10 U	10 U	10 U
1,2-Dichloroethylene	10 U	10 U	10 U	10 U	10 U
1,2-Dichloropropane	10 U	10 U	10 U	10 U	10 U
Cis-1,3-Dichloro-1-propene	10 U	10 U	10 U	10 U	10 U
Trans-1,3-Dichloro-1-propene	10 U	10 U	10 U	10 U	10 U
Methylene Chloride	5 J	4 J	5 J	4 J	5 J
Styrene	10 U	10 U	10 U	10 U	10 U
1,1,2,2-Tetrachloroethane	10 U	10 U	10 U	10 U	10 U
Tetrachloroethylene	10 U	10 U	10 U	10 U	10 U
1,1,1-Trichloroethane	10 U	10 U	10 U	10 U	10 U
1,1,2-Trichloroethane	10 U	10 U	10 U	10 U	10 U
Trichloroethylene	10 U	10 U	10 U	10 U	10 U
Vinyl Chloride	10 U	10 U	10 U	10 U	10 U
OTHER COMPOUNDS					
Acetone	3 J	10 U	4 J	10 U	4 J
Bromoform	10 U	10 U	10 U	10 U	10 U
Bromomethane	10 U	10 U	10 U	10 U	10 U
Carbondisulfide	10 U	10 U	10 U	10 U	10 U
2-Hexanone	10 U	10 U	10 U	10 U	10 U
Methyl Ethyl Ketone	10 U	10 U	5 J	10 U	5 J
Methyl Isobutyl Ketone	10 U	10 U	10 U	10 U	10 U

J Associated value is qualified as an estimate. The value is considered to be acceptable and usable.

U Not detected. Note that the laboratory would have reported, with a J qualifier, any detected concentration below the stated quantitation limit but above the laboratory's method detection limit. The laboratory's method detection limit is typically about 10 percent of the stated quantitation limit in the table.

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TABLE 4.7-8 (cont.)

WATER QUALITY DATA
BLANK SAMPLES
VOLATILE ORGANIC COMPOUNDS

(concentrations in ug/L)

	LAB BLANKS							
	08/30/93	08/30/93	08/30/93	08/30/93	08/31/93	08/31/93	08/31/93	08/31/93
BETX COMPOUNDS								
Benzene	10 U	10 U	10 U	1.0 U	10 U	10 U	10 U	10 U
Ethyl Benzene	10 U	10 U	10 U	1.0 U	10 U	10 U	10 U	10 U
Toluene	10 U	10 U	10 U	1.0 U	10 U	10 U	10 U	10 U
Xylenes	10 U	10 U	10 U	--	10 U	10 U	10 U	10 U
m & p Xylene	--	--	--	2.0 U	--	--	--	--
o-Xylene	--	--	--	1.0 U	--	--	--	--
CHLORINATED COMPOUNDS								
Bromodichloromethane	10 U	10 U	10 U	--	10 U	10 U	10 U	10 U
Carbon Tetrachloride	10 U	10 U	10 U	--	10 U	10 U	10 U	10 U
Chloroethane	10 U	10 U	10 U	--	10 U	10 U	10 U	10 U
Chloroform	10 U	10 U	10 U	--	10 U	10 U	10 U	10 U
Chloromethane	10 U	10 U	10 U	--	10 U	10 U	10 U	10 U
Chlorobenzene	10 U	10 U	10 U	--	10 U	10 U	10 U	10 U
Chlorodibromomethane	10 U	10 U	10 U	--	10 U	10 U	10 U	10 U
1,1-Dichloroethane	10 U	10 U	10 U	--	10 U	10 U	10 U	10 U
1,2-Dichloroethane	10 U	10 U	10 U	--	10 U	10 U	10 U	10 U
1,1-Dichloroethylene	10 U	10 U	10 U	--	10 U	10 U	10 U	10 U
1,2-Dichloroethylene	10 U	10 U	10 U	--	10 U	10 U	10 U	10 U
1,2-Dichloropropane	10 U	10 U	10 U	--	10 U	10 U	10 U	10 U
Cis-1,3-Dichloro-1-propene	10 U	10 U	10 U	--	10 U	10 U	10 U	10 U
Trans-1,3-Dichloro-1-propene	10 U	10 U	10 U	--	10 U	10 U	10 U	10 U
Methylene Chloride	1 J	2 J	1 J	--	2 J	10 U	10 U	2 J
Styrene	10 U	10 U	10 U	--	10 U	10 U	10 U	10 U
1,1,2,2-Tetrachloroethane	10 U	10 U	10 U	--	10 U	10 U	10 U	10 U
Tetrachloroethylene	10 U	10 U	10 U	--	10 U	10 U	10 U	10 U
1,1,1-Trichloroethane	10 U	10 U	10 U	--	10 U	10 U	10 U	10 U
1,1,2-Trichloroethane	10 U	10 U	10 U	--	10 U	10 U	10 U	10 U
Trichloroethylene	10 U	10 U	10 U	--	10 U	10 U	10 U	10 U
Vinyl Chloride	10 U	10 U	10 U	--	10 U	10 U	10 U	10 U
OTHER COMPOUNDS								
Acetone	10 U	10 U	5 J	--	10 U	10 U	8 J	10 U
Bromoform	10 U	10 U	10 U	--	10 U	10 U	10 U	10 U
Bromomethane	10 U	10 U	10 U	--	10 U	10 U	10 U	10 U
Carbondisulfide	10 U	10 U	10 U	--	10 U	10 U	10 U	10 U
2-Hexanone	10 U	10 U	10 U	--	10 U	10 U	10 U	10 U
Methyl Ethyl Ketone	10 U	10 U	10 U	--	10 U	10 U	10 U	10 U
Methyl Isobutyl Ketone	10 U	10 U	10 U	--	10 U	10 U	10 U	10 U

-- Not analyzed.
J Associated value is qualified as an estimate. The value is considered to be acceptable and usable.
U Not detected. Note that the laboratory would have reported, with a J qualifier, any detected concentration below the stated quantitation limit but above the laboratory's method detection limit. The laboratory's method detection limit is typically about 10 percent of the stated quantitation limit in the table.

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TABLE 4.7-8 (cont.)

WATER QUALITY DATA
BLANK SAMPLES
VOLATILE ORGANIC COMPOUNDS

(concentrations in ug/L)

	LAB BLANKS							
	09/03/93	09/08/93	09/13/93	09/15/93	09/15/93	09/15/93	09/16/93	09/16/93
BETX COMPOUNDS								
Benzene	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 U
Ethyl Benzene	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 U
Toluene	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 U
Xylenes	--	--	--	--	--	--	10 U	10 U
m & p Xylene	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	--	--
o-Xylene	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	--	--
CHLORINATED COMPOUNDS								
Bromodichloromethane	--	--	--	--	--	--	10 U	10 U
Carbon Tetrachloride	--	--	--	--	--	--	10 U	10 U
Chloroethane	--	--	--	--	--	--	10 U	10 U
Chloroform	--	--	--	--	--	--	10 U	10 U
Chloromethane	--	--	--	--	--	--	10 U	10 U
Chlorobenzene	--	--	--	--	--	--	10 U	10 U
Chlorodibromomethane	--	--	--	--	--	--	10 U	10 U
1,1-Dichloroethane	--	--	--	--	--	--	10 U	10 U
1,2-Dichloroethane	--	--	--	--	--	--	10 U	10 U
1,1-Dichloroethylene	--	--	--	--	--	--	10 U	10 U
1,2-Dichloroethylene	--	--	--	--	--	--	10 U	10 U
1,2-Dichloropropane	--	--	--	--	--	--	10 U	10 U
Cis-1,3-Dichloro-1-propene	--	--	--	--	--	--	10 U	10 U
Trans-1,3-Dichloro-1-propene	--	--	--	--	--	--	10 U	10 U
Methylene Chloride	--	--	--	--	--	--	10 U	10 U
Styrene	--	--	--	--	--	--	10 U	10 U
1,1,2,2-Tetrachloroethane	--	--	--	--	--	--	10 U	10 U
Tetrachloroethylene	--	--	--	--	--	--	10 U	10 U
1,1,1-Trichloroethane	--	--	--	--	--	--	10 U	10 U
1,1,2-Trichloroethane	--	--	--	--	--	--	10 U	10 U
Trichloroethylene	--	--	--	--	--	--	10 U	10 U
Vinyl Chloride	--	--	--	--	--	--	10 U	10 U
OTHER COMPOUNDS								
Acetone	--	--	--	--	--	--	10 U	10 U
Bromoform	--	--	--	--	--	--	10 U	10 U
Bromomethane	--	--	--	--	--	--	10 U	10 U
Carbondisulfide	--	--	--	--	--	--	10 U	10 U
2-Hexanone	--	--	--	--	--	--	10 U	10 U
Methyl Ethyl Ketone	--	--	--	--	--	--	10 U	10 U
Methyl Isobutyl Ketone	--	--	--	--	--	--	10 U	10 U

-- Not analyzed.
J Associated value is qualified as an estimate. The value is considered to be acceptable and usable.
U Not detected. Note that the laboratory would have reported, with a J qualifier, any detected concentration below the stated quantitation limit but above the laboratory's method detection limit. The laboratory's method detection limit is typically about 10 percent of the stated quantitation limit in the table.

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TABLE 4.7-8 (cont.)

WATER QUALITY DATA
BLANK SAMPLES
VOLATILE ORGANIC COMPOUNDS

(concentrations in ug/L)

	LAB BLANKS							
	09/16/93	09/17/93	09/17/93	09/20/93	09/21/93	09/21/93	09/22/93	09/23/93
BETX COMPOUNDS								
Benzene	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethyl Benzene	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
m & p Xylene	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
o-Xylene	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
CHLORINATED COMPOUNDS								
Bromodichloromethane	--	--	--	--	--	--	--	--
Carbon Tetrachloride	--	--	--	--	--	--	--	--
Chloroethane	--	--	--	--	--	--	--	--
Chloroform	--	--	--	--	--	--	--	--
Chloromethane	--	--	--	--	--	--	--	--
Chlorobenzene	--	--	--	--	--	--	--	--
Chlorodibromomethane	--	--	--	--	--	--	--	--
1,1-Dichloroethane	--	--	--	--	--	--	--	--
1,2-Dichloroethane	--	--	--	--	--	--	--	--
1,1-Dichloroethylene	--	--	--	--	--	--	--	--
1,2-Dichloroethylene	--	--	--	--	--	--	--	--
1,2-Dichloropropane	--	--	--	--	--	--	--	--
Cis-1,3-Dichloro-1-propene	--	--	--	--	--	--	--	--
Trans-1,3-Dichloro-1-propene	--	--	--	--	--	--	--	--
Methylene Chloride	--	--	--	--	--	--	--	--
Styrene	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	--	--	--	--	--	--	--	--
Tetrachloroethylene	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	--	--	--	--	--	--	--	--
Trichloroethylene	--	--	--	--	--	--	--	--
Vinyl Chloride	--	--	--	--	--	--	--	--
OTHER COMPOUNDS								
Acetone	--	--	--	--	--	--	--	--
Bromoform	--	--	--	--	--	--	--	--
Bromomethane	--	--	--	--	--	--	--	--
Carbondisulfide	--	--	--	--	--	--	--	--
2-Hexanone	--	--	--	--	--	--	--	--
Methyl Ethyl Ketone	--	--	--	--	--	--	--	--
Methyl Isobutyl Ketone	--	--	--	--	--	--	--	--

-- Not analyzed.
J Associated value is qualified as an estimate. The value is considered to be acceptable and usable.
U Not detected. Note that the laboratory would have reported, with a J qualifier, any detected concentration below the stated quantitation limit but above the laboratory's method detection limit. The laboratory's method detection limit is typically about 10 percent of the stated quantitation limit in the table.

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TABLE 4.7-8 (cont.)

WATER QUALITY DATA
BLANK SAMPLES
VOLATILE ORGANIC COMPOUNDS

(concentrations in ug/L)

	LAB BLANKS							
	09/23/93	09/23/93	09/27/93	09/27/93	09/27/93	09/28/93	09/28/93	09/28/93
BETX COMPOUNDS								
Benzene	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethyl Benzene	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
m & p Xylene	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
o-Xylene	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
CHLORINATED COMPOUNDS								
Bromodichloromethane	--	--	--	--	--	--	--	--
Carbon Tetrachloride	--	--	--	--	--	--	--	--
Chloroethane	--	--	--	--	--	--	--	--
Chloroform	--	--	--	--	--	--	--	--
Chloromethane	--	--	--	--	--	--	--	--
Chlorobenzene	--	--	--	--	--	--	--	--
Chlorodibromomethane	--	--	--	--	--	--	--	--
1,1-Dichloroethane	--	--	--	--	--	--	--	--
1,2-Dichloroethane	--	--	--	--	--	--	--	--
1,1-Dichloroethylene	--	--	--	--	--	--	--	--
1,2-Dichloroethylene	--	--	--	--	--	--	--	--
1,2-Dichloropropane	--	--	--	--	--	--	--	--
Cis-1,3-Dichloro-1-propene	--	--	--	--	--	--	--	--
Trans-1,3-Dichloro-1-propene	--	--	--	--	--	--	--	--
Methylene Chloride	--	--	--	--	--	--	--	--
Styrene	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	--	--	--	--	--	--	--	--
Tetrachloroethylene	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	--	--	--	--	--	--	--	--
Trichloroethylene	--	--	--	--	--	--	--	--
Vinyl Chloride	--	--	--	--	--	--	--	--
OTHER COMPOUNDS								
Acetone	--	--	--	--	--	--	--	--
Bromoform	--	--	--	--	--	--	--	--
Bromomethane	--	--	--	--	--	--	--	--
Carbondisulfide	--	--	--	--	--	--	--	--
2-Hexanone	--	--	--	--	--	--	--	--
Methyl Ethyl Ketone	--	--	--	--	--	--	--	--
Methyl Isobutyl Ketone	--	--	--	--	--	--	--	--

-- Not analyzed.
J Associated value is qualified as an estimate. The value is considered to be acceptable and usable.
U Not detected. Note that the laboratory would have reported, with a J qualifier, any detected concentration below the stated quantitation limit but above the laboratory's method detection limit. The laboratory's method detection limit is typically about 10 percent of the stated quantitation limit in the table.

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TABLE 4.7-8 (cont.)

WATER QUALITY DATA
BLANK SAMPLES
VOLATILE ORGANIC COMPOUNDS

(concentrations in ug/L)

	LAB BLANKS							
	09/28/93	09/29/93	09/29/93	09/30/93	09/30/93	09/30/93	10/01/93	10/01/93
BETX COMPOUNDS								
Benzene	1.0 U	1.0 U	1.0 U	10 U	10 U	1.0 U	10 U	10 U
Ethyl Benzene	1.0 U	1.0 U	1.0 U	10 U	10 U	1.0 U	10 U	10 U
Toluene	1.0 U	1.0 U	1.0 U	10 U	10 U	1.0 U	10 U	10 U
Xylenes	--	--	--	10 U	10 U	--	10 U	10 U
m & p Xylene	2.0 U	2.0 U	2.0 U	--	--	2.0 U	--	--
o-Xylene	1.0 U	1.0 U	1.0 U	--	--	1.0 U	--	--
CHLORINATED COMPOUNDS								
Bromodichloromethane	--	--	--	10 U	10 U	--	10 U	10 U
Carbon Tetrachloride	--	--	--	10 U	10 U	--	10 U	10 U
Chloroethane	--	--	--	10 U	10 U	--	10 U	10 U
Chloroform	--	--	--	10 U	10 U	--	10 U	10 U
Chloromethane	--	--	--	10 U	10 U	--	10 U	10 U
Chlorobenzene	--	--	--	10 U	10 U	--	10 U	10 U
Chlorodibromomethane	--	--	--	10 U	10 U	--	10 U	10 U
1,1-Dichloroethane	--	--	--	10 U	10 U	--	10 U	10 U
1,2-Dichloroethane	--	--	--	10 U	10 U	--	10 U	10 U
1,1-Dichloroethylene	--	--	--	10 U	10 U	--	10 U	10 U
1,2-Dichloroethylene	--	--	--	10 U	10 U	--	10 U	10 U
1,2-Dichloropropane	--	--	--	10 U	10 U	--	10 U	10 U
Cis-1,3-Dichloro-1-propene	--	--	--	10 U	10 U	--	10 U	10 U
Trans-1,3-Dichloro-1-propene	--	--	--	10 U	10 U	--	10 U	10 U
Methylene Chloride	--	--	--	10 U	10 U	--	10 U	10 U
Styrene	--	--	--	10 U	10 U	--	10 U	10 U
1,1,2,2-Tetrachloroethane	--	--	--	10 U	10 U	--	10 U	10 U
Tetrachloroethylene	--	--	--	10 U	10 U	--	10 U	10 U
1,1,1-Trichloroethane	--	--	--	10 U	10 U	--	10 U	10 U
1,1,2-Trichloroethane	--	--	--	10 U	10 U	--	10 U	10 U
Trichloroethylene	--	--	--	10 U	10 U	--	10 U	10 U
Vinyl Chloride	--	--	--	10 U	10 U	--	10 U	10 U
OTHER COMPOUNDS								
Acetone	--	--	--	10 U	10 U	--	10 U	10 U
Bromoform	--	--	--	10 U	10 U	--	10 U	10 U
Bromomethane	--	--	--	10 U	10 U	--	10 U	10 U
Carbondisulfide	--	--	--	10 U	10 U	--	10 U	10 U
2-Hexanone	--	--	--	10 U	10 U	--	10 U	10 U
Methyl Ethyl Ketone	--	--	--	10 U	10 U	--	10 U	10 U
Methyl Isobutyl Ketone	--	--	--	10 U	10 U	--	10 U	10 U

-- Not analyzed.

U Not detected. Note that the laboratory would have reported, with a J qualifier, any detected concentration below the stated quantitation limit but above the laboratory's method detection limit. The laboratory's method detection limit is typically about 10 percent of the stated quantitation limit in the table.

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TABLE 4.7-8 (cont.)

WATER QUALITY DATA
BLANK SAMPLES
VOLATILE ORGANIC COMPOUNDS

(concentrations in ug/L)

	LAB BLANKS							
	10/01/93	10/01/93	10/04/93	10/06/93	10/06/93	10/07/93	10/07/93	10/08/93
BETX COMPOUNDS								
Benzene	10 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethyl Benzene	10 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	10 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Xylenes	10 U	--	--	--	--	--	--	--
m & p Xylene	--	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	0.2 J	2.0 U
o-Xylene	--	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
CHLORINATED COMPOUNDS								
Bromodichloromethane	10 U	--	--	--	--	--	--	--
Carbon Tetrachloride	10 U	--	--	--	--	--	--	--
Chloroethane	10 U	--	--	--	--	--	--	--
Chloroform	10 U	--	--	--	--	--	--	--
Chloromethane	10 U	--	--	--	--	--	--	--
Chlorobenzene	10 U	--	--	--	--	--	--	--
Chlorodibromomethane	10 U	--	--	--	--	--	--	--
1,1-Dichloroethane	10 U	--	--	--	--	--	--	--
1,2-Dichloroethane	10 U	--	--	--	--	--	--	--
1,1-Dichloroethylene	10 U	--	--	--	--	--	--	--
1,2-Dichloroethylene	10 U	--	--	--	--	--	--	--
1,2-Dichloropropane	10 U	--	--	--	--	--	--	--
Cis-1,3-Dichloro-1-propene	10 U	--	--	--	--	--	--	--
Trans-1,3-Dichloro-1-propene	10 U	--	--	--	--	--	--	--
Methylene Chloride	10 U	--	--	--	--	--	--	--
Styrene	10 U	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	10 U	--	--	--	--	--	--	--
Tetrachloroethylene	10 U	--	--	--	--	--	--	--
1,1,1-Trichloroethane	10 U	--	--	--	--	--	--	--
1,1,2-Trichloroethane	10 U	--	--	--	--	--	--	--
Trichloroethylene	10 U	--	--	--	--	--	--	--
Vinyl Chloride	10 U	--	--	--	--	--	--	--
OTHER COMPOUNDS								
Acetone	10 U	--	--	--	--	--	--	--
Bromoform	10 U	--	--	--	--	--	--	--
Bromomethane	10 U	--	--	--	--	--	--	--
Carbondisulfide	10 U	--	--	--	--	--	--	--
2-Hexanone	10 U	--	--	--	--	--	--	--
Methyl Ethyl Ketone	10 U	--	--	--	--	--	--	--
Methyl Isobutyl Ketone	10 U	--	--	--	--	--	--	--

-- Not analyzed.

U Not detected. Note that the laboratory would have reported, with a J qualifier, any detected concentration below the stated quantitation limit but above the laboratory's method detection limit. The laboratory's method detection limit is typically about 10 percent of the stated quantitation limit in the table.

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TABLE 4.7-8 (cont.)

WATER QUALITY DATA
BLANK SAMPLES
VOLATILE ORGANIC COMPOUNDS

(concentrations in ug/L)

	LAB BLANKS				
	10/17/93	10/17/93	10/19/93	10/20/93	11/05/93
BETX COMPOUNDS					
Benzene	1.0 U	1.0 U	1.0 U	1.0 U	10 U
Ethyl Benzene	1.0 U	1.0 U	1.0 U	1.0 U	10 U
Toluene	1.0 U	1.0 U	1.0 U	1.0 U	10 U
Xylenes	--	--	--	--	10 U
m & p Xylene	2.0 U	2.0 U	2.0 U	2.0 U	--
o-Xylene	1.0 U	1.0 U	1.0 U	1.0 U	--
CHLORINATED COMPOUNDS					
Bromodichloromethane	--	--	--	--	10 U
Carbon Tetrachloride	--	--	--	--	10 U
Chloroethane	--	--	--	--	10 U
Chloroform	--	--	--	--	10 U
Chloromethane	--	--	--	--	10 U
Chlorobenzene	--	--	--	--	10 U
Chlorodibromomethane	--	--	--	--	10 U
1,1-Dichloroethane	--	--	--	--	10 U
1,2-Dichloroethane	--	--	--	--	10 U
1,1-Dichloroethylene	--	--	--	--	10 U
1,2-Dichloroethylene	--	--	--	--	10 U
1,2-Dichloropropane	--	--	--	--	10 U
Cis-1,3-Dichloro-1-propene	--	--	--	--	10 U
Trans-1,3-Dichloro-1-propene	--	--	--	--	10 U
Methylene Chloride	--	--	--	--	2 J
Styrene	--	--	--	--	10 U
1,1,2,2-Tetrachloroethane	--	--	--	--	10 U
Tetrachloroethylene	--	--	--	--	10 U
1,1,1-Trichloroethane	--	--	--	--	10 U
1,1,2-Trichloroethane	--	--	--	--	10 U
Trichloroethylene	--	--	--	--	10 U
Vinyl Chloride	--	--	--	--	10 U
OTHER COMPOUNDS					
Acetone	--	--	--	--	10 U
Bromoform	--	--	--	--	10 U
Bromomethane	--	--	--	--	10 U
Carbondisulfide	--	--	--	--	10 U
2-Hexanone	--	--	--	--	10 U
Methyl Ethyl Ketone	--	--	--	--	10 U
Methyl Isobutyl Ketone	--	--	--	--	10 U

-- Not analyzed.

U Not detected. Note that the laboratory would have reported, with a J qualifier, any detected concentration below the stated quantitation limit but above the laboratory's method detection limit. The laboratory's method detection limit is typically about 10 percent of the stated quantitation limit in the table.

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TABLE 4.7-8 (cont.)

WATER QUALITY DATA
BLANK SAMPLE
VOLATILE ORGANIC COMPOUNDS

(concentrations in ug/L)

	DG1531
	08/31/93
BETX COMPOUNDS	
Benzene	10 U
Ethyl Benzene	10 U
Toluene	10 U
Xylenes	10 U
CHLORINATED COMPOUNDS	
Bromodichloromethane	10 U
Carbon Tetrachloride	10 U
Chloroethane	10 U
Chloroform	3 J
Chloromethane	1 J
Chlorobenzene	10 U
Chlorodibromomethane	10 U
1,1-Dichloroethane	10 U
1,2-Dichloroethane	10 U
1,1-Dichloroethylene	10 U
1,2-Dichloroethylene	10 U
1,2-Dichloropropane	10 U
Cis-1,3-Dichloro-1-propene	10 U
Trans-1,3-Dichloro-1-propene	10 U
Methylene Chloride	2 J
Styrene	10 U
1,1,2,2-Tetrachloroethane	10 U
Tetrachloroethylene	10 U
1,1,1-Trichloroethane	10 U
1,1,2-Trichloroethane	10 U
Trichloroethylene	10 U
Vinyl Chloride	10 U
OTHER COMPOUNDS	
Acetone	10 U
Bromoform	10 U
Bromomethane	10 U
Carbondisulfide	10 U
2-Hexanone	10 U
Methyl Ethyl Ketone	10 U
Methyl Isobutyl Ketone	10 U

J Associated value is qualified as an estimate. The value is considered to be acceptable and usable.

U Not detected. Note that the laboratory would have reported, with a J qualifier, any detected concentration below the stated quantitation limit but above the laboratory's method detection limit. The laboratory's method detection limit is typically about 10 percent of the stated quantitation limit in the table.

3,.016
01/25/94

TABLE 4.7-8 (cont.)

WATER QUALITY DATA
BLANK SAMPLES
VOLATILE ORGANIC COMPOUNDS

(concentrations in ug/L)

	FIELD BLANKS						
	04/07/92	04/08/92	04/09/92	08/30/93	08/31/93	09/30/93	10/01/93
BETX COMPOUNDS							
Benzene	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Ethyl Benzene	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Toluene	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Xylenes	10 U	10 U	10 U	10 U	10 U	10 U	10 U
CHLORINATED COMPOUNDS							
Bromodichloromethane	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Carbon Tetrachloride	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chloroethane	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U
Chloroform	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chloromethane	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chlorobenzene	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chlorodibromomethane	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,1-Dichloroethane	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2-Dichloroethane	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,1-Dichloroethylene	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2-Dichloroethylene	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2-Dichloropropane	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Cis-1,3-Dichloro-1-propene	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Trans-1,3-Dichloro-1-propene	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Methylene Chloride	10 U	10 U	10 U	10 U	10 U	2 J	1 J
Styrene	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,1,2,2-Tetrachloroethane	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Tetrachloroethylene	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,1,1-Trichloroethane	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,1,2-Trichloroethane	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Trichloroethylene	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Vinyl Chloride	10 U	10 U	10 U	10 U	10 U	10 U	10 U
OTHER COMPOUNDS							
Acetone	6 J	7 J	10 U	10	11 J	22 J	13
Bromoform	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bromomethane	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Carbondisulfide	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Methyl Ethyl Ketone	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Methyl Isobutyl Ketone	10 U	10 U	10 U	10 U	10 U	10 U	10 U

J Associated value is qualified as an estimate. The value is considered to be acceptable and usable.

U Not detected. Note that the laboratory would have reported, with a J qualifier, any detected concentration below the stated quantitation limit but above the laboratory's method detection limit. The laboratory's method detection limit is typically about 10 percent of the stated quantitation limit in the table.

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01/25/94

TABLE 4.7-8 (cont.)

WATER QUALITY DATA
BLANK SAMPLES
VOLATILE ORGANIC COMPOUNDS

(concentrations in ug/L)

	TRIP BLANKS			
	04/07/92	11/10/93	11/10/93	11/10/93
BETX COMPOUNDS				
Benzene	10 U	<5	<5	<5
Ethyl Benzene	10 U	<5	<5	<5
Toluene	10 U	<5	<5	<5
Xylenes	10 U	<5	<5	<5
m & p Xylene	--	--	--	--
o-Xylene	--	--	--	--
CHLORINATED COMPOUNDS				
Bromodichloromethane	10 U	<5	--	--
Carbon Tetrachloride	10 U	<5	--	--
Chloroethane	10 U	<10	--	--
Chloroform	1 J	<5	--	--
Chloromethane	10 U	<10	--	--
Chlorobenzene	10 U	<5	--	--
Chlorodibromomethane	10 U	<5	--	--
1,1-Dichloroethane	10 U	<5	<5	<5
1,2-Dichloroethane	10 U	<5	--	--
1,1-Dichloroethylene	10 U	<5	--	--
1,2-Dichloroethylene	10 U	<5	--	--
1,2-Dichloropropane	10 U	<5	--	--
Cis-1,3-Dichloro-1-propene	10 U	<5	--	--
Trans-1,3-Dichloro-1-propene	10 U	<5	--	--
Methylene Chloride	10 U	<5	--	--
Styrene	10 U	--	--	--
1,1,2,2-Tetrachloroethane	10 U	<5	--	--
Tetrachloroethylene	10 U	<5	--	--
1,1,1-Trichloroethane	10 U	<5	<5	<5
1,1,2-Trichloroethane	10 U	<5	--	--
Trichloroethylene	10 U	<5	--	--
Vinyl Chloride	10 U	<10	--	--
OTHER COMPOUNDS				
Acetone	10 U	<20	<20	<20
Bromoform	10 U	<5	--	--
Bromomethane	10 U	<10	--	--
Carbondisulfide	10 U	--	--	--
2-Hexanone	10 U	--	--	--
Methyl Ethyl Ketone	10 U	<10	<10	<10
Methyl Isobutyl Ketone	10 U	--	--	--

-- Not analyzed.
J Associated value is qualified as an estimate. The value is considered to be acceptable and usable.
U Not detected. Note that the laboratory would have reported, with a J qualifier, any detected concentration below the stated quantitation limit but above the laboratory's method detection limit. The laboratory's method detection limit is typically about 10 percent of the stated quantitation limit in the table.

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01/25/94

TABLE 4.7-9

WATER QUALITY DATA
BLANK SAMPLES
SEMIVOLATILE ORGANIC COMPOUNDS

(concentrations in ug/L)

	LAB BLANKS						
	04/07/92(1)	04/08/92(1)	04/09/92(1)	04/09/92(1)	08/31/93	08/31/93	09/16/93
CARCINOGENIC COMPOUNDS							
Benzo(a)anthracene	10 U	10 U	10 U	10 U	3.00 U	0.00300 U	10 U
Benzo(b)fluoranthene	10 U	10 U	10 U	10 U	3.00 U	0.00300 U	10 U
Benzo(k)fluoranthene	10 U	10 U	10 U	10 U	3.00 U	0.00300 U	10 U
Benzo(a)pyrene	10 U	10 U	10 U	10 U	3.00 U	0.00300 U	10 U
Carbazole	10 U	10 U	10 U	10 U	3.00 U	0.00300 U	10 U
Chrysene	10 U	10 U	10 U	10 U	6.00 U	0.00600 U	10 U
Dibenzo(ah)anthracene	10 U	10 U	10 U	10 U	3.00 U	0.00300 U	10 U
Indeno(1,2,3,cd)pyrene	10 U	10 U	10 U	10 U	3.00 U	0.00300 U	10 U
PROJECT SPECIFIC NON-CARCINOGENIC COMPOUNDS							
Acenaphthene	10 U	10 U	10 U	10 U	3.00 U	0.00300 U	10 U
Acenaphthylene	10 U	10 U	10 U	10 U	3.00 U	0.00300 U	10 U
Anthracene	10 U	10 U	10 U	10 U	3.00 U	0.00300 U	10 U
Benzo(ghi)perylene	10 U	10 U	10 U	10 U	3.00 U	0.00300 U	10 U
Dibenzofuran	10 U	10 U	10 U	10 U	3.00 U	0.00300 U	10 U
Fluoranthene	10 U	10 U	10 U	10 U	3.00 U	0.00300 U	10 U
Fluorene	10 U	10 U	10 U	10 U	3.00 U	0.00300 U	10 U
2-Methylnaphthalene	10 U	10 U	10 U	10 U	3.00 U	0.00300 U	10 U
Naphthalene	10 U	10 U	10 U	10 U	0.00415	0.00764	10 U
Phenanthrene	10 U	10 U	10 U	10 U	3.00 U	0.00300 U	10 U
Pyrene	10 U	10 U	10 U	10 U	3.00 U	0.00300 U	10 U
PHENOLIC COMPOUNDS							
4-Chloro-3-methylphenol	10 U	10 U	10 U	10 U	--	--	--
2-Chlorophenol	10 U	10 U	10 U	10 U	--	--	--
o-Cresol	10 U	10 U	10 U	10 U	1.705 U	1.705 U	1.705 U
p-Cresol	10 U	10 U	10 U	10 U	1.643 U	1.643 U	1.643 U
2,4-Dichlorophenol	10 U	10 U	10 U	10 U	--	--	--
2,4-Dimethylphenol	10 U	10 U	10 U	10 U	3.165 U	3.165 U	3.165 U
2,4-Dinitrophenol	25 U	25 U	25 U	25 U	--	--	--
2-Methyl-4,6-dinitrophenol	25 U	25 U	25 U	25 U	--	--	--
2-Nitrophenol	10 U	10 U	10 U	10 U	--	--	--
4-Nitrophenol	25 U	25 U	25 U	25 U	--	--	--
Pentachlorophenol	25 U	25 U	25 U	25 U	--	--	--
Phenol	10 U	10 U	3 J	10 U	1.296 U	1.296 U	1.296 U
2,4,5-Trichlorophenol	25 U	25 U	25 U	25 U	--	--	--
2,4,6-Trichlorophenol	10 U	10 U	10 U	10 U	--	--	--

-- Not analyzed.
J Associated value is qualified as an estimate. The value is considered to be acceptable and usable.
U Not detected.
1 U Not detected. Note that the laboratory would have reported, with a J qualifier, any detected concentration below the stated quantitation limit but above the laboratory's method detection limit. The laboratory's method detection limit is typically about 10 percent of the stated quantitation limit in the table.

.039
01/25/94

TABLE 4.7-9 (cont.)

WATER QUALITY DATA
BLANK SAMPLES
SEMIVOLATILE ORGANIC COMPOUNDS

(concentrations in ug/L)

	LAB BLANKS						
	04/07/92(1)	04/08/92(1)	04/09/92(1)	04/09/92(1)	08/31/93	08/31/93	09/16/93
OTHER SEMIVOLATILE ORGANIC COMPOUNDS							
Bis(2-chloroethoxy)methane	10 U	10 U	10 U	10 U	--	--	--
Bis(2-chloroethyl)ether	10 U	10 U	10 U	10 U	--	--	--
Bis(2-chloroisopropyl)ether	10 U	10 U	10 U	10 U	--	--	--
Bis(2-ethylhexyl)phthalate	10 U	10 U	10 U	10 U	--	--	--
4-Bromophenyl phenyl ether	10 U	10 U	10 U	10 U	--	--	--
Butyl benzyl phthalate	10 U	10 U	10 U	10 U	--	--	--
4-Chloroaniline	10 U	10 U	10 U	10 U	--	--	--
2-Chloronaphthalene	10 U	10 U	10 U	10 U	--	--	--
4-Chlorophenyl phenyl ether	10 U	10 U	10 U	10 U	--	--	--
Di-n-butyl phthalate	4 J	4 J	1 J	12	--	--	--
Di-n-octyl phthalate	10 U	10 U	10 U	10 U	--	--	--
1,2-Dichlorobenzene	10 U	10 U	10 U	10 U	--	--	--
1,3-Dichlorobenzene	10 U	10 U	10 U	10 U	--	--	--
1,4-Dichlorobenzene	10 U	10 U	10 U	10 U	--	--	--
3,3-Dichlorobenzidine	10 U	10 U	10 U	10 U	--	--	--
Diethyl phthalate	10 U	10 U	10 U	10 U	--	--	--
Dimethyl phthalate	10 U	10 U	10 U	10 U	--	--	--
2,4-Dinitrotoluene	10 U	10 U	10 U	10 U	--	--	--
2,6-Dinitrotoluene	10 U	10 U	10 U	10 U	--	--	--
Hexachlorobenzene	10 U	10 U	10 U	10 U	--	--	--
Hexachlorobutadiene	10 U	10 U	10 U	10 U	--	--	--
Hexachlorocyclopentadiene	10 U	10 U	10 U	10 U	--	--	--
Hexachloroethane	10 U	10 U	10 U	10 U	--	--	--
Isophorone	10 U	10 U	10 U	10 U	--	--	--
N-Nitrosodi-n-propylamine	10 U	10 U	10 U	10 U	--	--	--
N-Nitrosodiphenylamine	10 U	10 U	10 U	10 U	--	--	--
2-Nitroaniline	25 U	25 U	25 U	25 U	--	--	--
3-Nitroaniline	25 U	25 U	25 U	25 U	--	--	--
4-Nitroaniline	25 U	25 U	25 U	25 U	--	--	--
Nitrobenzene	10 U	10 U	10 U	10 U	--	--	--
1,2,4-Trichlorobenzene	10 U	10 U	10 U	10 U	--	--	--

-- Not analyzed.
J Associated value is qualified as an estimate. The value is considered to be acceptable and usable.
U Not detected.
1 U Not detected. Note that the laboratory would have reported, with a J qualifier, any detected concentration below the stated quantitation limit but above the laboratory's method detection limit. The laboratory's method detection limit is typically about 10 percent of the stated quantitation limit in the table.

.039
01/25/94

TABLE 4.7-9 (cont.)

WATER QUALITY DATA
BLANK SAMPLES
SEMIVOLATILE ORGANIC COMPOUNDS

(concentrations in ug/L)

	LAB BLANKS						
	09/30/93	10/01/93	10/17/93	10/19/93	10/20/93	11/05/93	11/30/93
CARCINOGENIC COMPOUNDS							
Benzo(a)anthracene	1.785 U	1.785 U	3.57 U	3.57 U	3.57 U	3.57 U	0.0030 U
Benzo(b)fluoranthene	2.409 U	2.409 U	4.818 U	4.818 U	4.818 U	4.818 U	0.0030 U
Benzo(k)fluoranthene	1.918 U	1.918 U	3.836 U	3.836 U	3.836 U	3.836 U	0.0030 U
Benzo(a)pyrene	2.213 U	2.213 U	4.426 U	4.426 U	4.426 U	4.426 U	0.0030 U
Carbazole	1.648 U	1.648 U	3.296 U	3.296 U	3.296 U	3.296 U	0.0030 U
Chrysene	1.925 U	1.925 U	3.85 U	3.85 U	3.85 U	3.85 U	0.0060 U
Dibenzo(ah)anthracene	1.943 U	1.943 U	3.886 U	3.886 U	3.886 U	3.886 U	0.0030 U
Indeno(1,2,3,cd)pyrene	2.205 U	2.205 U	4.41 U	4.41 U	4.41 U	4.41 U	0.0030 U
PROJECT SPECIFIC NON-CARCINOGENIC COMPOUNDS							
Acenaphthene	1.487 U	1.487 U	2.974 U	2.974 U	2.974 U	2.974 U	0.0030 U
Acenaphthylene	1.476 U	1.476 U	2.952 U	2.952 U	2.952 U	2.952 U	0.0030 U
Anthracene	1.595 U	1.595 U	3.19 U	3.19 U	3.19 U	3.19 U	0.0030 U
Benzo(ghi)perylene	1.992 U	1.992 U	3.984 U	3.984 U	3.984 U	3.984 U	0.0030 U
Dibenzofuran	1.404 U	1.404 U	2.808 U	2.808 U	2.808 U	2.808 U	0.0030 U
Fluoranthene	1.477 U	1.477 U	2.954 U	2.954 U	2.954 U	2.954 U	0.0030 U
Fluorene	1.442 U	1.442 U	2.884 U	2.884 U	2.884 U	2.884 U	0.0030 U
2-Methylnaphthalene	1.385 U	1.385 U	2.77 U	2.77 U	2.77 U	2.77 U	0.0030 U
Naphthalene	1.356 U	1.356 U	2.712 U	2.712 U	2.712 U	2.712 U	0.0040 U
Phenanthrene	1.554 U	1.554 U	3.108 U	3.108 U	3.108 U	3.108 U	0.0030 U
Pyrene	1.814 U	1.814 U	3.628 U	3.628 U	3.628 U	3.628 U	0.0030 U
PHENOLIC COMPOUNDS							
4-Chloro-3-methylphenol	1.188 U	1.188 U	--	--	--	--	--
2-Chlorophenol	1.401 U	1.401 U	--	--	--	--	--
o-Cresol	1.705 U	1.705 U	3.41 U	3.41 U	3.41 U	3.41 U	--
p-Cresol	1.643 U	1.643 U	3.286 U	3.286 U	3.286 U	3.286 U	--
2,4-Dichlorophenol	1.298 U	1.298 U	--	--	--	--	--
2,4-Dimethylphenol	3.165 U	3.165 U	6.33 U	6.33 U	6.33 U	6.33 U	--
2,4-Dinitrophenol	4.061 U	4.061 U	--	--	--	--	--
2-Methyl-4,6-dinitrophenol	2.284 U	2.284 U	--	--	--	--	--
2-Nitrophenol	1.084 U	1.084 U	--	--	--	--	--
4-Nitrophenol	1.878 U	1.878 U	--	--	--	--	--
Pentachlorophenol	1.69 U	1.69 U	--	--	--	--	--
Phenol	1.296 U	1.296 U	2.592 U	3 J	2.592 U	2.592 U	--
2,4,5-Trichlorophenol	1.248 U	1.248 U	--	--	--	--	--
2,4,6-Trichlorophenol	1.171 U	1.171 U	--	--	--	--	--

-- Not analyzed.
J Associated value is qualified as an estimate. The value is considered to be acceptable and usable.
U Not detected.
.039
01/25/94

TABLE 4.7-9 (cont.)

WATER QUALITY DATA
BLANK SAMPLES
SEMIVOLATILE ORGANIC COMPOUNDS

(concentrations in ug/L)

	LAB BLANKS					
	09/30/93	10/01/93	10/17/93	10/19/93	10/20/93	11/05/93
OTHER SEMIVOLATILE ORGANIC COMPOUNDS						
Bis(2-chloroethoxy)methane	1.431 U	1.431 U	--	--	--	--
Bis(2-chloroethyl)ether	1.368 U	1.368 U	--	--	--	--
Bis(2-chloroisopropyl)ether	1.575 U	1.575 U	--	--	--	--
Bis(2-ethylhexyl)phthalate	6.179 U	6.179 U	--	--	--	--
4-Bromophenyl phenyl ether	1.057 U	1.057 U	--	--	--	--
Butyl benzyl phthalate	1.256 U	1.256 U	--	--	--	--
4-Chloroaniline	1.759 U	1.759 U	--	--	--	--
2-Chloronaphthalene	1.366 U	1.366 U	--	--	--	--
4-Chlorophenyl phenyl ether	1.313 U	1.313 U	--	--	--	--
Di-n-butyl phthalate	1.304 U	1.304 U	--	--	--	--
Di-n-octyl phthalate	2.101 U	2.101 U	--	--	--	--
1,2-Dichlorobenzene	1.751 U	1.751 U	--	--	--	--
1,3-Dichlorobenzene	1.794 U	1.794 U	--	--	--	--
1,4-Dichlorobenzene	1.748 U	1.748 U	--	--	--	--
3,3-Dichlorobenzidine	4.77 U	4.77 U	--	--	--	--
Diethyl phthalate	1.529 U	1.529 U	--	--	--	--
Dimethyl phthalate	1.33 U	1.33 U	--	--	--	--
2,4-Dinitrotoluene	1.14 U	1.14 U	--	--	--	--
2,6-Dinitrotoluene	1.095 U	1.095 U	--	--	--	--
Hexachlorobenzene	1.374 U	1.374 U	--	--	--	--
Hexachlorobutadiene	1.767 U	1.767 U	--	--	--	--
Hexachlorocyclopentadiene	1.341 U	1.341 U	--	--	--	--
Hexachloroethane	1.799 U	1.799 U	--	--	--	--
Isophorone	1.322 U	1.322 U	--	--	--	--
N-Nitrosodi-n-propylamine	1.209 U	1.209 U	--	--	--	--
N-Nitrosodiphenylamine	1.588 U	1.588 U	--	--	--	--
2-Nitroaniline	1.275 U	1.275 U	--	--	--	--
3-Nitroaniline	1.806 U	1.806 U	--	--	--	--
4-Nitroaniline	1.655 U	1.655 U	--	--	--	--
Nitrobenzene	1.241 U	1.241 U	--	--	--	--
1,2,4-Trichlorobenzene	1.376 U	1.376 U	--	--	--	--

-- Not analyzed.
U Not detected.
.039
01/25/94

TABLE 4.7-9 (cont.)

WATER QUALITY DATA
BLANK SAMPLES
SEMIVOLATILE ORGANIC COMPOUNDS

(concentrations in ug/L)

	FIELD BLANKS					
	04/07/92(1)	04/09/92(1)	08/30/93	08/31/93	09/30/93	10/01/93
CARCINOGENIC COMPOUNDS						
Benzo(a)anthracene	20 U	50 U	0.00300 U	0.00300 U	1.785 U	1.785 U
Benzo(b)fluoranthene	20 U	50 U	0.00300 U	0.00300 U	2.409 U	2.409 U
Benzo(k)fluoranthene	20 U	50 U	0.00300 U	0.00300 U	1.918 U	1.918 U
Benzo(a)pyrene	20 U	50 U	0.00300 U	0.00300 U	2.213 U	2.213 U
Carbazole	20 U	50 U	0.00300 U	0.00300 U	1.648 U	1.648 U
Chrysene	20 U	50 U	0.00600 U	0.00600 U	1.925 U	1.925 U
Dibenzo(ah)anthracene	20 U	50 U	0.00300 U	0.00300 U	1.943 U	1.943 U
Indeno(1,2,3,cd)pyrene	20 U	50 U	0.00300 U	0.00300 U	2.205 U	2.205 U
PROJECT SPECIFIC NON-CARCINOGENIC COMPOUNDS						
Acenaphthene	20 U	50 U	0.00300 U	0.00300 U	1.487 U	1.487 U
Acenaphthylene	20 U	50 U	0.00300 U	0.00300 U	1.476 U	1.476 U
Anthracene	20 U	50 U	0.00300 U	0.00300 U	1.595 U	1.595 U
Benzo(ghi)perylene	20 U	50 U	0.00300 U	0.00300 U	1.992 U	1.992 U
Dibenzofuran	20 U	50 U	0.00300 U	0.00300 U	1.404 U	1.404 U
Fluoranthene	20 U	50 U	0.00300 U	0.00300 U	1.477 U	1.477 U
Fluorene	20 U	50 U	0.00300 U	0.00300 U	1.442 U	1.442 U
2-Methylnaphthalene	20 U	50 U	0.00612	0.00413	1.385 U	1.385 U
Naphthalene	20 U	50 U	0.0105	0.00794	1.356 U	1.356 U
Phenanthrene	20 U	50 U	0.00476	0.00329	1.554 U	1.554 U
Pyrene	20 U	50 U	0.00300 U	0.00300 U	1.814 U	1.814 U
PHENOLIC COMPOUNDS						
4-Chloro-3-methylphenol	20 U	50 U	--	--	1.188 U	1.188 U
2-Chlorophenol	20 U	50 U	--	--	1.401 U	1.401 U
o-Cresol	12 J	110	1.705 U	1.705 U	1.705 U	1.705 U
p-Cresol	33	150	1.643 U	1.643 U	1.643 U	1.643 U
2,4-Dichlorophenol	20 U	50 U	--	--	1.298 U	1.298 U
2,4-Dimethylphenol	20 U	8 J	3.165 U	3.165 U	3.165 U	3.165 U
2,4-Dinitrophenol	50 U	120 U	--	--	4.061 U	4.061 U
2-Methyl-4,6-dinitrophenol	50 U	120 U	--	--	2.284 U	2.284 U
2-Nitrophenol	20 U	50 U	--	--	1.084 U	1.084 U
4-Nitrophenol	50 U	120 U	--	--	1.878 U	1.878 U
Pentachlorophenol	50 U	120 U	--	--	1.69 U	1.69 U
Phenol	130	310	1.296 U	1.296 U	1.296 U	1.296 U
2,4,5-Trichlorophenol	50 U	120 U	--	--	1.248 U	1.248 U
2,4,6-Trichlorophenol	20 U	50 U	--	--	1.171 U	1.171 U

-- Not analyzed.
J Associated value is qualified as an estimate. The value is considered to be acceptable and usable.
U Not detected.
1 U Not detected. Note that the laboratory would have reported, with a J qualifier, any detected concentration below the stated quantitation limit but above the laboratory's method detection limit. The laboratory's method detection limit is typically about 10 percent of the stated quantitation limit in the table.

.039
01/25/94

TABLE 4.7-9 (cont.)

WATER QUALITY DATA
BLANK SAMPLES
SEMIVOLATILE ORGANIC COMPOUNDS

(concentrations in ug/L)

	FIELD BLANKS					
	04/07/92(1)	04/09/92(1)	08/30/93	08/31/93	09/30/93	10/01/93
OTHER SEMIVOLATILE ORGANIC COMPOUNDS						
Bis(2-chloroethoxy)methane	20 U	50 U	--	--	1.431 U	1.431 U
Bis(2-chloroethyl)ether	20 U	50 U	--	--	1.368 U	1.368 U
Bis(2-chloroisopropyl)ether	20 U	50 U	--	--	1.575 U	1.575 U
Bis(2-ethylhexyl)phthalate	20 U	50 U	--	--	6.179 U	6.179 U
4-Bromophenyl phenyl ether	20 U	50 U	--	--	1.057 U	1.057 U
Butyl benzyl phthalate	20 U	50 U	--	--	1.256 U	1.256 U
4-Chloroaniline	20 U	50 U	--	--	1.759 U	1.759 U
2-Chloronaphthalene	20 U	50 U	--	--	1.366 U	1.366 U
4-Chlorophenyl phenyl ether	20 U	50 U	--	--	1.313 U	1.313 U
Di-n-butyl phthalate	20 U	50 U	--	--	1.304 U	1.304 U
Di-n-octyl phthalate	20 U	50 U	--	--	2.101 U	2.101 U
1,2-Dichlorobenzene	20 U	50 U	--	--	1.751 U	1.751 U
1,3-Dichlorobenzene	20 U	50 U	--	--	1.794 U	1.794 U
1,4-Dichlorobenzene	20 U	50 U	--	--	1.748 U	1.748 U
3,3-Dichlorobenzidine	20 U	50 U	--	--	4.77 U	4.77 U
Diethyl phthalate	20 U	50 U	--	--	1.529 U	1.529 U
Dimethyl phthalate	20 U	50 U	--	--	1.33 U	1.33 U
2,4-Dinitrotoluene	20 U	50 U	--	--	1.14 U	1.14 U
2,6-Dinitrotoluene	20 U	50 U	--	--	1.095 U	1.095 U
Hexachlorobenzene	20 U	50 U	--	--	1.374 U	1.374 U
Hexachlorobutadiene	20 U	50 U	--	--	1.767 U	1.767 U
Hexachlorocyclopentadiene	20 U	50 U	--	--	1.341 U	1.341 U
Hexachloroethane	20 U	50 U	--	--	1.799 U	1.799 U
Isophorone	20 U	50 U	--	--	1.322 U	1.322 U
N-Nitrosodi-n-propylamine	20 U	50 U	--	--	1.209 U	1.209 U
N-Nitrosodiphenylamine	20 U	50 U	--	--	1.588 U	1.588 U
2-Nitroaniline	50 U	120 U	--	--	1.275 U	1.275 U
3-Nitroaniline	50 U	120 U	--	--	1.806 U	1.806 U
4-Nitroaniline	50 U	120 U	--	--	1.655 U	1.655 U
Nitrobenzene	20 U	50 U	--	--	1.241 U	1.241 U
1,2,4-Trichlorobenzene	20 U	50 U	--	--	1.376 U	1.376 U

-- Not analyzed.
J Associated value is qualified as an estimate. The value is considered to be acceptable and usable.
U Not detected.
1 U Not detected. Note that the laboratory would have reported, with a J qualifier, any detected concentration below the stated quantitation limit but above the laboratory's method detection limit. The laboratory's method detection limit is typically about 10 percent of the stated quantitation limit in the table.

.039
01/25/94

TABLE 4.7-10

WATER QUALITY DATA
BLANK SAMPLES
PESTICIDES AND PCBs

(concentrations in ug/L)

	LAB BLANKS		
	04/07/92	04/08/92	04/09/92
PESTICIDES			
Aldrin	0.050 UJ	0.050 UJ	0.050 U
a-BHC	0.050 UJ	0.050 UJ	0.050 U
b-BHC	0.050 UJ	0.050 UJ	0.050 U
d-BHC	0.050 UJ	0.050 UJ	0.050 U
g-BHC (Lindane)	0.050 UJ	0.050 UJ	0.050 UJ
Alpha Chlordane	0.050 UJ	0.050 UJ	0.050 U
Gamma Chlordane	0.050 UJ	0.050 UJ	0.050 U
4,4'-DDD	0.10 UJ	0.10 UJ	0.10 U
4,4'-DDE	0.10 UJ	0.10 UJ	0.10 U
4,4'-DDT	0.10 UJ	0.10 UJ	0.10 U
Dieldrin	0.10 UJ	0.10 UJ	0.10 U
Endosulfan I	0.050 UJ	0.050 UJ	0.050 U
Endosulfan II	0.10 UJ	0.10 UJ	0.10 U
Endosulfan Sulfate	0.10 UJ	0.10 UJ	0.10 U
Endrin	0.10 UJ	0.10 UJ	0.10 U
Endrin Aldehyde	0.10 UJ	0.10 UJ	0.10 U
Endrin Ketone	0.10 UJ	0.10 UJ	0.10 U
Heptachlor	0.050 UJ	0.050 UJ	0.050 UJ
Heptachlor Epoxide	0.050 UJ	0.050 UJ	0.050 U
Methyloxyclor	0.50 UJ	0.50 UJ	0.50 U
Toxaphene	5.0 UJ	5.0 UJ	5.0 U
PCBs			
PCB-1016	1.0 UJ	1.0 UJ	1.0 U
PCB-1221	2.0 UJ	2.0 UJ	2.0 U
PCB-1232	1.0 UJ	1.0 UJ	1.0 U
PCB-1242	1.0 UJ	1.0 UJ	1.0 U
PCB-1248	1.0 UJ	1.0 UJ	1.0 U
PCB-1254	1.0 UJ	1.0 UJ	1.0 U
PCB-1260	1.0 UJ	1.0 UJ	1.0 U

J Associated value is qualified as an estimate. The value is considered to be acceptable and usable.
U Not detected.
.070
01/27/94

TABLE 4.7-10 (cont.)

WATER QUALITY DATA
BLANK SAMPLES
PESTICIDES AND PCBs

(concentrations in ug/L)

	LAB BLANKS		
	09/30/93	10/01/93	12/02/93
PESTICIDES			
Aldrin	0.050 U	0.050 U	0.050 U
a-BHC	0.050 U	0.050 U	0.050 U
b-BHC	0.050 U	0.050 U	0.050 U
d-BHC	0.050 U	0.050 U	0.050 U
g-BHC (Lindane)	0.050 U	0.050 U	0.050 U
Alpha Chlordane	0.050 U	0.050 U	0.050 U
Gamma Chlordane	0.050 U	0.050 U	0.050 U
4,4'-DDD	0.10 U	0.10 U	0.10 U
4,4'-DDE	0.10 U	0.10 U	0.10 U
4,4'-DDT	0.10 U	0.10 U	0.10 U
Dieldrin	0.10 U	0.10 U	0.10 U
Endosulfan I	0.050 U	0.050 U	0.050 U
Endosulfan II	0.10 U	0.10 U	0.10 U
Endosulfan Sulfate	0.10 U	0.10 U	0.10 U
Endrin	0.10 U	0.10 U	0.10 U
Endrin Aldehyde	0.10 U	0.10 U	0.10 U
Endrin Ketone	0.10 U	0.10 U	0.10 U
Heptachlor	0.050 U	0.050 U	0.050 U
Heptachlor Epoxide	0.050 U	0.050 U	0.050 U
Methyloxyclor	0.50 U	0.50 U	0.50 U
Toxaphene	5.0 U	5.0 U	5.0 U
PCBs			
PCB-1016	1.0 U	1.0 U	1.0 U
PCB-1221	2.0 U	2.0 U	2.0 U
PCB-1232	1.0 U	1.0 U	1.0 U
PCB-1242	1.0 U	1.0 U	1.0 U
PCB-1248	1.0 U	1.0 U	1.0 U
PCB-1254	1.0 U	1.0 U	1.0 U
PCB-1260	1.0 U	1.0 U	1.0 U

U Not detected.
.033
01/25/94

TABLE 4.7-10 (cont.)

WATER QUALITY DATA
BLANK SAMPLES
PESTICIDES AND PCBs

(concentrations in ug/L)

	FIELD BLANKS			
	04/07/92	04/09/92	09/30/93	10/01/93
PESTICIDES				
Aldrin	0.050 U	0.050 UJ	0.050 U	0.050 U
a-BHC	0.050 U	0.050 UJ	0.050 U	0.050 U
b-BHC	0.050 U	0.050 UJ	0.050 U	0.050 U
d-BHC	0.050 U	0.050 UJ	0.050 U	0.050 U
g-BHC (Lindane)	0.050 U	0.050 UJ	0.050 U	0.050 U
Alpha Chlordane	0.050 U	0.050 UJ	0.050 U	0.050 U
Gamma Chlordane	0.050 U	0.050 UJ	0.050 U	0.050 U
4,4'-DDD	0.10 U	0.10 UJ	0.10 U	0.10 U
4,4'-DDE	0.10 U	0.10 UJ	0.10 U	0.10 U
4,4'-DDT	0.10 U	0.10 UJ	0.10 U	0.10 U
Dieldrin	0.10 U	0.10 UJ	0.10 U	0.10 U
Endosulfan I	0.050 U	0.050 UJ	0.050 U	0.050 U
Endosulfan II	0.10 U	0.10 UJ	0.10 U	0.10 U
Endosulfan Sulfate	0.10 U	0.10 UJ	0.10 U	0.10 U
Endrin	0.10 U	0.10 UJ	0.10 U	0.10 U
Endrin Aldehyde	0.10 U	0.10 UJ	0.10 U	0.10 U
Endrin Ketone	0.10 U	0.10 UJ	0.10 U	0.10 U
Heptachlor	0.050 U	0.050 UJ	0.050 U	0.050 U
Heptachlor Epoxide	0.050 U	0.050 UJ	0.050 U	0.050 U
Methyloxyclor	0.50 U	0.50 UJ	0.50 U	0.50 U
Toxaphene	5.0 U	5.0 UJ	5.0 U	5.0 U
PCBs				
PCB-1016	1.0 U	1.0 UJ	1.0 U	1.0 U
PCB-1221	2.0 U	2.0 UJ	2.0 U	2.0 U
PCB-1232	1.0 U	1.0 UJ	1.0 U	1.0 U
PCB-1242	1.0 U	1.0 UJ	1.0 U	1.0 U
PCB-1248	1.0 U	1.0 UJ	1.0 U	1.0 U
PCB-1254	1.0 U	1.0 UJ	1.0 U	1.0 U
PCB-1260	1.0 U	1.0 UJ	1.0 U	1.0 U

J Associated value is qualified as an estimate. The value is considered to be acceptable and usable.
U Not detected.
.033
01/25/94

TABLE 4.7-11

WATER QUALITY DATA
BLANK SAMPLES
GENERAL PARAMETERS

(concentrations in mg/L, unless noted otherwise)

	LAB BLANKS				
	08/30/93	08/31/93	08/31/93	09/15/93	09/20/93
Acidity as CaCO3	--	--	--	--	--
Total Alkalinity as CaCO3	--	--	--	--	--
Alkalinity, Phenolphthalein as CaCO3	--	--	--	--	--
Biochemical Oxygen Demand (5-day)	<2	<2	<2	--	--
Cation-Anion Balance, %	--	--	--	--	--
Chloride	--	--	--	--	--
Chemical Oxygen Demand	<20	<20	<20	--	--
Total Hardness as CaCO3	<1	<1	<1	--	--
Ammonia Nitrogen	<0.1	<0.2	<0.1	<0.1	--
Nitrate	--	--	--	--	--
Nitrite	--	--	--	--	--
Oil and Grease	<0.05	<0.05	<0.05	--	--
Phosphorus, Total	--	--	--	--	--
Specific Gravity @4oC	--	--	--	--	--
Sulfate	--	--	--	--	<1.0
Total Dissolved Solids	--	--	--	--	--
Total Organic Carbon	--	--	--	--	<5.0
Sulfide, total	--	--	--	--	<4
Suspended Solids, total	<4	<4	<4	--	--
Turbidity	--	--	--	--	--

	LAB BLANKS				
	09/21/93	09/30/93	10/01/93	10/06/93	10/07/93
Acidity as CaCO3	--	--	--	--	--
Total Alkalinity as CaCO3	--	<1	--	--	--
Alkalinity, Phenolphthalein as CaCO3	--	--	--	--	--
Biochemical Oxygen Demand (5-day)	--	<2	<2	--	--
Cation-Anion Balance, %	--	--	--	--	--
Chloride	--	<1.0	<1.0	--	--
Chemical Oxygen Demand	--	<20	<20	--	--
Total Hardness as CaCO3	--	<1	<1	--	--
Ammonia Nitrogen	--	--	--	--	--
Nitrate	--	--	--	--	--
Nitrite	--	--	--	--	--
Oil and Grease	--	<0.05	<0.05	<1.6	<1.6
Phosphorus, Total	--	--	--	--	--
Specific Gravity @4oC	--	--	--	--	--
Sulfate	<1.0	<1.0	<1.0	<1.0	--
Total Dissolved Solids	--	<10	<10	--	--
Total Organic Carbon	<5.0	<1.0	<1.0	--	--
Sulfide, total	<4.0	<0.1	<0.1	<4.0	--
Suspended Solids, total	--	<4	<4	--	--
Turbidity	--	--	--	--	--

-- Not analyzed.

.033

01/25/94

TABLE 4.7-11 (cont.)

WATER QUALITY DATA
BLANK SAMPLES
GENERAL PARAMETERS

(concentrations in mg/L, unless noted otherwise)

	LAB BLANKS				
	10/08/93	10/17/93	10/19/93	10/20/93	11/05/93
Acidity as CaCO3	--	--	--	--	--
Total Alkalinity CaCO3	--	--	--	--	--
Alkalinity, Phenolphthalein as CaCO3	--	--	--	--	--
Biochemical Oxygen Demand (5-day)	--	--	--	--	<2
Cation-Anion Balance, %	--	--	--	--	--
Chloride	--	<20.0	<20.0	<1.0	<20.0
Chemical Oxygen Demand	--	--	--	--	<20
Total Hardness as CaCO3	--	--	--	--	<1
Ammonia Nitrogen	--	<0.2	<0.2	<0.1	<0.1
Nitrate	--	--	--	--	<0.05
Nitrite	--	--	--	--	<0.05
Oil and Grease	<1.6	--	--	--	<0.05
Phosphorus, Total	--	--	--	--	<0.05
Specific Gravity @4oC	--	--	--	--	--
Sulfate	--	--	--	--	<1.0
Total Dissolved Solids	--	--	--	--	<10
Total Organic Carbon	--	--	--	--	<1.0
Sulfide, total	--	--	--	--	<0.1
Suspended Solids, total	--	--	--	--	<4
Turbidity	--	--	--	--	<0.1

	FIELD BLANKS				
	08/30/93	08/31/93	11/30/93	12/01/93	12/02/93
	30	30	30	30	30
Acidity as CaCO3	--	--	--	--	--
Total Alkalinity as CaCO3	--	--	--	--	--
Alkalinity, Phenolphthalein as CaCO3	--	--	--	--	--
Biochemical Oxygen Demand (5-day)	--	--	--	--	--
Cation-Anion Balance, %	--	--	--	--	--
Chloride	--	--	--	--	--
Chemical Oxygen Demand	--	--	--	--	--
Total Hardness as CaCO3	--	--	--	--	--
Ammonia Nitrogen	<0.2	<0.2	<0.2	<0.2	<0.2
Nitrate	--	--	--	--	--
Nitrite	--	--	--	--	--
Oil and Grease	--	--	--	--	--
Phosphorus, Total	--	--	--	--	--
Specific Gravity @4oC	--	--	--	--	--
Sulfate	--	--	--	--	--
Total Dissolved Solids	--	--	--	--	--
Total Organic Carbon	--	--	--	--	--
Sulfide, total	--	--	--	--	--
Suspended Solids, total	--	--	--	--	--
Turbidity	--	--	--	--	--

-- Not analyzed.

.033

01/25/94

TABLE 4.7-12

SOIL QUALITY DATA
BLIND DUPLICATE SAMPLES
INORGANIC COMPOUNDS

(concentrations in mg/kg)

	BS06		RPD	SS02		RPD
	03/25/92 Sample	03/25/92 Duplicate		03/06/92 Sample	03/06/92 Duplicate	
Arsenic, total	1.7 BJ	1.7 BJ		1.1 U	0.91 U	
Cyanide, total	0.79 BJ	1.2 BJ		--	--	
Aluminum	1670	3550	72.0	1550	892	53.9
Antimony	2.9 BJ	2.3 UJ		2.7 UJ	2.7 UJ	
Barium	8.8 BJ	12.2 BJ		8.3 BJ	5.5 BJ	
Beryllium	0.20 UJ	0.29 BJ		0.23 UJ	0.11 UJ	
Cadmium	0.62 U	0.62 U		0.73 U	0.72 U	
Calcium	27800	27300	1.8	18600	21300	13.5
Chromium, total	5.3	8.5	46.4	4.3	4.0 U	
Cobalt	2.9 B	5.8 B	66.7	1.7 B	1.8 B	5.7
Copper	8.3	24.3	98.2	5.4 B	4.6 B	16.0
Iron	5380	10100	61.0	2590	2350	9.7
Lead	3.5 J	3.1 J		2.5 J	3.0 J	
Magnesium	14600	16000	9.2	8990	10900	19.2
Manganese	194	249	24.3	85.5	88.8	3.8
Mercury	0.07 UJ	0.08 UJ		0.08 U	0.08 U	
Nickel	5.3 B	12.8	82.9	4.1 U	3.6 U	
Potassium	151 U	365 B		263 UJ	210 UJ	
Selenium	0.27 U	0.27 U		0.32 U	0.32 U	
Silver	0.37 U	0.37 U		0.52 U	0.42 U	
Sodium	204 UJ	326 UJ		377 UJ	321 UJ	
Thallium	0.35 U	0.35 U		0.41 U	0.41 U	
Vanadium	14.9	32.9	75.3	5.7 B	4.4 B	25.7
Zinc	21.2 J	40.8 J		20.3	17.7	13.7

-- Not analyzed.
B The reported value is less than the Contract Required Detection Limit (CRDL) but greater than or equal to the Instrument Detection Limit (IDL).
J Associated value is qualified as an estimate. The value is considered to be acceptable and usable.
U Not detected.

.046
01/25/94

TABLE 4.7-12 (cont.)

SOIL QUALITY DATA
BLIND DUPLICATE SAMPLES
INORGANIC COMPOUNDS

(concentrations in mg/kg)

	TT1001 7'		RPD	TT2502 2'		RPD
	03/21/92 Sample	03/21/92 Duplicate		10/06/93 Sample	10/06/93 Duplicate	
Arsenic, total	191	318	49.9	115 J	50.0 J	
Cyanide, total	1.3 BJ	2.5 BJ		27.3 J	26.0 J	
Aluminum	--	--		--	--	
Antimony	--	--		--	--	
Barium	--	--		--	--	
Beryllium	--	--		--	--	
Cadmium	--	--		0.76 U	0.71 U	
Calcium	--	--		--	--	
Chromium, total	--	--		--	--	
Cobalt	--	--		--	--	
Copper	--	--		--	--	
Iron	--	--		--	--	
Lead	--	--		127 J	454 J	
Magnesium	--	--		--	--	
Manganese	--	--		--	--	
Mercury	--	--		7.1	8.0	11.9
Nickel	--	--		--	--	
Potassium	--	--		--	--	
Selenium	--	--		2.0 J	1.9 J	
Silver	--	--		--	--	
Sodium	--	--		--	--	
Thallium	--	--		--	--	
Vanadium	--	--		--	--	
Zinc	--	--		--	--	

-- Not analyzed.
B The reported value is less than the Contract Required Detection Limit (CRDL) but greater than or equal to the Instrument Detection Limit (IDL).
J Associated value is qualified as an estimate. The value is considered to be acceptable and usable.
U Not detected.

.046
01/25/94

TABLE 4.7-12 (cont.)

SOIL QUALITY DATA
BLIND DUPLICATE SAMPLES
INORGANIC COMPOUNDS

(concentrations in mg/kg)

	SB1608 17-19'		RPD	SB1713 29.5-31.5'		RPD
	09/29/93 Sample	09/29/93 Duplicate		09/29/93 Sample	09/29/93 Duplicate	
Arsenic, total	9.5 J	6.3 J		51.8 J	91.4 J	
Cyanide, total	0.19 BJ	0.43 BJ		1.1 BJ	1.9 BJ	
Aluminum	--	--		--	--	
Antimony	--	--		--	--	
Barium	--	--		--	--	
Beryllium	--	--		--	--	
Cadmium	0.73 U	0.75 U		0.72 U	0.99 B	
Calcium	--	--		--	--	
Chromium, total	--	--		--	--	
Cobalt	--	--		--	--	
Copper	--	--		--	--	
Iron	--	--		--	--	
Lead	2.1 J	1.8 J		2.9 J	2.4 J	
Magnesium	--	--		--	--	
Manganese	--	--		--	--	
Mercury	0.02 UJ	0.02 UJ		0.02 UJ	0.02 UJ	
Nickel	--	--		--	--	
Potassium	--	--		--	--	
Selenium	1.5 J	1.1 BJ		0.37 UJ	0.43 BJ	
Silver	--	--		--	--	
Sodium	--	--		--	--	
Thallium	--	--		--	--	
Vanadium	--	--		--	--	
Zinc	--	--		--	--	

-- Not analyzed.
B The reported value is less than the Contract Required Detection Limit (CRDL) but greater than or equal to the Instrument Detection Limit (IDL).
J Associated value is qualified as an estimate. The value is considered to be acceptable and usable.
U Not detected.

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TABLE 4.7-12 (cont.)

SOIL QUALITY DATA
BLIND DUPLICATE SAMPLES
INORGANIC COMPOUNDS

(concentrations in mg/kg)

	SB1812 27-29'		RPD	SB1912 27-29'		RPD
	09/30/93 Sample	09/30/93 Duplicate		09/30/93 Sample	09/30/93 Duplicate	
Arsenic, total	11.2 J	18.2 J		10.5 J	10.5 J	
Cyanide, total	3.2	1.8	56.0	3.4	1.6	72.0
Aluminum	--	--		--	--	
Antimony	--	--		--	--	
Barium	--	--		--	--	
Beryllium	--	--		--	--	
Cadmium	0.99 B	0.73 U		0.73 U	0.73 U	
Calcium	--	--		--	--	
Chromium, total	--	--		--	--	
Cobalt	--	--		--	--	
Copper	--	--		--	--	
Iron	--	--		--	--	
Lead	3.5 J	3.5 J		3.8 J	5.9 J	
Magnesium	--	--		--	--	
Manganese	--	--		--	--	
Mercury	0.02 UJ	0.03 UJ		0.03 BJ	0.02 UJ	
Nickel	--	--		--	--	
Potassium	--	--		--	--	
Selenium	0.50 BJ	0.64 BJ		1.1 BJ	0.65 BJ	
Silver	--	--		--	--	
Sodium	--	--		--	--	
Thallium	--	--		--	--	
Vanadium	--	--		--	--	
Zinc	--	--		--	--	

-- Not analyzed.
B The reported value is less than the Contract Required Detection Limit (CRDL) but greater than or equal to the Instrument Detection Limit (IDL).
J Associated value is qualified as an estimate. The value is considered to be acceptable and usable.
U Not detected.

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TABLE 4.7-12 (cont.)

SOIL QUALITY DATA
BLIND DUPLICATE SAMPLES
INORGANIC COMPOUNDS

(concentrations in mg/kg)

	SB2004 7-9'		RPD	SB2413 29.5-31.5'		RPD
	10/04/93 Sample	10/04/93 Duplicate		09/28/93 Sample	09/28/93 Duplicate	
Arsenic, total	22.3 J	26.2 J		6.2 J	6.7 J	
Cyanide, total	0.33 B	0.17 B	64.0	0.12 R	0.52 BJ	
Aluminum	--	--		--	--	
Antimony	--	--		--	--	
Barium	--	--		--	--	
Beryllium	--	--		--	--	
Cadmium	0.70 U	0.69 U		0.89 B	0.71 U	
Calcium	--	--		--	--	
Chromium, total	--	--		--	--	
Cobalt	--	--		--	--	
Copper	--	--		--	--	
Iron	--	--		--	--	
Lead	4.6 J	9.2 J		3.5 J	2.3 J	
Magnesium	--	--		--	--	
Manganese	--	--		--	--	
Mercury	0.02 UJ	0.02 UJ		0.13 J	0.14 J	
Nickel	--	--		--	--	
Potassium	--	--		--	--	
Selenium	2.5 J	2.1 J		0.79 B	1.0 B	23.5
Silver	--	--		--	--	
Sodium	--	--		--	--	
Thallium	--	--		--	--	
Vanadium	--	--		--	--	
Zinc	--	--		--	--	

-- Not analyzed.
B The reported value is less than the Contract Required Detection Limit (CRDL) but greater than or equal to the Instrument Detection Limit (IDL).
J Associated value is qualified as an estimate. The value is considered to be acceptable and usable.
U Not detected.
R Unusable.

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TABLE 4.7-12 (cont.)

SOIL QUALITY DATA
BLIND DUPLICATE SAMPLES
INORGANIC COMPOUNDS

(concentrations in mg/kg)

	SB2612 27-29'		RPD	SB3007 14.5-16.5'		RPD
	09/28/93 Sample	09/28/93 Duplicate		10/05/93 Sample	10/05/93 Duplicate	
Arsenic, total	25.2 J	13.5 J		3.5 J	2.9 J	
Cyanide, total	0.56 R	0.17 BJ		0.50 U	0.65 U	
Aluminum	--	--		1650J	1990 J	
Antimony	--	--		2.5 UJ	2.6 BJ	
Barium	--	--		8.3 BJ	15.5 BJ	
Beryllium	--	--		0.17 J	0.19 BJ	
Cadmium	0.68 U	1.5		0.61 UJ	0.61 UJ	
Calcium	--	--		42500	41100	3.3
Chromium, total	--	--		6.2	6.4	3.2
Cobalt	--	--		3.2 B	3.2 B	0
Copper	--	--		8.1	9.4	14.9
Iron	--	--		4470	5030	11.8
Lead	5.7 J	3.0 J		9.8	6.8	36.1
Magnesium	--	--		20400	19800	3.0
Manganese	--	--		156	158	1.3
Mercury	0.02 UJ	0.02 UJ		0.02 U	0.02 U	
Nickel	--	--		5.7 BJ	7.2 BJ	
Potassium	--	--		397 B	369 B	7.3
Selenium	3.1	2.0	43.1	0.32 U	0.32 U	
Silver	--	--		0.34 UJ	0.34 UJ	
Sodium	--	--		161 BJ	188 BJ	
Thallium	--	--		0.29 U	0.29 U	
Vanadium	--	--		6.4 B	6.6 B	3.1
Zinc	--	--		37.0	39.7	7.0

-- Not analyzed.
B The reported value is less than the Contract Required Detection Limit (CRDL) but greater than or equal to the Instrument Detection Limit (IDL).
J Associated value is qualified as an estimate. The value is considered to be acceptable and usable.
U Not detected.
R Unusable.

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TABLE 4.7-12 (cont.)

SOIL QUALITY DATA
BLIND DUPLICATE SAMPLES
INORGANIC COMPOUNDS

(concentrations in mg/kg)

	SB3120 46.5-48.5'		RPD	SB3202 2-4'		RPD
	10/05/93 Sample	10/05/93 Duplicate		09/13/93 Sample	09/13/93 Duplicate	
Arsenic, total	17.4 J	19.0 J		8.0 J	9.7 J	
Cyanide, total	0.59 U	0.60 U		0.11 UJ	0.57 UJ	
Aluminum	--	--		--	--	
Antimony	--	--		--	--	
Barium	--	--		--	--	
Beryllium	--	--		--	--	
Cadmium	0.68 U	0.70 U		0.66 U	0.66 U	
Calcium	--	--		--	--	
Chromium, total	--	--		--	--	
Cobalt	--	--		--	--	
Copper	--	--		--	--	
Iron	--	--		--	--	
Lead	5.5 J	4.6 J		15.2 J	21.2 J	
Magnesium	--	--		--	--	
Manganese	--	--		--	--	
Mercury	0.02 U	0.02 U		0.12 J	0.13 J	
Nickel	--	--		--	--	
Potassium	--	--		--	--	
Selenium	0.38 BJ	0.36 R		0.47 UJ	0.47 UJ	
Silver	--	--		--	--	
Sodium	--	--		--	--	
Thallium	--	--		--	--	
Vanadium	--	--		--	--	
Zinc	--	--		--	--	

-- Not analyzed.
B The reported value is less than the Contract Required Detection Limit (CRDL) but greater than or equal to the Instrument Detection Limit (IDL).
J Associated value is qualified as an estimate. The value is considered to be acceptable and usable.
U Not detected.
R Unusable.

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TABLE 4.7-12 (cont.)

SOIL QUALITY DATA
BLIND DUPLICATE SAMPLES
INORGANIC COMPOUNDS

(concentrations in mg/kg)

	SB3512 27-29'		RPD	SB3708 17-19'		RPD
	09/21/93 Sample	09/21/93 Duplicate		09/21/93 Sample	09/21/93 Duplicate	
Arsenic, total	10.7 J	22.9 J		2.9 J	2.3 BJ	
Cyanide, total	0.62 UJ	1.0 BJ		0.12 UJ	0.87 BJ	
Aluminum	--	--		--	--	
Antimony	--	--		--	--	
Barium	--	--		--	--	
Beryllium	--	--		--	--	
Cadmium	0.73 UJ	0.64 UJ		0.70 UJ	0.70 UJ	
Calcium	--	--		--	--	
Chromium, total	--	--		--	--	
Cobalt	--	--		--	--	
Copper	--	--		--	--	
Iron	4620	--		--	--	
Lead	2.6 J	4.4 J		2.5 J	2.5 J	
Magnesium	--	--		--	--	
Manganese	--	--		--	--	
Mercury	0.04 BJ	0.05 BJ		0.02 BJ	0.04 BJ	
Nickel	--	--		--	--	
Potassium	--	--		--	--	
Selenium	0.59 BJ	0.69 BJ		0.55 BJ	0.69 BJ	
Silver	--	--		--	--	
Sodium	--	--		--	--	
Thallium	--	--		--	--	
Vanadium	--	--		--	--	
Zinc	--	--		--	--	

-- Not analyzed.
B The reported value is less than the Contract Required Detection Limit (CRDL) but greater than or equal to the Instrument Detection Limit (IDL).
J Associated value is qualified as an estimate. The value is considered to be acceptable and usable.
U Not detected.
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TABLE 4.7-12 (cont.)

SOIL QUALITY DATA
BLIND DUPLICATE SAMPLES
INORGANIC COMPOUNDS

(concentrations in mg/kg)

	SB3804 7-9'		RPD	SB4104 7-9'		RPD
	09/23/93 Sample	09/23/93 Duplicate		09/16/93 Sample	09/16/93 Duplicate	
Arsenic, total	23.3	16.2		5.3 J	3.7 J	
Cyanide, total	0.60 BJ	0.20 BJ		0.12 U	0.12 U	
Aluminum	--	--		--	--	
Antimony	--	--		--	--	
Barium	--	--		--	--	
Beryllium	--	--		--	--	
Cadmium	0.79 UJ	0.80 UJ		0.73 UJ	0.73 UJ	
Calcium	--	--		--	--	
Chromium, total	--	--		--	--	
Cobalt	--	--		--	--	
Copper	--	--		--	--	
Iron	--	--		--	--	
Lead	215	77.9	93.6	3.7	2.7	31.3
Magnesium	--	--		--	--	
Manganese	--	--		--	--	
Mercury	0.45 J	0.24 J		0.09 BJ	0.07 BJ	
Nickel	--	--		--	--	
Potassium	--	--		--	--	
Selenium	0.40 UJ	0.41 UJ		0.52 UJ	0.53 UJ	
Silver	--	--		--	--	
Sodium	--	--		--	--	
Thallium	--	--		--	--	
Vanadium	--	--		--	--	
Zinc	--	--		--	--	

-- Not analyzed.
B The reported value is less than the Contract Required Detection Limit (CRDL) but greater than or equal to the Instrument Detection Limit (IDL).
J Associated value is qualified as an estimate. The value is considered to be acceptable and usable.
U Not detected.

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TABLE 4.7-12 (cont.)

SOIL QUALITY DATA
BLIND DUPLICATE SAMPLES
INORGANIC COMPOUNDS

(concentrations in mg/kg)

	SB4308 17-19'		RPD	SB4513 29.5-31.5'		RPD
	09/15/93 Sample	09/15/93 Duplicate		09/27/93 Sample	09/27/93 Duplicate	
Arsenic, total	5.2 J	5.0 J		38.8	38.3	1.3
Cyanide, total	0.12 UJ	0.12 UJ		0.53 BJ	1.4 BJ	
Aluminum	--	--		--	--	
Antimony	--	--		--	--	
Barium	--	--		--	--	
Beryllium	--	--		--	--	
Cadmium	0.71 U	0.70 U		0.72 UJ	0.72 UJ	
Calcium	--	--		--	--	
Chromium, total	--	--		--	--	
Cobalt	--	--		--	--	
Copper	--	--		--	--	
Iron	--	--		--	--	
Lead	1.8 J	1.7 J		2.7	3.6	28.6
Magnesium	--	--		--	--	
Manganese	--	--		--	--	
Mercury	0.09 BJ	0.07 BJ		0.02 UJ	0.02 UJ	
Nickel	--	--		--	--	
Potassium	--	--		--	--	
Selenium	0.51 UJ	0.50 UJ		1.9 J	0.50 BJ	
Silver	--	--		--	--	
Sodium	--	--		--	--	
Thallium	--	--		--	--	
Vanadium	--	--		--	--	
Zinc	--	--		--	--	

-- Not analyzed.
B The reported value is less than the Contract Required Detection Limit (CRDL) but greater than or equal to the Instrument Detection Limit (IDL).
J Associated value is qualified as an estimate. The value is considered to be acceptable and usable.
U Not detected.

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TABLE 4.7-12 (cont.)

SOIL QUALITY DATA
BLIND DUPLICATE SAMPLES
INORGANIC COMPOUNDS

(concentrations in mg/kg)

	SB4608 17-19'		RPD	SB5004 7-9'		RPD
	10/07/93 Sample	10/07/93 Duplicate		10/05/93 Sample	10/05/93 Duplicate	
Arsenic, total	4.7	5.2	10.1	3.2	1.1 B	97.7
Cyanide, total	0.54 BJ	0.37 BJ		4.5	0.12 U	
Aluminum	--	--		--	--	
Antimony	--	--		--	--	
Barium	--	--		--	--	
Beryllium	--	--		--	--	
Cadmium	0.74 U	0.73 U		0.76 UJ	0.70 UJ	
Calcium	--	--		--	--	
Chromium, total	--	--		--	--	
Cobalt	--	--		--	--	
Copper	--	--		--	--	
Iron	--	--		--	--	
Lead	2.9	9.4	105.7	5.3 J	2.5 J	
Magnesium	--	--		--	--	
Manganese	--	--		--	--	
Mercury	0.02 U	0.02 U		0.29	0.09 B	105.3
Nickel	--	--		--	--	
Potassium	--	--		--	--	
Selenium	0.38 U	0.38 U		0.95 BJ	0.36 UJ	
Silver	--	--		--	--	
Sodium	--	--		--	--	
Thallium	--	--		--	--	
Vanadium	--	--		--	--	
Zinc	--	--		--	--	

-- Not analyzed.
B The reported value is less than the Contract Required Detection Limit (CRDL) but greater than or equal to the Instrument Detection Limit (IDL).
J Associated value is qualified as an estimate. The value is considered to be acceptable and usable.
U Not detected.

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TABLE 4.7-12 (cont.)

SOIL QUALITY DATA
BLIND DUPLICATE SAMPLES
INORGANIC COMPOUNDS

(concentrations in mg/kg)

	GS01		RPD	GS11		RPD
	09/01/93 Sample	09/01/93 Duplicate		08/31/93 Sample	08/31/93 Duplicate	
Arsenic, total	4.5 J	5.2 J		54.3 J	27.9 J	
Cyanide, total	0.12 BJ	0.41 BJ		0.64 BJ	1.9 BJ	
Aluminum	--	--		--	--	
Antimony	--	--		--	--	
Barium	--	--		--	--	
Beryllium	--	--		--	--	
Cadmium	0.69 UJ	0.93 BJ		0.65 UJ	0.64 UJ	
Calcium	--	--		--	--	
Chromium, total	--	--		--	--	
Cobalt	--	--		--	--	
Copper	--	--		--	--	
Iron	--	--		--	--	
Lead	22.7	19.1	17.2	128	39.1	106.4
Magnesium	--	--		--	--	
Manganese	--	--		--	--	
Mercury	0.09 BJ	0.10 J		0.28 J	0.30 J	
Nickel	--	--		--	--	
Potassium	--	--		--	--	
Selenium	0.49 UJ	0.55 BJ		0.65 BJ	0.46 UJ	
Silver	--	--		--	--	
Sodium	--	--		--	--	
Thallium	--	--		--	--	
Vanadium	--	--		--	--	
Zinc	--	--		--	--	

-- Not analyzed.
B The reported value is less than the Contract Required Detection Limit (CRDL) but greater than or equal to the Instrument Detection Limit (IDL).
J Associated value is qualified as an estimate. The value is considered to be acceptable and usable.
U Not detected.

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TABLE 4.7-12 (cont.)

SOIL QUALITY DATA
BLIND DUPLICATE SAMPLES
INORGANIC COMPOUNDS

(concentrations in mg/kg)

	DS03		RPD
	10/04/93 Sample	10/04/93 Duplicate	
Arsenic, total	3.9	3.5	10.8
Cyanide, total	0.13 U	0.13 U	
Aluminum	1380 J	1470 J	
Antimony	2.4 U	2.4 U	
Barium	11.4 BJ	13.2 BJ	
Beryllium	0.07 B	0.20 B	96.3
Cadmium	0.61 U	0.61 U	
Calcium	28000	33100	16.7
Chromium, total	4.9	5.5	11.5
Cobalt	2.1 B	3.1 B	38.5
Copper	48.4	18.7	88.5
Iron	4660	7540	47.2
Lead	13.6 J	9.6 J	
Magnesium	14600	17400	17.5
Manganese	116	138	17.3
Mercury	0.02 UJ	0.02 UJ	
Nickel	5.7 B	15.2	90.9
Potassium	176 B	294 B	50.2
Selenium	0.32 UJ	0.32 UJ	
Silver	0.34 U	0.33 U	
Sodium	123 BJ	158 BJ	
Thallium	0.29 U	0.29 U	
Vanadium	9.1 B	9.9 B	8.4
Zinc	540	855	45.2

-- Not analyzed.
B The reported value is less than the Contract Required Detection Limit (CRDL) but greater than or equal to the Instrument Detection Limit (IDL).
J Associated value is qualified as an estimate. The value is considered to be acceptable and usable.
U Not detected.

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TABLE 4.7-13

SOIL QUALITY DATA
BLIND DUPLICATE SAMPLES
VOLATILE ORGANIC COMPOUNDS

(concentrations in ug/kg)

	BS06		RPD	SS02		RPD
	03/25/92 Sample	03/25/92 Duplicate		03/06/92 Sample	03/06/92 Duplicate	
BETX COMPOUNDS						
Benzene	2 J	11 U		12 U	12 U	
Ethyl Benzene	11 U	11 U		12 U	12 U	
Toluene	3 J	11 U		12 U	12 U	
Xylenes	4 J	1 J		4 J	5 J	
Sum of BETX	9 a	1 a		4 a	5 a	
CHLORINATED COMPOUNDS						
Bromodichloromethane	11 U	11 U		12 U	12 U	
Carbon Tetrachloride	11 U	11 U		12 U	12 U	
Chloroethane	11 U	11 U		12 U	12 U	
Chloroform	11 U	11 U		12 U	12 U	
Chloromethane	11 U	11 U		12 U	12 U	
Chlorobenzene	11 U	11 U		12 U	12 U	
Chlorodibromomethane	11 U	11 U		12 U	12 U	
1,1-Dichloroethane	11 U	11 U		12 U	12 U	
1,2-Dichloroethane	11 U	11 U		12 U	12 U	
1,1-Dichloroethylene	11 U	11 U		12 U	12 U	
1,2-Dichloroethylene	11 U	11 U		12 U	12 U	
1,2-Dichloropropane	11 U	11 U		12 U	12 U	
Cis-1,3-Dichloro-1-propene	11 U	11 U		12 U	12 U	
Trans-1,3-Dichloro-1-propene	11 U	11 U		12 U	12 U	
Methylene Chloride	11 U	11 U		33 U	49 U	
Styrene	11 U	11 U		12 U	12 U	
1,1,2,2-Tetrachloroethane	11 U	11 U		12 U	12 U	
Tetrachloroethylene	11 U	11 U		12 U	12 U	
1,1,1-Trichloroethane	11 U	11 U		12 U	12 U	
1,1,2-Trichloroethane	11 U	11 U		12 U	12 U	
Trichloroethylene	11 U	11 U		12 U	12 U	
Vinyl Chloride	11 U	11 U		12 U	12 U	
OTHER COMPOUNDS						
Acetone	11 U	11 U		36 U	37 U	
Bromoform	11 U	11 U		12 U	12 U	
Bromomethane	11 U	11 U		12 U	12 U	
Carbondisulfide	11 U	11 U		3 J	4 J	
2-Hexanone	11 U	11 U		12 U	12 U	
Methyl Ethyl Ketone	11 U	11 U		12 U	12 U	
Methyl Isobutyl Ketone	11 U	11 U		12 U	12 U	

ND Not detected.
a Calculated using some or all values that are estimates.
J Associated value is qualified as an estimate. The value is considered to be acceptable and usable.
U Not detected. Note that the laboratory would have reported, with a J qualifier, any detected concentration below the stated quantitation limit but above the laboratory's method detection limit. The laboratory's method detection limit is typically about 10 percent of the stated quantitation limit in the table.

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TABLE 4.7-13 (cont.)

SOIL QUALITY DATA
BLIND DUPLICATE SAMPLES
VOLATILE ORGANIC COMPOUNDS

(concentrations in ug/kg)

	TT1501 5.5'		RPD	SB3007 14.5-16.5'		RPD
	03/17/92 Sample	03/17/92 Duplicate		10/05/93 Sample	10/05/93 Duplicate	
BETX COMPOUNDS						
Benzene	12 U	1 J		11 U	11 U	
Ethyl Benzene	12 U	12 U		11 U	11 U	
Toluene	12 U	2 J		11 U	11 U	
Xylenes	12 U	6 J		11 U	11 U	
Sum of BETX	ND	9 a		ND	ND	
CHLORINATED COMPOUNDS						
Bromodichloromethane	12 U	12 U		11 U	11 U	
Carbon Tetrachloride	12 U	12 U		11 U	11 U	
Chloroethane	12 U	12 U		11 U	11 U	
Chloroform	12 U	12 U		11 U	11 U	
Chloromethane	12 U	12 U		11 U	11 UJ	
Chlorobenzene	12 U	12 U		11 U	11 U	
Chlorodibromomethane	12 U	12 U		11 U	11 U	
1,1-Dichloroethane	12 U	12 U		11 U	11 U	
1,2-Dichloroethane	12 U	12 U		11 U	11 U	
1,1-Dichloroethylene	12 U	12 U		11 U	11 U	
1,2-Dichloroethylene	12 U	12 U		11 U	11 U	
1,2-Dichloropropane	12 U	12 U		11 U	11 U	
Cis-1,3-Dichloro-1-propene	12 U	12 U		11 U	11 U	
Trans-1,3-Dichloro-1-propene	12 U	12 U		11 U	11 U	
Methylene Chloride	16 U	22 U		20 U	11	
Styrene	12 U	12 U		11 U	11 U	
1,1,2,2-Tetrachloroethane	12 U	12 U		11 U	11 U	
Tetrachloroethylene	12 U	12 U		11 U	11 U	
1,1,1-Trichloroethane	12 U	12 U		11 U	11 U	
1,1,2-Trichloroethane	12 U	12 U		11 U	11 U	
Trichloroethylene	12 U	12 U		11 U	11 U	
Vinyl Chloride	12 U	12 U		11 U	11 U	
OTHER COMPOUNDS						
Acetone	23 U	87 U		47 U	11 U	
Bromoform	12 U	12 U		11 U	11 U	
Bromomethane	12 U	12 U		11 U	11 U	
Carbondisulfide	12 U	1 J		11 U	11 U	
2-Hexanone	12 U	12 U		11 U	11 U	
Methyl Ethyl Ketone	12 U	40		11 U	11 U	
Methyl Isobutyl Ketone	12 U	12 U		11 U	11 U	

ND Not detected.
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TABLE 4.7-13 (cont.)

SOIL QUALITY DATA
BLIND DUPLICATE SAMPLES
VOLATILE ORGANIC COMPOUNDS

(concentrations in ug/kg)

	DS03		RPD
	10/04/93 Sample	10/04/93 Duplicate	
BETX COMPOUNDS			
Benzene	10 U	10 U	
Ethyl Benzene	10 U	10 U	
Toluene	10 U	10 U	
Xylenes	10 U	10 U	
Sum of BETX	ND	ND	
CHLORINATED COMPOUNDS			
Bromodichloromethane	10 U	10 U	
Carbon Tetrachloride	10 U	10 U	
Chloroethane	10 U	10 U	
Chloroform	10 U	10 U	
Chloromethane	10 U	10 U	
Chlorobenzene	10 U	10 U	
Chlorodibromomethane	10 U	10 U	
1,1-Dichloroethane	10 U	10 U	
1,2-Dichloroethane	10 U	10 U	
1,1-Dichloroethylene	10 U	10 U	
1,2-Dichloroethylene	10 U	10 U	
1,2-Dichloropropane	10 U	10 U	
Cis-1,3-Dichloro-1-propene	10 U	10 U	
Trans-1,3-Dichloro-1-propene	10 U	10 U	
Methylene Chloride	2 J	3 J	
Styrene	10 U	10 U	
1,1,2,2-Tetrachloroethane	10 U	10 U	
Tetrachloroethylene	10 U	10 U	
1,1,1-Trichloroethane	10 U	10 U	
1,1,2-Trichloroethane	10 U	10 U	
Trichloroethylene	10 U	10 U	
Vinyl Chloride	10 U	10 U	
OTHER COMPOUNDS			
Acetone	14	13	7.4
Bromoform	10 U	10 U	
Bromomethane	10 U	10 U	
Carbondisulfide	10 U	10 U	
2-Hexanone	10 U	10 U	
Methyl Ethyl Ketone	10 U	10 U	
Methyl Isobutyl Ketone	10 U	10 U	

ND Not detected.
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TABLE 4.7-13 (cont.)

SOIL QUALITY DATA
BLIND DUPLICATE SAMPLES
VOLATILE ORGANIC COMPOUNDS

(concentrations in ug/kg)

	TT2502 2'		RPD	SB1608 17-19'		RPD
	10/06/93 Sample	10/06/93 Duplicate		09/29/93 Sample	09/29/93 Duplicate	
BETX COMPOUNDS						
Benzene	1.4	3.0	72.7	0.4 J	1.2 U	
Ethyl Benzene	1.2 U	1.2 U		1.1 U	1.2 U	
Toluene	0.5 J	1.0 J		0.5 J	1.2 U	
m & p Xylene	0.3 J	0.6 J		0.4 J	2.4 U	
o-Xylene	1.2 U	0.3 J		1.1 U	1.2 U	
Sum of BETX	2.2 a	4.9 a		1.3 a	ND	

	SB1713 29.5-31.5'		RPD	SB1812 27-29'		RPD
	09/29/93 Sample	09/29/93 Duplicate		09/30/93 Sample	09/30/93 Duplicate	
BETX COMPOUNDS						
Benzene	36	45	22.2	14	18	25.0
Ethyl Benzene	1.2 J	1.2 U		1.2 U	1.2 U	
Toluene	1.8	2.6	36.4	4.4	5.0	22.2
m & p Xylene	2.4 U	2.5 U		2.4 U	2.5 U	
o-Xylene	1.2 U	1.3 J		1.2 U	1.2 U	
Sum of BETX	39 a	48.9 a		18.4	23	

	SB1912 27-29'		RPD	SB2413 29.5-31.5'		RPD
	09/30/93 Sample	09/30/93 Duplicate		09/28/93 Sample	09/28/93 Duplicate	
BETX COMPOUNDS						
Benzene	6.6	9.2	32.9	6.8	2.9	80.4
Ethyl Benzene	1.3 U	1.3 U		1.1 J	1.1 U	
Toluene	1.3 U	0.5 J		5.8	2.9	66.7
m & p Xylene	2.5 U	2.6 U		2.4	1.3 J	
o-Xylene	1.3 U	1.3 U		1.0 J	0.6 J	
Sum of BETX	6.6	9.7 a		17.1 a	7.7 a	

	SB2612 27-29'		RPD
	09/28/93 Sample	09/28/93 Duplicate	
BETX COMPOUNDS			
Benzene	1.9	1.1 U	
Ethyl Benzene	1.1 U	1.1 U	
Toluene	3.0	5.1	51.9
m & p Xylene	1.6 J	2.5	
o-Xylene	1.8	2.6	36.4
Sum of BETX	8.3 a	10.2	

-- Not analyzed.
ND Not detected.
a Calculated using some or all values that are estimates.
J Associated value is qualified as an estimate. The value is considered to be acceptable and usable.
U Not detected. Note that the laboratory would have reported, with a J qualifier, any detected concentration below the stated quantitation limit but above the laboratory's method detection limit. The laboratory's method detection limit is typically about 10 percent of the stated quantitation limit in the table.

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TABLE 4.7-13 (cont.)

SOIL QUALITY DATA
BLIND DUPLICATE SAMPLES
VOLATILE ORGANIC COMPOUNDS

(concentrations in ug/kg)

	SB3120 46.5-48.5'		RPD	SB3202 2-4'		RPD
	10/05/93 Sample	10/05/93 Duplicate		09/13/93 Sample	09/13/93 Duplicate	
BETX COMPOUNDS						
Benzene	3.5	3.3	5.9	1.2 U	1.2 U	
Ethyl Benzene	1.1 U	1.1 U		1.2 U	1.2 U	
Toluene	0.3 J	0.3 J		0.3 J	0.3 J	
m & p Xylene	2.2 U	2.1 U		2.3 U	2.4 U	
o-Xylene	1.1 U	1.1 U		1.2 U	1.2 U	
Sum of BETX	3.8 a	3.6 a		0.3 a	0.3 a	

	SB3512 27-29'		RPD	SB3708 17-19'		RPD
	09/21/93 Sample	09/21/93 Duplicate		09/21/93 Sample	09/21/93 Duplicate	
BETX COMPOUNDS						
Benzene	5.8	14	82.8	1.1 U	1.2 U	
Ethyl Benzene	1.2 U	1.2 U		1.1 U	1.2 U	
Toluene	9.4	21	76.3	1.1 U	1.2 U	
m & p Xylene	0.3 J	2.4 U		2.3 U	2.3 U	
o-Xylene	1.2 U	1.2 U		1.1 U	1.2 U	
Sum of BETX	15.5 a	35		ND	ND	

	SB3804 7-9'		RPD	SB4104 7-9'		RPD
	09/23/93 Sample	09/23/93 Duplicate		09/16/93 Sample	09/16/93 Duplicate	
BETX COMPOUNDS						
Benzene	1.2 U	1.2 U		1.2 U	1.2 U	
Ethyl Benzene	1.2 U	1.2 U		7.5	4.2	56.4
Toluene	1.2 U	1.2 U		1.2 U	1.2 U	
m & p Xylene	2.4 U	2.3 U		3.1	1.7 J	
o-Xylene	1.2 U	1.2 U		0.5 J	0.5 J	
Sum of BETX	ND	ND		10.6 a	6.4 a	

	SB4308 17-19'		RPD	SB4513 29.5-31.5'		RPD
	09/15/93 Sample	09/15/93 Duplicate		09/27/93 Sample	09/27/93 Duplicate	
BETX COMPOUNDS						
Benzene	1.3	1.1 J		11	7.6	36.6
Ethyl Benzene	1.1 J	0.8 J		3.4	4.3	23.4
Toluene	1.2 U	1.2 U		2.6	2.0	26.1
m & p Xylene	0.2 J	2.3 U		2.3 U	2.4 U	
o-Xylene	1.2 U	1.2 U		0.9 J	0.7 J	
Sum of BETX	2.6 a	1.9 a		17.9 a	14.6 a	

-- Not analyzed.
ND Not detected.
a Calculated using some or all values that are estimates.
J Associated value is qualified as an estimate. The value is considered to be acceptable and usable.
U Not detected. Note that the laboratory would have reported, with a J qualifier, any detected concentration below the stated quantitation limit but above the laboratory's method detection limit. The laboratory's method detection limit is typically about 10 percent of the stated quantitation limit in the table.

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TABLE 4.7-13 (cont.)

SOIL QUALITY DATA
BLIND DUPLICATE SAMPLES
VOLATILE ORGANIC COMPOUNDS

(concentrations in ug/kg)

	SB4608 17-19'		RPD	SB5004 7-9'		RPD
	10/07/93 Sample	10/07/93 Duplicate		10/05/93 Sample	10/05/93 Duplicate	
BETX COMPOUNDS						
Benzene	1.0 J	0.7 J		2.3	6.0	89.2
Ethyl Benzene	3.3	2.5	27.6	0.4 J	0.7 J	
Toluene	1.2 U	2.1		4.5	10	75.9
m & p Xylene	11	8.5	25.6	5.2	12	79.1
o-Xylene	4.7	3.8	21.2	2.9	6.1	71.1
Sum of BETX	20 a	17.6 a		15.3 a	34.8 a	

	GS01		RPD	GS11		RPD
	09/01/93 Sample	09/01/93 Duplicate		08/31/93 Sample	08/31/93 Duplicate	
BETX COMPOUNDS						
Benzene	1.1 U	1.2 U		1.1 U	1.1 U	
Ethyl Benzene	1.1 U	1.2 U		1.1 U	1.1 U	
Toluene	0.5 J	1.2 U		1.1 U	1.1 UJ	
m & p Xylene	2.3 U	2.5 UJ		2.2 U	2.2 U	
o-Xylene	1.1 U	1.2 U		1.1 U	1.1 U	
Sum of BETX	0.5 a	ND		ND	ND	

-- Not analyzed.
ND Not detected.
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TABLE 4.7-14

SOIL QUALITY DATA
BLIND DUPLICATE SAMPLES
SEMIVOLATILE ORGANIC COMPOUNDS

(concentrations in ug/kg)

	DS03		RPD	GS01		RPD
	10/04/93 Sample	10/04/93 Duplicate		09/01/93 Sample	09/01/93 Duplicate	
CARCINOGENIC COMPOUNDS						
Benzo(a)anthracene	18000	17000	5.7	74 J	54 J	
Benzo(b)fluoranthene	17000	17000	0	80 J	65 J	
Benzo(k)fluoranthene	13000	11000	16.7	95 J	80 J	
Benzo(a)pyrene	12000	10000	18.2	75 J	57 J	
Carbazole	1300 J	2900 J		48 U	52 U	
Chrysene	21000	21000	0	94 J	75 J	
Dibenzo(ah)anthracene	1500 J	1400 J		52 U	56 U	
Indeno(1,2,3,cd)pyrene	3200 J	3000 J		47 U	52 U	
Sum of Carcinogens	87000 a	83300 a		418 a	331 a	
PROJECT SPECIFIC NON-CARCINOGENIC COMPOUNDS						
Acenaphthene	4400	4400	0	42 U	45 U	
Acenaphthylene	1700 J	1600 J		46 U	50 U	
Anthracene	7400	16000	73.5	39 U	42 U	
Benzo(ghi)perylene	2600 J	2600 J		46 U	50 U	
Dibenzofuran	3200 J	3400 J		45 U	49 U	
Fluoranthene	38000	35000	8.2	170 J	130 J	
Fluorene	4000	4500	11.8	48 U	52 U	
2-Methylnaphthalene	890 J	610 J		54 U	59 U	
Naphthalene	3900	2300 J		51 U	55 U	
Phenanthrene	16000	16000	0	93 J	69 J	
Pyrene	38000	35000	8.2	130 J	96 J	
Sum of Non-Carcinogens	120090 a	121410 a		393 a	295 a	
Sum of Total PAH Compounds	207090 a	204710 a		811 a	626 a	
PHENOLIC COMPOUNDS						
4-Chloro-3-methylphenol	430 U	440 U		--	--	
2-Chlorophenol	480 U	490 U		--	--	
o-Cresol	340 U	350 U		38 U	41 U	
p-Cresol	370 U	370 U		41 U	44 U	
2,4-Dichlorophenol	330 U	330 U		--	--	
2,4-Dimethylphenol	2300 U	2300 U		250 U	270 U	
2,4-Dinitrophenol	850 U	860 U		--	--	
2-Methyl-4,6-dinitrophenol	1500 U	1500 U		--	--	
2-Nitrophenol	520 U	530 U		--	--	
4-Nitrophenol	2500 U	2500 U		--	--	
Pentachlorophenol	550 U	560 U		--	--	
Phenol	440 U	450 U		49 U	53 U	
2,4,5-Trichlorophenol	550 U	560 U		--	--	
2,4,6-Trichlorophenol	390 U	400 U		--	--	

-- Not analyzed.
ND Not detected.
a Calculated using some or all values that are estimates.
J Associated value is qualified as an estimate. The value is considered to be acceptable and usable.
U Not detected.
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TABLE 4.7-14 (cont.)

SOIL QUALITY DATA
BLIND DUPLICATE SAMPLES
SEMIVOLATILE ORGANIC COMPOUNDS

(concentrations in ug/kg)

	DS03		RPD	GS01		RPD
	10/04/93 Sample	10/04/93 Duplicate		09/01/93 Sample	09/01/93 Duplicate	
OTHER SEMIVOLATILE ORGANIC COMPOUNDS						
Bis(2-chloroethoxy)methane	480 U	480 U		--	--	
Bis(2-chloroethyl)ether	550 U	560 U		--	--	
Bis(2-chloroisopropyl)ether	470 U	480 U		--	--	
Bis(2-ethylhexyl)phthalate	1100 U	1100 U		--	--	
4-Bromophenyl phenyl ether	310 U	320 U		--	--	
Butyl benzyl phthalate	440 U	440 U		--	--	
4-Chloroaniline	600 U	600 U		--	--	
2-Chloronaphthalene	420 U	420 U		--	--	
4-Chlorophenyl phenyl ether	390 U	390 U		--	--	
Di-n-butyl phthalate	880 U	890 U		--	--	
Di-n-octyl phthalate	570 U	580 U		--	--	
1,2-Dichlorobenzene	520 U	520 U		--	--	
1,3-Dichlorobenzene	530 U	540 U		--	--	
1,4-Dichlorobenzene	520 U	530 U		--	--	
3,3-Dichlorobenzidine	1600 U	1700 U		--	--	
Diethyl phthalate	480 U	480 U		--	--	
Dimethyl phthalate	450 U	450 U		--	--	
2,4-Dinitrotoluene	530 U	530 U		--	--	
2,6-Dinitrotoluene	470 U	470 U		--	--	
Hexachlorobenzene	330 U	330 U		--	--	
Hexachlorobutadiene	490 U	490 U		--	--	
Hexachlorocyclopentadiene	420 U	430 U		--	--	
Hexachloroethane	480 U	490 U		--	--	
Isophorone	500 U	500 U		--	--	
N-Nitrosodi-n-propylamine	430 U	430 U		--	--	
N-Nitrosodiphenylamine	380 U	380 U		--	--	
2-Nitroaniline	380 U	390 U		--	--	
3-Nitroaniline	1000 U	1000 U		--	--	
4-Nitroaniline	1300 U	1300 U		--	--	
Nitrobenzene	480 U	490 U		--	--	
1,2,4-Trichlorobenzene	520 U	520 U		--	--	

-- Not analyzed.
U Not detected.
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TABLE 4.7-14 (cont.)

SOIL QUALITY DATA
BLIND DUPLICATE SAMPLES
SEMIVOLATILE ORGANIC COMPOUNDS

(concentrations in ug/kg)

	GS11		RPD	SB1608 17-19'		RPD
	08/31/93 Sample	08/31/93 Duplicate		09/29/93 Sample	09/29/93 Duplicate	
CARCINOGENIC COMPOUNDS						
Benzo(a)anthracene	8000	11000	31.6	47 U	49 U	
Benzo(b)fluoranthene	8600	8700	1.2	33 U	35 U	
Benzo(k)fluoranthene	7300	7500	2.7	64 U	67 U	
Benzo(a)pyrene	6900	7200	4.3	48 U	50 U	
Carbazole	560 J	2600 J		48 U	50 U	
Chrysene	9400	12000	24.3	39 U	40 U	
Dibenzo(ah)anthracene	2900 J	3000 J		52 U	53 U	
Indeno(1,2,3,cd)pyrene	4600	4300	6.7	47 U	49 U	
Sum of Carcinogens	48260 a	56300 a		ND	ND	
PROJECT SPECIFIC NON-CARCINOGENIC COMPOUNDS						
Acenaphthene	410 U	430 J		42 U	43 U	
Acenaphthylene	1700 J	3400 J		46 U	48 U	
Anthracene	1500 J	4200		39 U	40 U	
Benzo(ghi)perylene	4100	3800	7.6	46 U	47 U	
Dibenzofuran	760 J	2800 J		45 U	47 U	
Fluoranthene	9100	15000	49.0	52 U	54 U	
Fluorene	590 J	6000		48 U	49 U	
2-Methylnaphthalene	910 J	2700 J		54 U	56 U	
Naphthalene	2500 J	3400 J		51 U	52 U	
Phenanthrene	4400	21000	130.7	44 U	51 J	
Pyrene	7500	11000	37.8	46 U	48 U	
Sum of Non-Carcinogens	33060 a	73730 a		ND	51 a	
Sum of Total PAH Compounds	81320 a	130030 a		ND	51 a	
PHENOLIC COMPOUNDS						
4-Chloro-3-methylphenol	--	--		--	--	
2-Chlorophenol	--	--		--	--	
o-Cresol	370 U	370 U		38 U	39 U	
p-Cresol	400 U	520 J		41 U	42 U	
2,4-Dichlorophenol	--	--		--	--	
2,4-Dimethylphenol	2500 U	2500 U		250 U	260 U	
2,4-Dinitrophenol	--	--		--	--	
2-Methyl-4,6-dinitrophenol	--	--		--	--	
2-Nitrophenol	--	--		--	--	
4-Nitrophenol	--	--		--	--	
Pentachlorophenol	--	--		--	--	
Phenol	480 U	480 U		49 U	51 U	
2,4,5-Trichlorophenol	--	--		--	--	
2,4,6-Trichlorophenol	--	--		--	--	

-- Not analyzed.
ND Not detected.
a Calculated using some or all values that are estimates.
J Associated value is qualified as an estimate. The value is considered to be acceptable and usable.
U Not detected.

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TABLE 4.7-14 (cont.)

SOIL QUALITY DATA
BLIND DUPLICATE SAMPLES
SEMIVOLATILE ORGANIC COMPOUNDS

(concentrations in ug/kg)

	SB1713 29.5-31.5'		RPD	SB1812 27-29'		RPD
	09/29/93 Sample	09/29/93 Duplicate		09/30/93 Sample	09/30/93 Duplicate	
CARCINOGENIC COMPOUNDS						
Benzo(a)anthracene	250 U	500 U		50 U	51 U	
Benzo(b)fluoranthene	180 U	360 U		36 U	36 U	
Benzo(k)fluoranthene	350 U	690 U		69 U	70 U	
Benzo(a)pyrene	260 U	520 U		52 U	53 U	
Carbazole	260 U	520 U		52 U	52 U	
Chrysene	210 U	420 U		42 U	42 U	
Dibenzo(ah)anthracene	280 U	550 U		55 U	56 U	
Indeno(1,2,3,cd)pyrene	250 U	510 U		51 U	52 U	
Sum of Carcinogens	ND	ND		ND	ND	
PROJECT SPECIFIC NON-CARCINOGENIC COMPOUNDS						
Acenaphthene	220 U	450 U		45 U	45 U	
Acenaphthylene	250 U	500 U		50 U	50 U	
Anthracene	210 U	410 U		41 U	42 U	
Benzo(ghi)perylene	250 U	490 U		49 U	50 U	
Dibenzofuran	240 U	480 U		48 U	49 U	
Fluoranthene	280 U	560 U		56 U	56 U	
Fluorene	260 U	510 U		51 U	52 U	
2-Methylnaphthalene	290 U	580 U		58 U	59 U	
Naphthalene	270 U	540 U		54 U	55 U	
Phenanthrene	230 U	470 U		47 U	47 U	
Pyrene	250 U	500 U		50 U	50 U	
Sum of Non-Carcinogens	ND	ND		ND	ND	
Sum of Total PAH Compounds	ND	ND		ND	ND	
PHENOLIC COMPOUNDS						
4-Chloro-3-methylphenol	--	--		--	--	
2-Chlorophenol	--	--		--	--	
o-Cresol	1800 J	1700 J		440	440	0
p-Cresol	15000	16000	6.5	800	780	2.5
2,4-Dichlorophenol	--	--		--	--	
2,4-Dimethylphenol	3700	3500 J		2500	2500	0
2,4-Dinitrophenol	--	--		--	--	
2-Methyl-4,6-dinitrophenol	--	--		--	--	
2-Nitrophenol	--	--		--	--	
4-Nitrophenol	--	--		--	--	
Pentachlorophenol	--	--		--	--	
Phenol	5500	5800	5.3	730	680	7.1
2,4,5-Trichlorophenol	--	--		--	--	
2,4,6-Trichlorophenol	--	--		--	--	

-- Not analyzed.
ND Not detected.
J Associated value is qualified as an estimate. The value is considered to be acceptable and usable.
U Not detected.
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TABLE 4.7-14 (cont.)

SOIL QUALITY DATA
BLIND DUPLICATE SAMPLES
SEMIVOLATILE ORGANIC COMPOUNDS

(concentrations in ug/kg)

	SB1912 27-29'		RPD	SB2004 7-9'		RPD
	09/30/93 Sample	09/30/93 Duplicate		10/04/93 Sample	10/04/93 Duplicate	
CARCINOGENIC COMPOUNDS						
Benzo(a)anthracene	52 U	53 U		52 U	51 U	
Benzo(b)fluoranthene	37 U	38 U		37 U	36 U	
Benzo(k)fluoranthene	72 U	73 U		71 U	70 U	
Benzo(a)pyrene	54 U	55 U		53 U	53 U	
Carbazole	53 U	54 U		75 J	59 J	
Chrysene	43 U	44 U		68 J	42 U	
Dibenzo(ah)anthracene	57 U	58 U		57 U	56 U	
Indeno(1,2,3,cd)pyrene	53 U	53 U		52 U	52 U	
Sum of Carcinogens	ND	ND		143 a	59 a	
PROJECT SPECIFIC NON-CARCINOGENIC COMPOUNDS						
Acenaphthene	46 U	47 U		46 U	45 U	
Acenaphthylene	52 U	52 U		330 J	250 J	
Anthracene	43 U	44 U		64 J	42 U	
Benzo(ghi)perylene	51 U	52 U		50 U	50 U	
Dibenzofuran	50 U	51 U		170 J	180 J	
Fluoranthene	58 U	59 U		91 J	56 U	
Fluorene	53 U	54 U		100 J	74 J	
2-Methylnaphthalene	60 U	61 U		59 U	59 U	
Naphthalene	56 U	57 U		240 J	160 J	
Phenanthrene	48 U	49 U		130 J	47 U	
Pyrene	52 U	52 U		71 J	50 U	
Sum of Non-Carcinogens	ND	ND		1196 a	664 a	
Sum of Total PAH Compounds	ND	ND		1339 a	723 a	
PHENOLIC COMPOUNDS						
4-Chloro-3-methylphenol	--	--		--	--	
2-Chlorophenol	--	--		--	--	
o-Cresol	42 U	42 U		41 U	41 U	
p-Cresol	45 U	46 U		45 U	44 U	
2,4-Dichlorophenol	--	--		--	--	
2,4-Dimethylphenol	280 U	280 U		280 U	270 U	
2,4-Dinitrophenol	--	--		--	--	
2-Methyl-4,6-dinitrophenol	--	--		--	--	
2-Nitrophenol	--	--		--	--	
4-Nitrophenol	--	--		--	--	
Pentachlorophenol	--	--		--	--	
Phenol	54 U	55 U		54 U	130 J	
2,4,5-Trichlorophenol	--	--		--	--	
2,4,6-Trichlorophenol	--	--		--	--	

-- Not analyzed.
ND Not detected.
a Calculated using some or all values that are estimates.
J Associated value is qualified as an estimate. The value is considered to be acceptable and usable.
U Not detected.

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TABLE 4.7-14 (cont.)

SOIL QUALITY DATA
BLIND DUPLICATE SAMPLES
SEMIVOLATILE ORGANIC COMPOUNDS

(concentrations in ug/kg)

	SB2012 27-29'		RPD	SB2413 29.5-31.5'		RPD
	10/04/93 Sample	10/01/93 Duplicate		09/28/93 Sample	09/28/93 Duplicate	
CARCINOGENIC COMPOUNDS						
Benzo(a)anthracene	2600 U	2000		480 U	450 U	
Benzo(b)fluoranthene	1800 U	2500		340 U	320 U	
Benzo(k)fluoranthene	3500 U	1200		660 U	620 U	
Benzo(a)pyrene	2700 U	1400		500 U	470 U	
Carbazole	2600 U	220 J		490 U	460 U	
Chrysene	2100 U	2300		400 U	380 U	
Dibenzo(ah)anthracene	2800 U	370 J		530 U	500 U	
Indeno(1,2,3,cd)pyrene	2600 U	620		490 U	460 U	
Sum of Carcinogens	ND	10610 a		ND	ND	
PROJECT SPECIFIC NON-CARCINOGENIC COMPOUNDS						
Acenaphthene	2300 U	47 U		430 U	400 U	
Acenaphthylene	2500 U	530		470 U	450 U	
Anthracene	2100 U	660		400 U	370 U	
Benzo(ghi)perylene	2500 U	470		470 U	440 U	
Dibenzofuran	2500 U	200 J		460 U	430 U	
Fluoranthene	2900 U	2700		530 U	500 U	
Fluorene	2600 U	290 J		490 U	460 U	
2-Methylnaphthalene	3000 U	180 J		550 U	520 U	
Naphthalene	2800 U	1400		1200 J	1000 J	
Phenanthrene	2400 U	1400		450 U	420 U	
Pyrene	2600 U	2000		480 U	450 U	
Sum of Non-Carcinogens	ND	9830 a		1200 a	1000 a	
Sum of Total PAH Compounds	ND	20440 a		1200 a	1000 a	
PHENOLIC COMPOUNDS						
4-Chloro-3-methylphenol	--	--		--	--	
2-Chlorophenol	--	--		--	--	
o-Cresol	16000 J	42 U		1900 J	1900 J	
p-Cresol	59000	80 J		6800	7600	11.1
2,4-Dichlorophenol	--	--		--	--	
2,4-Dimethylphenol	14000 U	280 U		2600 U	2400 U	
2,4-Dinitrophenol	--	--		--	--	
2-Methyl-4,6-dinitrophenol	--	--		--	--	
2-Nitrophenol	--	--		--	--	
4-Nitrophenol	--	--		--	--	
Pentachlorophenol	--	--		--	--	
Phenol	160000	160 J		18000	20000	10.5
2,4,5-Trichlorophenol	--	--		--	--	
2,4,6-Trichlorophenol	--	--		--	--	

-- Not analyzed.
ND Not detected.
a Calculated using some or all values that are estimates.
J Associated value is qualified as an estimate. The value is considered to be acceptable and usable.
U Not detected.
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TABLE 4.7-14 (cont.)

SOIL QUALITY DATA
BLIND DUPLICATE SAMPLES
SEMIVOLATILE ORGANIC COMPOUNDS

(concentrations in ug/kg)

	SB2612 27-29'		RPD	SB3007 14.5-16.5'		RPD
	09/28/93 Sample	09/28/93 Duplicate		10/05/93 Sample	10/05/93 Duplicate	
CARCINOGENIC COMPOUNDS						
Benzo(a)anthracene	450 U	450 U		43 U	44 U	
Benzo(b)fluoranthene	320 U	320 U		31 U	31 U	
Benzo(k)fluoranthene	620 U	620 U		59 U	60 U	
Benzo(a)pyrene	460 U	470 U		44 U	45 U	
Carbazole	460 U	460 U		44 U	45 U	
Chrysene	370 U	380 U		36 U	36 U	
Dibenzo(ah)anthracene	490 U	500 U		47 U	48 U	
Indeno(1,2,3,cd)pyrene	450 U	460 U		43 U	44 U	
Sum of Carcinogens	ND	ND		ND	ND	
PROJECT SPECIFIC NON-CARCINOGENIC COMPOUNDS						
Acenaphthene	400 U	400 U		38 U	39 U	
Acenaphthylene	440 U	450 U		42 U	43 U	
Anthracene	370 U	370 U		35 U	36 U	
Benzo(ghi)perylene	440 U	440 U		42 U	43 U	
Dibenzofuran	430 U	430 U		41 U	42 U	
Fluoranthene	500 U	500 U		48 U	49 U	
Fluorene	450 U	460 U		44 U	45 U	
2-Methylnaphthalene	520 U	520 U		50 U	51 U	
Naphthalene	480 U	490 U		46 U	47 U	
Phenanthrene	420 U	420 U		40 U	41 U	
Pyrene	440 U	450 U		43 U	43 U	
Sum of Non-Carcinogens	ND	ND		ND	ND	
Sum of Total PAH Compounds	ND	ND		ND	ND	
PHENOLIC COMPOUNDS						
4-Chloro-3-methylphenol	--	--		44 U	45 U	
2-Chlorophenol	--	--		49 U	50 U	
o-Cresol	2700 J	5000		35 U	35 U	
p-Cresol	12000	21000	54.5	37 U	38 U	
2,4-Dichlorophenol	--	--		33 U	34 U	
2,4-Dimethylphenol	2400 U	2500 J		230 U	240 U	
2,4-Dinitrophenol	--	--		86 U	88 U	
2-Methyl-4,6-dinitrophenol	--	--		150 U	150 U	
2-Nitrophenol	--	--		53 U	54 U	
4-Nitrophenol	--	--		250 U	260 U	
Pentachlorophenol	--	--		56 U	57 U	
Phenol	29000	43000	38.9	45 U	46 U	
2,4,5-Trichlorophenol	--	--		56 U	57 U	
2,4,6-Trichlorophenol	--	--		40 U	41 U	

-- Not analyzed.
ND Not detected.
J Associated value is qualified as an estimate. The value is considered to be acceptable and usable.
U Not detected.
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TABLE 4.7-14 (cont.)

SOIL QUALITY DATA
BLIND DUPLICATE SAMPLES
SEMIVOLATILE ORGANIC COMPOUNDS

(concentrations in ug/kg)

	SB2612 27-29'		RPD	SB3007 14.5-16.5'		RPD
	09/28/93 Sample	09/28/93 Duplicate		10/05/93 Sample	10/05/93 Duplicate	
OTHER SEMIVOLATILE ORGANIC COMPOUNDS						
Bis(2-chloroethoxy)methane	--	--		48 U	49 U	
Bis(2-chloroethyl)ether	--	--		56 U	57 U	
Bis(2-chloroisopropyl)ether	--	--		48 U	49 U	
Bis(2-ethylhexyl)phthalate	--	--		110 U	150 J	
4-Bromophenyl phenyl ether	--	--		32 U	32 U	
Butyl benzyl phthalate	--	--		44 U	63 J	
4-Chloroaniline	--	--		60 U	62 U	
2-Chloronaphthalene	--	--		42 U	43 U	
4-Chlorophenyl phenyl ether	--	--		39 U	40 U	
Di-n-butyl phthalate	--	--		89 U	91 U	
Di-n-octyl phthalate	--	--		58 U	59 U	
1,2-Dichlorobenzene	--	--		52 U	53 U	
1,3-Dichlorobenzene	--	--		54 U	55 U	
1,4-Dichlorobenzene	--	--		53 U	54 U	
3,3-Dichlorobenzidine	--	--		170 U	170 U	
Diethyl phthalate	--	--		48 U	49 U	
Dimethyl phthalate	--	--		45 U	46 U	
2,4-Dinitrotoluene	--	--		53 U	54 U	
2,6-Dinitrotoluene	--	--		47 U	48 U	
Hexachlorobenzene	--	--		33 U	34 U	
Hexachlorobutadiene	--	--		49 U	50 U	
Hexachlorocyclopentadiene	--	--		43 U	44 U	
Hexachloroethane	--	--		49 U	50 U	
Isophorone	--	--		50 U	51 U	
N-Nitrosodi-n-propylamine	--	--		43 U	44 U	
N-Nitrosodiphenylamine	--	--		38 U	39 U	
2-Nitroaniline	--	--		39 U	40 U	
3-Nitroaniline	--	--		100 U	100 U	
4-Nitroaniline	--	--		130 U	130 U	
Nitrobenzene	--	--		49 U	50 U	
1,2,4-Trichlorobenzene	--	--		52 U	53 U	

-- Not analyzed.
J Associated value is qualified as an estimate. The value is considered to be acceptable and usable.
U Not detected.
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TABLE 4.7-14 (cont.)

SOIL QUALITY DATA
BLIND DUPLICATE SAMPLES
SEMIVOLATILE ORGANIC COMPOUNDS

(concentrations in ug/kg)

	SB3120 46.5-48.5'		RPD	SB3202 2-4'		RPD
	10/05/93 Sample	10/05/93 Duplicate		09/13/93 Sample	09/13/93 Duplicate	
CARCINOGENIC COMPOUNDS						
Benzo(a)anthracene	45 U	44 U		1700	1300	26.7
Benzo(b)fluoranthene	32 U	32 U		1700	1500	12.5
Benzo(k)fluoranthene	62 U	61 U		1300	1100	16.7
Benzo(a)pyrene	46 U	46 U		1400	1100	24.0
Carbazole	46 U	45 U		350 J	250 J	
Chrysene	37 U	37 U		1800	1500	18.2
Dibenzo(ah)anthracene	49 U	49 U		370 J	310 J	
Indeno(1,2,3,cd)pyrene	45 U	45 U		660	610	7.9
Sum of Carcinogens	ND	ND		9280 a	7670 a	
PROJECT SPECIFIC NON-CARCINOGENIC COMPOUNDS						
Acenaphthene	40 U	39 U		300 J	190 J	
Acenaphthylene	44 U	44 U		110 J	77 J	
Anthracene	37 U	37 U		420	260 J	
Benzo(ghi)perylene	44 U	43 U		530	510	3.8
Dibenzofuran	43 U	43 U		220 J	130 J	
Fluoranthene	50 U	49 U		2700	2300	16.0
Fluorene	45 U	45 U		300 J	170 J	
2-Methylnaphthalene	52 U	51 U		100 J	57 J	
Naphthalene	48 U	48 U		240 J	130 J	
Phenanthrene	42 U	41 U		2200	1600	31.6
Pyrene	44 U	44 U		2600	2100	21.3
Sum of Non-Carcinogens	ND	ND		9720 a	7524 a	
Sum of Total PAH Compounds	ND	ND		19000 a	15194 a	
PHENOLIC COMPOUNDS						
4-Chloro-3-methylphenol	--	--		--	--	
2-Chlorophenol	--	--		--	--	
o-Cresol	11000 J	15000		39 U	39 U	
p-Cresol	33000 J	45000		42 U	42 U	
2,4-Dichlorophenol	--	--		--	--	
2,4-Dimethylphenol	7100 J	10000		260 U	260 U	
2,4-Dinitrophenol	--	--		--	--	
2-Methyl-4,6-dinitrophenol	--	--		--	--	
2-Nitrophenol	--	--		--	--	
4-Nitrophenol	--	--		--	--	
Pentachlorophenol	--	--		--	--	
Phenol	11000 J	14000		51 U	51 U	
2,4,5-Trichlorophenol	--	--		--	--	
2,4,6-Trichlorophenol	--	--		--	--	

-- Not analyzed.
ND Not detected.
a Calculated using some or all values that are estimates.
J Associated value is qualified as an estimate. The value is considered to be acceptable and usable.
U Not detected.

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TABLE 4.7-14 (cont.)

SOIL QUALITY DATA
BLIND DUPLICATE SAMPLES
SEMIVOLATILE ORGANIC COMPOUNDS

(concentrations in ug/kg)

	SB3512 27-29'		RPD	SB3708 17-19'		RPD
	09/21/93 Sample	09/21/93 Duplicate		09/21/93 Sample	09/21/93 Duplicate	
CARCINOGENIC COMPOUNDS						
Benzo(a)anthracene	5000 U	50 U		48 U	48 U	
Benzo(b)fluoranthene	3500 U	35 U		34 U	34 U	
Benzo(k)fluoranthene	6800 U	68 U		65 U	65 U	
Benzo(a)pyrene	5100 U	51 U		49 U	49 U	
Carbazole	5100 U	51 U		49 U	49 U	
Chrysene	4100 U	41 U		39 U	39 U	
Dibenzo(ah)anthracene	5500 U	55 U		52 U	52 U	
Indeno(1,2,3,cd)pyrene	5000 U	50 U		48 U	48 U	
Sum of Carcinogens	ND	ND		ND	ND	
PROJECT SPECIFIC NON-CARCINOGENIC COMPOUNDS						
Acenaphthene	4400 U	44 U		42 U	42 U	
Acenaphthylene	4900 U	49 U		47 U	47 U	
Anthracene	4100 U	41 U		39 U	39 U	
Benzo(ghi)perylene	4900 U	49 U		46 U	46 U	
Dibenzofuran	4800 U	48 U		45 U	45 U	
Fluoranthene	5500 U	55 U		53 U	53 U	
Fluorene	5000 U	50 U		48 U	48 U	
2-Methylnaphthalene	5700 U	57 U		55 U	55 U	
Naphthalene	5400 U	54 U		51 U	51 U	
Phenanthrene	4600 U	46 U		44 U	44 U	
Pyrene	4900 U	49 U		47 U	47 U	
Sum of Non-Carcinogens	ND	ND		ND	ND	
Sum of Total PAH Compounds	ND	ND		ND	ND	
PHENOLIC COMPOUNDS						
4-Chloro-3-methylphenol	--	--		--	--	
2-Chlorophenol	--	--		--	--	
o-Cresol	25000 J	20000 J		38 U	38 U	
p-Cresol	89000	72000	21.1	41 U	41 U	
2,4-Dichlorophenol	--	--		--	--	
2,4-Dimethylphenol	27000 U	270 U		250 U	250 U	
2,4-Dinitrophenol	--	--		--	--	
2-Methyl-4,6-dinitrophenol	--	--		--	--	
2-Nitrophenol	--	--		--	--	
4-Nitrophenol	--	--		--	--	
Pentachlorophenol	--	--		--	--	
Phenol	270000	220000	20.4	49 U	59 J	
2,4,5-Trichlorophenol	--	--		--	--	
2,4,6-Trichlorophenol	--	--		--	--	

-- Not analyzed.
ND Not detected.
J Associated value is qualified as an estimate. The value is considered to be acceptable and usable.
U Not detected.
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TABLE 4.7-14 (cont.)

SOIL QUALITY DATA
BLIND DUPLICATE SAMPLES
SEMIVOLATILE ORGANIC COMPOUNDS

(concentrations in ug/kg)

	SB3804 7-9'		RPD	SB4104 7-9'		RPD
	09/23/93 Sample	09/23/93 Duplicate		09/16/93 Sample	09/16/93 Duplicate	
CARCINOGENIC COMPOUNDS						
Benzo(a)anthracene	120 J	120 J		49 U	49 U	
Benzo(b)fluoranthene	200 J	180 J		35 U	35 U	
Benzo(k)fluoranthene	200 J	210 J		67 U	67 U	
Benzo(a)pyrene	110 J	97 J		51 U	51 U	
Carbazole	50 U	49 U		210 J	160 J	
Chrysene	230 J	230 J		41 U	41 U	
Dibenzo(ah)anthracene	53 U	53 U		54 U	54 U	
Indeno(1,2,3,cd)pyrene	83 J	82 J		50 U	50 U	
Sum of Carcinogens	943 a	919 a		210 a	160 a	
PROJECT SPECIFIC NON-CARCINOGENIC COMPOUNDS						
Acenaphthene	43 U	43 U		2200	2200	0
Acenaphthylene	48 U	47 U		48 U	48 U	
Anthracene	40 U	40 U		44 J	43 J	
Benzo(ghi)perylene	86 J	89 J		48 U	48 U	
Dibenzofuran	47 U	46 U		1200	1100	8.7
Fluoranthene	490	480	2.1	54 U	54 U	
Fluorene	49 U	49 U		1400	1200	15.4
2-Methylnaphthalene	56 U	55 U		93 J	96 J	
Naphthalene	52 U	52 U		8900	8400	5.8
Phenanthrene	45 U	45 U		540	500	7.7
Pyrene	390	390	0	49 U	49 U	
Sum of Non-Carcinogens	966 a	959 a		14377 a	13539 a	
Sum of Total PAH Compounds	1909 a	1878 a		14587 a	13699 a	
PHENOLIC COMPOUNDS						
4-Chloro-3-methylphenol	--	--		--	--	
2-Chlorophenol	--	--		--	--	
o-Cresol	39 U	39 U		39 U	39 U	
p-Cresol	42 U	42 U		43 U	43 U	
2,4-Dichlorophenol	--	--		--	--	
2,4-Dimethylphenol	260 U	260 U		260 U	260 U	
2,4-Dinitrophenol	--	--		--	--	
2-Methyl-4,6-dinitrophenol	--	--		--	--	
2-Nitrophenol	--	--		--	--	
4-Nitrophenol	--	--		--	--	
Pentachlorophenol	--	--		--	--	
Phenol	51 U	50 U		51 U	51 U	
2,4,5-Trichlorophenol	--	--		--	--	
2,4,6-Trichlorophenol	--	--		--	--	

-- Not analyzed.
a Calculated using some or all values that are estimates.
J Associated value is qualified as an estimate. The value is considered to be acceptable and usable.
U Not detected.

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TABLE 4.7-14 (cont.)

SOIL QUALITY DATA
BLIND DUPLICATE SAMPLES
SEMIVOLATILE ORGANIC COMPOUNDS

(concentrations in ug/kg)

	SB4308 17-19'		RPD	SB4513 29.5-31.5'		RPD
	09/15/93 Sample	09/15/93 Duplicate		09/27/93 Sample	09/27/93 Duplicate	
CARCINOGENIC COMPOUNDS						
Benzo(a)anthracene	48 U	48 U		230 U	240 U	
Benzo(b)fluoranthene	34 U	34 U		170 U	170 U	
Benzo(k)fluoranthene	66 U	66 U		320 U	330 U	
Benzo(a)pyrene	50 U	50 U		240 U	250 U	
Carbazole	49 U	49 U		240 U	250 U	
Chrysene	40 U	40 U		190 U	200 U	
Dibenzo(ah)anthracene	53 U	53 U		250 U	270 U	
Indeno(1,2,3,cd)pyrene	49 U	49 U		230 U	250 U	
Sum of Carcinogens	ND	ND		ND	ND	
PROJECT SPECIFIC NON-CARCINOGENIC COMPOUNDS						
Acenaphthene	43 U	43 U		210 U	220 U	
Acenaphthylene	47 U	47 U		230 U	240 U	
Anthracene	40 U	40 U		190 U	200 U	
Benzo(ghi)perylene	47 U	47 U		230 U	240 U	
Dibenzofuran	46 U	46 U		220 U	230 U	
Fluoranthene	53 U	53 U		310 J	270 U	
Fluorene	49 U	49 U		240 U	250 U	
2-Methylnaphthalene	55 U	55 U		270 U	280 U	
Naphthalene	52 U	52 U		440 J	360 J	
Phenanthrene	45 U	45 U		450 J	230 U	
Pyrene	48 U	48 U		230 U	240 U	
Sum of Non-Carcinogens	ND	ND		1200 a	360 a	
Sum of Total PAH Compounds	ND	ND		1200 a	360 a	
PHENOLIC COMPOUNDS						
4-Chloro-3-methylphenol	--	--		--	--	
2-Chlorophenol	--	--		--	--	
o-Cresol	39 U	39 U		4700	4300	8.9
p-Cresol	42 U	42 U		12000	11000	8.7
2,4-Dichlorophenol	--	--		--	--	
2,4-Dimethylphenol	260 U	260 U		1700 J	1300 U	
2,4-Dinitrophenol	--	--		--	--	
2-Methyl-4,6-dinitrophenol	--	--		--	--	
2-Nitrophenol	--	--		--	--	
4-Nitrophenol	--	--		--	--	
Pentachlorophenol	--	--		--	--	
Phenol	50 U	50 U		15000	15000	0
2,4,5-Trichlorophenol	--	--		--	--	
2,4,6-Trichlorophenol	--	--		--	--	

-- Not analyzed.
ND Not detected.
a Calculated using some or all values that are estimates.
J Associated value is qualified as an estimate. The value is considered to be acceptable and usable.
U Not detected.
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TABLE 4.7-14 (cont.)

SOIL QUALITY DATA
BLIND DUPLICATE SAMPLES
SEMIVOLATILE ORGANIC COMPOUNDS

(concentrations in ug/kg)

	SB4608 17-19'		RPD	SB5004 7-9'		RPD
	10/07/93 Sample	10/07/93 Duplicate		10/05/93 Sample	10/05/93 Duplicate	
CARCINOGENIC COMPOUNDS						
Benzo(a)anthracene	100 U	100 U		1900 J	120 J	
Benzo(b)fluoranthene	73 U	72 U		980 J	79 J	
Benzo(k)fluoranthene	140 U	140 U		1400 J	90 J	
Benzo(a)pyrene	110 U	100 U		1100 J	76 J	
Carbazole	100 U	100 U		2600 J	2000	
Chrysene	85 U	83 U		1700 J	110 J	
Dibenzo(ah)anthracene	110 U	110 U		540 U	54 U	
Indeno(1,2,3,cd)pyrene	100 U	100 U		560 J	50 U	
Sum of Carcinogens	ND	ND		10240 a	2475 a	
PROJECT SPECIFIC NON-CARCINOGENIC COMPOUNDS						
Acenaphthene	91 U	90 U		440 U	280 J	
Acenaphthylene	100 U	99 U		1600 J	1100	
Anthracene	84 U	83 U		1400 J	160 J	
Benzo(ghi)perylene	100 U	98 U		700 J	65 J	
Dibenzofuran	98 U	97 U		2500 J	1300	
Fluoranthene	110 U	110 U		5100	530	162.3
Fluorene	100 U	100 U		4600	2400	62.9
2-Methylnaphthalene	120 U	120 U		2000 J	190 J	
Naphthalene	150 J	120 J		11000	2000	138.5
Phenanthrene	95 U	93 U		8500	1200	150.5
Pyrene	100 U	100 U		3400 J	370 J	
Sum of Non-Carcinogens	150 a	120 a		40800 a	9595 a	
Sum of Total PAH Compounds	150 a	120 a		51040 a	12070 a	
PHENOLIC COMPOUNDS						
4-Chloro-3-methylphenol	--	--		--	--	
2-Chlorophenol	--	--		--	--	
o-Cresol	1300	1000	26.1	390 U	230 J	
p-Cresol	3500	2700	25.8	600 J	670	
2,4-Dichlorophenol	--	--		--	--	
2,4-Dimethylphenol	2400	2100	13.3	2600 U	260 U	
2,4-Dinitrophenol	--	--		--	--	
2-Methyl-4,6-dinitrophenol	--	--		--	--	
2-Nitrophenol	--	--		--	--	
4-Nitrophenol	--	--		--	--	
Pentachlorophenol	--	--		--	--	
Phenol	4500	3300	30.8	790 J	880	
2,4,5-Trichlorophenol	--	--		--	--	
2,4,6-Trichlorophenol	--	--		--	--	

-- Not analyzed.
ND Not detected.
a Calculated using some or all values that are estimates.
J Associated value is qualified as an estimate. The value is considered to be acceptable and usable.
U Not detected.
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01/25/94

TABLE 4.7-14 (cont.)

SOIL QUALITY DATA
BLIND DUPLICATE SAMPLES
SEMIVOLATILE ORGANIC COMPOUNDS

(concentrations in ug/kg)

	TT0102 4'		RPD	TT1001 7'		RPD
	03/06/92 Sample	03/06/92 Duplicate		03/21/92 Sample	03/21/92 Duplicate	
CARCINOGENIC COMPOUNDS						
Benzo(a)anthracene	26000 J	12000 J		120000 U	140000 U	
Benzo(b)fluoranthene	18000 J	9900 J		120000 U	140000 U	
Benzo(k)fluoranthene	19000 J	11000 J		120000 U	140000 U	
Benzo(a)pyrene	18000 J	10000 J		120000 U	140000 U	
Carbazole	15000 J	8300 J		120000 U	140000 U	
Chrysene	29000 J	15000 J		120000 U	140000 U	
Dibenzo(ah)anthracene	80000 U	31000 U		120000 U	140000 U	
Indeno(1,2,3,cd)pyrene	9500 J	5600 J		120000 U	140000 U	
Sum of Carcinogens	134500 a	71800 a		ND	ND	
PROJECT SPECIFIC NON-CARCINOGENIC COMPOUNDS						
Acenaphthene	11000 J	4700 J		120000 U	140000 U	
Acenaphthylene	47000 J	25000 J		65000 J	31000 J	
Anthracene	32000 J	16000 J		120000 U	140000 U	
Benzo(ghi)perylene	80000 U	4000 J		120000 U	140000 U	
Dibenzofuran	58000 J	27000 J		17000 J	16000 J	
Fluoranthene	57000 J	32000		120000 U	140000 U	
Fluorene	96000	42000	78.3	27000 J	25000 J	
2-Methylnaphthalene	300000	120000	85.7	120000 J	110000 J	
Naphthalene	1900000	660000	96.9	610000	720000	16.5
Phenanthrene	120000	60000	66.7	23000 J	16000 J	
Pyrene	39000 J	22000 J		120000 U	140000 U	
Sum of Non-Carcinogens	2660000 a	1012700 a		862000 a	918000 a	
Sum of Total PAH Compounds	2794500 a	1084500 a		862000 a	918000 a	
PHENOLIC COMPOUNDS						
4-Chloro-3-methylphenol	80000 U	31000 U		120000 U	140000 U	
2-Chlorophenol	80000 U	31000 U		120000 U	140000 U	
o-Cresol	80000 U	31000 U		120000 U	140000 U	
p-Cresol	80000 U	31000 U		120000 U	140000 U	
2,4-Dichlorophenol	80000 U	31000 U		120000 U	140000 U	
2,4-Dimethylphenol	80000 U	31000 U		120000 U	140000 U	
2,4-Dinitrophenol	190000 U	75000 U		300000 U	340000 U	
2-Methyl-4,6-dinitrophenol	190000 U	75000 U		300000 U	340000 U	
2-Nitrophenol	80000 U	31000 U		120000 U	140000 U	
4-Nitrophenol	190000 U	75000 U		300000 U	340000 U	
Pentachlorophenol	190000 U	75000 U		300000 U	340000 U	
Phenol	80000 U	31000 U		120000 U	140000 U	
2,4,5-Trichlorophenol	190000 U	75000 U		300000 U	340000 U	
2,4,6-Trichlorophenol	80000 U	31000 U		120000 U	140000 U	

-- Not analyzed.
ND Not detected.
a Calculated using some or all values that are estimates.
J Associated value is qualified as an estimate. The value is considered to be acceptable and usable.
U Not detected. Note that the laboratory would have reported, with a J qualifier, any detected concentration below the stated quantitation limit but above the laboratory's method detection limit. The laboratory's method detection limit is typically about 10 percent of the stated quantitation limit in the table.

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TABLE 4.7-14 (cont.)

SOIL QUALITY DATA
BLIND DUPLICATE SAMPLES
SEMIVOLATILE ORGANIC COMPOUNDS

(concentrations in ug/kg)

	TT2502 2'		RPD
	10/06/93 Sample	10/06/93 Duplicate	
CARCINOGENIC COMPOUNDS			
Benzo(a)anthracene	4500	7300 J	
Benzo(b)fluoranthene	11000	16000	37.0
Benzo(k)fluoranthene	8200	8700 J	
Benzo(a)pyrene	5900	8200 J	
Carbazole	630 J	1300 U	
Chrysene	6100	9200 J	
Dibenzo(ah)anthracene	1700 J	3200 J	
Indeno(1,2,3,cd)pyrene	2400 J	4800 J	
Sum of Carcinogens	40430 a	57400 a	
PROJECT SPECIFIC NON-CARCINOGENIC COMPOUNDS			
Acenaphthene	520 J	1100 U	
Acenaphthylene	5000	6700 J	
Anthracene	1400 J	2900 J	
Benzo(ghi)perylene	1700 J	3700 J	
Dibenzofuran	3800 J	4400 J	
Fluoranthene	5300	9600 J	
Fluorene	3400 J	8300 J	
2-Methylnaphthalene	8800 J	7600 J	
Naphthalene	22000	47000	72.5
Phenanthrene	6400	18000	95.1
Pyrene	4400	8400 J	
Sum of Non-Carcinogens	62720 a	116600 a	
Sum of Total PAH Compounds	103150 a	174000 a	
PHENOLIC COMPOUNDS			
4-Chloro-3-methylphenol	--	--	
2-Chlorophenol	--	--	
o-Cresol	650 J	1000 U	
p-Cresol	1800 J	2200 J	
2,4-Dichlorophenol	--	--	
2,4-Dimethylphenol	2700 U	6700 U	
2,4-Dinitrophenol	--	--	
2-Methyl-4,6-dinitrophenol	--	--	
2-Nitrophenol	--	--	
4-Nitrophenol	--	--	
Pentachlorophenol	--	--	
Phenol	1700 J	2000 J	
2,4,5-Trichlorophenol	--	--	
2,4,6-Trichlorophenol	--	--	

-- Not analyzed.
a Calculated using some or all values that are estimates.
J Associated value is qualified as an estimate. The value is considered to be acceptable and usable.
U Not detected.
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01/25/94

TABLE 4.7-15

SOIL QUALITY DATA
BLIND DUPLICATE SAMPLES
PESTICIDES AND PCBs

(concentrations in ug/kg)

	BS06		RPD	SS02		RPD
	03/25/92 Sample	03/25/92 Duplicate		03/06/92 Sample	03/06/92 Duplicate	
PESTICIDES						
Aldrin	1.8 U	1.8 U		2.0 U	2.0 U	
a-BHC	1.8 U	1.8 U		2.0 U	2.0 U	
b-BHC	1.8 U	1.8 U		2.0 U	2.0 U	
d-BHC	1.8 U	1.8 U		2.0 U	2.0 U	
g-BHC (Lindane)	1.8 U	1.8 U		2.0 U	2.0 U	
Alpha Chlordane	28	31	10.2	2.0 U	2.0 U	
Gamma Chlordane	16	18	11.8	2.0 U	2.0 U	
4,4'-DDD	3.5 U	3.5 U		3.9 U	3.9 U	
4,4'-DDE	3.5 U	3.5 U		3.9 U	3.9 U	
4,4'-DDT	3.5 U	3.5 U		3.9 U	3.9 U	
Dieldrin	3.5 U	3.5 U		3.9 U	3.9 U	
Endosulfan I	1.8 U	1.8 U		2.0 U	2.0 U	
Endosulfan II	3.5 U	3.5 U		3.9 U	3.9 U	
Endosulfan Sulfate	3.5 U	3.5 U		3.9 U	3.9 U	
Endrin	3.5 U	3.5 U		3.9 U	3.9 U	
Endrin Aldehyde	3.5 U	3.5 U		3.9 U	3.9 U	
Endrin Ketone	3.5 U	3.5 U		3.9 U	3.9 U	
Heptachlor	2.5	2.0	22.2	2.0 U	2.0 U	
Heptachlor Epoxide	5.5 P	6.9 P	22.6	2.0 U	2.0 U	
Methyloxyclor	18 U	18 U		20 U	20 U	
PCBs						
Toxaphene	180 U	180 U		200 U	200 U	
PCB-1016	35 U	35 U		39 U	39 U	
PCB-1221	71 U	71 U		80 U	79 U	
PCB-1232	35 U	35 U		39 U	39 U	
PCB-1242	35 U	35 U		39 U	39 U	
PCB-1248	35 U	35 U		39 U	39 U	
PCB-1254	35 U	35 U		39 U	39 U	
PCB-1260	35 U	35 U		39 U	39 U	

U Not detected.
P Greater than 25 percent difference for detected concentrations between primary and confirmation GC columns. Result reported is the lower of the two values.

.048
01/25/94

TABLE 4.7-15 (cont.)

SOIL QUALITY DATA
BLIND DUPLICATE SAMPLES
PESTICIDES AND PCBs

(concentrations in ug/kg)

	SB3007 14.5-16.5'		RPD	DS03		RPD
	10/05/93 Sample	10/05/93 Duplicate		10/04/93 Sample	10/04/93 Duplicate	
PESTICIDES						
Aldrin	1.8 U	2.0 U		180 U	350 U	
a-BHC	1.8 U	2.0 U		180 U	350 U	
b-BHC	1.8 U	2.0 U		180 U	350 U	
d-BHC	1.8 U	2.0 U		180 U	350 U	
g-BHC (Lindane)	1.8 U	2.0 U		180 U	350 U	
Alpha Chlordane	1.8 U	2.0 U		180 U	350 U	
Gamma Chlordane	1.8 U	2.0 U		180 U	350 U	
4,4'-DDD	5.2	4.0 U		340 U	690 U	
4,4'-DDE	3.5 U	4.0 U		340 U	690 U	
4,4'-DDT	3.5 U	4.0 U		340 U	690 U	
Dieldrin	3.5 U	4.0 U		340 U	690 U	
Endosulfan I	1.8 U	2.0 U		180 U	350 U	
Endosulfan II	3.5 U	4.0 U		340 U	690 U	
Endosulfan Sulfate	3.5 U	4.0 U		340 U	690 U	
Endrin	3.5 U	4.0 U		340 U	690 U	
Endrin Aldehyde	3.5 U	4.0 U		340 U	690 U	
Endrin Ketone	3.5 U	4.0 U		340 U	690 U	
Heptachlor	1.8 U	2.0 U		180 U	350 U	
Heptachlor Epoxide	1.8 U	2.0 U		180 U	350 U	
Methyloxyclor	18 U	20 U		1800 U	3500 U	
Toxaphene	180 U	200 U		18000 U	35000 U	
PCBs						
PCB-1016	35 U	40 U		3400 U	6900 U	
PCB-1221	72 U	81 U		7000 U	14000 U	
PCB-1232	35 U	40 U		3400 U	6900 U	
PCB-1242	35 U	40 U		3400 U	6900 U	
PCB-1248	140	40 U		3400 U	6900 U	
PCB-1254	35 U	40 U		3400 U	6900 U	
PCB-1260	35 U	40 U		3400 U	6900 U	

U Not detected.
.048
01/25/94

TABLE 4.7-16

SOIL QUALITY DATA
BLIND DUPLICATE SAMPLES
GENERAL REMEDIATION EVALUATION PARAMETERS

(concentrations in mg/kg, unless noted otherwise)

	TT2502 2'		RPD	TT2801 5'		RPD
	10/06/93 Sample	10/06/93 Duplicate		10/06/93 Sample	10/06/93 Duplicate	
Corrosivity						
pH, standard units	7.6	7.8	2.6	--	--	
Reactivity						
Sulfide, total	10.4	<4.8		--	--	
Cyanide, total	27.3 J	26.0 J		--	--	
Total Organic Carbon	--	--		--	--	
Cation Exchange Capacity, meq/hg	--	--		--	--	
Gross Heating Value, cal/g	--	--		--	--	
Oil and Grease	--	413		1940	2800	36.3
Flash Point, degrees F	--	--		--	--	
Sulfate	--	--		--	--	
Sulfide, total	10.4	<4.8		--	--	
Iron	--	--		--	--	

-- Not analyzed.
J Associated value is qualified as an estimate. The value is considered to be acceptable and usable.
.010
01/25/94

TABLE 4.7-17

SOIL QUALITY DATA
BLIND DUPLICATE SAMPLES
TCLP ANALYSIS

(concentrations in ug/L)

	TT0604 2.5'		RPD
	03/09/92 Sample	03/09/92 Duplicate	
VOLATILE ORGANIC COMPOUNDS			
Benzene	25 U	25 U	
2-Butanone	50 U	50 U	
Carbon Tetrachloride	25 U	25 U	
Chlorobenzene	25 U	25 U	
Chloroform	25 U	25 U	
1,2-Dichloroethane	25 U	25 U	
1,1-Dichloroethene	25 U	25 U	
Tetrachloroethene	25 U	25 U	
Trichloroethene	25 U	25 U	
Vinyl Chloride	50 U	50 U	
SEMIVOLATILE ORGANIC COMPOUNDS			
m-Cresol	50 U	50 U	
o-Cresol	50 U	50 U	
p-Cresol	50 U	50 U	
1,4-Dichlorobenzene	50 U	50 U	
2,4-Dinitrotoluene	50 U	50 U	
Hexachlorobenzene	50 U	50 U	
Hexachlorobutadiene	50 U	50 U	
Hexachloroethane	50 U	50 U	
Nitrobenzene	50 U	50 U	
Pentachlorophenol	250 U	250 U	
Pyridine	250 U	250 U	
2,4,5-Trichlorophenol	250 U	250 U	
2,4,6-Trichlorophenol	50 U	50 U	
PESTICIDES			
g-BHC (Lindane)	2 U	2 U	
Chlordane	10 U	10 U	
2,4-D	100 U	100 U	
Endrin	2 U	2 U	
Heptachlor	2 U	2 U	
Heptachlor Epoxide	2 U	2 U	
Methyloxychlor	10 U	10 U	
Toxaphene	50 U	50 U	
2,4,5-TP (Silvex)	10 U	10 U	
METALS			
Arsenic	30.0 U	30.0 U	
Barium	832	876	5.2
Cadmium	5.0 U	6.3	
Chromium	10.0 U	10.0 U	
Lead	30.0 U	30.0 U	
Mercury	0.2 U	0.2 U	
Selenium	60.0 U	60.0 U	
Silver	10.0 U	10.0 U	

U Not detected.
.058
01/25/94

TABLE 4.7-18

WATER QUALITY DATA
BLIND DUPLICATE SAMPLES
INORGANIC COMPOUNDS

(concentrations in ug/L)

	MW6S		RPD	MW10S		RPD
	04/08/92 Sample	04/08/92 Duplicate		10/01/93 Sample	10/01/93 Duplicate	
Arsenic, total	350	387	10.0	60.3 J	51.5 J	
Arsenic III	--	--		--	--	
Arsenic V	--	--		--	--	
Cyanide, total	12.2	17.1	33.4	15.9	18.4	14.6
Amenable Cyanide	--	--		--	--	
Thiocyanate	--	--		--	--	
Cyanide, WAD	--	--		--	--	
Aluminum	19.0 U	40.7 U		30.0 B	25.6 B	15.8
Antimony	10.9 U	10.9 U		11.7 U	11.7 U	
Barium	153 BJ	148 BJ		74.9 B	83.7 B	11.1
Beryllium	0.19 U	0.22 U		0.15 U	0.15 U	
Cadmium	4.3 B	2.9 U		2.9 U	2.9 U	
Calcium	154000	142000	8.1	64700	65800	1.7
Chromium, total	2.1 U	2.1 U		2.3 U	2.3 U	
Cobalt	3.6 U	3.6 U		1.9 U	1.9 U	
Copper	12.6 U	12.6 U		7.9 B	7.1 B	10.7
Iron	305 J	241 UJ		222	214	3.7
Lead	1.1 B	3.2	97.7	1.6 U	1.6 U	
Magnesium	41700	37900	9.5	16500	16700	1.2
Manganese	491	442	10.5	403 J	410 J	
Mercury	0.0010 U	0.0010 U		0.25 J	0.22 J	
Nickel	3.8 U	3.8 U		8.7 U	8.7 U	
Potassium	2170 B	2370 B	8.8	12500	12200	2.4
Selenium	2.9 BJ	2.0 BJ		1.5 U	1.7 B	
Silver	1.7 U	1.7 U		1.6 U	1.6 U	
Sodium	8230 J	7920 J		3220 BJ	3140 BJ	
Thallium	1.7 U	1.7 U		1.4 U	1.4 U	
Vanadium	3.2 B	4.1 B	24.7	1.9 U	1.9 U	
Zinc	19.1 U	27.9 U		10.0 B	6.8 B	38.1

-- Not analyzed.
B The reported value is less than the Contract Required Detection Limit (CRDL) but greater than or equal to the Instrument Detection Limit (IDL).
J Associated value is qualified as an estimate. The value is considered to be acceptable and usable.
U Not detected.
3,.014
01/25/94

TABLE 4.7-18 (cont.)

WATER QUALITY DATA
BLIND DUPLICATE SAMPLES
INORGANIC COMPOUNDS

(concentrations in ug/L)

	MW11S		RPD	MW1D		RPD
	11/30/93 Sample	11/30/93 Duplicate		12/01/93 Sample	12/01/93 Duplicate	
Arsenic, total	4.3 B	3.7 B	15.0	5750	5520	4.1
Arsenic III	10 UJ	10 UJ		2970 J	3260 J	
Arsenic V	12.4	10 U		31.6	12	89.9
Cyanide, total	1.2 UJ	1.2 UJ		195 J	161 J	
Amenable Cyanide	<5.0	<5.0		<50.0	<25.0	
Thiocyanate	<100	<100		332000	315000	5.3
Cyanide, WAD	<5.0	<5.0		24.8	35.6	35.8
Aluminum	--	--		--	--	
Antimony	--	--		--	--	
Barium	--	--		--	--	
Beryllium	--	--		--	--	
Cadmium	3.2 U	3.2 U		63.8 U	63.8 U	
Calcium	--	--		--	--	
Chromium, total	--	--		--	--	
Cobalt	--	--		--	--	
Copper	--	--		--	--	
Iron	--	--		--	--	
Lead	1.6 UJ	1.6 UJ		1.8 B	1.6 U	
Magnesium	--	--		--	--	
Manganese	--	--		--	--	
Mercury	0.13 U	0.13 U		0.13 U	0.13 U	
Nickel	--	--		--	--	
Potassium	--	--		--	--	
Selenium	1.5 UJ	1.5 UJ		61.4	57.6	6.4
Silver	--	--		--	--	
Sodium	--	--		--	--	
Thallium	--	--		--	--	
Vanadium	--	--		--	--	
Zinc	--	--		--	--	

-- Not analyzed.
B The reported value is less than the Contract Required Detection Limit (CRDL) but greater than or equal to the Instrument Detection Limit (IDL).
J Associated value is qualified as an estimate. The value is considered to be acceptable and usable.
U Not detected.

3,.014
01/25/94

TABLE 4.7-18 (cont.)

WATER QUALITY DATA
BLIND DUPLICATE SAMPLES
INORGANIC COMPOUNDS

(concentrations in ug/L)

	MW4D		RPD	MW7D		RPD
	04/07/92 Sample	04/07/92 Duplicate		10/01/93 Sample	10/01/93 Duplicate	
Arsenic, total	22400	27100	19.0	10500 J	11200 J	
Arsenic III	--	--		--	--	
Arsenic V	--	--		--	--	
Cyanide, total	706	662	6.4	311	164	61.9
Amenable Cyanide	--	--		--	--	
Thiocyanate	--	--		--	--	
Cyanide, WAD	--	--		--	--	
Aluminum	135 U	128 U		66.0 B	176 B	90.9
Antimony	10.9 U	10.9 U		19.9 B	26.9 B	29.9
Barium	402	448	10.8	82.1 B	85.3 B	3.8
Beryllium	0.19 U	0.19 U		0.54 B	0.70 B	25.8
Cadmium	50.7	50.3	0.8	8.7	9.4	7.7
Calcium	37200	39300	5.5	16800	18900	11.8
Chromium, total	15.4	17.1	10.5	47.6	51.9	8.6
Cobalt	15.2 B	16.6 B	8.8	4.0 B	3.8 B	5.1
Copper	43.8	91.0	70.0	11.2 B	11.4 B	1.8
Iron	807	975	18.9	739	1100	39.3
Lead	4.1 J	2.2 BJ		1.6 U	1.6 U	
Magnesium	20000	22400	11.3	5310	5960	11.5
Manganese	326	387	17.1	83.2 J	94.1 J	
Mercury	0.0010 U	0.0010 U		0.08 BJ	0.44 J	
Nickel	46.7	82.2	55.1	38.7 B	24.0 B	46.9
Potassium	30000	34900	15.1	10000	11200	11.3
Selenium	6.0 UJ	6.8 BJ		62.4	36.4	52.6
Silver	1.7 U	1.7 U		1.6 U	1.6 U	
Sodium	170000	181000	6.3	31700 J	35600 J	
Thallium	1.7 UJ	1.7 UJ		13.9 U	13.9 U	
Vanadium	33.1 B	37.0 B	11.1	294	333	12.4
Zinc	72.0 UJ	84.2 UJ		69.0	37.3	59.6

-- Not analyzed.
B The reported value is less than the Contract Required Detection Limit (CRDL) but greater than or equal to the Instrument Detection Limit (IDL).
J Associated value is qualified as an estimate. The value is considered to be acceptable and usable.
U Not detected.
3,.014
01/25/94

TABLE 4.7-18 (cont.)

WATER QUALITY DATA
BLIND DUPLICATE SAMPLES
INORGANIC COMPOUNDS

(concentrations in ug/L)

	MW13D		RPD
	11/30/93 Sample	11/30/93 Duplicate	
Arsenic, total	27800	12600	75.2
Arsenic III	8680 J	9060 J	
Arsenic V	105	310	98.8
Cyanide, total	212 J	182 J	
Amenable Cyanide	<50.0	<50.0	
Thiocyanate	725000	688000	5.2
Cyanide, WAD	195	114	52.4
Aluminum	--	--	
Antimony	--	--	
Barium	--	--	
Beryllium	--	--	
Cadmium	63.8	63.8 U	
Calcium	--	--	
Chromium, total	--	--	
Cobalt	--	--	
Copper	--	--	
Iron	--	--	
Lead	1.6 BJ	1.6 UJ	
Magnesium	--	--	
Manganese	--	--	
Mercury	0.28	0.13 U	
Nickel	--	--	
Potassium	--	--	
Selenium	56.1 J	55.6 J	
Silver	--	--	
Sodium	--	--	
Thallium	--	--	
Vanadium	--	--	
Zinc	--	--	

-- Not analyzed.
B The reported value is less than the Contract Required Detection Limit (CRDL) but greater than or equal to the Instrument Detection Limit (IDL).
J Associated value is qualified as an estimate. The value is considered to be acceptable and usable.
U Not detected.
3,.014
01/25/94

TABLE 4.7-18 (cont.)

WATER QUALITY DATA
BLIND DUPLICATE SAMPLES
INORGANIC COMPOUNDS

(concentrations in ug/L)

	TE1M02		RPD	TE1F03		RPD
	10/17/93 Sample	10/17/93 Duplicate		10/17/93 Sample	10/17/93 Duplicate	
Arsenic, total	71.2	78.2	9.4	21.5	22.6	5.0
Arsenic III	<10	<10		<10	<10	
Arsenic V	<10	<10		12	13	8.0
Cyanide, total	147	150	2.0	182	150	19.3
Amenable Cyanide	<5.0	<25.0		<25.0	<5.0	
Thiocyanate	179000	201000	11.6	108000	110000	1.8
Cyanide, WAD	90.7	79.6	13.0	77.9	77.6	0.4
Aluminum	--	--		--	--	
Antimony	--	--		--	--	
Barium	--	--		--	--	
Beryllium	--	--		--	--	
Cadmium	<5.0	<5.0		<5.0	<5.0	
Calcium	--	--		--	--	
Chromium, total	--	--		--	--	
Cobalt	--	--		--	--	
Copper	--	--		--	--	
Iron	--	--		--	--	
Lead	<3.0	<3.0		<3.0	<3.0	
Magnesium	--	--		--	--	
Manganese	--	--		--	--	
Mercury	<0.2	<0.2		<0.2	<0.2	
Nickel	--	--		--	--	
Potassium	--	--		--	--	
Selenium	49.8	49.9	0.2	12.3	12.5	1.6
Silver	--	--		--	--	
Sodium	--	--		--	--	
Thallium	--	--		--	--	
Vanadium	--	--		--	--	
Zinc	--	--		--	--	

-- Not analyzed.

.007

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TABLE 4.7-18 (cont.)

WATER QUALITY DATA
BLIND DUPLICATE SAMPLES
INORGANIC COMPOUNDS

(concentrations in ug/L)

	TE2M05		RPD	TE2F06		RPD
	10/17/93 Sample	10/17/93 Duplicate		10/17/93 Sample	10/17/93 Duplicate	
Arsenic, total	394	398	1.0	119	126	5.7
Arsenic III	13	<10		<10	<10	
Arsenic V	64	53	18.8	16	<10	
Cyanide, total	165	136	19.3	146	33.6	125.2
Amenable Cyanide	<25.0	<5.0		<25.0	<5.0	
Thiocyanate	187000	183000	2.2	132000	131000	0.8
Cyanide, WAD	85.1	96.0	12.0	92.2	167	57.7
Aluminum	--	--		--	--	
Antimony	--	--		--	--	
Barium	--	--		--	--	
Beryllium	--	--		--	--	
Cadmium	<5.0	<5.0		<5.0	<5.0	
Calcium	--	--		--	--	
Chromium, total	--	--		--	--	
Cobalt	--	--		--	--	
Copper	--	--		--	--	
Iron	--	--		--	--	
Lead	<3.0	<3.0		<3.0	<3.0	
Magnesium	--	--		--	--	
Manganese	--	--		--	--	
Mercury	<0.2	<0.2		<0.2	<0.2	
Nickel	--	--		--	--	
Potassium	--	--		--	--	
Selenium	38.2	40.4	5.6	14.5	14.3	1.4
Silver	--	--		--	--	
Sodium	--	--		--	--	
Thallium	--	--		--	--	
Vanadium	--	--		--	--	
Zinc	--	--		--	--	

-- Not analyzed.

.007

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TABLE 4.7-18 (cont.)

WATER QUALITY DATA
BLIND DUPLICATE SAMPLES
INORGANIC COMPOUNDS

(concentrations in ug/L)

	TE3F09		RPD	TE4M11		RPD
	10/20/93 Sample	10/20/93 Duplicate		10/19/93 Sample	10/19/93 Duplicate	
Arsenic, total	1600	1600	0	7050	7040	0.1
Arsenic III	22	<10		600	69	158.7
Arsenic V	244	39	144.9	4960	1920	88.4
Cyanide, total	188	161	15.5	250	168	39.2
Amenable Cyanide	<25.0	<25.0		<25.0	<25.0	
Thiocyanate	198000	20100	163.1	261000	263000	0.8
Cyanide, WAD	75.6	83.7	10.2	114	105	8.2
Aluminum	--	--		--	--	
Antimony	--	--		--	--	
Barium	--	--		--	--	
Beryllium	--	--		--	--	
Cadmium	<5.0	<5.0		<5.0	<5.0	
Calcium	--	--		--	--	
Chromium, total	--	--		--	--	
Cobalt	--	--		--	--	
Copper	--	--		--	--	
Iron	--	--		--	--	
Lead	<3.0	<3.0		<3.0	<3.0	
Magnesium	--	--		--	--	
Manganese	--	--		--	--	
Mercury	<0.2	<0.2		<0.2	<0.2	
Nickel	--	--		--	--	
Potassium	--	--		--	--	
Selenium	12.8	12.6	1.6	27.8	28.9	3.9
Silver	--	--		--	--	
Sodium	--	--		--	--	
Thallium	--	--		--	--	
Vanadium	--	--		--	--	
Zinc	--	--		--	--	

-- Not analyzed.

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TABLE 4.7-18 (cont.)

WATER QUALITY DATA
BLIND DUPLICATE SAMPLES
INORGANIC COMPOUNDS

(concentrations in ug/L)

	TE4F12		RPD
	10/19/93 Sample	10/19/93 Duplicate	
Arsenic, total	60.7	62.0	2.1
Arsenic III	<10	<10	
Arsenic V	<10	<10	
Cyanide, total	13.8	142	164.6
Amenable Cyanide	<5.0	<25.0	
Thiocyanate	250000	250000	0
Cyanide, WAD	69.5	110	45.1
Aluminum	--	--	
Antimony	--	--	
Barium	--	--	
Beryllium	--	--	
Cadmium	<5.0	<5.0	
Calcium	--	--	
Chromium, total	--	--	
Cobalt	--	--	
Copper	--	--	
Iron	--	--	
Lead	<3.0	<3.0	
Magnesium	--	--	
Manganese	--	--	
Mercury	<0.2	<0.2	
Nickel	--	--	
Potassium	--	--	
Selenium	13.9	14.5	4.2
Silver	--	--	
Sodium	--	--	
Thallium	--	--	
Vanadium	--	--	
Zinc	--	--	

-- Not analyzed.

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TABLE 4.7-19

WATER QUALITY DATA
BLIND DUPLICATE SAMPLES
VOLATILE ORGANIC COMPOUNDS

(concentrations in ug/L)

	1 MW6S		RPD	MW10S		RPD
	04/08/92 Sample	04/08/92 Duplicate		10/01/93 Sample	10/01/93 Duplicate	
BETX COMPOUNDS						
Benzene	44	50	12.8	17	15	12.5
Ethyl Benzene	69	78	12.2	1 J	1 J	
Toluene	23	25	8.3	10 U	10 U	
Xylenes	100	120	18.2	3 J	3 J	
Sum of BETX	240	270		21 a	19 a	
CHLORINATED COMPOUNDS						
Bromodichloromethane	10 U	10 U		10 U	10 U	
Carbon Tetrachloride	10 U	10 U		10 U	10 U	
Chloroethane	10 U	10 U		10 U	10 U	
Chloroform	10 U	10 U		10 U	10 U	
Chloromethane	10 U	10 U		10 U	10 U	
Chlorobenzene	10 U	10 U		10 U	10 U	
Chlorodibromomethane	10 U	10 U		10 U	10 U	
1,1-Dichloroethane	10 U	10 U		4 J	4 J	
1,2-Dichloroethane	10 U	10 U		10 U	10 U	
1,1-Dichloroethylene	10 U	10 U		10 U	10 U	
1,2-Dichloroethylene	10 U	10 U		10 U	10 U	
1,2-Dichloropropane	10 U	10 U		10 U	10 U	
Cis-1,3-Dichloro-1-propene	10 U	10 U		10 U	10 U	
Trans-1,3-Dichloro-1-propene	10 U	10 U		10 U	10 U	
Methylene Chloride	10 U	10 U		10 U	10 U	
Styrene	7 J	8 J		10 U	10 U	
1,1,2,2-Tetrachloroethane	10 U	10 U		10 U	10 U	
Tetrachloroethylene	10 U	10 U		10 U	10 U	
1,1,1-Trichloroethane	10 U	10 U		18	16	11.8
1,1,2-Trichloroethane	10 U	10 U		10 U	10 U	
Trichloroethylene	10 U	10 U		10 U	10 U	
Vinyl Chloride	10 U	10 U		10 U	10 U	
OTHER COMPOUNDS						
Acetone	11 U	10 U		10 U	10 U	
Bromoform	10 U	10 U		10 U	10 U	
Bromomethane	10 U	10 U		10 U	10 U	
Carbondisulfide	10 U	10 U		10 U	10 U	
2-Hexanone	10 U	10 U		10 U	10 U	
Methyl Ethyl Ketone	10 U	10 U		10 U	10 U	
Methyl Isobutyl Ketone	10 U	10 U		10 U	10 U	

-- Not analyzed.
a Calculated using some or all values that are estimates.
J Associated value is qualified as an estimate. The value is considered to be acceptable and usable.
U Not detected.
1 U Not detected. Note that the laboratory would have reported, with a J qualifier, any detected concentration below the stated quantitation limit but above the laboratory's method detection limit. The laboratory's method detection limit is typically about 10 percent of the stated quantitation limit in the table.

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TABLE 4.7-19 (cont.)

WATER QUALITY DATA
BLIND DUPLICATE SAMPLES
VOLATILE ORGANIC COMPOUNDS

(concentrations in ug/L)

	MW11S		RPD	MW1D		RPD
	11/30/93 Sample	11/30/93 Duplicate		12/01/93 Sample	12/01/93 Duplicate	
BETX COMPOUNDS						
Benzene	10 U	10 U		820	800	2.5
Ethyl Benzene	10 U	10 U		50 U	50 U	
Toluene	10 U	10 U		330	330	0
Xylenes	10 U	10 U		78	78	0
Sum of BETX	ND	ND		1228	1208	
CHLORINATED COMPOUNDS						
Bromodichloromethane	10 U	10 U		50 U	50 U	
Carbon Tetrachloride	10 U	10 U		50 U	50 U	
Chloroethane	10 U	10 U		50 U	50 U	
Chloroform	10 U	10 U		50 U	50 U	
Chloromethane	10 U	10 U		50 U	50 U	
Chlorobenzene	10 U	10 U		50 U	50 U	
Chlorodibromomethane	10 U	10 U		50 U	50 U	
1,1-Dichloroethane	10 U	10 U		50 U	50 U	
1,2-Dichloroethane	10 U	10 U		50 U	50 U	
1,1-Dichloroethylene	10 U	10 U		50 U	50 U	
1,2-Dichloroethylene	88	95	7.7	50 U	50 U	
1,2-Dichloropropane	10 U	10 U		50 U	50 U	
Cis-1,3-Dichloro-1-propene	10 U	10 U		50 U	50 U	
Trans-1,3-Dichloro-1-propene	10 U	10 U		50 U	50 U	
Methylene Chloride	10 U	10 U		50 U	50 U	
Styrene	10 U	10 U		17 J	16 J	
1,1,2,2-Tetrachloroethane	10 U	10 U		50 U	50 U	
Tetrachloroethylene	10 U	10 U		50 U	50 U	
1,1,1-Trichloroethane	10 U	10 U		50 U	50 U	
1,1,2-Trichloroethane	10 U	10 U		50 U	50 U	
Trichloroethylene	10 U	10 U		50 U	50 U	
Vinyl Chloride	46	51	10.3	50 U	50 U	
OTHER COMPOUNDS						
Acetone	10 U	10 U		430	410	4.8
Bromoform	10 U	10 U		50 U	50 U	
Bromomethane	10 U	10 U		50 U	50 U	
Carbondisulfide	10 U	10 U		50 U	50 U	
2-Hexanone	10 U	10 U		50 U	50 U	
Methyl Ethyl Ketone	10 U	10 U		47 J	50	
Methyl Isobutyl Ketone	10 U	10 U		50 U	50 U	

-- Not analyzed.
ND Not detected.
J Associated value is qualified as an estimate. The value is considered to be acceptable and usable.
U Not detected.
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01/25/94

TABLE 4.7-19 (cont.)

WATER QUALITY DATA
BLIND DUPLICATE SAMPLES
VOLATILE ORGANIC COMPOUNDS

(concentrations in ug/L)

	1 MW4D		RPD	MW7D		RPD
	04/07/92 Sample	04/07/92 Duplicate		10/01/93 Sample	10/01/93 Duplicate	
BETX COMPOUNDS						
Benzene	460	420	9.1	990	940	5.2
Ethyl Benzene	40 U	40 U		100 U	100 U	
Toluene	40 U	40 U		280	280	0
Xylenes	40 U	40 U		160	160	0
Sum of BETX	460	420		1430	1380	
CHLORINATED COMPOUNDS						
Bromodichloromethane	40 U	40 U		100 U	100 U	
Carbon Tetrachloride	40 U	40 U		100 U	100 U	
Chloroethane	40 U	40 U		100 U	100 U	
Chloroform	40 U	40 U		100 U	100 U	
Chloromethane	40 U	40 U		100 U	100 U	
Chlorobenzene	40 U	40 U		100 U	100 U	
Chlorodibromomethane	40 U	40 U		100 U	100 U	
1,1-Dichloroethane	40 U	40 U		100 U	100 U	
1,2-Dichloroethane	40 U	40 U		100 U	100 U	
1,1-Dichloroethylene	40 U	40 U		100 U	100 U	
1,2-Dichloroethylene	40 U	40 U		100 U	100 U	
1,2-Dichloropropane	40 U	40 U		100 U	100 U	
Cis-1,3-Dichloro-1-propene	40 U	40 U		100 U	100 U	
Trans-1,3-Dichloro-1-propene	40 U	40 U		100 U	100 U	
Methylene Chloride	40 U	40 U		100 U	100 U	
Styrene	40 U	40 U		31 J	30 J	
1,1,2,2-Tetrachloroethane	40 U	40 U		100 U	100 U	
Tetrachloroethylene	40 U	40 U		100 U	100 U	
1,1,1-Trichloroethane	40 U	40 U		100 U	100 U	
1,1,2-Trichloroethane	40 U	40 U		100 U	100 U	
Trichloroethylene	40 U	40 U		100 U	100 U	
Vinyl Chloride	40 U	40 U		100 U	100 U	
OTHER COMPOUNDS						
Acetone	860	820	4.8	790 J	870 J	
Bromoform	40 U	40 U		100 U	100 U	
Bromomethane	40 U	40 U		100 U	100 U	
Carbondisulfide	6 J	6 J		100 U	100 U	
2-Hexanone	40 U	40 U		100 U	100 U	
Methyl Ethyl Ketone	140	140	0	150	140	6.9
Methyl Isobutyl Ketone	40 U	40 U		100 U	100 U	

-- Not analyzed.
J Associated value is qualified as an estimate. The value is considered to be acceptable and usable.
U Not detected.
1 U Not detected. Note that the laboratory would have reported, with a J qualifier, any detected concentration below the stated quantitation limit but above the laboratory's method detection limit. The laboratory's method detection limit is typically about 10 percent of the stated quantitation limit in the table.

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TABLE 4.7-19 (cont.)

WATER QUALITY DATA
BLIND DUPLICATE SAMPLES
VOLATILE ORGANIC COMPOUNDS

(concentrations in ug/L)

	MW13D		RPD
	11/30/93 Sample	11/30/93 Duplicate	
BETX COMPOUNDS			
Benzene	1200	1100	8.7
Ethyl Benzene	10 U	100 U	
Toluene	43	43 J	
Xylenes	10 U	100 U	
Sum of BETX	1243	1143 a	
CHLORINATED COMPOUNDS			
Bromodichloromethane	10 U	100 U	
Carbon Tetrachloride	10 U	100 U	
Chloroethane	10 U	100 U	
Chloroform	10 U	100 U	
Chloromethane	10 U	100 U	
Chlorobenzene	10 U	100 U	
Chlorodibromomethane	10 U	100 U	
1,1-Dichloroethane	10 U	100 U	
1,2-Dichloroethane	10 U	100 U	
1,1-Dichloroethylene	10 U	100 U	
1,2-Dichloroethylene	10 U	100 U	
1,2-Dichloropropane	10 U	100 U	
Cis-1,3-Dichloro-1-propene	10 U	100 U	
Trans-1,3-Dichloro-1-propene	10 U	100 U	
Methylene Chloride	10 U	100 U	
Styrene	10 U	100 U	
1,1,2,2-Tetrachloroethane	10 U	100 U	
Tetrachloroethylene	10 U	100 U	
1,1,1-Trichloroethane	10 U	100 U	
1,1,2-Trichloroethane	10 U	100 U	
Trichloroethylene	10 U	100 U	
Vinyl Chloride	10 U	100 U	
OTHER COMPOUNDS			
Acetone	1200 J	1300 J	
Bromoform	10 U	100 U	
Bromomethane	10 U	100 U	
Carbondisulfide	10 U	100 U	
2-Hexanone	5 J	100 U	
Methyl Ethyl Ketone	160 J	180 J	
Methyl Isobutyl Ketone	10 U	100 U	

-- Not analyzed.
a Calculated using some or all values that are estimates.
J Associated value is qualified as an estimate. The value is considered to be acceptable and usable.
U Not detected.
3,.023
01/25/94

TABLE 4.7-20

WATER QUALITY DATA
BLIND DUPLICATE SAMPLES
SEMIVOLATILE ORGANIC COMPOUNDS

(concentrations in ug/L)

	MW6S[1]		RPD	MW10S		RPD
	04/08/92 Sample	04/08/92 Duplicate		10/01/93 Sample	10/01/93 Duplicate	
CARCINOGENIC COMPOUNDS						
Benzo(a)anthracene	150 U	150 U		1.785 U	1.785 U	
Benzo(b)fluoranthene	150 U	150 U		2.409 U	2.409 U	
Benzo(k)fluoranthene	150 U	150 U		1.918 U	1.918 U	
Benzo(a)pyrene	150 U	150 U		2.213 U	2.213 U	
Carbazole	110 J	95 J		1.648 U	1.648 U	
Chrysene	150 U	150 U		1.925 U	1.925 U	
Dibenzo(ah)anthracene	150 U	150 U		1.943 U	1.943 U	
Indeno(1,2,3,cd)pyrene	150 U	150 U		2.205 U	2.205 U	
Sum of Carcinogens	ND	95 a		ND	ND	
PROJECT SPECIFIC NON-CARCINOGENIC COMPOUNDS						
Acenaphthene	150	150	0	1.487 U	1.487 U	
Acenaphthylene	150 U	150 U		1.476 U	1.476 U	
Anthracene	150 U	150 U		1.595 U	1.595 U	
Benzo(ghi)perylene	150 U	150 U		1.992 U	1.992 U	
Dibenzofuran	48 J	49 J		1.404 U	1.404 U	
Fluoranthene	150 U	150 U		1.477 U	1.477 U	
Fluorene	19 J	20 J		1.442 U	1.442 U	
2-Methylnaphthalene	20 J	17 J		1.385 U	1.385 U	
Naphthalene	1800	1100	48.3	1.356 U	1.356 U	
Phenanthrene	150 U	150 U		1.554 U	1.554 U	
Pyrene	150 U	150 U		1.814 U	1.814 U	
Sum of Non-Carcinogens	2037 a	1336 a		ND	ND	
Sum of Total PAH Compounds	2037 a	1431 a		ND	ND	
PHENOLIC COMPOUNDS						
4-Chloro-3-methylphenol	150 U	150 U		1.188 U	1.188 U	
2-Chlorophenol	150 U	150 U		1.401 U	1.401 U	
o-Cresol	67 J	72 J		1.705 U	1.705 U	
p-Cresol	110 J	110 J		1.643 U	1.643 U	
2,4-Dichlorophenol	150 U	150 U		1.298 U	1.298 U	
2,4-Dimethylphenol	46 J	36 J		3.165 U	3.165 U	
2,4-Dinitrophenol	380 U	380 U		4.061 UJ	4.061 UJ	
2-Methyl-4,6-dinitrophenol	380 U	380 U		2.284 U	2.284 U	
2-Nitrophenol	150 U	150 U		1.084 U	1.084 U	
4-Nitrophenol	380 U	380 U		1.878 UJ	1.878 UJ	
Pentachlorophenol	380 U	380 U		1.69 UJ	1.69 UJ	
Phenol	340	340	0	2 J	2 J	
2,4,5-Trichlorophenol	380 U	380 U		1.248 U	1.248 U	
2,4,6-Trichlorophenol	150 U	150 U		1.171 U	1.171 U	

ND Not detected.
a Calculated using some or all values that are estimates.
J Associated value is qualified as an estimate. The value is considered to be acceptable and usable.
U Not detected.
1 U Not detected. Note that the laboratory would have reported, with a J qualifier, any detected concentration below the stated quantitation limit but above the laboratory's method detection limit. The laboratory's method detection limit is typically about 10 percent of the stated quantitation limit in the table.

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TABLE 4.7-20 (cont.)

WATER QUALITY DATA
BLIND DUPLICATE SAMPLES
SEMIVOLATILE ORGANIC COMPOUNDS

(concentrations in ug/L)

	1 MW6S		RPD	MW10S		RPD
	04/08/92 Sample	04/08/92 Duplicate		10/01/93 Sample	10/01/93 Duplicate	
OTHER SEMIVOLATILE ORGANIC COMPOUNDS						
Bis(2-chloroethoxy)methane	150 U	150 U		1.431 U	1.431 U	
Bis(2-chloroethyl)ether	150 U	150 U		1.368 U	1.368 U	
Bis(2-chloroisopropyl)ether	150 U	150 U		1.575 U	1.575 U	
Bis(2-ethylhexyl)phthalate	150 U	150 U		12	17	34.5
4-Bromophenyl phenyl ether	150 U	150 U		1.057 U	1.057 U	
Butyl benzyl phthalate	150 U	150 U		1.256 U	1.256 U	
4-Chloroaniline	150 U	150 U		1.759 U	1.759 U	
2-Chloronaphthalene	150 U	150 U		1.366 U	1.366 U	
4-Chlorophenyl phenyl ether	150 U	150 U		1.313 U	1.313 U	
Di-n-butyl phthalate	150 U	150 U		1.304 U	1.304 U	
Di-n-octyl phthalate	150 U	150 U		2 J	2.101 U	
1,2-Dichlorobenzene	150 U	150 U		1.751 U	1.751 U	
1,3-Dichlorobenzene	150 U	150 U		1.794 U	1.794 U	
1,4-Dichlorobenzene	150 U	150 U		1.748 U	1.748 U	
3,3-Dichlorobenzidine	150 U	150 U		4.77 U	4.77 U	
Diethyl phthalate	150 U	150 U		1.529 U	1.529 U	
Dimethyl phthalate	150 U	150 U		1.33 U	1.33 U	
2,4-Dinitrotoluene	150 U	150 U		1.14 U	1.14 U	
2,6-Dinitrotoluene	150 U	150 U		1.095 U	1.095 U	
Hexachlorobenzene	150 U	150 U		1.374 U	1.374 U	
Hexachlorobutadiene	150 U	150 U		1.767 U	1.767 U	
Hexachlorocyclopentadiene	150 U	150 U		1.341 U	1.341 U	
Hexachloroethane	150 U	150 U		1.799 U	1.799 U	
Isophorone	150 U	150 U		1.322 U	1.322 U	
N-Nitrosodi-n-propylamine	150 U	150 U		1.209 U	1.209 U	
N-Nitrosodiphenylamine	150 U	150 U		1.588 U	1.588 U	
2-Nitroaniline	380 U	380 U		1.275 U	1.275 U	
3-Nitroaniline	380 U	380 U		1.806 U	1.806 U	
4-Nitroaniline	380 U	380 U		1.655 UJ	1.655 UJ	
Nitrobenzene	150 U	150 U		1.241 U	1.241 U	
1,2,4-Trichlorobenzene	150 U	150 U		1.376 U	1.376 U	

J Associated value is qualified as an estimate. The value is considered to be acceptable and usable.
U Not detected.
1 U Not detected. Note that the laboratory would have reported, with a J qualifier, any detected concentration below the stated quantitation limit but above the laboratory's method detection limit. The laboratory's method detection limit is typically about 10 percent of the stated quantitation limit in the table.

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TABLE 4.7-20 (cont.)

WATER QUALITY DATA
BLIND DUPLICATE SAMPLES
SEMIVOLATILE ORGANIC COMPOUNDS

(concentrations in ug/L)

	MW11S		RPD	MW1D		RPD
	11/30/93 Sample	11/30/93 Duplicate		12/01/93 Sample	12/01/93 Duplicate	
CARCINOG IC COMPOUNDS						
Be (a)anthracene	1.000	1.750	54.5	89.25 U	89.25 U	
B o(b)fluoranthene	0.764	1.490	64.4	120.45 U	120.45 U	
F zo(k)fluoranthene	1.010	1.670	49.3	95.9 U	95.9 U	
nzo(a)pyrene	1.090	1.620	39.1	110.65 U	110.65 U	
arbazole	0.133	0.210 U		82.4 U	82.4 U	
hrysene	1.300 c	2.240 c	53.1	96.25 U	96.25 U	
Dibenzo(ah)anthracene	0.153	0.210 U		97.15 U	97.15 U	
Indeno(1,2,3,cd)pyrene	0.641 J	0.729 J		110.25 U	110.25 U	
Sum of Carcinogens	6.091 a	9.499 a		ND	ND	
ROJECT SPECIFIC NON-CARCINOGENIC COMPOUNDS						
Acenaphthene	0.102 U	0.210 U		74.35 U	74.35 U	
Acenaphthylene	0.278	0.409	38.1	73.8 U	73.8 U	
Anthracene	0.207	0.319	42.6	79.75 U	79.75 U	
Benzo(ghi)perylene	0.623 J	0.853 J		99.6 U	99.6 U	
Dibenzofuran	0.102 U	0.210 U		70.2 U	70.2 U	
Fluoranthene	1.850	3.100	50.5	73.85 U	73.85 U	
Fluorene	0.102 U	0.210 U		72.1 U	72.1 U	
2-Methylnaphthalene	0.102 U	0.210 U		69.25 U	69.25 U	
Naphthalene	0.266	0.280 U		80 J	94 J	
Phenanthrene	1.330	2.500	61.1	77.7 U	77.7 U	
Pyrene	1.480	2.490	50.9	90.7 U	90.7 U	
Sum of Non-Carcinogens	6.034 a	7.43 a		80 a	94 a	
Sum of Total PAH Compounds	12.125 a	16.929 a		80 a	94 a	
PHENOLIC COMPOUNDS						
4-Chloro-3-methylphenol	--	--		--	--	
2-Chlorophenol	--	--		--	--	
o-Cresol	1.705 U	1.705 U		5600	27000 J	
p-Cresol	1.643 U	1.643 U		52000	89000	52.5
2,4-Dichlorophenol	--			--	--	
2,4-Dimethylphenol	3.165 UJ	3.165 UJ		158.25 U	7400 J	
2,4-Dinitrophenol	--	--		--	--	
2-Methyl-4,6-dinitrophenol	--	--		--	--	
2-Nitrophenol	--	--		--	--	
4-Nitrophenol	--	--		--	--	
Pentachlorophenol	--	--		--	--	
Phenol	1.296 U	1.296 U		170000	220000	25.6
2,4,5-Trichlorophenol	--	--		--	--	
2,4,6-Trichlorophenol	--	--		--	--	

-- Not analyzed.
ND Not detected.
a Calculated using some or all values that are estimates.
c Coelutes with triphenylene. Concentration reported as chrysene.
J Associated value is qualified as an estimate. The value is considered to be acceptable and usable.
U Not detected.
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TABLE 4.7-20 (cont.)

WATER QUALITY DATA
BLIND DUPLICATE SAMPLES
SEMIVOLATILE ORGANIC COMPOUNDS

(concentrations in ug/L)

	MW4D[1]		RPD	MW7D		RPD
	04/07/92 Sample	04/07/92 Duplicate		10/01/93 Sample	10/01/93 Duplicate	
CARCINOGENIC COMPOUNDS						
Benzo(a)anthracene	200000 U	50000 U		892.5 U	892.5 U	
Benzo(b)fluoranthene	200000 U	50000 U		1204.5 U	1204.5 U	
Benzo(k)fluoranthene	200000 U	50000 U		959 U	959 U	
Benzo(a)pyrene	200000 U	50000 U		1106.5 U	1106.5 U	
Carbazole	200000 U	50000 U		824 U	824 U	
Chrysene	200000 U	50000 U		962.5 U	962.5 U	
Dibenzo(ah)anthracene	200000 U	50000 U		971.5 U	971.5 U	
Indeno(1,2,3,cd)pyrene	200000 U	50000 U		1102.5 U	1102.5 U	
Sum of Carcinogens	ND	ND		ND	ND	
PROJECT SPECIFIC NON-CARCINOGENIC COMPOUNDS						
Acenaphthene	200000 U	50000 U		743.5 U	743.5 U	
Acenaphthylene	200000 U	50000 U		738 U	738 U	
Anthracene	200000 U	50000 U		797.5 U	797.5 U	
Benzo(ghi)perylene	200000 U	50000 U		996 U	996 U	
Dibenzofuran	200000 U	50000 U		702 U	702 U	
Fluoranthene	200000 U	50000 U		738.5 U	738.5 U	
Fluorene	200000 U	50000 U		721 U	721 U	
2-Methylnaphthalene	200000 U	50000 U		692.5 U	692.5 U	
Naphthalene	200000 U	50000 U		678 U	920 J	
Phenanthrene	200000 U	50000 U		777 U	777 U	
Pyrene	200000 U	50000 U		907 U	907 U	
Sum of Non-Carcinogens	ND	ND		ND	920 a	
Sum of Total PAH Compounds	ND	ND		ND	920 a	
PHENOLIC COMPOUNDS						
4-Chloro-3-methylphenol	200000 U	50000 U		594 U	594 U	
2-Chlorophenol	200000 U	50000 U		700.5 U	700.5 U	
o-Cresol	170000 J	34000 J		7100	50000 J	
p-Cresol	710000	150000		27000	180000	147.8
2,4-Dichlorophenol	200000 U	50000 U		649 U	649 U	
2,4-Dimethylphenol	41000 J	7600 J		1582.5 U	18000	
2,4-Dinitrophenol	500000 U	120000 U		2030.5 UJ	2030.5 UJ	
2-Methyl-4,6-dinitrophenol	500000 U	120000 U		1142 U	1142 U	
2-Nitrophenol	200000 U	50000 U		542 U	542 U	
4-Nitrophenol	500000 U	120000 U		939 UJ	939 UJ	
Pentachlorophenol	500000 U	120000 U		845 UJ	845 UJ	
Phenol	1500000	320000		73000	590000	156.0
2,4,5-Trichlorophenol	500000 U	120000 U		624 U	624 U	
2,4,6-Trichlorophenol	200000 U	50000 U		585.5 U	585.5 U	

-- Not analyzed.
ND Not detected.
a Calculated using some or all values that are estimates.
J Associated value is qualified as an estimate. The value is considered to be acceptable and usable.
U Not detected.
1 U Not detected. Note that the laboratory would have reported, with a J qualifier, any detected concentration below the stated quantitation limit but above the laboratory's method detection limit. The laboratory's method detection limit is typically about 10 percent of the stated quantitation limit in the table.

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TABLE 4.7-20 (cont.)

WATER QUALITY DATA
BLIND DUPLICATE SAMPLES
SEMIVOLATILE ORGANIC COMPOUNDS

(concentrations in ug/L)

	1 MW4D		RPD	MW7D		RPD
	04/07/92 Sample	04/07/92 Duplicate		10/01/93 Sample	10/01/93 Duplicate	
OTHER SEMIVOLATILE ORGANIC COMPOUNDS						
Bis(2-chloroethoxy)methane	200000 U	50000 U		715.5 U	715.5 U	
Bis(2-chloroethyl)ether	200000 U	50000 U		684 U	684 U	
Bis(2-chloroisopropyl)ether	200000 U	50000 U		787.5 U	787.5 U	
Bis(2-ethylhexyl)phthalate	200000 U	50000 U		3089.5 U	3089.5 U	
4-Bromophenyl phenyl ether	200000 U	50000 U		528.5 U	528.5 U	
Butyl benzyl phthalate	200000 U	50000 U		628 U	628 U	
4-Chloroaniline	200000 U	50000 U		879.5 U	879.5 U	
2-Chloronaphthalene	200000 U	50000 U		683 U	683 U	
4-Chlorophenyl phenyl ether	200000 U	50000 U		656.5 U	656.5 U	
Di-n-butyl phthalate	200000 U	50000 U		652 U	652 U	
Di-n-octyl phthalate	200000 U	50000 U		1050.5 U	1050.5 U	
1,2-Dichlorobenzene	200000 U	50000 U		875.5 U	875.5 U	
1,3-Dichlorobenzene	200000 U	50000 U		897 U	897 U	
1,4-Dichlorobenzene	200000 U	50000 U		874 U	874 U	
3,3-Dichlorobenzidine	200000 U	50000 U		2385 U	2385 U	
Diethyl phthalate	200000 U	50000 U		764.5 U	764.5 U	
Dimethyl phthalate	200000 U	50000 U		665 U	665 U	
2,4-Dinitrotoluene	200000 U	50000 U		570 U	570 U	
2,6-Dinitrotoluene	200000 U	50000 U		547.5 U	547.5 U	
Hexachlorobenzene	200000 U	50000 U		687 U	687 U	
Hexachlorobutadiene	200000 U	50000 U		883.5 U	883.5 U	
Hexachlorocyclopentadiene	200000 U	50000 U		670.5 U	670.5 U	
Hexachloroethane	200000 U	50000 U		899.5 U	899.5 U	
Isophorone	200000 U	50000 U		661 U	661 U	
N-Nitrosodi-n-propylamine	200000 U	50000 U		604.5 U	604.5 U	
N-Nitrosodiphenylamine	200000 U	50000 U		794 U	794 U	
2-Nitroaniline	500000 U	120000 U		637.5 U	637.5 U	
3-Nitroaniline	500000 U	120000 U		903 U	903 U	
4-Nitroaniline	500000 U	120000 U		827.5 UJ	827.5 UJ	
Nitrobenzene	200000 U	50000 U		620.5 U	620.5 U	
1,2,4-Trichlorobenzene	200000 U	50000 U		688 U	688 U	

J Associated value is qualified as an estimate. The value is considered to be acceptable and usable.
U Not detected.
1 U Not detected. Note that the laboratory would have reported, with a J qualifier, any detected concentration below the stated quantitation limit but above the laboratory's method detection limit. The laboratory's method detection limit is typically about 10 percent of the stated quantitation limit in the table.

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TABLE 4.7-20 (cont.)

WATER QUALITY DATA
BLIND DUPLICATE SAMPLES
SEMIVOLATILE ORGANIC COMPOUNDS

(concentrations in ug/L)

	MW13D		RPD
	11/30/93	11/30/93	
	Sample	Duplicate	
CARCINOGENIC COMPOUNDS			
Benzo(a)anthracene	892.5 U	892.5 U	
Benzo(b)fluoranthene	1204.5 U	1204.5 U	
Benzo(k)fluoranthene	959 U	959 U	
Benzo(a)pyrene	1106.5 U	1106.5 U	
Carbazole	824 U	824 U	
Chrysene	962.5 U	962.5 U	
Dibenzo(ah)anthracene	971.5 U	971.5 U	
Indeno(1,2,3,cd)pyrene	1102.5 UJ	1102.5 U	
Sum of Carcinogens	ND	ND	
PROJECT SPECIFIC NON-CARCINOGENIC COMPOUNDS			
Acenaphthene	743.5 U	743.5 U	
Acenaphthylene	738 U	738 U	
Anthracene	797.5 U	797.5 U	
Benzo(ghi)perylene	996 UJ	996 U	
Dibenzofuran	702 U	702 U	
Fluoranthene	738.5 U	738.5 U	
Fluorene	721 U	721 U	
2-Methylnaphthalene	692.5 U	692.5 U	
Naphthalene	678 U	678 U	
Phenanthrene	777 U	777 U	
Pyrene	907 U	907 U	
Sum of Non-Carcinogens	ND	ND	
Sum of Total PAH Compounds	ND	ND	
PHENOLIC COMPOUNDS			
4-Chloro-3-methylphenol	--	--	
2-Chlorophenol	--	--	
o-Cresol	90000	90000	0
p-Cresol	350000	360000	2.8
2,4-Dichlorophenol	--	--	
2,4-Dimethylphenol	24000 J	22000 J	
2,4-Dinitrophenol	--	--	
2-Methyl-4,6-dinitrophenol	--	--	
2-Nitrophenol	--	--	
4-Nitrophenol	--	--	
Pentachlorophenol	--	--	
Phenol	500000 J	540000 J	
2,4,5-Trichlorophenol	--	--	
2,4,6-Trichlorophenol	--	--	

-- Not analyzed.
ND Not detected.
J Associated value is qualified as an estimate. The value is considered to be acceptable and usable.
U Not detected.
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TABLE 4.7-20 (cont.)

WATER QUALITY DATA
BLIND DUPLICATE SAMPLES
SEMIVOLATILE ORGANIC COMPOUNDS

(concentrations in ug/L)

	TE1M02		RPD	TE1F03		RPD
	10/17/93 Sample	10/17/93 Duplicate		10/17/93 Sample	10/17/93 Duplicate	
CARCINOGENIC COMPOUNDS						
Benzo(a)anthracene	3570 U	8925 U		892.5 U	357 U	
Benzo(b)fluoranthene	4818 U	12045 U		1204.5 U	481.8 U	
Benzo(k)fluoranthene	3836 U	9590 U		959 U	383.6 U	
Benzo(a)pyrene	4426 U	11065 U		1106.5 U	442.6 U	
Carbazole	3296 U	8240 U		824 U	329.6 U	
Chrysene	3850 U	9625 U		962.5 U	385 U	
Dibenzo(ah)anthracene	3886 U	9715 U		971.5 U	388.6 U	
Indeno(1,2,3,cd)pyrene	4410 U	11025 U		1102.5 U	441 U	
Sum of Carcinogens	ND	ND		ND	ND	
PROJECT SPECIFIC NON-CARCINOGENIC COMPOUNDS						
Acenaphthene	2974 U	7435 U		743.5 U	297.4 U	
Acenaphthylene	2952 U	7380 U		738 U	295.2 U	
Anthracene	3190 U	7975 U		797.5 U	319 U	
Benzo(ghi)perylene	3984 U	9960 U		996 U	398.4 U	
Dibenzofuran	2808 U	7020 U		702 U	280.8 U	
Fluoranthene	2954 U	7385 U		738.5 U	295.4 U	
Fluorene	2884 U	7210 U		721 U	288.4 U	
2-Methylnaphthalene	2770 U	6925 U		692.5 U	277 U	
Naphthalene	2712 U	6780 U		678 U	271.2 U	
Phenanthrene	3108 U	7770 U		777 U	310.8 U	
Pyrene	3628 U	9070 U		907 U	362.8 U	
Sum of Non-Carcinogens	ND	ND		ND	ND	
Sum of Total PAH Compounds	ND	ND		ND	ND	
PHENOLIC COMPOUNDS						
4-Chloro-3-methylphenol	--	--		--	--	
2-Chlorophenol	--	--		--	--	
o-Cresol	19000 J	19000 J		860 J	1000 J	
p-Cresol	63000	60000	4.9	3100 J	3500	
2,4-Dichlorophenol	--	--		--	--	
2,4-Dimethylphenol	6330 U	15825 U		1582.5 U	633 U	
2,4-Dinitrophenol	--	--		--	--	
2-Methyl-4,6-dinitrophenol	--	--		--	--	
2-Nitrophenol	--	--		--	--	
4-Nitrophenol	--	--		--	--	
Pentachlorophenol	--	--		--	--	
Phenol	190000	180000	5.4	15000	16000	6.5
2,4,5-Trichlorophenol	--	--		--	--	
2,4,6-Trichlorophenol	--	--		--	--	

-- Not analyzed.
ND Not detected.
U Not detected.
.007
01/25/94

TABLE 4.7-20 (cont.)

WATER QUALITY DATA
BLIND DUPLICATE SAMPLES
SEMIVOLATILE ORGANIC COMPOUNDS

(concentrations in ug/L)

	TE2M05		RPD	TE2F06		RPD
	10/17/93 Sample	10/17/93 Duplicate		10/17/93 Sample	10/17/93 Duplicate	
CARCINOGENIC COMPOUNDS						
Benzo(a)anthracene	7140 U	7140 U		1428 U	892.5 U	
Benzo(b)fluoranthene	9636 U	9636 U		1927.2	1204.5 U	
Benzo(k)fluoranthene	7672 U	7672 U		1534.4 [illegible]	959 U	
Benzo(a)pyrene	8852 U	8852 U		1770 [illegible] U	1106.5 U	
Carbazole	6592 U	6592 U		131[illegible] U	824 U	
Chrysene	7700 U	7700 U		154 [illegible] U	962.5 U	
Dibenzo(ah)anthracene	7772 U	7772 U		15[illegible].4 U	971.5 U	
Indeno(1,2,3,cd)pyrene	8820 U	8820 U		1[illegible] U	1102.5 U	
Sum of Carcinogens	ND	ND		[illegible]	ND	
PROJECT SPECIFIC NON-CARCINOGENIC COMPOUNDS						
Acenaphthene	5948 U	5948 U		1189.6 U	743.5 U	
Acenaphthylene	5904 U	5904 U		1180.8 U	738 U	
Anthracene	6380 U	6380 U		1276 U	797.5 U	
Benzo(ghi)perylene	7968 U	7968 U		1593.6 U	996 U	
Dibenzofuran	5616 U	5616 U		1123.2 U	702 U	
Fluoranthene	5908 U	5908 U		1181.6 U	738.5 U	
Fluorene	5768 U	5768 U		1153.6 U	721 U	
2-Methylnaphthalene	5540 U	5540 U		1108 U	692.5 U	
Naphthalene	5424 U	5424 U		1084.8 U	678 U	
Phenanthrene	6216 U	6216 U		1243.2 U	777 U	
Pyrene	7256 U	7256 U		1451.2 U	907 U	
Sum of Non-Carcinogens	ND	ND		ND	ND	
Sum of Total PAH Compounds	ND	ND		ND	ND	
PHENOLIC COMPOUNDS						
4-Chloro-3-methylphenol	--	--		--	--	
2-Chlorophenol	--	--		--	--	
o-Cresol	21000 J	19000 [illegible]		1100 J	1200 J	
p-Cresol	69000	61000	12.3	3700 J	3800 J	
2,4-Dichlorophenol	--	--		--	--	
2,4-Dimethylphenol	12660 U	126[illegible] U		2532 U	1582.5 U	
2,4-Dinitrophenol	--	--		--	--	
2-Methyl-4,6-dinitrophenol	--	--		--	--	
2-Nitrophenol	--	-		--	--	
4-Nitrophenol	--			--	--	
Pentachlorophenol	--	[illegible]		--	--	
Phenol	220000	[illegible]80000	20.0	22000	20000	9.5
2,4,5-Trichlorophenol	--	--		--	--	
2,4,6-Trichlorophenol	--	--		--	--	

-- Not analyzed.
ND Not detected.
J Associated value is qualified as an est[illegible]te. The value is considered to be acceptable and usable.
U Not detected.
.007
01/25/94

TABLE 4.7-20 (cont.)

WATER QUALITY DATA
BLIND DUPLICATE SAMPLES
SEMIVOLATILE ORGANIC COMPOUNDS

(concentrations in ug/L)

	TE3M08		RPD	TE3F09		RPD
	10/20/93 Sample	10/20/93 Duplicate		10/20/93 Sample	10/20/93 Duplicate	
CARCINOGENIC COMPOUNDS						
Benzo(a)anthracene	3570 U	7140 U		714 U	714 U	
Benzo(b)fluoranthene	4818 U	9636 U		963.6 U	963.6 U	
Benzo(k)fluoranthene	3836 U	7672 U		767.2 U	767.2 U	
Benzo(a)pyrene	4426 U	8852 U		885.2 U	885.2 U	
Carbazole	3296 U	6592 U		659.2 U	659.2 U	
Chrysene	3850 U	7700 U		770 U	770 U	
Dibenzo(ah)anthracene	3886 U	7772 U		777.2 U	777.2 U	
Indeno(1,2,3,cd)pyrene	4410 U	8820 U		882 U	882 U	
Sum of Carcinogens	ND	ND		ND	ND	
PROJECT SPECIFIC NON-CARCINOGENIC COMPOUNDS						
Acenaphthene	2974 U	5948 U		594.8 U	594.8 U	
Acenaphthylene	2952 U	5904 U		590.4 U	590.4 U	
Anthracene	3190 U	6380 U		638 U	638 U	
Benzo(ghi)perylene	3984 U	7968 U		796.8 U	796.8 U	
Dibenzofuran	2808 U	5616 U		561.6 U	561.6 U	
Fluoranthene	2954 U	5908 U		590.8 U	590.8 U	
Fluorene	2884 U	5768 U		576.8 U	576.8 U	
2-Methylnaphthalene	2770 U	5540 U		554 U	554 U	
Naphthalene	2712 U	5424 U		542.4 U	542.4 U	
Phenanthrene	3108 U	6216 U		621.6 U	621.6 U	
Pyrene	3628 U	7256 U		725.6 U	725.6 U	
Sum of Non-Carcinogens	ND	ND		ND	ND	
Sum of Total PAH Compounds	ND	ND		ND	ND	
PHENOLIC COMPOUNDS						
4-Chloro-3-methylphenol	--	--		--	--	
2-Chlorophenol	--	--		--	--	
o-Cresol	17000 J	18000 J		900 J	800 J	
p-Cresol	52000	52000	0	2700 J	2300 J	
2,4-Dichlorophenol	--	--		--	--	
2,4-Dimethylphenol	6330 U	12660 U		1266 U	1266 U	
2,4-Dinitrophenol	--	--		--	--	
2-Methyl-4,6-dinitrophenol	--	--		--	--	
2-Nitrophenol	--	--		--	--	
4-Nitrophenol	--	--		--	--	
Pentachlorophenol	--	--		--	--	
Phenol	160000	160000	0	20000	17000	16.2
2,4,5-Trichlorophenol	--	--		--	--	
2,4,6-Trichlorophenol	--	--		--	--	

-- Not analyzed.
ND Not detected.
J Associated value is qualified as an estimate. The value is considered to be acceptable and usable.
U Not detected.
.007
01/25/94

TABLE 4.7-20 (cont.)

WATER QUALITY DATA
BLIND DUPLICATE SAMPLES
SEMIVOLATILE ORGANIC COMPOUNDS

(concentrations in ug/L)

	TE4M11		RPD	TE4F12		RPD
	10/19/93 Sample	10/19/93 Duplicate		10/19/93 Sample	10/19/93 Duplicate	
CARCINOGENIC COMPOUNDS						
Benzo(a)anthracene	714 U	892.5 U		1785 U	1785 U	
Benzo(b)fluoranthene	963.6 U	1204.5 U		2409 U	2409 U	
Benzo(k)fluoranthene	767.2 U	959 U		1918 U	1918 U	
Benzo(a)pyrene	885.2 U	1106.5 U		2213 U	2213 U	
Carbazole	659.2 U	824 U		1648 U	1648 U	
Chrysene	770 U	962.5 U		1925 U	1925 U	
Dibenzo(ah)anthracene	777.2 U	971.5 U		1943 U	1943 U	
Indeno(1,2,3,cd)pyrene	882 U	1102.5 U		2205 U	2205 U	
Sum of Carcinogens	ND	ND		ND	ND	
PROJECT SPECIFIC NON-CARCINOGENIC COMPOUNDS						
Acenaphthene	594.8 U	743.5 U		1487 U	1487 U	
Acenaphthylene	590.4 U	738 U		1476 U	1476 U	
Anthracene	638 U	797.5 U		1595 U	1595 U	
Benzo(ghi)perylene	796.8 U	996 U		1992 U	1992 U	
Dibenzofuran	561.6 U	702 U		1404 U	1404 U	
Fluoranthene	590.8 U	738.5 U		1477 U	1477 U	
Fluorene	576.8 U	721 U		1442 U	1442 U	
2-Methylnaphthalene	554 U	692.5 U		1385 U	1385 U	
Naphthalene	542.4 U	678 U		1356 U	1356 U	
Phenanthrene	621.6 U	777 U		1554 U	1554 U	
Pyrene	725.6 U	907 U		1814 U	1814 U	
Sum of Non-Carcinogens	ND	ND		ND	ND	
Sum of Total PAH Compounds	ND	ND		ND	ND	
PHENOLIC COMPOUNDS						
4-Chloro-3-methylphenol	--	--		--	--	
2-Chlorophenol	--	--		--	--	
o-Cresol	1200 J	1600 J		4000 J	4200 J	
p-Cresol	3400 J	4400 J		12000	13000	8.0
2,4-Dichlorophenol	--	--		--	--	
2,4-Dimethylphenol	1266 U	1582.5 U		3165 U	3165 U	
2,4-Dinitrophenol	--	--		--	--	
2-Methyl-4,6-dinitrophenol	--	--		--	--	
2-Nitrophenol	--	--		--	--	
4-Nitrophenol	--	--		--	--	
Pentachlorophenol	--	--		--	--	
Phenol	28000	36000	25.0	48000	50000	4.1
2,4,5-Trichlorophenol	--	--		--	--	
2,4,6-Trichlorophenol	--	--		--	--	

-- Not analyzed.
ND Not detected.
J Associated value is qualified as an estimate. The value is considered to be acceptable and usable.
U Not detected.
.007
01/25/94

TABLE 4.7-21

WATER QUALITY DATA
BLIND DUPLICATE SAMPLE
PESTICIDES AND PCBs

(concentrations in ug/L)

	MW6S		RPD	MW10S		RPD
	04/08/92 Sample	04/08/92 Duplicate		10/01/93 Sample	10/01/93 Duplicate	
PESTICIDES						
Aldrin	0.050 UJ	0.050 UJ		0.050 U	0.050 U	
a-BHC	0.050 UJ	0.050 UJ		0.050 U	0.050 U	
b-BHC	0.050 UJ	0.050 UJ		0.050 U	0.050 U	
d-BHC	0.050 UJ	0.050 UJ		0.050 U	0.050 U	
g-BHC (Lindane)	0.050 UJ	0.050 UJ		0.050 U	0.050 U	
Alpha Chlordane	0.050 UJ	0.050 UJ		0.050 U	0.050 U	
Gamma Chlordane	0.050 UJ	0.050 UJ		0.050 U	0.050 U	
4,4'-DDD	0.10 UJ	0.10 UJ		0.10 U	0.10 U	
4,4'-DDE	0.10 UJ	0.10 UJ		0.10 U	0.10 U	
4,4'-DDT	0.10 UJ	0.10 UJ		0.10 U	0.10 U	
Dieldrin	0.10 UJ	0.10 UJ		0.10 U	0.10 U	
Endosulfan I	0.050 UJ	0.050 UJ		0.050 U	0.050 U	
Endosulfan II	0.10 UJ	0.10 UJ		0.10 U	0.10 U	
Endosulfan Sulfate	0.10 UJ	0.10 UJ		0.10 U	0.10 U	
Endrin	0.10 UJ	0.10 UJ		0.10 U	0.10 U	
Endrin Aldehyde	0.10 UJ	0.10 UJ		0.10 U	0.10 U	
Endrin Ketone	0.10 UJ	0.10 UJ		0.10 U	0.10 U	
Heptachlor	0.050 UJ	0.050 UJ		0.050 U	0.050 U	
Heptachlor Epoxide	0.050 UJ	0.050 UJ		0.050 U	0.050 U	
Methyloxyclor	0.50 UJ	0.50 UJ		0.50 U	0.50 U	
Toxaphene	5.0 UJ	5.0 UJ		5.0 U	5.0 U	
PCBs						
PCB-1016	2.0 UJ	2.0 UJ		1.0 U	1.0 U	
PCB-1221	4.0 UJ	4.0 UJ		2.0 U	2.0 U	
PCB-1232	2.0 UJ	2.0 UJ		1.0 U	1.0 U	
PCB-1242	2.0 UJ	2.0 UJ		1.0 U	1.0 U	
PCB-1248	2.0 UJ	2.0 UJ		1.0 U	1.0 U	
PCB-1254	2.0 UJ	2.0 UJ		1.0 U	1.0 U	
PCB-1260	2.0 UJ	2.0 UJ		1.0 U	1.0 U	

J Associated value is qualified as an estimate. The value is considered to be acceptable and usable.
U Not detected.
3,.021
01/25/94

TABLE 4.7-21 (cont.)

WATER QUALITY DATA
BLIND DUPLICATE SAMPLE
PESTICIDES AND PCBs

(concentrations in ug/L)

	MW4D		RPD	MW7D		RPD
	04/07/92 Sample	04/07/92 Duplicate		10/01/93 Sample	10/01/93 Duplicate	
PESTICIDES						
Aldrin	0.050 U	0.050 U		1.0 U	0.50 U	
a-BHC	0.050 U	0.050 U		1.0 U	0.50 U	
b-BHC	0.050 U	0.050 U		1.0 U	0.50 U	
d-BHC	0.050 U	0.050 U		1.0 U	0.50 U	
g-BHC (Lindane)	0.050 U	0.050 U		1.0 U	0.50 U	
Alpha Chlordane	0.050 U	0.050 U		1.0 U	0.50 U	
Gamma Chlordane	0.050 U	0.050 U		1.0 U	0.50 U	
4,4'-DDD	0.10 U	0.10 U		2.0 U	1.0 U	
4,4'-DDE	0.10 U	0.10 U		2.0 U	1.0 U	
4,4'-DDT	0.10 U	0.10 U		2.0 U	1.0 U	
Dieldrin	0.10 U	0.10 U		2.0 U	1.0 U	
Endosulfan I	0.050 U	0.050 U		1.0 U	0.50 U	
Endosulfan II	0.10 U	0.10 U		2.0 U	1.0 U	
Endosulfan Sulfate	0.10 U	0.10 U		2.0 U	1.0 U	
Endrin	0.10 U	0.10 U		2.0 U	1.0 U	
Endrin Aldehyde	0.10 U	0.10 U		2.0 U	1.0 U	
Endrin Ketone	0.10 U	0.10 U		2.0 U	1.0 U	
Heptachlor	0.050 U	0.050 U		1.0 U	0.50 U	
Heptachlor Epoxide	0.050 U	0.050 U		1.0 U	0.50 U	
Methyloxyclor	0.50 U	0.50 U		10 U	5.0 U	
Toxaphene	5.0 U	5.0 U		100 U	50 U	
PCBs						
PCB-1016	5.0 U	5.0 U		20 U	10 U	
PCB-1221	10 U	10 U		40 U	20 U	
PCB-1232	5.0 U	5.0 U		20 U	10 U	
PCB-1242	5.0 U	5.0 U		20 U	10 U	
PCB-1248	5.0 U	5.0 U		20 U	10 U	
PCB-1254	5.0 U	5.0 U		20 U	10 U	
PCB-1260	5.0 U	5.0 U		20 U	10 U	

U Not detected.
3,.021
01/25/94

TABLE 4.7-22

WATER QUALITY DATA
BLIND DUPLICATE SAMPLES
GENERAL PARAMETERS

(concentrations in mg/L, unless noted otherwise)

	MW11S		RPD
	11/30/93 Sample	11/30/93 Duplicate	
Acidity as CaCO3	--	--	
Total Alkalinity as CaCO3	--	--	
Alkalinity, Phenolphthalein as CaCO3	--	--	
Biochemical Oxygen Demand (5-day)	--	--	
Cation-Anion Balance, %	--	--	
Chloride	--	--	
Chemical Oxygen Demand	--	--	
Total Hardness as CaCO3	--	--	
Ammonia Nitrogen	1.0	0.4	163.6
Nitrate	--	--	
Nitrite	--	--	
Oil and Grease	--	--	
Phosphorus, Total	--	--	
Specific Gravity @4oC	--	--	
Sulfate	--	--	
Total Dissolved Solids	--	--	
Total Organic Carbon	--	--	
Sulfide, total	--	--	
Suspended Solids, total	--	--	
Turbidity	--	--	

	MW6D		RPD	MW13D		RPD
	10/01/93 Sample	10/01/93 Duplicate		11/30/93 Sample	11/30/93 Duplicate	
Acidity as CaCO3	<5	<5		--	--	
Total Alkalinity as CaCO3	4460	4500	0.9	--	--	
Alkalinity, Phenolphthalein as CaCO3	--	--		--	--	
Biochemical Oxygen Demand (5-day)	1900	1900	0	--	--	
Cation-Anion Balance, %	--	--		--	--	
Chloride	3770	3920	3.9	--	--	
Chemical Oxygen Demand	4970	4190	17.0	--	--	
Total Hardness as CaCO3	162	182	11.6	--	--	
Ammonia Nitrogen	--	--		1220	1140	6.8
Nitrate	--	--		--	--	
Nitrite	--	--		--	--	
Oil and Grease	7.70	7.71	0.1	--	--	
Phosphorus, Total	--	--		--	--	
Specific Gravity @4oC	1.006	1.007	0.1	--	--	
Sulfate	152	152	0	--	--	
Total Dissolved Solids	1430	1090	27.0	--	--	
Total Organic Carbon	1120	1070	4.6	--	--	
Sulfide, total	5.1	13.1	87.9	--	--	
Suspended Solids, total	60	57	5.1	--	--	
Turbidity	--	--		--	--	

-- Not analyzed.

3..022

01/21/94

TABLE 6.1-1

PARAMETERS IDENTIFIED FOR CHARACERIZATION OF EXTENT

INORGANICS	
Arsenic (total, +III, +V)	Mercury
Cadmium	Selenium
Cyanide (total and weak acid dissociable)	Thiocyanate
Lead	
VOLATILE ORGANIC COMPOUNDS	
Benzene	Toluene
Ethyl benzene	Xylenes
SEMIVOLATILE ORGANIC COMPOUNDS	
Acenaphthene	Dibenzo(ah)anthracene
Acenaphthylene	Dibenzofuran
Anthracene	Fluoranthene
Benzo(a)anthracene	Fluorene
Benzo(a)pyrene	Indeno(1,2,3-cd)pyrene
Benzo(b)fluoranthene	2-Methylnaphthalene
Benzo(ghi)perylene	Naphthalene
Benzo(k)fluoranthene	Phenanthrene
Carbazole	Pyrene
Chrysene	
PHENOLIC COMPOUNDS	
o-Cresol	2,4-Dimethylphenol
p-Cresol	Phenol
PCBs	
PCB 1248	
GENERAL CHEMISTRY PARAMETERS	
Ammonia	

TABLE 6.2-1
ORGANIC CHEMICAL PARAMETERS

CHEMICAL DETECTI	MOLECULAR WEIGHT	SOLUBILITY (ug/L) (@ 20 C)	REFERENCI	LOG Koc	Koc	REFERENCI	VAPOR PRESSURE (mm @ 20 C)	REFERENCI	HENRY'S LAW CONSTANT (atm-m3/mol) (@ 25 C)	REFERENCI	DEGRADATION CONSTANT k (1/day)	REFERENCI	HALF LIFE t1/2 (days)	REFERENCI
VOLATILE ORGANIC COMPOUNDS														
Benzene	78	1,780,000	1	1.69	48.98	1	76.00	1	0.0055	1	0.034	6	5 - 16	10
													10 - 730	13
													68 - 110	14
Ethyl benzene	106	152,000	1	1.98	95.50	1	7.08	1	0.0066	1	0.083	6	3 - 10	10
Toluene	92	515,000	1	2.06	114.82	1	22.00	1	0.0067	1	0.1-1	7	0.7 - 7	7
													4 - 22	10
													37 - 39	14
Xylenes (m-)	106	162,000	1	2.99	977	1	8.29 @ 25 C	1	0.0070	1	0.073 - 0.087	6	7 - 28	10
Xylenes (m-,o-,p-)													11 - 37	14
CARCINOGENIC PAHS														
Benzo(a)anthracene	228	5.70	1	6.14	1.4E+06	1	5.0E-09	1	6.6E-07	1	0.005	5	166.0	5
											0.0006	2	41 - 240	2
													102 - 679	10
Benzo(a)pyrene	252	4.00	2	6.00	1.0E+06	1	5.0E-07	2	<2.4E-06	1	0.003	5	260.0	5
											0.0009	2	347	2
													68 - 263	10
Benzo(b)fluoranthene	252	1.2 @ 25 C	1	5.74	5.5E+05	1	5.0E-07	1	1.2E-05	1	0.006 - 0.007	7	98 - 130	7
													360 - 610	10
Benzo(k)fluoranthene	252	0.55 @ 25 C	1	6.64	4.4E+06	1	9.6E-11 @ 25 C	1	1.0E-03	1	0.001-0.007	8	105 - 146	9
													909 - 2139	10
Carbazole	167	NA	3	3.30	1995	11	NA	--	NA	--	NA	--	NA	--
Chrysene	228	6 @ 25 C	1	5.39	2.5E+05	1	6.3E-07	1	7.3E-20	1	0.067 - 0.126	5		
											0.0081	2	328	2
													372 - 993	10
Dibenz(ah)anthracene	278	0.50	1	6.22	1.7E+06	1	1.0E-10	1	7.3E-09	1	0.004-0.005	7	141 - 190	7
													361 - 942	10
Indeno(1,2,3,cd)pyren	276	62.00	1	7.29	1.9E+07	1	1.0E-10	1	3.0E-20	1			599 - 730	10

TABLE 6.2-1
ORGANIC CHEMICAL PARAMETERS

CHEMICAL DETECTED	MOLECULAR WEIGHT	SOLUBILITY (ug/L) (@ 20 C)	REFERENCE	LOG Koc	Koc	REFERENCE	VAPOR PRESSURE (mm @ 20 C)	REFERENCE	HENRY'S LAW CONSTANT (atm-m3/mol) (@ 25 C)	REFERENCE	DEGRADATION CONSTANT k (1/day)	REFERENCE	HALF LIFE t1/2 (days)	REFERENCE
NON-CARCINOGENIC PAHS														
Acenaphthene	154	3470 @ 25 C	1	3.66	4.6E+03	11	0.001 - 0.01	1	1.5E-04	1	0.014-0.017	8	45.0	9
													12.3-102	10
Acenaphthylene	152	3930 @ 25 C	1	3.68	4.8E+03	1	2.9E-02	1	2.8E-04	1	0.037	5	19.0	5
													42.5 - 60	10
Anthracene	178	41	1	4.27	1.9E+04	1	2.0E-04	1	6.5E-05	1	0.018	5	39.0	5
											0.0268	2	17	2
													50 - 460	10
Benzo(ghi)perylene	276	0.26	1	6.89	7.8E+06	1	1.0E-10	1	1.4E-07	1			590 - 650	10
Dibenzofuran	168	3,100	1	4.00	1.0E+04	1	2.8E-03 @ 25 C	12	NA	1	0.014-0.017	8	45.0	9
													7 - 28	10
Fluoranthene	202	166	1	4.62	4.2E+04	1	1.0E-02	1	1.7E-02	1	0.007	5	127.0	5
											0.0223	2	39	2
													140 - 440	10
Fluorene	166	1,690 @ 25 C	1	3.70	5.0E+03	1	0.001 - 0.01	1	2.1E-04	1	0.014-0.017	8	45.0	9
													32-60	10
2-Methylnaphthalene	142	24,600 @ 25 C	1	3.93	8.5E+03	1	6.8E-02	12	4.0E-04	12	0.017 - 0.025	8	29 - 33	9
Naphthalene	128	31,700 @ 25 C	4	2.74	5.5E+02	1	4.9E-02	1	4.6E-04	1	0.037	5,6,7	30.00	5,6,7
Phenanthrene	178	1,000 @ 25 C	1	3.72	5.2E+03	1	2.1E-04	1	3.9E-05	1	0.027	5	26.0	5
											0.0007	2	9.7	2
													16 - 200	10
Pyrene	202	13 @ 25 C	1	4.66	4.6E+04	1	6.9E-07	1	1.1E-05	1	0.02 - 0.231	5	3 - 35	5
											0.019	2	58	2
													210 - 1898	10
PHENOLIC COMPOUNDS														
o-Cresol	108	24,500,000	1	1.34	2.2E+01	1	0.24 @ 25 C	1	1.2E-06	1			1 - 7	10
p-Cresol	108	19,400,000	1	1.69	4.9E+01	1	4.0E-02	1	7.9E-07	1			0.04 - 0.67	10
2,4-Dimethylphenol	122	4,200,000	1	2.07	1.2E+02	1	6.2E-02	1	6.6E-06	1	0.35 - 0.69	5	1 - 2	5
													1 - 7	10
Phenol	94	84,000,000	1	1.43	2.7E+01	1	2.0E-01	1	2.7E-07	1	0.693	5	1	5
													0.25 - 3.5	10
													7 - 29	13
													0.5 - 10	13
PCBs														
PCB-1248	288	50	1	5.64	4.4E+05	1	4.9E-04@25C	1	3.5E-03	1				

1. Montgomery and Welkom, 1990.
2. Bulman et al., 1985.
3. Hawley, 1981.
4. Callahan et al., 1979.
5. Sims et al., 1986.
6. Loehr and Sims, 1987.
7. American Petroleum Institute (API), 1984.
8. Environmental Research and Technology, Inc. (ERT), 1985.
9. ERT, 1986.
10. Syracuse Research Corporation, 1989.
11. Lyman, et al., 1990.
12. Mackay, et al., 1992.
13. Howard, et al., 1991.
14. Dragun, 1988.

NA: Not Available

TABLE 6.2-2
INORGANIC CHEMICAL PARAMETERS

CHEMICAL DETECTED	MOLECULAR WEIGHT	EXPERIMENTAL OR MEASURED AQUEOUS CONCENTRATION	REFERENCE	SOIL TYPE	Kd (ml/g)	Kd (ml/g) (mean)	REFERENCE	COMMENTS
Arsenic	74.9	70 ppm	1		6 - 60		1	Lab results for [As] = 1 ppm. Kd is strongly pH dependent.
		88 ppm	2		2.95		2	Lab experiments were conducted on sandy till.
					1.9 - 18	6.7	3	Measured range for Kd in soils.
		<0.2 - 420 ppb	4	Alluvial Material	5,500 - 512		4	Lab experiments were conducted on soils.
		0.4 - 483 ppb	4	Silty Fine Sand	2,500 - 521		4	Lab experiments were conducted on soils.
		2.2 - 495 ppb	4	Brown Clayey Sand	455 - 162		4	Lab experiments were conducted on soils.
		10 - 514 ppb	4	Fine Sand	110 - 15		4	Lab experiments were conducted on soils.
Cadmium	112.4	41 ppm	2		28.6		2	Lab experiments were conducted on sandy till.
								Cd is relatively insoluble at neutral pHs and solubility
								is controlled by carbonate equolibria. Primary method of
								Cd removal from solution is precipitation (Hassett, 1986).
				River Sediment	920		5	Calculated using values for Langmuir constants Kl and Am;
								constants derived from fine-grained river sediment.
				River Sediment	928		5	Calculated using values for Langmuir constants Kl and Am;
								constants derived from fine-grained river sediment.
Lead	207.2			Fe-oxides	24,000		4	Calculated using values for Langmuir constants Kl and Am.
				Soils	980		4	Calculated using values for Langmuir constants Kl and Am.
				Sediments	1,500		4	Calculated using values for Langmuir constants Kl and Am.
					4.5 - 7,640	99.5	3	Measured range for Kd in soils.
Mercury	200.6			Sediments	50,000		4	Calculated using average values for Langmuir constants Kl
								and Am.
				Sandy Sediment	5,530		4	Calculated using values Langmuir constants Kl and Am for
								sandy sediment.
Selenium	79.0	125 ppb	4	Silty sand	2 - 46		4	Calculated from results of batch tests.
		125 ppb	4	Silty fine sand	2 - 24		4	Calculated from results of batch tests.
		125 ppb	4	Fe-oxide, pH 7	54,000 - 57,000		4	Calculated from results of batch tests.
					1.2 - 8.6	2.7	3	Measured range for Kd in soils.
Cyanide	32.0				NA	NA	6	At a pH < 9.2 most of the free cyanide in solution should exist
								as hydrogen cyanide. Existing data indicate that the adsorption
								of hydrogen cyanide to suspended solids and sediment will not be
								significant. The extent of adsorption increases with decreasing
								pH and increases with increasing iron oxide, clay and organic
								material. Adsorption is probably insignificant even for metal
								cyanides when compared to volatilization and biodegradation.

1. Xu et al., 1988.
2. Griffin et al., undated.
3. Dragun, 1988.
4. Bodek et al., 1988.
5. Rai and Zachara, 1984.
6. Syracuse Research Corporation, 1991.

NA: Not Available

TABLE 7.1-1

SUMMARY OF FIELD SCREENING RESULTS AND LABORATORY ANALYTICAL RESULTS

SAMPLE LOCATION	SAMPLE DEPTH (FT)	FIELD ANALYSIS[1]				LABORATORY ANALYSIS[2] (Concentrations in mg/kg)											
		NONMETHANE HEADSPACE (PPM)	OIL SHEEN	ODOR	pH	PAHs		PHENOL	TOTAL PHENOLS	BENZENE	BTEX	ARSENIC	CYANIDE	CADMIUM	LEAD	MERCURY	SELENIUM
						TOTAL	CARC.										
BS01	2.0-4.0	0	N	N	--	.122 a	.04 a	.35 U	ND	.011 U	ND	1.7 B	.19 U	.62 U	3.6 J	.08 U	.27 U
BS02	2.0-4.0	2	N	N	--	.417 a	.182 a	.35 U	ND	.011 U	.004 a	2 B	.19 U	.62 U	9.2 J	.08 U	.27 U
BS03	2.0-4.0	2	N	N	--	18.556 a	9.58 a	.45 U	ND	.013 U	.009 a	235	.25 U	7.3	434 J	1.7	.93 BJ
BS04	2.0-4.0	0	N	N	--	ND	ND	.35 U	ND	.011 U	ND	1.9 B	.19 U	.61 U	5 J	.08 U	.27 U
BS05	2.0-4.0	1	N	N	--	.815 a	.365 a	.39 U	ND	.012 U	ND	.76 UJ	.22 U	.72 U	3.4 J	.09 U	.32 U
BS06	2.0-4.0	0	N	N	--	.089 a	ND	.35 UJ	ND	.002 J	.009 a	1.7 BJ	1.2 BJ	.62 U	3.5 J	.07 U	.27 U
BS07	2.0-4.0	75	N	N	--	ND	ND	.39 UJ	ND	.012 U	.002 a	2.2 BJ	.22 R	.7 U	3.6 J	.08 U	.31 U
BS08	2.0-4.0	3	N	N	--	ND	ND	.4 UJ	ND	.012 U	.001 a	2.8 J	.22 R	.71 U	4.8 J	.08 U	.31 U
DS01	1.5	3	N	S	7.8	194.1 a	35.2 a	.450 U	ND	.01 U	ND	13.4	.13 U	.61 U	6.9 J	.02 U	.32 U
DS02	1.5	1	N	M	7.8	221.56 a	33.7 a	.450 U	ND	.011 U	ND	2.2	.25 B	1.4	14.1 J	.02 U	.44 B
DS03	1.5	4	N	L	8.2	207.09 a	87 a	.440 U	ND	.01 U	ND	3.9	.13 U	.61 U	13.6 J	.02 U	.32 U
GS01	0-0.5	0	N	N	7.6	.811 a	.418 a	.049 U	ND	.0011 U	.0005 a	5.2 J	.12 U	.93 B	22.7	.1	.55 BJ
GS02	0-0.5	0	N	N	7.2	2.177 a	1.098 a	.061 U	ND	.0014 U	.0003 a	8.2 J	.24 U	.9 B	32.3	.08 U	.57 UJ
GS03	0-0.5	0	N	N	7.6	26.94 a	15.31 a	.096 U	ND	.0011 U	ND	34.8 J	1.5 U	.65 U	79.4	10.3	.54 BJ
GS04	0-0.5	0	N	N	8	ND	ND	.044 U	ND	.001 U	ND	2.6 J	.15 U	3.5	12.5	.02 U	.43 UJ
GS05	0-0.5	0	N	N	7.4	3.707 a	2.165 a	.054 U	ND	.0012 U	ND	3.1 J	1 U	1.8	25.6	.02 U	.75 BJ
GS06	0-0.5	0	N	N	9.1	ND	ND	.045 U	ND	.001 U	ND	1.2 BJ	.51 U	.61 U	13.2	.02 U	.44 UJ
GS07	0-0.5	0.3	N	L	5.6	179.1 a	58.1 a	.056 U	ND	.0013 U	ND	164 J	388	1.2 B	99	5.7	4.9 J
GS08	0-0.5	0	N	N	7.5	674 a	396.9 a	5.6 U	ND	.0013 U	ND	87.8 J	1.8 U	1.4	76.8	.97	2.6 J
GS09	0-0.5	0	N	N	8.6	10.87 a	5.1 a	.047 U	ND	.0011 U	ND	3.9 J	.1 U	.62 U	4.5	.02 U	.45 UJ
GS10	0-0.5	0	N	N	8.5	.474 a	.26 a	.046 U	ND	.0011 U	ND	2.4 J	.99 U	.61 U	5.7	.02 U	.44 UJ
GS11	0-0.5	0	N	N	8.1	130.03 a	56.3 a	.48 U	.52 a	.0011 U	ND	54.3 J	.64 U	.64 U	128	.3	.65 BJ
GS12	0-0.5	0.2	N	N	8	9.2 a	4.43 a	.044 U	ND	.0011 U	ND	18.6 J	.9 U	.65 U	11.3	.02 U	.47 UJ

TABLE 7.1-1 (Cont.)

SUMMARY OF FIELD SCREENING RESULTS AND LABORATORY ANALYTICAL RESULTS

SAMPLE LOCATION	SAMPLE DEPTH (FT)	FIELD ANALYSIS[1]				LABORATORY ANALYSIS[2] (Concentrations in mg/kg)											
		NONMETHANE HEADSPACE (PPM)	OIL SHEEN	ODOR	pH	PAHs TOTAL	PAHs CARC.	PHENOL	TOTAL PHENOLS	BENZENE	BTEX	ARSENIC	CYANIDE	CADMIUM	LEAD	MERCURY	SELENIUM
GS13	0-0.5	0	N	N	7.8	9.302 a	3.203 a	.11 J	.37 a	.0011 U	ND	4.1 J	.51 U	.62 U	10.9	.02 U	.44 UJ
GS14	0-0.5	0	N	N	7.8	3.458 a	1.159 a	.045 U	ND	.001 U	ND	4.2 J	.1 U	.6 U	4.2	.02 U	.43 UJ
GS15	0-0.5	2.6	N	N	7.6	3592 a	2188 a	.49 U	ND	.0002 J	.001 a	20.2 J	4.5	.66 U	49.9	.73	1.3 J
GS16	0-0.5	0	N	N	7.5	20.06 a	8.39 a	.10 U	ND	.0003 J	.0014 a	5.2 J	.2 U	.69 U	19.2	.02 U	1.3 J
GS17	0-0.5	0	N	N	8.2	14.068 a	7.57 a	.048 U	ND	.0011 U	ND	6.2 J	.53 U	.65 U	17.6	.04 U	.47 UJ
MW30	26.0-28.0	160	N	L	--	ND	ND	71	105 a	.012 U	.004 a	--	--	--	--	--	--
P107	11.5-13.5	400	N	S	8.7	ND	ND	28	47.7 a	.058	.0985 a	10.1 J	0.36 B	0.67 U	2.6	0.02 U	0.48 BJ
PW01	14.5-16.5	180	N	L	7.8	1.154 a	ND	.051 U	ND	.0027	.0059 a	161	.18 B	.69 U	3 J	.02 U	7.1
PW01	27.0-29.0	130	T	S	8.4	ND	ND	50	76 a	.065	.083 a	250	.97 B	.73 U	3 J	.03 U	2
SB04	30.0-32.0	1250	N	M	--	ND	ND	35	80.9 a	.019	.022 a	--	--	--	--	--	--
SB06	22.5-24.5	150	N	M	--	3.45 a	ND	37 J	88.6 a	.11	.18	--	--	--	--	--	--
SB07	2.0-4.0	0	N	N	8.2	.177 a	ND	.057 U	.164 a	.0015 J	.0019 a	54.9 J	.37 B	1 B	17.7 J	.46	.65 BJ
SB07	7.0-9.0	5	N	N	8	1.039 a	.173 a	.051 U	ND	.0012 U	.0003 a	37.4 J	.45 B	.78 U	9.3 J	.14	1.1 BJ
SB07	17.0-19.0	70	N	L	8.3	4.9	ND	.052 U	ND	.0014	.0084 a	9.2 J	.41 B	.76 B	3.3 J	.09 U	.89 BJ
SB07	24.5-26.5	200	N	M	8.4	5.6 a	ND	200	297 a	.0029	.0188	7.8 J	.65 B	.88 B	4.5 J	.09 U	.8 BJ
SB07	29.5-31.5	70	N	S	8.3	6.1 a	ND	210	309 a	.0014	.0108	14.9 J	.74 B	.74 U	5.4 J	.07 U	.71 BJ
SB08	14.5-16.5	2	N	N	9	ND	ND	.052 U	ND	.0003 J	.0003 a	1.9 BJ	.12 U	.68 U	4.6	.07 U	.49 U
SB08	22.0-24.0	1440	N	N	8.5	ND	ND	.052 U	ND	.0059	.0059	1.8 BJ	1.1 B	.72 U	3.1	.06 U	.51 U
SB08	27.0-29.0	1000	N	M	8.5	ND	ND	100	189.6	.43	.58	39.3 J	.87 B	.74 U	4.9	.1 U	.55 B
SB09	4.5-6.5	23	N	N	4.2	9.927 a	.062 a	.051 U	ND	.0003 J	.0006 a	761 J	2.6	.69 U	20.1	1.6	.52 B
SB09	19.5-21.5	74	N	L	8.1	.3 a	ND	39	61.2 a	.0003 J	.0063 a	50.4 J	3.4	1.1 B	4.3	.09 U	1.2
SB09	27.0-29.0	33	N	M	8.2	.133 a	ND	21	41.3	.0018	.0038 a	58.7 J	2.7	.71 U	3.4	.08 U	.97 B

TABLE 7.1-1 (Cont.)

SUMMARY OF FIELD SCREENING RESULTS AND LABORATORY ANALYTICAL RESULTS

SAMPLE LOCATION	SAMPLE DEPTH (FT)	FIELD ANALYSIS[1]				LABORATORY ANALYSIS[2] (Concentrations in mg/kg)											
		NONMETHANE HEADSPACE (PPM)	OIL SHEEN	ODOR	pH	PAHs TOTAL	PAHs CARC.	PHENOL	TOTAL PHENOLS	BENZENE	BTEX	ARSENIC	CYANIDE	CADMIUM	LEAD	MERCURY	SELENIUM
SB10	4.5-6.5	0	N	N	8.4	ND	ND	.049 U	ND	.0011 U	ND	1.5 BJ	.12 U	.71 U	4.3	.06 U	.51 U
SB10	14.5-16.5	65	N	L	8.8	ND	ND	.083 J	.083 a	.01	.0369	5.2 J	.13 U	.74 U	3.3	.09 U	.53 U
SB10	24.5-26.5	910	N	M	8.6	ND	ND	22	66.2	.8	1.121 a	134 J	2.7	.7 U	3.5	.07 U	.78 B
SB13	22.0-24.0	20	N	N	8.8	ND	ND	.069 J	.069 a	.0032	.0032	4.1	.36 B	.73 U	5.1 J	.02 U	1.1 B
SB13	24.5-26.5	500	N	L	8.5	ND	ND	.13 J	.752 a	.0055	.0058 a	8.9	.61 U	.74 U	7 J	.02 U	.92 B
SB13	29.5-31.5	125	N	S	8.4	ND	ND	59	108.4	.054	.0549 a	56.1	.6 U	.73 U	6.8 J	.02 U	1.6
SB14	7.0-9.0	5	N	L	7.8	ND	ND	.052 U	ND	.0002 J	.0002 a	4.7 J	.12 U	.71 U	5.2	.07 U	.51 UJ
SB14	17.0-19.0	140	N	L	8.4	ND	ND	.054 U	ND	.0012 U	ND	6.9 J	.18 B	.71 U	3.3	.07 U	.51 UJ
SB14	29.5-31.5	75	N	L	8.5	ND	ND	.047 U	ND	.0059	.0059	6.3 J	.58 U	1.3	4.4	.07 U	.51 UJ
SB15	17.0-19.0	110	N	N	8.6	ND	ND	.052 U	ND	.0012 U	ND	2.5 B	.62 U	.76 U	2.9 J	.02 U	.54 U
SB16	2.0-4.0	0	T	N	8.2	24.91 a	10.35 a	.1 U	ND	.001 J	.0019	14.3	.12 R	1.3	180 J	.08 U	.37 UJ
SB16	7.0-9.0	100	T	L	8.5	1.047 a	.054 a	.051 U	ND	.0002 J	.0008 a	16.7	.12 R	.71 U	6.2 J	.07 U	3.7 J
SB16	17.0-19.0	5	N	L	8.5	.051 a	ND	.049 U	ND	.0004 J	.0013 a	9.5	.43 BJ	.73 U	2.1 J	.02 U	1.5 J
SB16	27.0-29.0	1000	N	L	8.6	ND	ND	.052 U	4.45	.0019	.0019	7	1.8 BJ	.71 U	2.5 J	.02 U	.62 BJ
SB17	2.0-4.0	--	--	--	--	1.004 a	.134 a	.05 U	ND	.0012 U	ND	41.2 J	3 J	.77 U	5.1 J	.06 U	3.2 J
SB17	7.0-9.0	35	N	N	7.7	1.369 a	.176 a	.051 U	ND	.0012 U	ND	156	.93 BJ	.8 B	5.1 J	.02 U	3.1 J
SB17	17.0-19.0	10	N	L	9	ND	ND	.051 U	ND	.0012 U	ND	9.3	.12 R	.71 U	2.1 J	.02 U	.99 BJ
SB17	29.5-31.5	--	N	L	8.2	ND	ND	5.8	27 a	.045	.0489 a	91.4	1.9 BJ	.99 B	2.9 J	.02 U	.43 BJ
SB18	2.0-4.0	1	T	N	6.7	8.608 a	2.708 a	.89 J	1.64 a	.0026 J	.0163 a	41.5 J	.17 U	1.1 U	10 J	.1 U	1.2 B
SB18	7.0-9.0	10	N	L	6.8	.459 a	.12 a	.051 U	ND	.0012 U	ND	9.4 J	.11 U	.7 U	2.9 J	.03 U	1.2
SB18	17.0-19.0	600	N	L	8.7	4.6 a	ND	.051 U	ND	.0006 J	.0006 a	4.5 J	.11 U	1.3	4.4 J	.02 U	.63 B
SB18	27.0-29.0	250	N	L	8.1	ND	ND	.73	4.47	.018	.023	18.2 J	3.2	.99 B	3.5 J	.02 U	.64 B

TABLE 7.1-1 (Cont.)

SUMMARY OF FIELD SCREENING RESULTS AND LABORATORY ANALYTICAL RESULTS

SAMPLE LOCATION	SAMPLE DEPTH (FT)	FIELD ANALYSIS[1]				LABORATORY ANALYSIS[2] (Concentrations in mg/kg)											
		NONMETHANE HEADSPACE (PPM)	OIL SHEEN	ODOR	pH	PAHs TOTAL	PAHs CARC.	PHENOL	TOTAL PHENOLS	BENZENE	BTEX	ARSENIC	CYANIDE	CADMIUM	LEAD	MERCURY	SELENIUM
SB19	2.0-4.0	0	N	L	7.2	ND	ND	.051 U	ND	.0012 U	ND	67.2 J	1.8	.73 U	36.6 J	.29	.84 B
SB19	7.0-9.0	20	N	M	7.3	7.854 a	.21 a	.05 U	ND	.0012	.1072	24.9 J	.43 B	.69 U	3 J	.04 U	1.6
SB19	17.0-19.0	10	N	M	7.1	2	ND	.05 U	ND	.0082	.011 a	3.8 J	1.4	.72 U	4.8 J	.03 U	.86 B
SB19	27.0-29.0	200	T	M	7.5	ND	ND	.054 U	ND	.0092	.0097 a	10.5 J	3.4	.73 U	5.9 J	.02 U	1.1 B
SB20	2.0-4.0	4	T	N	7	15.94 a	6.16 a	.21 J	.409 a	.0013 U	ND	104 J	12.6	3.1	78.1 J	.46	6.7
SB20	7.0-9.0	130	T	M	7	1.339 a	.143 a	.13 J	.13 a	.001 J	.0016 a	26.2 J	.33 B	.69 U	9.2 J	.02 U	2.5
SB20	17.0-19.0	250	N	L	8.8	4.5	ND	.1 U	.12 a	.0012 U	.0154 a	7.7 J	.85 B	1.7	3.1 J	.02 U	.98 B
SB20	19.5-21.5	2750	N	L	8.8	8.1	ND	21	38.3 a	.0012 U	.0309 a	6.1 J	.59 U	.72 U	2.8 J	.02 U	.75 B
SB20	27.0-29.0	75	N	M	8.8	ND	ND	160	235 a	.092	.178	10.4 J	.91 B	.75 U	3 J	.02 U	1 B
SB21	2.0-4.0	0	N	N	8.7	20.44 a	10.61 a	.16 J	.24 a	.0003 J	.0003 a	157	.31 B	.8 U	15 J	.18	.59 B
SB21	7.0-9.0	300	N	L	8.2	7.8	ND	.2 U	ND	.0004 J	.0021 a	20.7	1.4	.73 U	3.3 J	.17	3.1
SB21	17.0-19.0	40	N	L	7.8	9.7	ND	.55 J	1.5 a	.0016 U	.0064 a	6.2	.34 B	1 B	3.6 J	.07 U	1.1 B
SB21	29.5-31.5	230	N	L	8.7	19 a	ND	230	332 a	.028	.0432 a	9	.12 U	.72 U	5 J	.07 U	1 B
SB22	2.0-4.0	3	N	N	7.8	.721 a	.337 a	.059 J	.059 a	.0012 J	.0037 a	36.5	.68 B	.75 B	37.3	.05 U	.96 BJ
SB22	7.0-9.0	300	T	L	8.2	2.45 a	.54	.049 U	ND	.0003 J	.0003 a	3.3	.2 B	.7 U	2.6	.03 U	2.3 J
SB22	17.0-19.0	2000	N	M	8.7	.39	ND	.051 U	ND	.0049	.0116 a	6.7	.4 B	.69 U	3.8	.02 U	2.1 J
SB22	27.0-29.0	400	N	M	9	ND	ND	310	461 a	.0013 U	.0109 a	7.6	.7 B	.72 U	3.1	.02 U	.47 BJ
SB23	2.0-4.0	0	T	L	7.7	.293 a	ND	.24 J	.37 a	.0004 J	.0004 a	92	.15 U	.91 B	29	.04 U	2.9
SB23	7.0-9.0	0	T	L	7.8	.321 a	ND	.052 U	ND	.0004 J	.0036 a	51.2 J	.18 B	.73 U	14.3	.05 U	.6 B
SB23	17.0-19.0	5	N	L	8	3.1	ND	.051 U	ND	.0012 U	.0032 a	7.1	.12 U	.7 U	6.2	.06 U	.58 B
SB23	29.5-31.5	50	N	S	8.5	.69	ND	200	303.2	.042	.084 a	29.5	.6 U	.71 U	4.9	.04 U	1.2 B

TABLE 7.1-1 (Cont.)

SUMMARY OF FIELD SCREENING RESULTS AND LABORATORY ANALYTICAL RESULTS

SAMPLE LOCATION	SAMPLE DEPTH (FT)	FIELD ANALYSIS[1]				LABORATORY ANALYSIS[2] (Concentrations in mg/kg)											
		NONMETHANE HEADSPACE (PPM)	OIL SHEEN	ODOR	pH	PAHs TOTAL	PAHs CARC.	PHENOL	TOTAL PHENOLS	BENZENE	BTEX	ARSENIC	CYANIDE	CADMIUM	LEAD	MERCURY	SELENIUM
SB24	2.0-4.0	3	N	L	7.1	61.39 a	36.2 a	5.3 U	ND	.0002 J	.002 a	12.2 J	32.5 J	.82 U	14.4 J	1.7	20.4
SB24	7.0-9.0	30	N	S	7	30.58 a	15	2.6 J	4.8 a	.0073	.0261	8.5 J	8.5 J	.75 U	2.6 J	.43	1.1 B
SB24	17.0-19.0	25	N	S	8.7	8.116 a	.14 a	.11 J	1.48 a	.018	.0594	6.6 J	.28 B J	.8 B	2.3 J	.13	.71 B
SB24	29.5-31.5	50	T	S	9.3	1.2 a	ND	20	29.5 a	.0068	.0171 a	6.7 J	.52 BJ	.89 B	3.5 J	.14	1 B
SB25	2.0-4.0	2	N	N	6.4	ND	ND	.054 U	ND	.0012 U	ND	7.6 J	.12 R	1.6	11.2 J	.04 U	.37 U
SB25	7.0-9.0	7	N	N	6.3	3.03 a	.22 a	.052 J	.052 a	.0032	.0032	7.5 J	.12 R	.72 U	7.5 J	.02 U	.37 U
SB25	17.0-19.0	8	T	L	8.3	2.44 a	ND	.048 U	ND	.001 J	.002 a	2.6 J	.12 R	.72 U	3.7 J	.02 U	1.2 B
SB25	27.0-29.0	250	N	L	8.7	.71 a	ND	31	50.9 a	.0015	.0127	4.6 J	.12 R	.72 U	4.2 J	.02 U	.88 B
SB26	2.0-4.0	2	N	N	7	1861.2 a	178.2 a	19 J	31 a	.2	4.12	233 J	1.9 BJ	1.9	46.5 J	.05 U	.45 B
SB26	7.0-9.0	--	N	N	6.9	3.049 a	ND	.049 U	ND	.0011 U	ND	12.1 J	.12 R	.71 U	4.9 J	.02 U	.51 B
SB26	17.0-19.0	5	N	M	8.6	4.9	ND	.051 U	ND	.002	.0066 a	3.2 J	.12 BJ	.7 U	1.9 J	.02 U	1.2
SB26	27.0-29.0	40	N	S	8.8	ND	ND	43	71.5 a	.0019	.0102	25.2 J	.17 BJ	1.5	5.7 J	.02 U	3.1
SB27	2.0-4.0	0	N	N	8.8	11150 a	1270 a	5 U	ND	.058 UJ	.1 a	4.1 J	.12 B	.67 U	11.4	.06 U	.49 B
SB27	7.0-9.0	154	H	S	--	9840 a	630 a	5.1 U	ND	.59 U	1.2	4.4 J	.2 B	.67 U	3.3	.07 U	.48 U
SB27	17.0-19.0	76	H	M	--	316.9 a	33.6 a	2.5 U	ND	.0012 U	.0029 a	6 J	.17 B	.7 U	2.6	.05 U	.9 B
SB27	27.0-29.0	272	M	L	--	140.93 a	15.12 a	6	10.47 a	.0012 U	.0698 a	6.9 J	1.3 B	.72 U	4.2	.06 U	1 B
SB28	2.0-4.0	2	T	N	7.9	109.33 a	56.2 a	.53 U	ND	.0012 U	ND	5.4	.18 BJ	.67 U	17.9 J	.09 U	.61 BJ
SB28	7.0-9.0	20	H	M	7.4	67.3 a	5.6 a	.52 U	ND	.0012 U	ND	.7 B	.12 R	.72 U	1.7 J	.03 U	.37 UJ
SB28	17.0-19.0	20	T	M	9	30.5 a	1.5 a	.51 U	ND	.0003 J	.0206	5.6	.17 BJ	.82 B	2.7 J	.02 U	1.1 BJ
SB28	27.0-29.0	1400	M	M	9	13.53 a	ND	100	153.7	.021	.0434 a	23.1	2.7 J	.71 U	3.4 J	.02 U	.55 BJ

TABLE 7.1-1 (Cont.)

SUMMARY OF FIELD SCREENING RESULTS AND LABORATORY ANALYTICAL RESULTS

SAMPLE LOCATION	SAMPLE DEPTH (FT)	FIELD ANALYSIS[1]				LABORATORY ANALYSIS[2] (Concentrations in mg/kg)											
		NONMETHANE HEADSPACE (PPM)	OIL SHEEN	ODOR	pH	PAHs		PHENOL	TOTAL PHENOLS	BENZENE	BTEX	ARSENIC	CYANIDE	CADMIUM	LEAD	MERCURY	SELENIUM
						TOTAL	CARC.										
SB29	2.0-4.0	0	T	N	7.7	1.159 a	.45 a	.048 U	ND	.0007 J	.0015 a	12.6 J	.11 U	.67 U	8.6	.05 U	2
SB29	7.0-9.0	1.5	N	N	7.6	16.45 a	2.24 a	.27 U	ND	.0012 U	ND	6 J	.14 U	1.4 B	10.9 J	.03 U	1.2 BJ
SB29	17.0-19.0	400	N	L	8.7	ND	ND	13	21.4	.0012 U	.0703	8.5 J	.11 U	.7 U	3.4 J	.03 U	.96 BJ
SB29	24.5-26.5	200	N	L	8.5	ND	ND	31	57.5	.0012 U	.0367 a	11.1 J	.94 B	.92 B	2.5 J	.02 U	.47 BJ
SB30	4.5-6.5	0	N	N	8.2	141.9 a	83.1 a	.53 U	ND	.012 U	ND	9.8 J	.75 U	.70 U	54.5	.08 U	.36 U
SB30	14.5-16.5	0	N	N	8.1	ND	ND	.045 U	ND	.011 U	ND	3.5 J	.50 U	.61 U	9.8	.02 U	.32 U
SB30*	19.5-21.5 (1.8-3.8)	0	N	N	7.9	ND	ND	.051 U	ND	.012 U	ND	1.4 BJ	.56 U	.68 U	1.8	.02 U	.35 U
SB30*	24.5-26.5 (6.8-8.8)	3	N	N	7.8	ND	ND	.063 J	.063 a	.0012 U	ND	3.0 J	.12 U	.71 U	2.8 J	.03 U	.37 R
SB30*	34.5-36.5 (16.8-18.8)	40	T	M	8.1	ND	ND	59	92.1a	.0012 U	.0011 a	7.8 J	.13 B	.70 U	3.1 J	.02 U	.36 R
SB30*	42-44 (24.3-26.3)	35	T	S	8.6	ND	ND	28	61 a	.050	.0549 a	10.8 J	.61 U	.71 U	4.3 J	.02 U	.51 BJ
SB31	4.5-6.5	0	N	N	8.4	2.796 a	1.066 a	.045 U	.046 a	.011 U	ND	6.0 J	.51 U	.62 U	4.3	.02 U	.32 U
SB31	14.5-16.5	0	N	N	8.2	5.514 a	2.155 a	.045 U	ND	.011 U	ND	1.6 BJ	.10 U	.61 U	2.9	.02 U	.32 U
SB31*	22-24 (1.9-3.9)	0	N	N	6.9	ND	ND	.051 U	ND	.012 U	ND	1.2 BJ	.12 U	.72 U	2.0	.02 U	.37 U
SB31*	27-29 (6.9-8.9)	1	N	N	7.2	ND	ND	.052 U	ND	.0012 U	ND	1.2 BJ	.12 U	.70 U	2.1 J	.02 U	.76 BJ
SB31*	37-39 (16.9-18.9)	300	N	N	7.4	ND	ND	.053 U	ND	.0012 U	ND	5.9 J	.61 U	.71 U	3.0 J	.02 U	.37 R
SB31*	42-44 (21.9-23.9)	800	N	S	8.3	ND	ND	.057 U	.063 a	.0082	.0082	14.7 J	.63 U	.73 U	3.6 J	.02 U	.38 R
SB31*	46.5-48.5 (26.4-28.4)	200	T	S	8.1	ND	ND	14	84	.0035	.0038 a	19.0 J	.59 U	.68 U	5.5 J	.02 U	.38 BJ

TABLE 7.1-1 (Cont.)

SUMMARY OF FIELD SCREENING RESULTS AND LABORATORY ANALYTICAL RESULTS

SAMPLE LOCATION	SAMPLE DEPTH (FT)	FIELD ANALYSIS[1]				LABORATORY ANALYSIS[2] (Concentrations in mg/kg)											
		NONMETHANE HEADSPACE (PPM)	OIL SHEEN	ODOR	pH	PAHs		PHENOL	TOTAL PHENOLS	BENZENE	BTEX	ARSENIC	CYANIDE	CADMIUM	LEAD	MERCURY	SELENIUM
						TOTAL	CARC.										
SB32	2.0-4.0	0	T	N	7	19 a	9.28 a	.051 U	ND	.0012 U	.0003 a	9.7	.11 U	.66 U	21.2 J	.13	.47 U
SB32	7.0-9.0	0	N	N	6.5	.83 a	.062 a	.076 J	.076 a	.0012 U	ND	6.6	.93 B	.79 B	2.6 J	.05 U	1.8
SB32	17.0-19.0	15	T	M	6.5	.583 a	.064 a	.048 U	.26 a	.032	.0349 a	7.4	.88 B	.71 U	2 J	.06 U	.5 U
SB32	27.0-29.0	30	N	M	7	21	ND	5.4	26.1	.0049	.0216 a	11.2	.61 U	.71 U	2.5 J	.05 U	.82 B
SB32	37.0-39.0	80	T	M	8.7	.23 a	ND	52	95.4	.024	.0291	28.6	.55 U	.64 U	6 J	.06 U	.7 B
SB33	2.0-4.0	0	N	L	8.5	819.66 a	26.06 a	.51 U	ND	.24 U	12.11	620	13.1	.85 B	59.6 J	.38	5.1
SB33	7.0-9.0	120	N	S	7.5	99.122 a	.422 a	.051 U	.151 a	.0003 J	.0403 a	23.5	.2 B	.71 U	3.1 J	.09 U	1.9
SB33	17.0-19.0	50	M	S	7.6	16.64	ND	.32 J	4.39 a	.0035	.0232 a	21.8	.61 U	.7 U	2.4 J	.09 U	.96 B
SB33	27.0-29.0	44	T	M	8.5	9	ND	2.5	8.92	.0026	.0132 a	16.8	.61 U	.72 U	1.9 J	.09 U	.64 B
SB34	2.0-4.0	10.5	M	M	7.4	1637 a	30 a	35 U	ND	.77	44.09	170 J	29.4 J	1.3	67.5 J	1.3	2.2 J
SB34	7.0-9.0	315	N	M	7.3	53.1 a	1.4 a	1.2 U	ND	.0011 U	.002 a	160 J	38.2 J	.81 U	12.8 J	1.3	2 J
SB34	17.0-19.0	90	N	M	7	18.66	ND	7.4	11.9 a	.0012 U	.0015 a	42.7 J	1.7 BJ	.72 U	3.4 J	.02 U	.37 R
SB34	27.0-29.0	37	T	L	8.2	ND	ND	130	196 a	.0003 J	.0053 a	15.5 J	.59 UJ	.72 U	2.9 J	.02 U	.37 R
SB35	2.0-4.0	0.2	T	N	9.2	.183 a	.059 a	.05 U	ND	.0012 U	ND	104 J	.49 U	.72 U	2.7 J	.06 U	.37 UJ
SB35	7.0-9.0	10	M	N	8.3	.481 a	.105 a	.05 U	ND	.0012 U	ND	16.3 J	.16 U	.68 U	3.8 J	.06 U	1.7 J
SB35	17.0-19.0	10	N	L	9.2	ND	ND	2.3	6.29	.0006 J	.0054 a	3.2 J	.3 U	.71 U	2.5 J	.04 U	.61 BJ
SB35	27.0-29.0	50	N	M	9	ND	ND	270	384 a	.014	.035	22.9 J	.62 U	.64 U	4.4 J	.04 U	.69 BJ
SB36	2.0-4.0	2.5	T	N	8.6	1.343 a	.666 a	.2 J	.2 a	.0004 J	.0009 a	20.9 J	.19 U	.77 U	37.5 J	.13	.4 UJ
SB36	7.0-9.0	0.5	T	N	8.3	5.179 a	2.682 a	.049 U	ND	.0011 U	ND	12.7 J	1.3 U	.78 U	9.8 J	.06 U	2.5 J
SB36	17.0-19.0	5	N	N	8.8	ND	ND	.049 U	ND	.0089	.0091 a	2.5 J	.24 U	.68 U	3.9 J	.06 U	.98 BJ
SB36	29.5-31.5	30	N	S	9	ND	ND	290	417 a	.0007 J	.0012 a	69.6 J	.69 U	.77 U	9.3 J	.05 U	.52 BJ

TABLE 7.1-1 (Cont.)

SUMMARY OF FIELD SCREENING RESULTS AND LABORATORY ANALYTICAL RESULTS

SAMPLE LOCATION	SAMPLE DEPTH (FT)	FIELD ANALYSIS[1]				LABORATORY ANALYSIS[2] (Concentrations in mg/kg)											
		NONMETHANE HEADSPACE (PPM)	OIL SHEEN	ODOR	pH	PAHs		PHENOL	TOTAL PHENOLS	BENZENE	BTEX	ARSENIC	CYANIDE	CADMIUM	LEAD	MERCURY	SELENIUM
						TOTAL	CARC.										
SB37	2.0-4.0	0	N	N	8.8	.098 a	ND	.051 U	ND	.0012 U	.0004 a	3.1 J	1 U	.67 U	6.8 J	.05 U	.51 BJ
SB37	7.0-9.0	0	N	N	8.3	.85 a	.267 a	.051 U	ND	.0012 U	ND	2.5 J	.67 U	.69 U	2.5 J	.04 U	.82 BJ
SB37	17.0-19.0	6	N	L	9.2	ND	ND	.059 J	.059 a	.0011 U	ND	2.9 J	.12 U	.7 U	2.5 J	.02 U	.69 BJ
SB37	32.0-34.0	80	N	S	9	ND	ND	170	261 a	.0011 J	.0014 a	24.7 J	.24 U	.71 U	3.2 J	.04 U	.37 UJ
SB38	2.0-4.0	0	T	N	8.9	19.95 a	11.17 a	.091 U	ND	.0011 U	.0004 a	26.4	.22 B	1.9	36.3	1.4	.5 BJ
SB38	7.0-9.0	3	N	N	8.6	1.909 a	.943 a	.05 U	ND	.0012 U	ND	23.3	.6 B	.79 U	215	.45	.4 U
SB38	17.0-19.0	1.5	N	N	9	2.844 a	1.167 a	.05 U	ND	.0012 U	ND	6	1 B	.99 B	2.5	.13	.37 U
SB38	29.5-31.5	15	N	L	7.7	ND	ND	.36 J	.664 a	.024	.0261 a	24.1	1.1 B	.72 U	2.7	.12 U	.38 U
SB39	2.0-4.0	0	N	N	9.1	69.4 a	27.2 a	.49 U	ND	.0011 J	.0019 a	21.8 J	.2 U	.69 U	39.3 J	2.7	1.1 BJ
SB39	7.0-9.0	400	M	M	8	13.286 a	ND	.064 J	.064 a	.0007 J	.0096 a	2.3 BJ	.12 U	.72 U	2.1 J	.02 U	.52 UJ
SB39	17.0-19.0	150	T	S	9	28.112 a	.695 a	2	5.2	.0025 U	.1409	3.9 J	.11 U	.7 U	3.7 J	.02 U	.98 BJ
SB39	29.5-31.5	70	T	S	9.3	11.11 a	ND	98	173.5	.0047 J	.0967	49.1 J	1.8 U	.71 U	3.6 J	.02 U	.5 UJ
SB40	2.0-4.0	25	T	M	7.5	76000 a	11600 a	2.6 U	ND	1.5	103.6	25.3	3.8 J	.66 U	16.7	.42	1.2 J
SB40	9.5-11.5	525	H	M	8.2	2064 a	334 a	21 U	ND	.68	22.39	4.9	5.3 J	.73 U	7.1	.51	.95 J
SB40	17.0-19.0	220	T	L	8.2	22	ND	1.1 J	3.2 a	.0012 U	.0062 a	5	.63 BJ	.94 B	3	.11	.91 BJ
SB40	24.5-26.5	140	N	S	9	ND	ND	210	312 a	.0012 U	.034 a	32.2	.6 UJ	1.2 B	2.7	.12	.49 BJ
SB41	2.0-4.0	0	T	N	7.4	17.34 a	11.31 a	.1 U	ND	.0012 U	ND	29.5 J	.11 U	1.1 B	51.8 J	.28	1.5 J
SB41	7.0-9.0	16	M	S	8.5	14.587 a	.21 a	.051 U	ND	.0012 U	.0111 a	5.3 J	.12 U	.73 U	3.7 J	.07 U	.52 UJ
SB41	17.0-19.0	140	T	S	9.2	5.273 a	.911 a	.05 U	ND	.019	.0296 a	10.2 J	.44 U	.67 U	2.7 J	.06 U	.48 UJ
SB41	27.0-29.0	50	H	S	8.7	52.432 a	1.442 a	39	60 a	.0092	.3476	65.6 J	1.5 U	.75 U	2.9 J	.06 U	.53 UJ

TABLE 7.1-1 (Cont.)

SUMMARY OF FIELD SCREENING RESULTS AND LABORATORY ANALYTICAL RESULTS

SAMPLE LOCATION	SAMPLE DEPTH (FT)	FIELD ANALYSIS[1]				LABORATORY ANALYSIS[2] (Concentrations in mg/kg)											
		NONMETHANE HEADSPACE (PPM)	OIL SHEEN	ODOR	pH	PAHs TOTAL	PAHs CARC.	PHENOL	TOTAL PHENOLS	BENZENE	BTEX	ARSENIC	CYANIDE	CADMIUM	LEAD	MERCURY	SELENIUM
SB42	2.0-4.0	0	T	N	10	.646 a	.32 a	.049 U	ND	.0003 J	.0011 a	56.2	23.9	1.6	23.5	.16	.35 U
SB42	7.0-9.0	0	N	L	9.5	.36 a	ND	.059 J	.059 a	.0013	.0013	6.5	2.5	.72 U	2.9	.02 U	.37 U
SB42	17.0-19.0	7	T	L	9.1	.391 a	.064 a	.051 U	ND	.0015	.0019 a	6	.26 B	.69 U	2.2	.02 U	.36 U
SB42	27.0-29.0	100	N	M	8.5	ND	ND	59	92.1	.0032	.0121	26.7	.7 B	.89 BJ	3.4	.02 U	.38 U
SB43	2.0-4.0	0	N	N	8.5	2.471 a	1.402 a	.052 U	ND	.0012 U	ND	1.1 B	.12 U	.69 U	2.8 J	.11	.49 U
SB43	7.0-9.0	1	N	L	8.4	ND	ND	.052 U	ND	.0012 U	ND	6	.12 U	.7 U	1.6 J	.11 U	.5 U
SB43	17.0-19.0	3	T	L	9.3	ND	ND	.05 U	ND	.0013	.0026 a	5.2	.12 U	.7 U	1.8 J	.07 U	.5 U
SB43	27.0-29.0	60	N	L	8.9	ND	ND	43	69 a	.047	.0474 a	23.4	.63 U	.72 U	2.6 J	.08 U	.52 U
SB44	2.0-4.0	2	T	L	6.8	1.761 a	.473 a	.075 J	.123 a	.0012 J	.0242 a	5.5 J	.27 U	.69 U	16.3 J	.02 U	.88 BJ
SB44	7.0-9.0	1	N	L	6.8	1.538 a	.14 a	.05 U	ND	.0012 U	.0016 a	5 J	.36 U	.73 U	2.2 J	.02 U	.52 UJ
SB44	17.0-19.0	200	N	L	9	4	ND	.099 U	.14 a	.0012 U	.0053 a	10.3 J	1.1 U	.69 U	2.5 J	.02 U	.49 UJ
SB44	22.0-24.0	950	T	M	9	--	--	--	--	.0006 J	.0165 a	--	--	--	--	--	--
SB44	27.0-29.0	150	N	M	9.1	ND	ND	41	92	.008	.0153 a	56.8 J	1.6 U	.73 U	3.9 J	.02 U	.52 UJ
SB45	2.0-4.0	--	--	L	--	621.3 a	301.5 a	2.9 U	ND	.0028 J	.0061 a	15.7	19.7	.82 U	41.1	.54	5.8 J
SB45	7.0-9.0	25	T	M	7.7	1.74 a	.211 a	.12 J	.19 a	.0006 J	.0017 a	3.6	.12 U	.72 U	2.9	.02 U	.37 U
SB45	17.0-19.0	1150	M	--	8.7	105.08 a	47.47 a	30	51.1	.31	1.018 a	4.8	.12 U	1 B	2.8	.02 U	.4 BJ
SB45	29.5-31.5	40	N	M	9	1.2 a	ND	15	33.4	.011	.0179 a	38.8	1.4 B	.72 U	3.6	.02 U	1.9 J
SB46	9.5-11.5	160	L	M	8.2	1.156 a	.19 a	.13 J	.183 a	.0011 U	ND	2.8	.2 BJ	.7 U	2.3	.09 U	.36 UJ
SB46	17.0-19.0	640	N	L	8.5	.15 a	ND	4.5	11.7	.001 J	.02 a	5.2	.54 BJ	.73 U	9.4	.02 U	.38 UJ
SB46	29.5-31.5	--	N	S	8.9	ND	ND	100	166 a	.069	.155	41.7	1.1 BJ	.71 U	3.1	.02 U	.37 UJ

TABLE 7.1-1 (Cont.)

SUMMARY OF FIELD SCREENING RESULTS AND LABORATORY ANALYTICAL RESULTS

SAMPLE LOCATION	SAMPLE DEPTH (FT)	FIELD ANALYSIS[1]				LABORATORY ANALYSIS[2] (Concentrations in mg/kg)											
		NONMETHANE HEADSPACE (PPM)	OIL SHEEN	ODOR	pH	PAHs		PHENOL	TOTAL PHENOLS	BENZENE	BTEX	ARSENIC	CYANIDE	CADMIUM	LEAD	MERCURY	SELENIUM
						TOTAL	CARC.										
SB47	2.0-4.0	0	T	L	8.9	4.039 a	2.229 a	.056 U	ND	.0031 J	.0042 a	29 J	.29 BJ	1 B	3.01 J	.48	.81 BJ
SB47	7.0-9.0	15	N	N	8	.146 a	ND	.084 J	.084 a	.0012 U	ND	1.6 BJ	.12 UJ	.71 U	2.6 J	.05 U	.37 R
SB47	17.0-19.0	3500	T	N	8.4	.055 a	ND	.52	15.86 a	.041	.276	7.6 J	.59 UJ	.72 U	3.7 J	.04 U	.37 R
SB47	27.0-29.0	700	T	S	8.9	--	--	--	--	.0041	.0761	--	--	--	--	--	--
SB47	32.0-34.0	300	T	V	9	ND	ND	16	28.8 a	.045	.0902	7.7 J	.58 UJ	.71 U	3.2 J	.02 U	.37 R
SB48	2.0-4.0	0	N	N	9.4	.173 a	ND	.15 J	.15 a	.0059 J	.012 a	5.9 J	.63 U	.73 U	11.8 J	.18	.38 UJ
SB48	7.0-9.0	0	N	N	7.4	.149 a	ND	.051 U	ND	.0012 U	ND	1.9 BJ	.46 U	.71 U	2.4 J	.07 U	.7 BJ
SB48	17.0-19.0	25	N	L	9.4	.099 a	ND	.08 J	.08 a	.03	.0303 a	4.4 J	.27 U	.7 U	2.6 J	.06 U	.49 BJ
SB48	24.5-26.5	850	T	S	9.4	--	--	--	--	.019	.0915	--	--	--	--	--	--
SB48	29.5-31.5	425	T	S	9.2	ND	ND	130	208	.0015 J	.0315	8.3 J	.62 U	.72 U	3.6 J	.07 U	.58 BJ
SB49	2.0-4.0	0	N	N	8.1	ND	ND	.085 J	.085 a	.0012 U	ND	1.3 B	.12 U	1.4	3.2	.03 U	.36 U
SB49	7.0-9.0	0	N	N	7.8	ND	ND	.052 U	ND	.0012 U	ND	1.4 B	.12 U	1.2 B	24.2	.08 U	.37 U
SB49	17.0-19.0	580	N	N	8.1	.431 a	.051 a	.053 U	ND	.076	.076	1.5 B	.14 B	.69 U	3.4	.04 U	.36 U
SB49	24.5-26.5	350	N	S	9	ND	ND	86	147.5 a	.0062	.0071 a	10	1.4 B	1.5	3.7	.04 U	.38 U
SB50	2.0-4.0	--	H	S	8.4	54250 a	10510 a	950 J	2370 a	7.2	91.8	4.4	10.2	.78 U	4.6	.07 U	6
SB50	7.0-9.0	--	T	S	7.6	51.04 a	10.24 a	.88	1.78 a	.006	.0348 a	3.2	4.5	.7 U	5.3	.29	.95 B
SB50	17.0-19.0	20	N	L	8.3	.436 a	ND	.33 J	.56 a	.018	.0192 a	2.7	.12 U	1.3	4	.02 U	.89 B
SB50	27.0-29.0	350	N	L	8.8	.073 a	ND	130	204.4 a	.19	.19	8.4	1.2 B	.72 U	3.3	.06 U	.38 U
SB51	7.0-9.0	0	N	N	8.9	ND	ND	.052 U	ND	.0012 U	ND	2.4 BJ	.12 U	.72 U	3.2 J	.05 U	.51 UJ
SB51	19.5-21.5	150	N	L	9.1	ND	ND	.052 U	ND	.0024	.0024	2.5 BJ	.62 U	.76 U	3.1 J	.06 U	.55 UJ
SB51	27.0-29.0	3000	N	M	8.6	ND	ND	22	39.3	.002	.0031 a	2.7 J	.7 U	1.4	2.6 J	.04 U	.52 UJ

TABLE 7.1-1 (Cont.)

SUMMARY OF FIELD SCREENING RESULTS AND LABORATORY ANALYTICAL RESULTS

SAMPLE LOCATION	SAMPLE DEPTH (FT)	FIELD ANALYSIS[1]				LABORATORY ANALYSIS[2] (Concentrations in mg/kg)											
		NONMETHANE HEADSPACE (PPM)	OIL SHEEN	ODOR	pH	PAHs TOTAL	PAHs CARC.	PHENOL	TOTAL PHENOLS	BENZENE	BTEX	ARSENIC	CYANIDE	CADMIUM	LEAD	MERCURY	SELENIUM
SB52	9.5-11.5	1	N	N	7.8	ND	ND	.052 U	ND	.0012 U	ND	1.7 B	.12 U	.73 U	2.8 J	.08 U	.52 U
SB52	17.0-19.0	8	N	L	8.5	.318 a	ND	.052 U	ND	.0012 U	ND	3.8	.12 U	1.7	4 J	.1 U	.52 U
SB52	32.0-34.0	10	N	M	8.3	ND	ND	.054 J	.214 a	.0012 U	ND	17.7	.46 B	.72 U	3 J	.08 U	.74 B
SB53	7.0-9.0	0	N	N	7.5	ND	ND	.051 U	ND	.0012 U	ND	2 BJ	.12 U	.79 B	2.9 J	.04 U	.51 UJ
SB53	27.0-29.0	7	N	L	9.2	ND	ND	.054 U	ND	.0012 U	ND	1.7 BJ	4.1	.73 U	2.9 J	.04 U	.52 UJ
SB55	2.0-4.0	17	N	S	7.9	19766 a	7310 a	2.6 U	ND	.058 J	9.358 a	11	.93 BJ	1 B	44.4	.04 U	2 J
SB56	27.0-29.0	65	T	S	8.6	ND	ND	180	279 a	.27	.722	56.2	3 J	.7 U	3.2	.02 U	.36 UJ
SB57	22.0-24.0	7	N	N	8.3	ND	ND	.24 J	3.19 a	.018	.0739	8	.28 BJ	.71 U	3	.02 U	.37 UJ
SB59	2.0-4.0	5	N	N	8.3	.167 a	ND	.051 U	ND	.0007 J	.0018 a	1.2 B	.13 U	.8 U	8.8 J	.03 U	.88 B
SB59	7.0-9.0	35	N	L	8.5	.064 a	ND	.049 U	ND	.0044	.0047 a	2.7	0.12 U	0.78 U	3.0 J	0.03 U	.37 U
SB59	17.0-19.0	300	N	S	8.9	ND	ND	.049 U	ND	.0003 J	.0006 a	3.1	.61 U	.77 U	4.1 J	.02 U	.53 B
SB59	27.0-29.0	100	N	S	8.9	ND	ND	.051 U	.16 a	.061	.0614 a	2.2 B	.61 U	.77 U	5.1 J	.03 U	.37 U
SB60	2.0-4.0	--	N	N	8.1	5.29 a	3.56 a	.59 U	ND	.0014 U	ND	33.6	.12 U	1.3	11.5 J	.04 UJ	.59 B
SB60	7.0-9.0	220	M	L	7.8	5.27 a	.25 a	.1 U	ND	.0004 J	.0183 a	63	20.2	.9 U	6.1 J	1.1 J	12.1
SB60	17.0-19.0	20	N-M	L	8.5	4.6	ND	.071 J	.306 a	.0005 J	.0016 a	11.5	.29 B	.78 U	3.1 J	.03 U	.89 B
SB60	27.0-29.0	5	N	S	8.8	5.5 a	ND	150	221 a	.0095	.0169	8.8	.61 U	.78 U	6 J	.03 U	.63 B
SC01	2.0-4.0	1.5	N	N	--	.043 a	ND	.41 U	ND	.012 U	ND	.6 UJ	--	.73 U	3	.07 U	.32 U
SC02	2.0-4.0	0	N	N	--	12.087 a	4.75 a	.44 U	ND	.015 U	.002 a	61.6 J	--	.83 U	8.1	.09 U	.36 U
SS01	2.0-4.0	4	T	N	--	.169 a	.04 a	.38 U	ND	.012 U	ND	7.2	--	.68 UJ	11.7 J	.08 U	.57 BJ
SS02	2.0-4.0	0.5	N	N	--	1.813 a	.801 a	.39 U	ND	.012 U	.005 a	.91 U	--	.72 U	3 J	.08 U	.32 U
SS03	2.0-4.0	42	N	N	--	5.03 a	1.073 a	.43 U	ND	.001 J	.001 a	5.6	--	.79 U	13.6 J	.09 U	.54 B
SS04	2.0-4.0	8	N	N	--	3.215 a	1.21 a	.39 U	ND	.013 UJ	.005 a	2.6	--	.7 U	8 J	.09 U	.31 U
SS05	2.0-4.0	150	N	N	--	25.18 a	9.32 a	.4 U	ND	.012 U	ND	3.7	--	.7 U	9.7 J	.09 U	.31 U

TABLE 7.1-1 (Cont.)

SUMMARY OF FIELD SCREENING RESULTS AND LABORATORY ANALYTICAL RESULTS

SAMPLE LOCATION	SAMPLE DEPTH (FT)	FIELD ANALYSIS[1]				LABORATORY ANALYSIS[2] (Concentrations in mg/kg)											
		NONMETHANE HEADSPACE (PPM)	OIL SHEEN	ODOR	pH	PAHs TOTAL	PAHs CARC.	PHENOL	TOTAL PHENOLS	BENZENE	BTEX	ARSENIC	CYANIDE	CADMIUM	LEAD	MERCURY	SELENIUM
SS06	2.0-4.0	11	M	N	--	.966 a	.366 a	.4 U	ND	.013 U	ND	5.5	--	.82 BJ	9.7 J	.09 U	.65 UJ
SS07	2.0-4.0	0	T	L	--	10.956 a	.136 a	.39 U	ND	.012 U	.014 a	4.2	--	1.9 J	10.8 J	.07 U	.54 BJ
SS08	2.0-4.0	2	T	N	--	67.07 a	23.66 a	14	27.21 a	.017 U	ND	91.5	--	1.2 BJ	18.6 J	.11 U	12.5 J
SS09	2.0-4.0	0	N	N	--	ND	ND	.41 U	ND	.012 U	ND	8.7	--	.72 UJ	12.2 J	.08 U	.55 UJ
SS10	2.0-4.0	2	T	N	--	2.5 a	1.49 a	.39 U	ND	.012 U	ND	6.3	--	.69 UJ	17.8	.08 U	.84 UJ
SS11	2.0-4.0	0	N	N	--	1.762 a	.906 a	.37 U	ND	.011 U	ND	1.4 B	--	.67 UJ	3.8 J	.08 U	.44 UJ
SS12	2.0-4.0	0	N	N	--	ND	ND	.4 U	ND	.012 U	ND	1.3 B	--	.72 UJ	3.8 J	.09 U	.34 UJ
SS13	2.0-4.0	6	N	N	--	.772 a	.382 a	.38 U	ND	.011 U	ND	1.5 B	--	.75 BJ	3.1 J	.08 U	.48 UJ
SS14	2.0-4.0	6	T	N	--	668.8 a	154.3 a	1.2 J	2.4 a	.035	.094 a	4.4	--	.82 UJ	5.1 J	.09	2.2 J
SS15	2.0-4.0	0	N	N	--	5.565 a	3.315 a	.063 J	.063 a	.012 U	.002 a	3.6 UJ	--	1 U	3.8	.11 U	.46 U
SS16	2.0-4.0	0.5	N	N	--	.961 a	.272 a	.4 U	ND	.012 U	ND	10.8 J	--	1.1 B	10.5	.18	.57 B
SS17	2.0-4.0	1	N	N	--	42.65 a	17.15 a	.062 J	.062 a	.011 U	.001 a	1.1 UJ	--	.65 U	4.7	.07 U	.29 U
TT03W01	4	99	H	S	--	4326 a	67 a	490 DU	ND	18 J	108.5 a	236	956	--	--	--	--
TT03W02	3.5	630	H	S	--	5013 a	669 a	41 J	173 a	62 J	477 a	20.6	--	.68 UJ	40.7 J	.08	3.8 J
TT05E01	5	0	N	N	--	16.154 a	8.491 a	--	--	.012 U	.003 a	--	--	--	--	--	--
TT08A01	5	7	N	U	--	--	--	--	--	.003 J	.023 a	304	52.4 J	--	--	--	--
TT0102	4	23	M	M	--	2794.5 a	134.5 a	31 U	ND	1.5 UJ	10.14 a	--	--	--	--	--	--
TT0204	2.5	90	M	L	--	--	--	--	--	.013 U	ND	--	--	--	--	--	--
TT0206	2.5	--	--	--	--	105.89 a	59 a	.29 J	1 a	--	--	--	--	--	--	--	--
TT0209	1	--	--	--	--	11.42 a	7.31 a	.36 U	ND	--	--	--	--	--	--	--	--
TT0301	4	22	H	S	--	1005 a	12 a	--	--	.43	7.93	360	8 J	--	--	--	--
TT0302	4	5	T	L	--	906 a	252 a	26	64.8 a	.54 J	8.49 a	--	--	--	--	--	--

TABLE 7.1-1 (Cont.)

SUMMARY OF FIELD SCREENING RESULTS AND LABORATORY ANALYTICAL RESULTS

SAMPLE LOCATION	SAMPLE DEPTH (FT)	FIELD ANALYSIS[1]				LABORATORY ANALYSIS[2] (Concentrations in mg/kg)											
		NONMETHANE HEADSPACE (PPM)	OIL SHEEN	ODOR	pH	PAHs		PHENOL	TOTAL PHENOLS	BENZENE	BTEX	ARSENIC	CYANIDE	CADMIUM	LEAD	MERCURY	SELENIUM
						TOTAL	CARC.										
TT0303	4	1	N	N	--	.087 a	.044 a			.013 U	.002 a	--	--	--	--	--	--
TT0403	6	--	--	--	--	8.872 a	4.718 a	.41 U	.5 a	--	--	--	--	--	--	--	--
TT0602	4.5	9	N	S	--	1006.9 a	28.9 a	38 U	ND	.06 U	.175 a	.92 B	--	.67 U	1.8 J	.08 U	.3 B
TT0604	2.5	0.5	N	N	--	8.956 a	4.09 a	.37 U	ND	.011 U	ND	6.5	--	.68 U	11.5 J	.09 U	1.9
TT0701	4.5	38	N	N	--	--	--	--	--	--	--	1820	13.7 J	1.6 J	19 J	5.6	1.5 UJ
TT0703	4.5	150	N	P	--	2115 a	22 a	210 U	ND	1.4 U	13.66 a	--	--	--	--	--	--
TT0802	4	40	N	S	--	603.7 a	19.8 a	60 U	ND	.018 J	1.91 a	--	--	--	--	--	--
TT0902	6	9	N	N	--	.338 a	.089 a	--	--	.012 U	.003 a	--	--	--	--	--	--
TT1001	7	3440	N	M	--	918 a	ND	120 U	ND	31	183.9	318	2.5 BJ	--	--	--	--
TT1201	4	1700	N	S	--	992 a	ND	130 U	ND	.6	98.68	--	--	--	--	--	--
TT1301	4.5	0	N	N	--	ND	ND	--	--	.011 U	.012 a	--	--	--	--	--	--
TT1402	4	800	N	S	--	71.06 a	6.4 a	1.6 U	ND	1 J	12.135 a	38	28.5 J	4.4 J	15.3 J	.24	4.2 J
TT1501	5.5	750	N	S	--	3.243 a	.04 a	--	--	.001 J	.009 a	--	--	--	--	--	--
TT1602	4.5	3.5	N	L	--	2.091 a	.779 a	--	--	.011 U	ND	--	--	--	--	--	--
TT1701	4.5	38	N	N	--	.042 a	ND	.4 U	ND	.011 U	ND	--	--	--	--	--	--
TT1901	4.5	2000	N	S	--	583.3 a	109.7 a	--	--	.75	2.824 a	--	--	--	--	--	--
TT2101	4.5	0	N	N	--	12.345 a	5.95 a	--	--	.012 U	ND	--	--	--	--	--	--
TT2201	3.5	0.5	N	N	--	--	--	--	--	.014 U	ND	--	--	--	--	--	--
TT2303	4	8015	N	P	--	--	--	--	--	22	596	--	--	--	--	--	--
TT2502	2	3	N	S	7.2	174 a	57.4 a	2 J	4.2 a	.003	.0049 a	115 J	27.3 J	.71 U	454 J	8	2 J
TT2503	3	57	N	L	3.8	62.7 a	2.2 a	.86 U	ND	.015 J	.166 a	1720 J	1390 J	2.3	14.2	5	5.8 J

TABLE 7.1-1 (Cont.)

SUMMARY OF FIELD SCREENING RESULTS AND LABORATORY ANALYTICAL RESULTS

[1]

Oil Sheen Test Results		Odor Test Results
N = None	D = Diesel Odor	N = None
T = Trace	P = Petroleum Odor	L = Low Coal Tar Odor
M = Moderate	U = Sulfur	M = Moderate Coal Tar Odor
H = Heavy	-- = Not Tested	S = Strong Coal Tar Odor
-- = Not Tested		V = Very Strong Coal Tar Odor

[2]

J Associated value is qualified as an estimate. The value is acceptable and usable.
B The reported value is less than the contract required detection limit (CRDL), but greater than or equal to the instrument detection limit (IDL).
a Calculated using some or all values that are estimates.
c The presence of this compound was confirmed by GC/MS analysis.
P Greater than 25% difference for detected concentrations between primary and confirmation GC columns. Result reported is the lower of the two values.
U Not detected.
ND Not detected.

*Paranthesis indicate depth below base of soil stockpile.

TABLE 7.3-1

BACKGROUND SOIL SAMPLE CONCENTRATION RANGES

	U.S. EPA-Designated Background Samples (BS01, BS02, BS04)	Off-site Ground Surface Samples (GS01, GS02, GS04)	Background Samples (BS01-BS08)	Representative Upper Range Background Concentration for all Background Samples[1]	Upper Range Background Concentrations for U.S. EPA-Designated Background Samples
INORGANICS (concentrations in mg/kg)					
Aluminum	1,520 - 1,930	--	881 - 4,560	--	--
Antimony	<2.3	--	<2.3 - 5.8	--	--
Arsenic	1.7 - 2	2.6 - 5.2	<0.76 - 235	40	3.0
Barium	6.4 - 22.2	--	5.1 - 232	--	--
Beryllium	<0.17	--	<0.12 - 0.4	--	--
Cadmium	<0.62	0.90 - 3.5	<0.61 - 7.3	4.2	NA
Calcium	16,200 - 31,900	--	16,200 - 36,100	--	--
Chromium, total	<5.3 - 18.1	--	<5.1 - 231	--	--
Cobalt	1.8 - 2.4	--	1.6 - 7.3	--	--
Copper	4.3 - 7.1	--	3.9 - 160	--	--
Iron	3,710 - 4,330	--	2,560 - 39,700	--	--
Lead	3.6 - 9.2	12.5 - 32.3	3.4 - 434	110	28
Magnesium	7,670 - 16,200	--	7,670 - 17,300	--	--
Manganese	78.6 - 163	<0.02	78.6 - 357	--	--
Mercury	<0.08	0.10	<0.07 - 1.7	1.5	NA
Nickel	3.2 - 4.8	--	2.6 - 33.3	--	--
Potassium	278 - 403	--	<151 - 680	--	--
Selenium	<0.27	<0.55	<0.27 - 0.93	1.7	NA
Silver	<0.36 - 0.71	--	<0.36 - 5.4	--	--
Sodium	<339	--	<447	--	--
Thallium	<0.23	--	<0.40	--	--
Vanadium	5.6 - 8	--	4.4 - 14.9	--	--
Zinc	19.2 - 27.6	--	17.6 - 764	--	--
Cyanide	<0.19	<0.41	<0.19 - 1.2	1.5	NA
VOLATILE ORGANIC COMPOUNDS (concentrations in µg/kg)					
Chloromethane	<11	--	<13	--	--
Bromomethane	<11	--	<13	--	--
Vinyl chloride	<11	--	<13	--	--
Chloroethane	<11	--	<13	--	--
Methylene chloride	<32	--	<51	--	--
Acetone	<23	--	<51	--	--
Carbon disulfide	<11	--	<12	--	--

TABLE 7.3-1 (Cont.)

BACKGROUND SOIL SAMPLE
CONCENTRATION RANGES

	U.S. EPA-Designated Background Samples (BS01, BS02, BS04)	Off-site Ground Surface Samples (GS01, GS02, GS04)	Background Samples (BS01-BS08)	Representative Upper Range Background Concentration for all Background Samples[1]	Upper Range Background Concentrations for U.S. EPA-Designated Background Samples
1,1-Dichloroethylene	<11	--	<13	--	--
1,1-Dichloroethane	<11	--	<13	--	--
1,2-Dichloroethylene	<11	--	<13	--	--
Chloroform	<11	--	<12	--	--
1,2-Dichloroethane	<11	--	<13	--	--
Methyl ethyl ketone	<11	--	<11 - 20	--	--
1,1,1-Trichloroethane	<11	--	<13	--	--
Carbon tetrachloride	<11	--	<13	--	--
Bromodichloromethane	<11	--	<13	--	--
1,2-Dichloropropane	<11	--	<13	--	--
cis-1,3-Dichloro-1-propane	<11	--	<13	--	--
Trichloroethylene	<11	--	<12	--	--
Chlorodibromomethane	<11	--	<13	--	--
1,1,2-Trichloroethane	<11	--	<13	--	--
trans-1,3-Dichloro-1-propane	<11	--	<13	--	--
Bromoform	<11	--	<13	--	--
Methyl isobutyl ketone	<11	--	<13	--	--
2-Hexanone	<11	--	<13	--	--
Tetrachloroethylene	<11	--	<13	--	--
1,1,2,2-Tetrachloroethane	<11	--	<13	--	--
Chlorobenzene	<11	--	<13	--	--
Styrene	<11	--	<13	--	--
Benzene	<11	<1.4	<13 - 2	2.6	NA
Ethyl benzene	<11	<1.4	<13	NA	NA
Toluene	<11	<1.2 - 0.5	<12 - 3	3.2	NA
Xylenes	<11 - 4	<4.2	<12 - 7	5.0	NA
BETX	ND - 4	ND - 0.5	ND - 9	10.2	NA
PROJECT-SPECIFIC PAH COMPOUNDS (concentrations in µg/kg)					
Naphthalene	<350	<63	<400	--	--
2-Methylnaphthalene	<350	<67	<400	--	--
Acenaphthylene	<350	<57	<350 - 590	--	--
Acenaphthene	<350	<52	<400	--	--

TABLE 7.3-1 (Cont.)

BACKGROUND SOIL SAMPLE
CONCENTRATION RANGES

	U.S. EPA-Designated Background Samples (BS01, BS02, BS04)	Off-site Ground Surface Samples (GS01, GS02, GS04)	Background Samples (BS01-BS08)	Representative Upper Range Background Concentration for all Background Samples[1]	Upper Range Background Concentrations for U.S. EPA-Designated Background Samples
Dibenzofuran	<350	<56	<400	--	--
Fluorene	<350	<59	<400	--	--
Phenanthrene	<350	<39 - 240	68 - 1,300	--	--
Anthracene	<350	<48	<350 - 560	--	--
Fluoranthene	<350	<47 - 450	47 - 2,400	--	--
Pyrene	<350	<42 - 320	35 - 2,600	--	--
Benzo(g,h,i)perylene	<350	<42 - 69	89 - 810	--	--
Benzo(a)anthracene	<350	<43 - 160	40 - 1,600	--	--
Benzo(b)fluoranthene	<350	<30 - 250	42 - 2,000	--	--
Benzo(k)fluoranthene	<350	<58 - 220	46 - 1,100	--	--
Benzo(a)pyrene	<350	<44 - 180	46 - 1,400	--	--
Chrysene	<350	<35 - 210	40 - 1,700	--	--
Dibenzo(a,h)anthracene	<350	<64	<350 - 440	--	--
Indeno(1,2,3-cd)pyrene	<350	<43 - 78	40 - 1,100	--	--
Sum of Carcinogenic PAHs	ND	ND - 1,100	ND - 9,600	9,100	800
Sum of PAHs	ND	ND - 2,200	ND - 19,000	17,600	1,800
PHENOLIC COMPOUNDS (concentrations in µg/kg)					
Phenol	<350	<61	<450	--	--
2-Chlorophenol	<350	--	<450	--	--
o-Cresol	<350	<47	<450	--	--
p-Cresol	<350	<50	<450	--	--
2-Nitrophenol	<350	--	<450	--	--
2,4-Dimethylphenol	<350	<310	<450	--	--
4-Chloro-3-methylphenol	<350	--	<450	--	--
2,4,6-Trichlorophenol	<350	--	<450	--	--
2,4,5-Trichlorophenol	<840	--	<1,100	--	--
2,4-Dinitrophenol	<840	--	<1,100	--	--
4-Nitrophenol	<840	--	<1,100	--	--
2-Methyl-4,6-dinitrophenol	<840	--	<1,100	--	--
Pentachlorophenol	<840	--	<1,100	--	--
OTHER SEMIVOLATILE COMPOUNDS (concentrations in µg/kg)					
Bis(2-chloroethyl)ether	<350	--	<450	--	--

TABLE 7.3-1 (Cont.)

BACKGROUND SOIL SAMPLE
CONCENTRATION RANGES

	U.S. EPA-Designated Background Samples (BS01, BS02, BS04)	Off-site Ground Surface Samples (GS01, GS02, GS04)	Background Samples (BS01-BS08)	Representative Upper Range Background Concentration for all Background Samples[1]	Upper Range Background Concentrations for U.S. EPA-Designated Background Samples
1,3-Dichlorobenzene	<350	--	<450	--	--
1,4-Dichlorobenzene	<350	--	<450	--	--
1,2-Dichlorobenzene	<350	--	<450	--	--
Bis(2-chloroisopropyl)ether	<350	--	<450	--	--
N-Nitrosodi-n-propylamine	<350	--	<450	--	--
Hexachloroethane	<350	--	<450	--	--
Nitrobenzene	<350	--	<450	--	--
Isophorone	<350	--	<450	--	--
Bis(2-chloroethoxy)methane	<350	--	<450	--	--
1,2,4-Trichlorobenzene	<350	--	<450	--	--
4-Chloroaniline	<350	--	<450	--	--
Hexachlorobutadiene	<350	--	<450	--	--
Hexachlorocyclopentadiene	<350	--	<450	--	--
2-Chloronaphthalene	<350	--	<450	--	--
2-Nitroaniline	<850	--	<1,100	--	--
Dimethyl phthalate	<350	--	<450	--	--
2,6-Dinitrotoluene	<350	--	<450	--	--
3-Nitroaniline	<850	--	<1,100	--	--
2,4-Dinitrotoluene	<350	--	<450	--	--
Diethyl phthalate	<350	--	<450	--	--
4-Chlorophenyl phenyl ether	<350	--	<450	--	--
4-Nitroaniline	<850	--	<1,100	--	--
N-Nitrosodiphenylamine	<350	--	<450	--	--
4-Bromophenyl phenyl ether	<350	--	<450	--	--
Hexachlorobenzene	<350	--	<450	--	--
Di-n-butyl phthalate	<350	--	<450	--	--
Butyl benzyl phthalate	<350	--	<450	--	--
3,3-Dichlorobenzidine	<350	--	<450	--	--
Bis(2-ethylhexyl)phthalate	<420	--	<350 - 4,500	--	--
Di-n-octyl phthalate	<350	--	<450	--	--
Carbazole	<350	--	<400	--	--
2,4-Dichlorophenol	<350	--	<450	--	--

TABLE 7.3-1 (Cont.)

BACKGROUND SOIL SAMPLE
CONCENTRATION RANGES

	U.S. EPA-Designated Background Samples (BS01, BS02, BS04)	Off-site Ground Surface Samples (GS01, GS02, GS04)	Background Samples (BS01-BS08)	Representative Upper Range Background Concentration for all Background Samples[1]	Upper Range Background Concentrations for U.S. EPA-Designated Background Samples
a-BHC	<7.2	--	<120	--	--
b-BHC	<7.2	--	<120	--	--
d-BHC	<7.2	--	<120	--	--
g-BHC (Lindane)	<7.2	--	<120	--	--
Heptachlor	<7.2	--	<120	--	--
Aldrin	<7.2	--	<120	--	--
Heptachlor epoxide	<7.2	--	<120	--	--
Endosulfan I	<7.2	--	<120	--	--
Dieldrin	<14	--	<230	--	--
4,4'-DDE	<14	--	<230	--	--
Endrin	<14	--	<230	--	--
Endosulfan II	<14	--	<230	--	--
4,4'-DDD	<14	--	<230	--	--
Endosulfan sulfate	<14	--	<230	--	--
4,4'-DDT	<14	--	<230	--	--
Methyloxyclor	<72	--	<1,200	--	--
Endrin ketone	<14	--	<230	--	--
Endrin aldehyde	<14	--	<230	--	--
cis-Chlordane	<7.2	--	<120	--	--
trans-Chlordane	<7.2	--	<120	--	--
Toxaphene	<720	--	<12,000	--	--
PCB-1016	<140	--	<2,300	--	--
PCB-1221	<280	--	<4,600	--	--
PCB-1232	<140	--	<2,300	--	--
PCB-1242	<140	--	<2,300	--	--
PCB-1248	<35 - 1,500	--	<35 - 23,000	--	--
PCB-1254	<140	--	<2,300	--	--
PCB-1260	<35 - 69	--	<35 - 850	--	--

[1]Based on samples (BS01 through BS08 and GS01, GS02, and GS04).

-- Not analyzed.

NA Appropriate statistical procedure not available.

TABLE 7.8-1

LAKE MICHIGAN WATER QUALITY STANDARDS AND CRITERIA
(Concentrations reported as μg/L)

CHEMICAL NAME	ILLINOIS WATER QUALITY STANDARDS[b]					GREAT LAKES WATER QUALITY INITIATIVE CRITERIA[a]			FEDERAL AMBIENT WATER QUALITY CRITERIA		
	GENERAL USE (SUBPART B)			PUBLIC WATER & FOOD SUPPLY (SUBP. C)	LAKE MICHIGAN (SUBP. E)	AQUATIC TOXICITY-BASED CRITERIA		WILDLIFE CRITERIA	AQUATIC TOXICITY-BASED CRITERIA		
	ACUTE[e]	CHRONIC[f]	GENERAL			ACUTE (CMC)	CHRONIC (CCC)		ACUTE[c] (CMC)	CHRONIC[d] (CCC)	LREL ACUTE
VOLATILE ORGANIC COMPOUNDS											
Benzene											5300
Ethyl benzene											32000
Toluene											17500
Trichloroethene											45000
SEMIVOLATILE ORGANIC COMPOUNDS											
Acenaphthene											1700
2,4-Dimethylphenol											2120
Fluoranthene											3980
Naphthalene											2300
Phenanthrene									30	6.3	
Phenol			100[g]	1[g]	1[g]	3700	120				10200
INORGANIC PARAMETERS											
Arsenic	360	190		50	50	340	150		360	190	
Cadmium	4.46 *	0.658 *		10	10	2.13 *	0.776 *		1.8 *	0.658 *	
Cyanide (Total)											44.7
Cyanide (Weak Acid Dissociable)[k]	22	5.2		i	i						
Cyanide (Free Cyanide)[j]						22	5.2		22	5.2	
Lead	33.9 *			50	50				33.8 *	1.32 *	
Mercury	0.5			l	l	0.830	0.440	0.00018	2.4	0.012	
Selenium			1000	10	10	20	5		20	5	

TABLE 7.8-1 (Cont.)

LAKE MICHIGAN WATER QUALITY STANDARDS AND CRITERIA
(Concentrations reported as μg/L)

CHEMICAL NAME	ILLINOIS WATER QUALITY STANDARDS[b]					GREAT LAKES WATER QUALITY INITIATIVE CRITERIA[a]			FEDERAL AMBIENT WATER QUALITY CRITERIA		
	GENERAL USE (SUBPART B)			PUBLIC WATER & FOOD SUPPLY (SUBP. C)	LAKE MICHIGAN (SUBP. E)	AQUATIC TOXICITY-BASED CRITERIA		WILDLIFE CRITERIA	AQUATIC TOXICITY-BASED CRITERIA		
	ACUTE[e]	CHRONIC[f]	GENERAL			ACUTE (CMC)	CHRONIC (CCC)		ACUTE[c] (CMC)	CHRONIC[d] (CCC)	LREL ACUTE
GENERAL PARAMETERS											
Ammonia			15000[m]	15000[m]	20[n]						

CMC - Criteria Maximum Concentration - Represents the highest concentration of a chemical to which aquatic life can be exposed for a short period of time without deleterious effects.
CCC - Criteria Continuous Concentration - Represents the highest concentration of a chemical to which aquatic life may be exposed for an extended period of time without deleterious effects.
LREL - Lowest Reported Effect Level. Reported for acute (short term) exposures. Chronic LREL were unavailable for potential chemicals of concern.
* = Criteria is hardness dependent. Calculated for hardness of 130 mg/L as calcium carbonate.
a = Proposed Rules 58 FR 20802.
b = 35 Illinois Adm. Code Section 302.
c = Maximum concentration for short term aquatic life exposure.
d = Acceptable concentration for long term aquatic life exposure.
e = Not to be exceeded except where a zone of initial dilution is granted.
f = Not to be exceeded by the average of at least four consecutive samples collected over any period of at least four days.
g = Total phenols.
i = General use acute and chronic standards apply.
j = Free cyanide. Sum of HCN and cyanide ion, expressed as CN.
k = Cyanide as Storet number 00718. Weak acid dissociable.
l = General use acute standard applies.
m = Ammonia nitrogen (as N) shall in no case exceed 15,000 μg/L. If ammonia nitrogen is less than 15,000 μg/L and greater than or equal to 1,500 μg/L, then unionized ammonia (as N) shall not exceed 40 μg/L. Ammonia nitrogen concentrations of less than 1,500 μg/L are lawful regardless of unionized ammonia concentration.
n = Ammonia nitrogen as N.

TABLE 7.8-2

COMPARISONS OF SURFACE WATER QUALITY DATA
LAKE MICHIGAN
(Concentrations in µg/L, unless noted otherwise)

PARAMETERS	1993 BARR DATA[1]		1991 CANONIE DATA[2]		1990 IEPA DATA[3]		1988 CITY OF WAUKEGAN DATA[4]	
	MEAN[5]	RANGE	MEAN[5]	RANGE	MEAN[6]	RANGE	MEAN[5]	RANGE
Arsenic, total	0.3	<1.4 - 1.6B	0.5	<1 - 1	(1) 1	0 - 11	0.6	0 - 2
Cyanide, total	0	<0.96 - <4.8	0	<5	(5) 3.6	0 - 10	0	<0.01 - <10
Cadmium	1.4	<2.9 - 5.3	0	<3	(5) 3	0 - <10	0	0 - <10
Lead	0.7	<1.2 - 2.2B	0	<50	(50) 44	0 - <100	0	0 - <10
Mercury	0.04	<0.12 - 0.24	0	<0.05	(0.05) 0.06	0 - 0.2	0	0 - <0.1
Hardness, total (mg/L)	133	129 - 139	162	159 - 165	137	116 - 166	--	--

[1] Summary of water quality data from 1993 remedial investigation; Surface Water Stations SW01 through SW07.
[2] Summary of water quality data from 1990 IEPA study; North Beach and New Harbor sampling stations (Hey and Associates, 1993).
[3] Summary of water quality data from lake survey conducted by IEPA and City of Chicago (IEPA, 1993b).
[4] Summary of water quality data from new drinking water samples (i.e., lake samples) collected by the City of Waukegan from the intake for the Waukegan Water Utility water treatment plant (Appendix 3-E of the PSCS).
[5] Mean values computed using zero for reported values less than the detection limit.
[6] Detection limit in parenthesis. Mean values may be lower than detection limit due to method used for computing averages.
B The reported value is less than the contract required detection limit, but greater than or equal to the instrument detection limit.

TABLE 7.8-3

COMPARISONS OF SURFACE WATER QUALITY DATA
WAUKEGAN HARBOR
(Concentrations in μg/L)

PARAMETERS	1993 BARR DATA[1]		1991 CANONIE DATA[2]		1990 IEPA DATA[3]		1988 CITY OF WAUKEGAN DATA[4]	
	MEAN[5]	RANGE	MEAN[5]	RANGE	MEAN[5]	RANGE	MEAN[5]	RANGE
INORGANICS								
Arsenic, total	1.6	<1.4 - 3.0B_1J	5.5	5-6	4	2 - 7	--	--
Cyanide, total	0	<0.96 - <13.3	0	<10	28	10 - 50	--	--
Cadmium	0	<2.9	0	<10	1.8	<3 - 5	--	--
Lead	2.2	<1.2 - 3.7	2.5	<5 - 5	0	<50 - <100	--	--
Mercury	0	<0.04 - <0.07	0	<0.2	0	<0.05	--	--
VOLATILE ORGANICS								
Benzene	6.9	2J - 21	15	14 - 16	--	--	121	4 - 220
Toluene	26	7J - 85	11.5	11B_2 - 12B_2	--	--	230	<5 - 470
Ethyl benzene	6.4	1J - 12	0	<5	--	--	0	<5 - <25
Xylenes	19	4J - 63	32	29 - 36	--	--	516	13 - 910
SEMIVOLATILE ORGANICS								
Benzo(a)anthracene	0.00306	<0.00300 - 0.00635	ND	ND	--	--	--	--
Benzo(b)fluoranthene	0.00319	<0.00300 - 0.00670	ND	ND	--	--	--	--
Benzo(k)fluoranthene	0.00207	<0.00300 - 0.00629	ND	ND	--	--	--	--
Benzo(a)pyrene	0.00313	<0.00300 - 0.00847	ND	ND	--	--	--	--
Chrysene	0.00398	<0.00600 - 0.0104	ND	ND	--	--	--	--
Indeno(1,2,3-cd)pyrene	0.00226	<0.00300 - 0.00676	ND	ND	--	--	--	--
Benzo(g,h,i)perylene	0.00310	<0.00300 - 0.00735	ND	ND	--	--	--	--
Fluoranthene	0.0128	<0.0840 - 0.0283	ND	ND	--	--	--	--
Fluorene	0.00160	<0.00300 - 0.00664	ND	ND	--	--	--	--
Pyrene	0.0116	<0.0840 - 0.0260	ND	ND	--	--	--	--

TABLE 7.8-3 (Cont.)

COMPARISONS OF SURFACE WATER QUALITY DATA
WAUKEGAN HARBOR
(Concentrations in μg/L)

---

[1] Summary of water quality data from 1993 remedial investigation; Surface Water Stations SW08 through SW12.
[2] Summary of water quality data from 1990-1991 Canonie study of new slip area; Harbor-1 and Harbor-2 sampling station (Canonie, 1991).
[3] Summary of water quality data from 1990 IEPA study; Upper Harbor, Slip No. 1, Central Harbor, Boat Ramp, and Harbor Channel sampling sites (Hey and Associates, 1993).
[4] Summary of water quality data from 1988 City of Waukegan "Benzene Problem" study; Harbor samples only (Appendix 3-E of the PSCS).
[5] Mean values computed using zero for reported values less than the detection limit.
B_1 The reported value is less than the contract required detection limit, but greater than or equal to the instrument detection limit.
B_2 Compound detected in associated laboratory blank.
J Associated value is an estimate. The value is below the stated quantitation limit.
-- Not analyzed.
ND Not detected.
U Not detected.

TABLE 7.9-1

GENERALIZED VERTICAL DISTRIBUTION OF CONTAMINATION

DEPTH OF SOIL (feet)	RANGE OF CONCENTRATIONS[1]/ARITHMETIC MEAN[2]									
	PAHs		PHENOL		BENZENE		ARSENIC		CYANIDE	
	SOIL (mg/kg)	GROUNDWATER (mg/L)	SOIL (mg/kg)	GROUNDWATER (mg/L)	SOIL (mg/kg)	GROUNDWATER (mg/L)	SOIL (mg/kg)	GROUNDWATER (mg/L)	SOIL (mg/kg)	GROUNDWATER (mg/L)
0 - 4.5	ND -- 76,000 (1900)	---	ND -- 950 (12.0) ND -- 41[3] (1.2)	---	ND -- 62 (1.2)	---	ND -- 1800 (102)	---	ND -- 1400 (54)	---
4.5 - 21.5	ND -- 20,000 (300)	1.1×10^{-5} -- 2.4 (0.58)	ND -- 110 (1.6)	ND -- 0.45 (0.045)	ND -- 31 (0.32) ND -- 0.68[4] (0.016)	ND -- 0.07 (0.0093)	1.4 - 760 (27)	ND -- 4.1 (0.32)	ND -- 52 (1.6)	ND -- 0.65 (0.056)
21.5 - base of sand aquifer	ND -- 180 (4.0)	7.4×10^{-6} -- 1.4 (0.32)	ND -- 310 (68)	ND - 1500 (240)	ND -- 0.8 (0.049)	ND -- 7.8 (1.1)	1.2 -- 250 (26)	0.0041 -- 70 (11)	ND -- 4.1 (0.69)	0.0028 - 0.71 (0.32)

[1]The range is represented by the data within the fenceline of the site to the north and south, the harbor on the west and the shoreline of Lake Michigan to the east.

[2]The arithmetic mean is shown in parenthesis on the table below the generalized range. Groundwater data to the north of the site are not included in the arithmetic mean calculation.

[3]SB50 at 950 mg/kg phenol eliminated from arithmetic mean calculation and range.

[4]TT1001 at 31 mg/kg benzene eliminated from arithmetic mean calc. and range.

TABLE 8.4-1

COMPUTED CHEMICAL CONSTITUENT MIGRATION RATES
ORGANIC COMPOUNDS IN GROUNDWATER

TYPE OF COMPOUND	CONSTITUENT	ORGANIC CARBON PARTITION COEFFICIENT[1] (L/kg)	REPRESENTATIVE RETARDATION FACTOR[4]	REPRESENTATIVE COMPUTED MIGRATION RATE (ft/yr)[d]			MINIMUM RETARDATION FACTOR[2]	MAXIMUM RETARDATION FACTOR[3]	MINIMUM AND MAXIMUM COMPUTED MIGRATION RATES (ft/yr)[e]		
				TO THE WEST	TO THE EAST	TO THE SOUTH			TO THE WEST	TO THE EAST	TO THE SOUTH
Volatile Organic Compounds	Benzene	49	5.4	11	14	3.3	1.4	14	4.3 - 43	5.7 - 57	1.4 - 14
	Ethyl benzene	96	9.6	6.5	8.0	1.9	1.9	27	2.2 - 32	3.0 - 42	0.74 - 11
	Toluene	120	12	5.2	6.4	1.5	2.1	33	1.8 - 29	2.4 - 38	0.61 - 9.5
	Xylenes	970	88	0.70	0.88	0.20	9.7	260	0.23 - 6.2	0.31 - 8.2	0.077 - 2.1
Carcinogenic PAHs	Benzo(a)anthracene	1.4×10^6	1.3×10^4	4.8×10^{-4}	5.9×10^{-4}	1.4×10^{-4}	13,000	3.8×10^6	$1.6 \times 10^{-4} - 4.6 \times 10^{-3}$	$2.1 \times 10^{-4} - 6.2 \times 10^{-3}$	$5.3 \times 10^{-5} - 1.5 \times 10^{-3}$
	Benzo(b)fluoranthene	5.5×10^6	4.9×10^4	1.3×10^{-3}	1.6×10^{-3}	3.7×10^{-4}	4,900	1.5×10^6	$4.0 \times 10^{-4} - 0.012$	$5.3 \times 10^{-4} - 0.016$	$1.3 \times 10^{-4} - 4.1 \times 10^{-3}$
	Benzo(k)fluoranthene	4.4×10^6	3.9×10^4	1.6×10^{-4}	2.0×10^{-4}	4.6×10^{-5}	39,000	1.2×10^6	$5.0 \times 10^{-4} - 1.5 \times 10^{-3}$	$6.7 \times 10^{-4} - 2.1 \times 10^{-3}$	$1.7 \times 10^{-5} - 5.1 \times 10^{-4}$
	Benzo(a)pyrene	1.0×10^6	8.9×10^4	7.0×10^{-4}	8.7×10^{-4}	2.0×10^{-4}	8,900	2.7×10^6	$2.2 \times 10^{-4} - 6.7 \times 10^{-3}$	$2.9 \times 10^{-4} - 9.0 \times 10^{-3}$	$7.4 \times 10^{-5} - 2.2 \times 10^{-3}$
	Carbazole	2,000	180	0.34	0.43	0.10	19	540	0.11 - 3.2	0.15 - 4.2	0.037 - 1.1
	Chrysene	2.5×10^5	2.2×10^3	2.8×10^{-3}	3.5×10^{-3}	8.2×10^{-4}	2,200	6.7×10^4	$9.0 \times 10^{-4} - 0.027$	$1.2 \times 10^{-3} - 0.036$	$3.0 \times 10^{-4} - 9.1 \times 10^{-3}$
	Dibenzo(a,h)anthracene	1.7×10^6	1.5×10^4	4.1×10^{-4}	5.1×10^{-4}	1.2×10^{-4}	15,000	4.6×10^5	$1.3 \times 10^{-4} - 4.0 \times 10^{-3}$	$1.7 \times 10^{-4} - 5.3 \times 10^{-3}$	$4.3 \times 10^{-5} - 1.3 \times 10^{-3}$
	Indeno(1,2,3-cd)pyrene	1.9×10^7	1.7×10^5	3.6×10^{-5}	4.5×10^{-5}	1.1×10^{-5}	170,000	5.1×10^6	$1.2 \times 10^{-5} - 3.5 \times 10^{-4}$	$1.6 \times 10^{-5} - 4.7 \times 10^{-4}$	$3.9 \times 10^{-6} - 1.2 \times 10^{-4}$
Noncarcinogenic PAHs	Acenaphthene	4,600	410	0.15	0.19	0.044	42	1,200	0.050 - 1.4	0.067 - 1.9	0.017 - 0.48
	Acenaphthylene	4,800	430	0.14	0.18	0.042	44	1,300	0.046 - 1.4	0.062 - 1.8	0.015 - 0.45
	Anthracene	1.9×10^4	1,700	0.036	0.045	0.011	170	5,100	0.012 - 0.35	0.016 - 0.47	$3.9 \times 10^{-3} - 0.12$
	Benzo(g,h,i)perylene	7.8×10^5	7.0×10^3	8.9×10^{-3}	1.1×10^{-4}	2.6×10^{-5}	70,000	2.1×10^6	$2.9 \times 10^{-4} - 8.6 \times 10^{-4}$	$3.8 \times 10^{-5} - 1.1 \times 10^{-3}$	$9.5 \times 10^{-6} - 2.9 \times 10^{-4}$
	Dibenzofuran	1.0×10^4	900	0.069	0.086	0.020	90	2,700	0.022 - 0.67	0.030 - 0.89	$7.4 \times 10^{-3} - 0.22$
	Fluoranthene	4.2×10^4	3,800	0.016	0.020	4.7×10^{-3}	380	11,000	$5.5 \times 10^{-3} - 0.16$	$7.3 \times 10^{-3} - 0.21$	$1.8 \times 10^{-3} - 0.05$
	Fluorene	5,000	450	0.14	0.17	0.40	46	1,300	0.046 - 1.3	0.062 - 1.7	0.015 - 0.43
	2-Methylnaphthalene	8,500	760	0.082	0.10	0.024	77	2,300	0.026 - 0.78	0.035 - 1.0	$8.7 \times 10^{-3} - 0.26$
	Naphthalene	550	50	1.2	1.5	0.36	5.9	150	0.40 - 10	0.53 - 14	0.13 - 3.4
	Phenanthrene	5,200	470	0.13	0.16	0.038	48	1,400	0.043 - 1.3	0.057 - 1.7	0.014 - 0.42
	Pyrene	4.6×10^4	4,100	0.015	0.019	4.4×10^{-3}	410	12,000	$5.0 \times 10^{-3} - 0.15$	$6.7 \times 10^{-3} - 0.20$	$1.7 \times 10^{-3} - 0.049$
Phenolic Compounds	o-Cresol	22	3.0	21	26	6.0	1.2	6.9	8.7 - 50	12 - 67	2.9 - 17
	p-Cresol	49	5.4	11	14	3.3	1.4	14	4.3 - 43	5.7 - 57	1.4 - 14
	2,4-Dimethylphenol	120	12	5.2	6.4	1.5	1.3	33	1.8 - 46	2.4 - 62	0.61 - 15
	Phenol	27	3.4	18	23	5.3	1.2	8.2	7.3 - 50	9.8 - 67	2.4 - 17

[1] Data and references listed in Table 6.2-1.
[2] Computed from minimum organic carbon content (0.2%), bulk density (1.7 g/cm^3), porosity (0.38), and organic carbon partition coefficient.
[3] Computed from maximum organic carbon content (6%), bulk density (1.7 g/cm^3), porosity (0.38), and organic carbon partition coefficient.
[4] Computed from representative organic carbon content (2%), bulk density (1.7 g/cm^3), porosity (0.38), and organic carbon partition coefficient.
[d] Based on average groundwater pore velocities (Section 5.2.1.4) and representative retardation factor.
[e] Based on average groundwater pore velocities (Section 5.2.1.4) and minimum and maximum retardation factors.

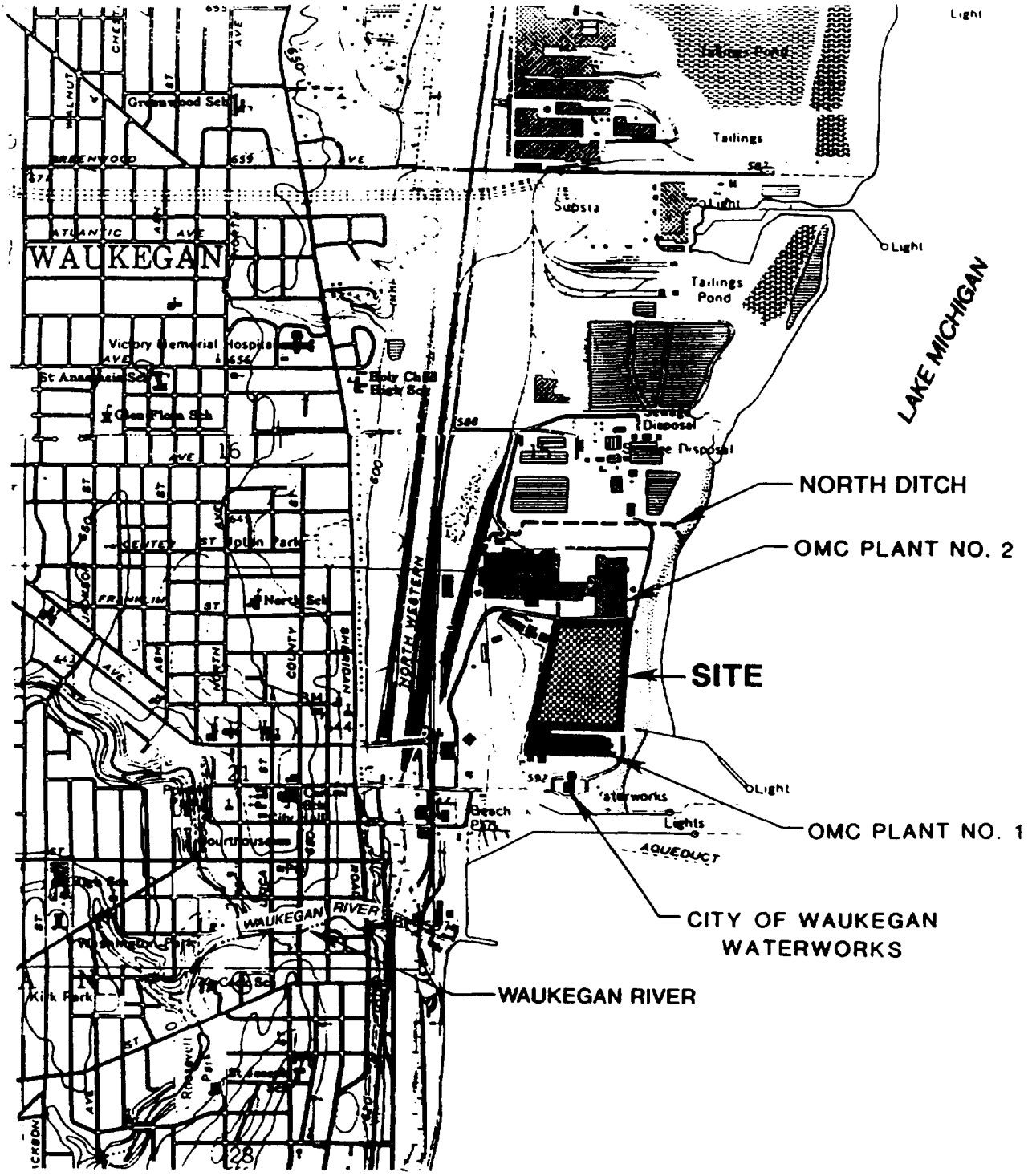
TABLE 8.4-2

COMPUTED MASS LOADING RATES
FROM GROUNDWATER DISCHARGE

CONSTITUENT	COMPUTED MASS LOADING (LBS/DAY)[1]			
	WAUKEGAN HARBOR		LAKE MICHIGAN	
	Representative Case	Sensitivity Range	Representative Case	Sensitivity Range
Benzene	0.044	.0088 - .066	--[2]	--[2] - .022
Phenol	3.7	0.75 - 5.7	0.002	--[2] - .33
Arsenic	0.26	.053 - .40	0.37	.07 - .55
Cyanide	0.40	.079 - .59	0.020	.004 - .031
Ammonia	88	18 - 130	92	18 - 140

[1]Mass loading calculations are described in Appendix 8-A.
[2]Calculation results indicate compound degrades before reaching assumed discharge point.

Figures



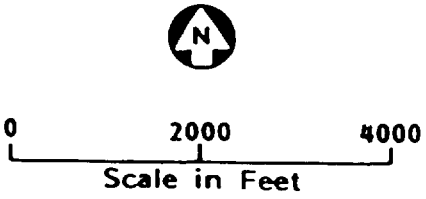
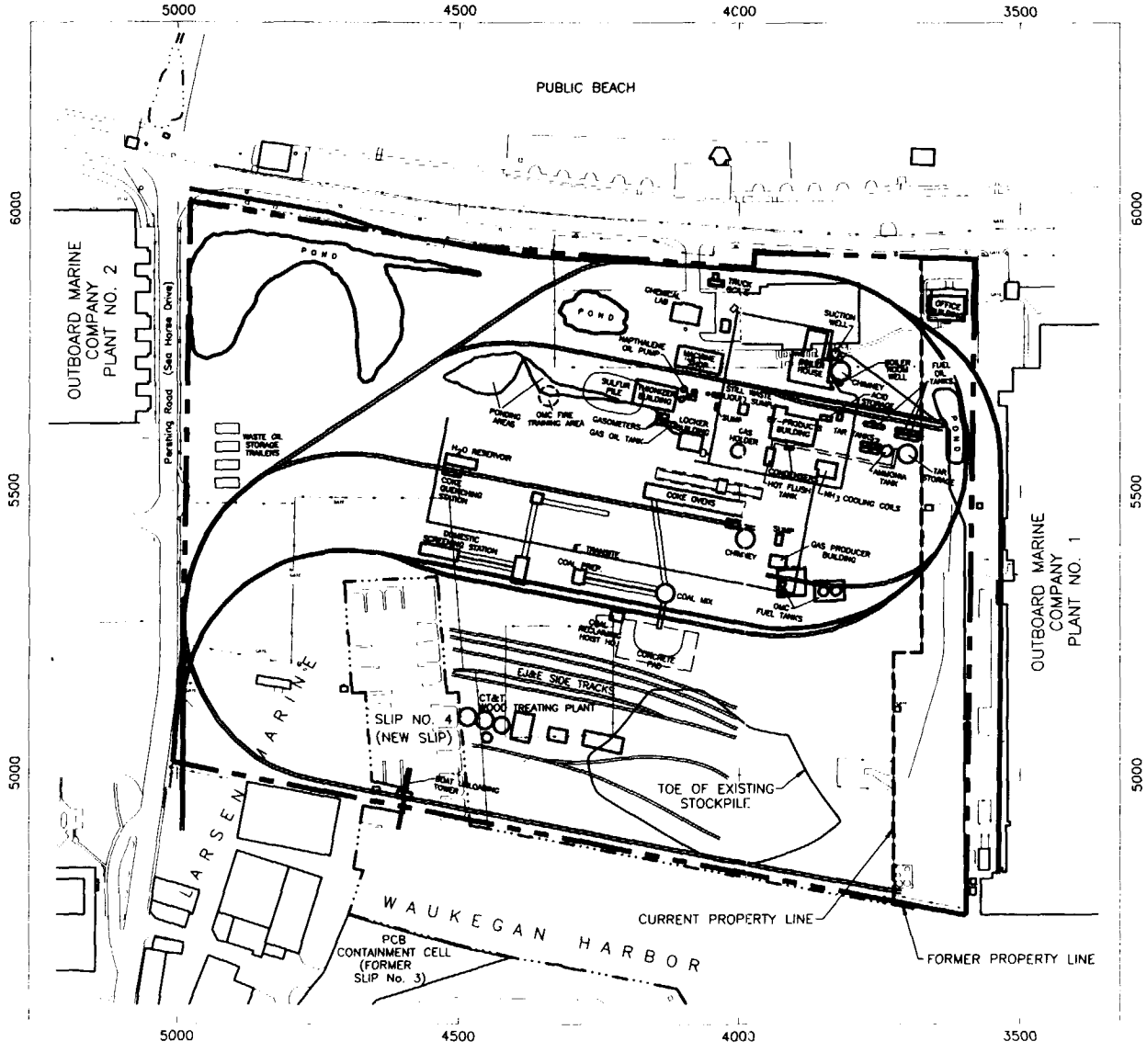


Figure 2.1-1

SITE LOCATION MAP
Waukegan Manufactured Gas and Coke Plant Site



0 200
SCALE IN FEET

Approximate location of CT&T Wood Treating Plant determined from USACE Map, 1908, and Sanborn Fire Insurance Map, 1917.

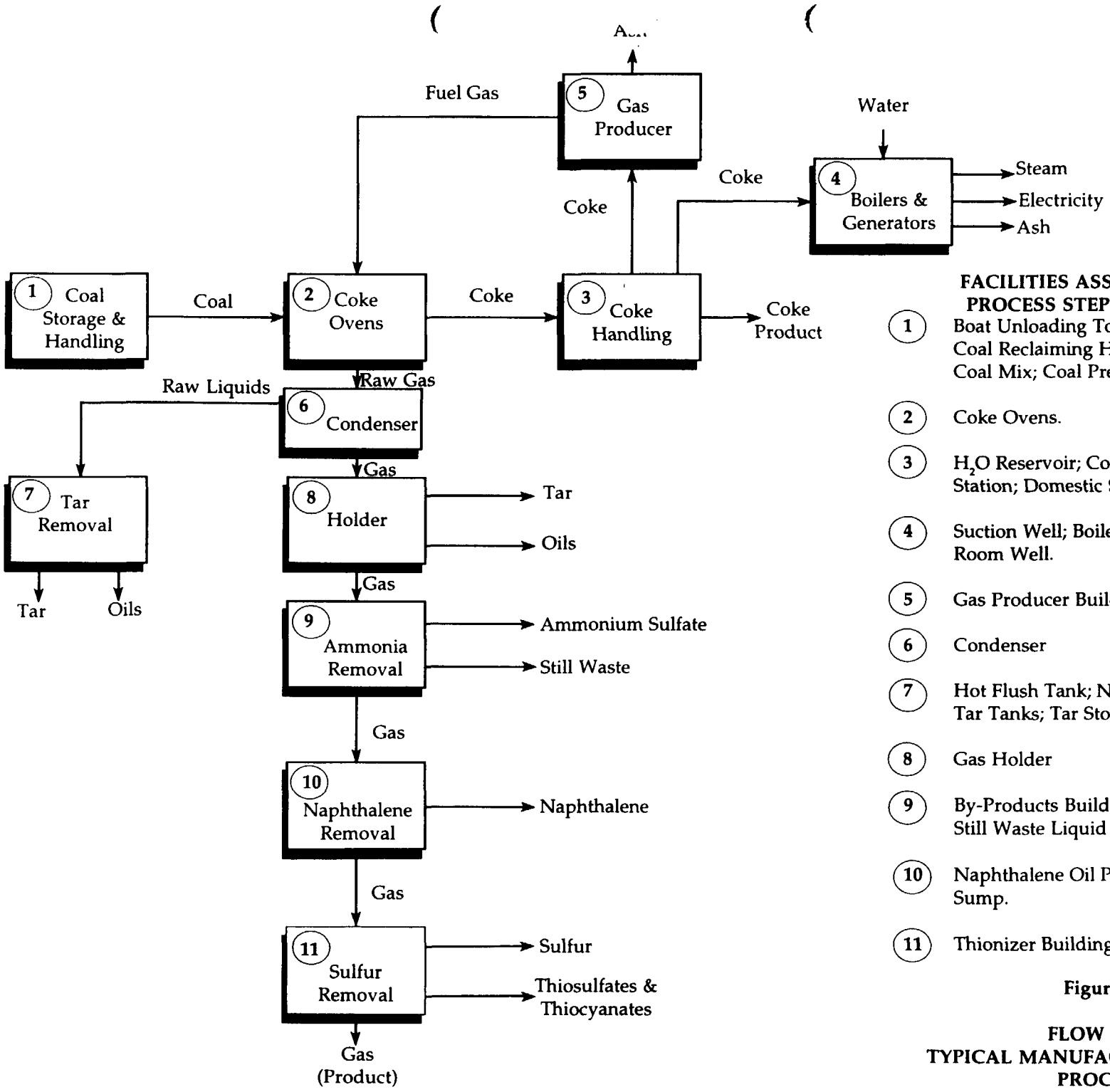
Locations of Coke Plant Facilities from aerial photographs and Sanborn Fire Insurance Maps.

Figure 2.1–2

WAUKEGAN MANUFACTURED GAS AND COKE PLANT SITE

Waukegan Manufactured Gas & Coke Plant Site

RJW C:\PROJECTS\134900J\WAUK\WCP-TANK 200.00 02/10/1995 10:34:08

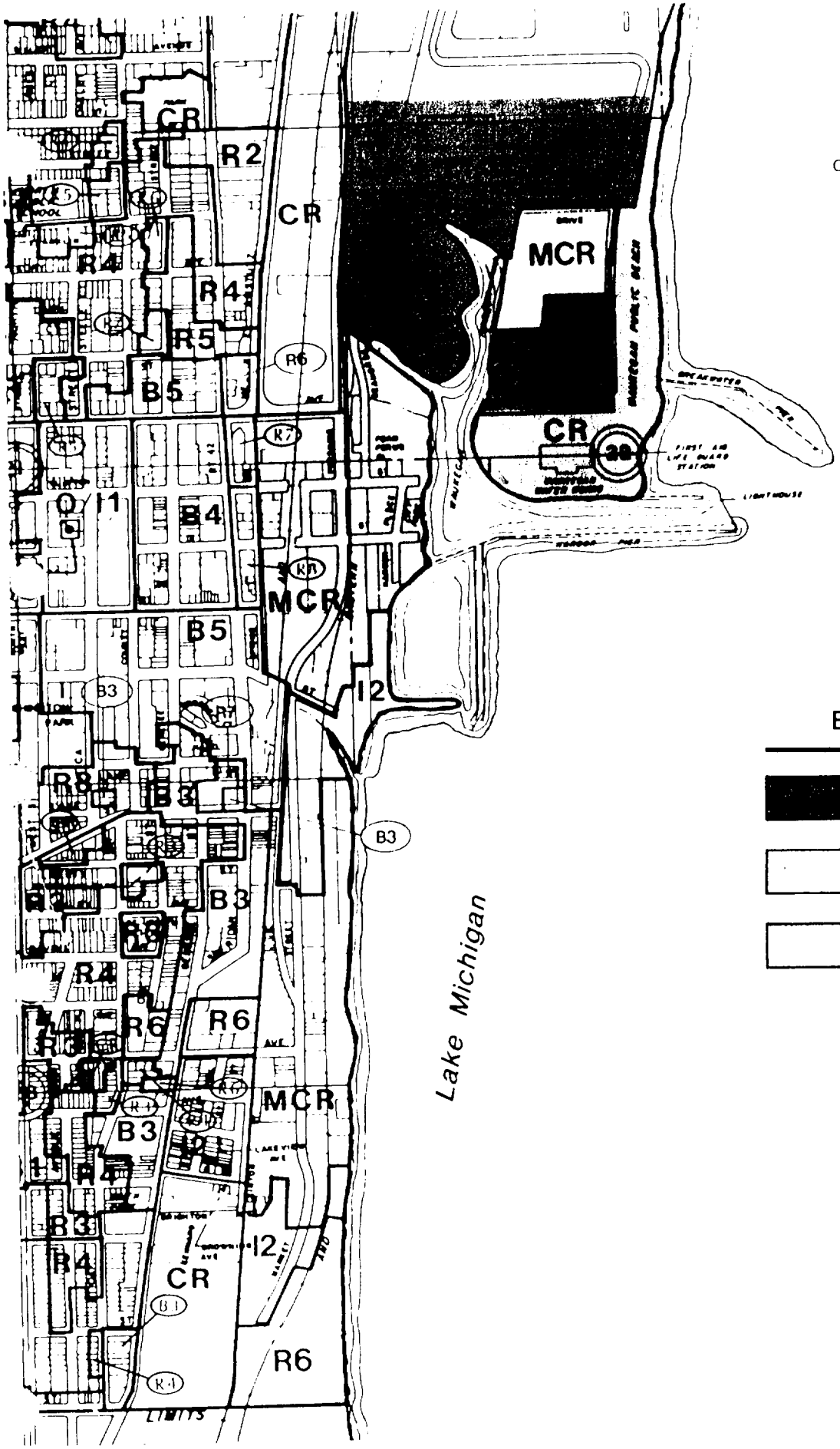


FACILITIES ASSOCIATED WITH PROCESS STEPS (FIGURE 2.1-2)

1. Boat Unloading Tower; Concrete Pad; Coal Reclaiming Hoist House; Coal Mix; Coal Preparation.
2. Coke Ovens.
3. H_2O Reservoir; Coke Quenching Station; Domestic Screening Station.
4. Suction Well; Boiler House; Boiler Room Well.
5. Gas Producer Building; Sump.
6. Condenser
7. Hot Flush Tank; NH_3 Cooling Coils; Tar Tanks; Tar Storage; Fuel Oil.
8. Gas Holder
9. By-Products Building; Acid Storage; Still Waste Liquid Sump.
10. Naphthalene Oil Pump; Gas Oil Tank; Sump.
11. Thionizer Building; Sulfur Pile

Figure 2.1-3

FLOW CHART
TYPICAL MANUFACTURED GAS/COKE PROCESSES



0 600 1200 2400

SCALE IN FEET

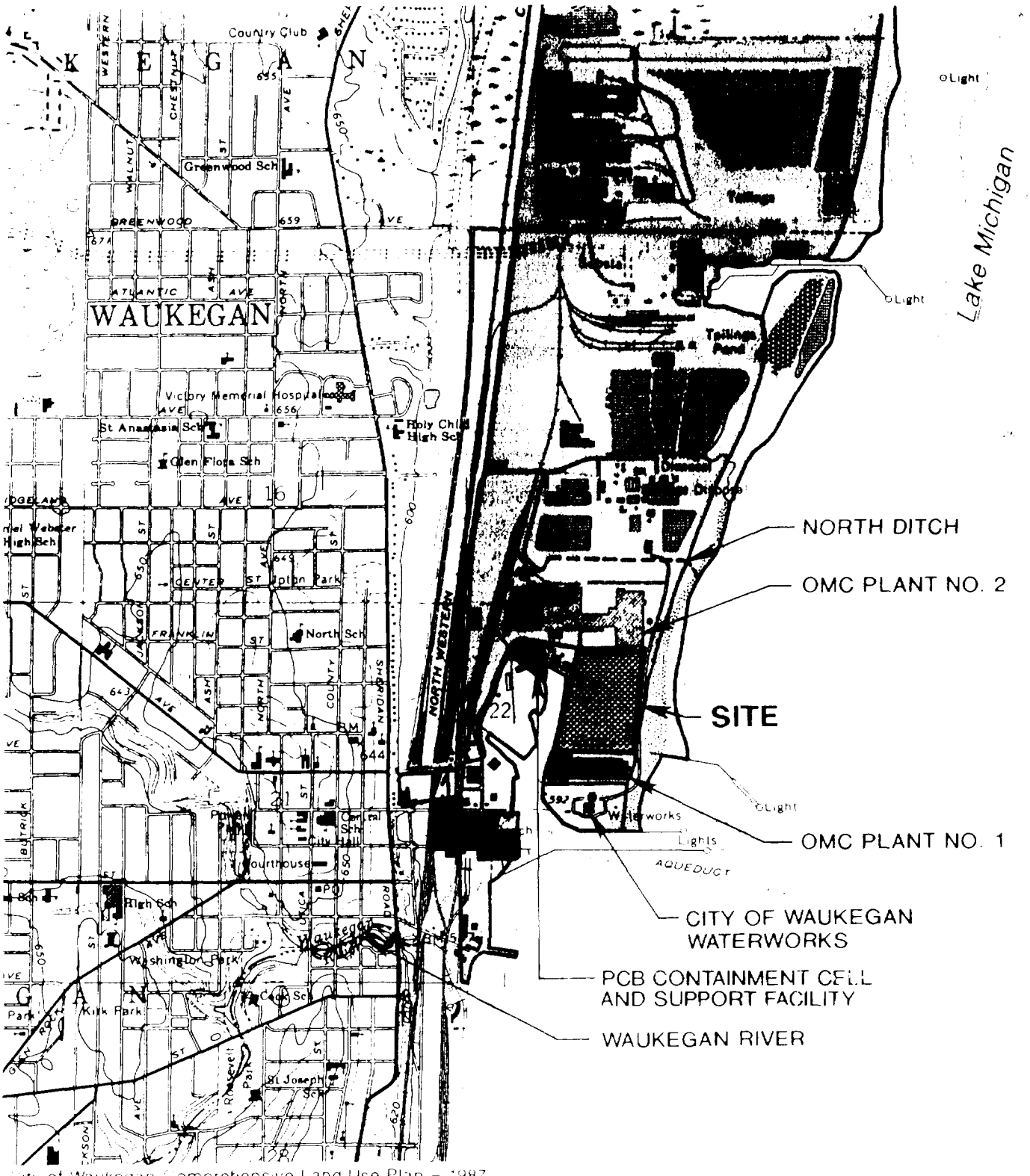
City of Waukegan Zoning Map - 1990

EXISTING ZONING

- GENERAL INDUSTRIAL
- MARINE / COMMERCIAL RECREATION
- CONSERVATION / RECREATION

Figure 2.2-1

ZONING MAP



N

0 2000 4000

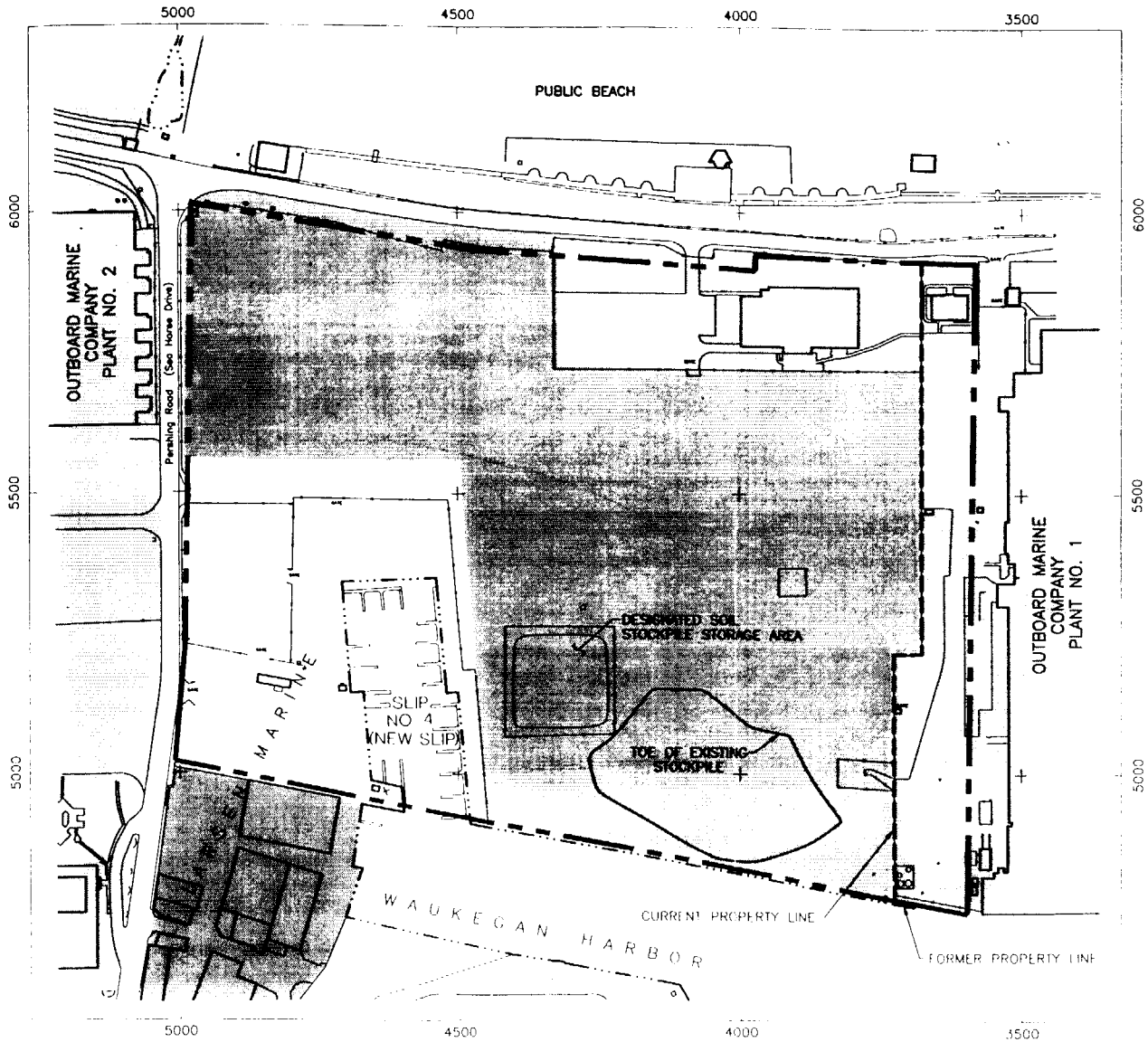
Scale in Feet

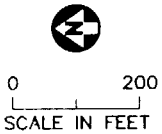
LAND USE PLAN, 1987

- Parks, Forest Preserve and Recreational Open Space
- Commercial Office-Business
- Public & Semi-Public
- Industrial

Figure 2.2-2

COMPREHENSIVE LAND USE PLANNING MAP
Waukegan Manufactured Gas and Coke Plant Site



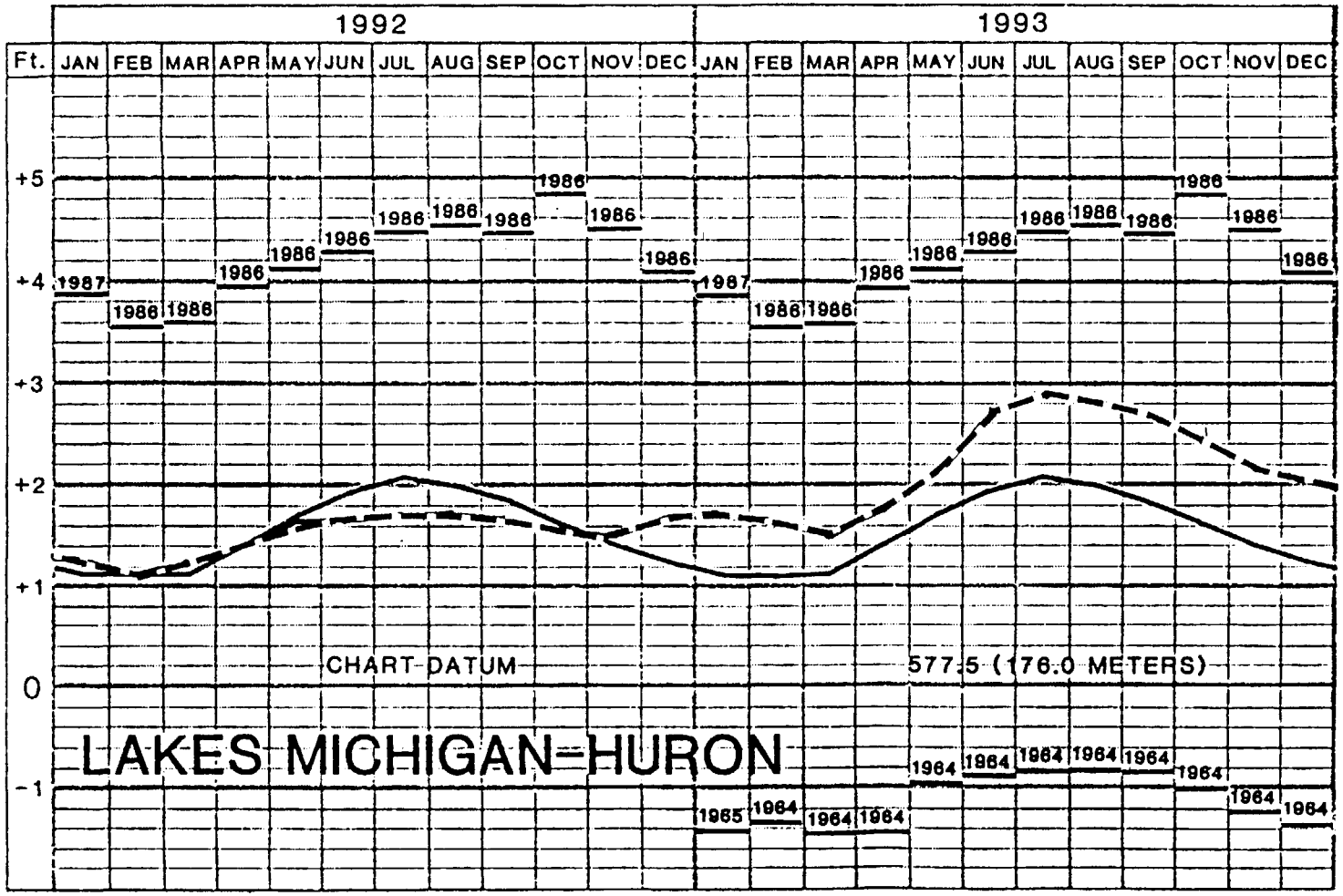


EXISTING LAND USE

- BEACH/PARK
- VACANT LAND
- INDUSTRIAL
- BOAT STORAGE
- MARINE COMMERCIAL

Figure 2.2.3

EXISTING LAND USE
Waukegan Manufactured Gas and Coke Plant Site



Note: Figure taken from Monthly Bulletin of Lake Levels for the Great Lakes, U.S. Corps of Engineers December 1993.

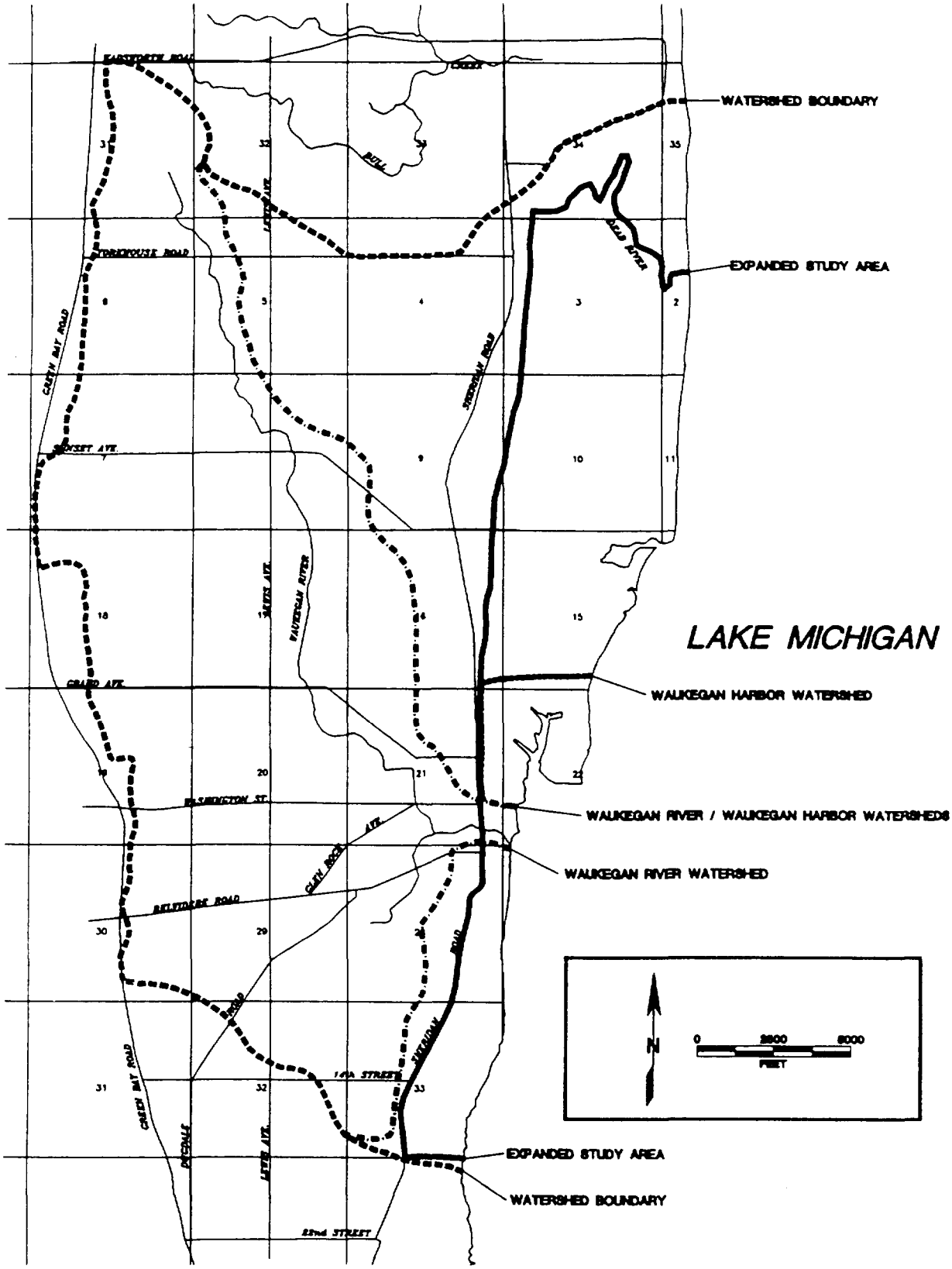
DATUM CONVERSION:
IGLD (1985) + 0.60 Feet = MSL (1929)

Figure 2.2-4

LAKE MICHIGAN WATER LEVEL CYCLE
Waukegan Manufactured Gas
and Coke Plant Site

— — — — Recorded Lake Level (IGLD 1985)

———— 1900-1992 Average Level (IGLD 1985)

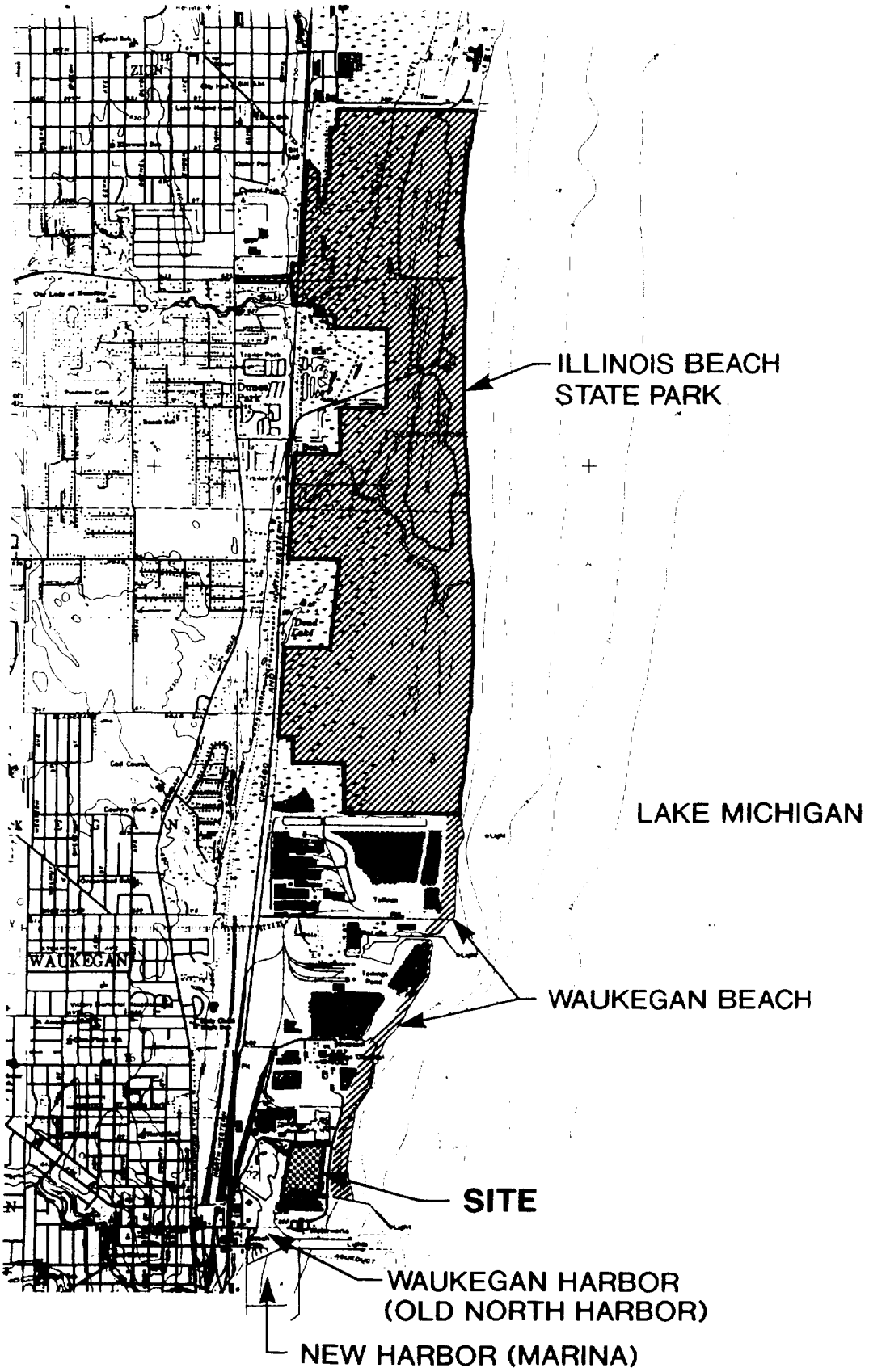


Note: Watershed Figure taken from Waukegan Remedial Action Plan - Final Report, March 1, 1993 IEPA, Waukegan Citizens Advisory Group

Figure 2.2-5

WAUKEGAN HARBOR WATERSHED

Waukegan Manufactured Gas and Coke Plant Site



Source: Waukegan and Zion, Illinois Quadrangle, 7.5 Minute Series, 1980

N

0 4000 8000

Scale in Feet

Figure 2.2-6
ECOLOGICAL FEATURES

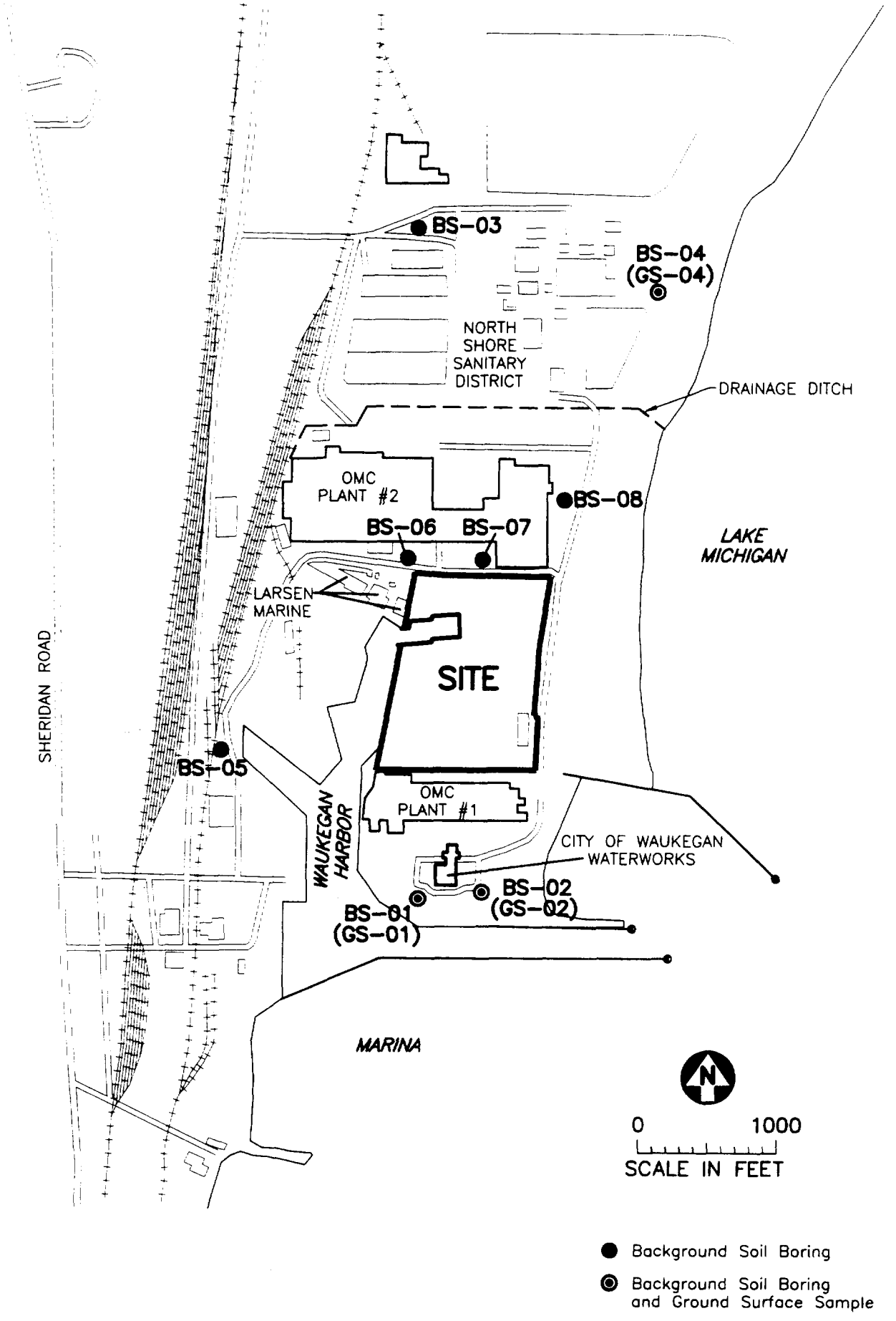
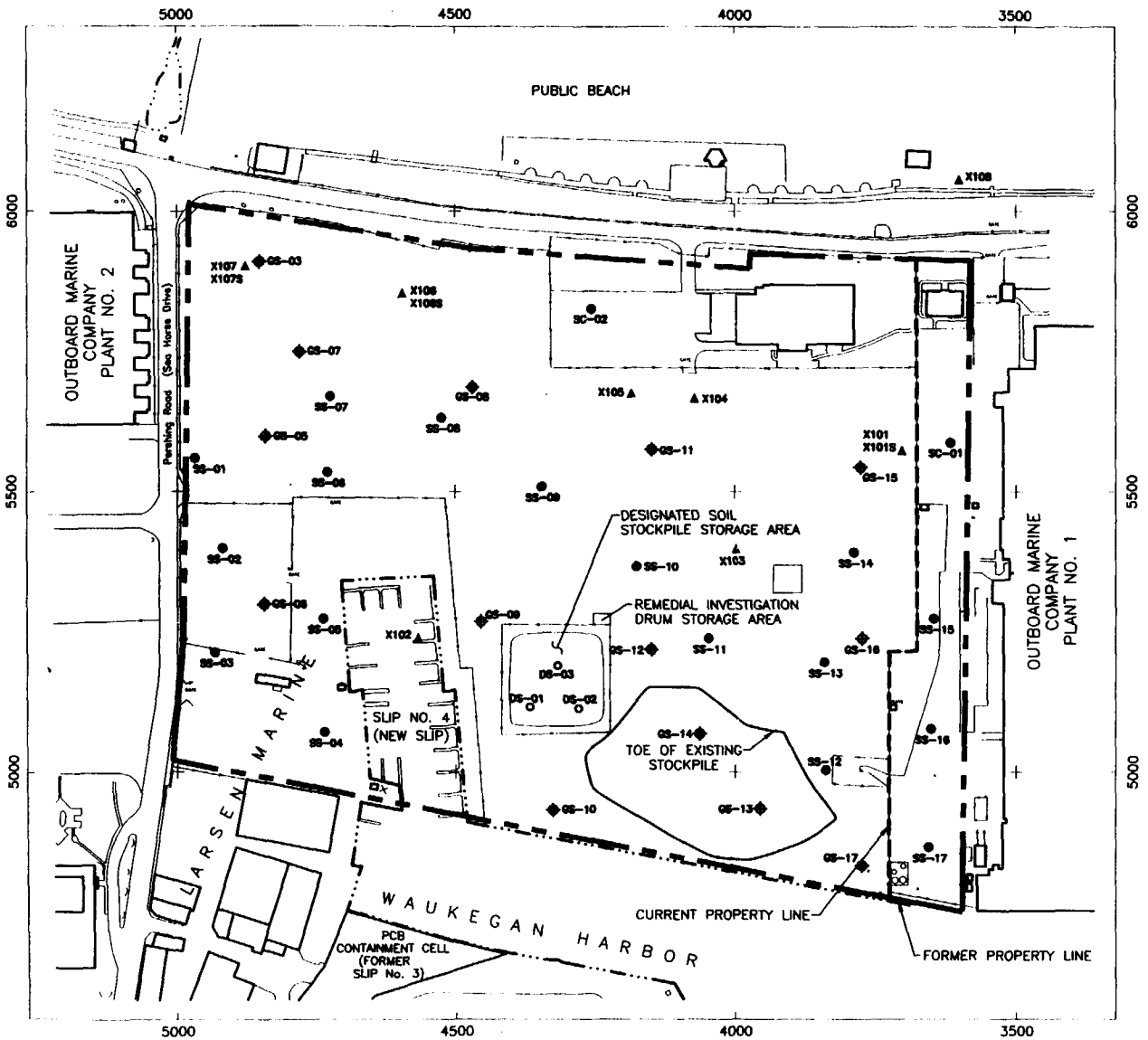


Figure 4.1-1

AND OFFSITE GROUND SURFACE SOIL SAMPLE LOCATIONS
Waukegan Manufactured Gas & Coke Plant Site

Randy Wilson C:\PROJECTS\1349003\WAUK\WCP-BKS' 1000.0000 01/07/19 17:14

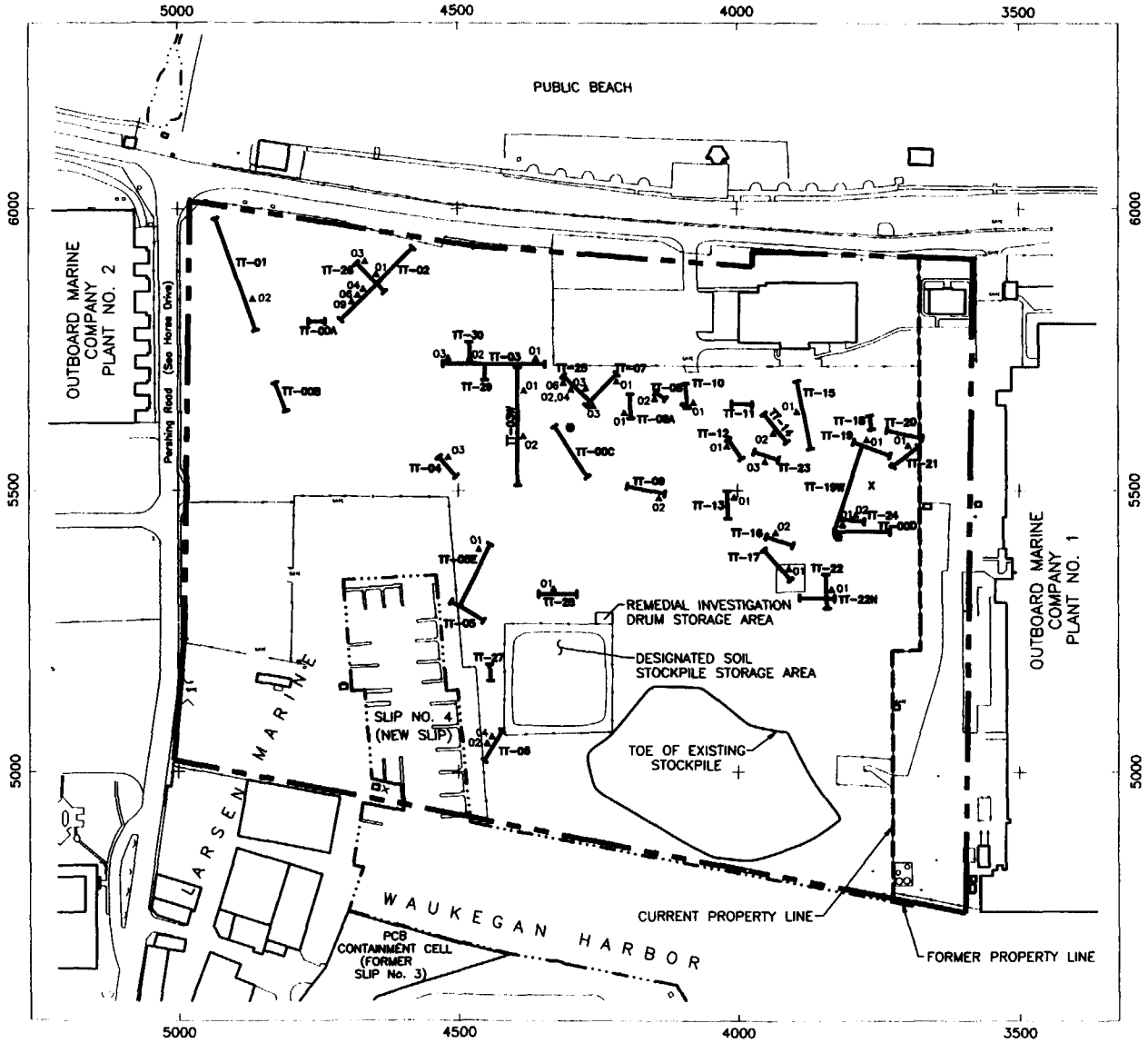


0 200
SCALE IN FEET

- ● SC-01 Surficial Soil Sample Location
- ● SS-14 Surficial Soil Sample Location
- ◆ GS-16 Ground Surface Soil Sample Location
- ○ DS-02 Designated Soil Stockpile Sample Location.
- ▲ X105 Illinois Enviromental Protection Agency Soil Sample Location

Figure 4.1-2
SURFICIAL SOIL SAMPLE,
GROUND SURFACE SOIL SAMPLE,
DESIGNATED SOIL STOCKPILE SAMPLE,
AND IEPA SOIL SAMPLE LOCATIONS
Waukegan Manufactured Gas & Coke Plant Site

R/W C:\PROJECTS\1349003\WAUK\WCP-SURF 200.00 11/04/1994 11:03:06

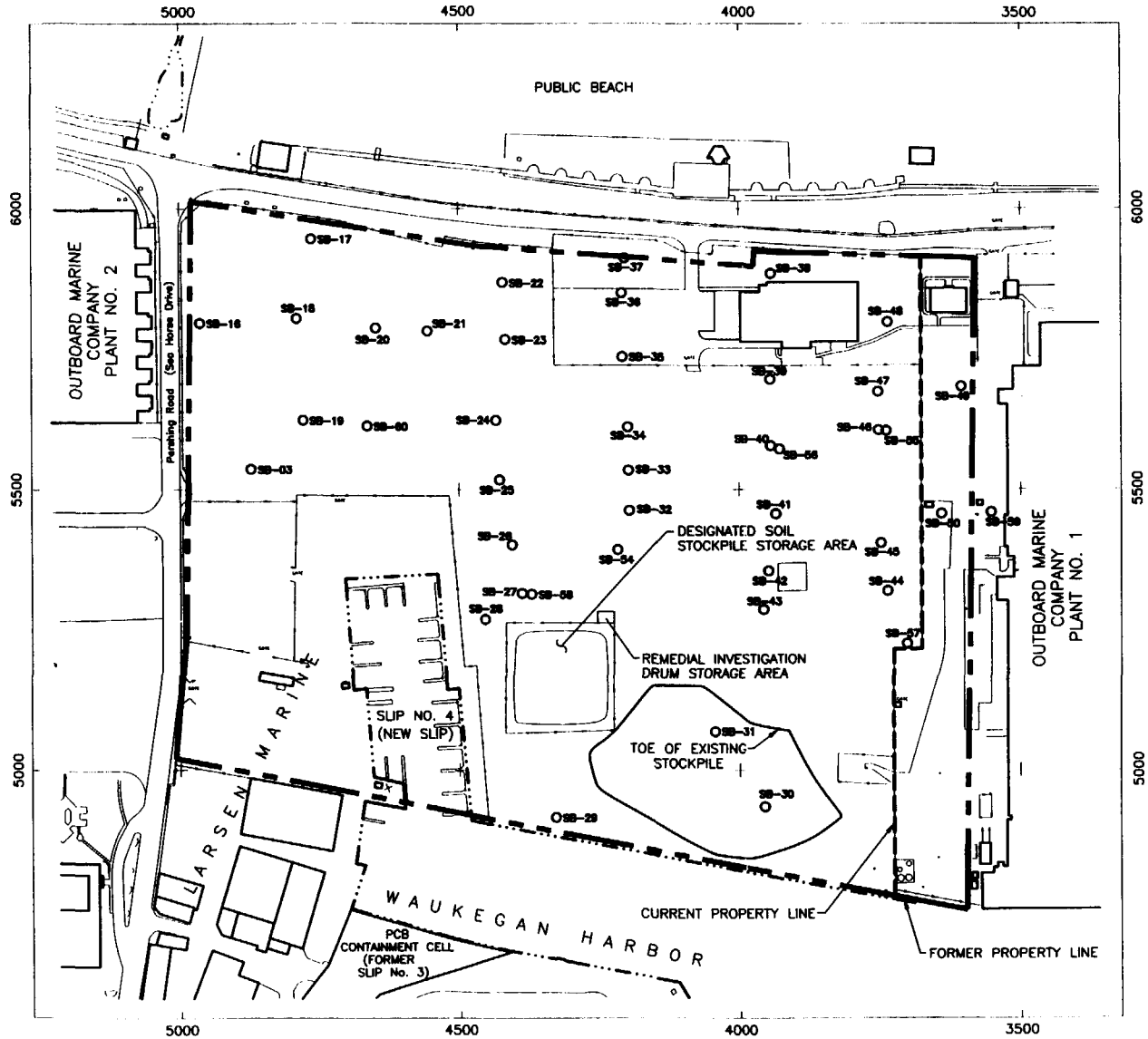


0 200
SCALE IN FEET

▲01 Test Trench Sample Location
Test Trench Location
● Soft Tar Sample Location
X Hard Tar Sample Location

Figure 4.1-3
TEST TRENCH LOCATIONS
(REVISED 2/8/94)
Waukegan Manufactured Gas & Coke Plant Site

RJW C:\PROJECTS\1346003\WAUK\WCP-SAPL 200.00 11/04/1994 11:04:27

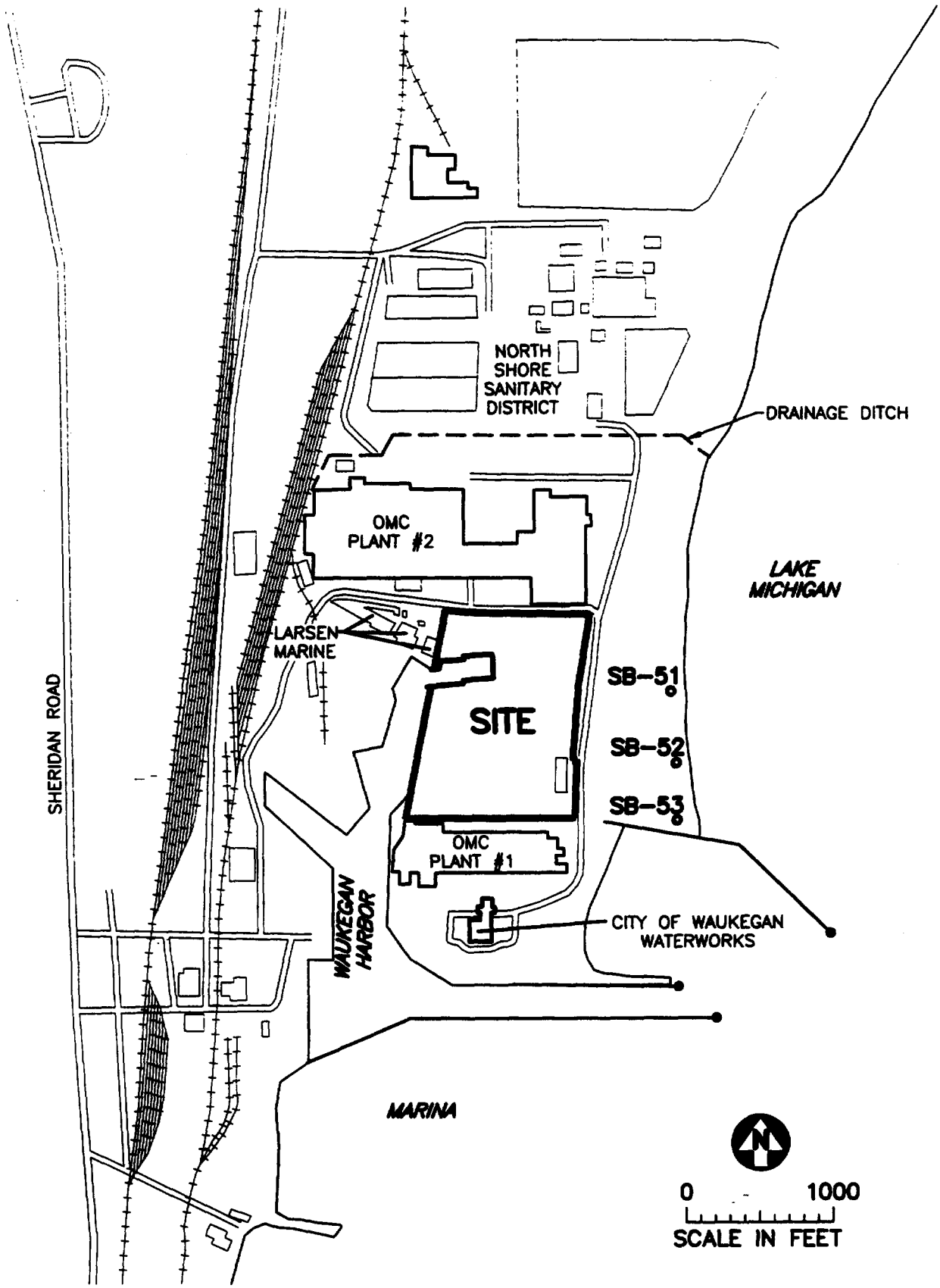


0 200
SCALE IN FEET

O SB-33 Soil Boring Location

Figure 4.1-4
SOIL BORING LOCATIONS
Waukegan Manufactured Gas & Coke Plant Site

RUN C:\PROJECTS\1349003\WAUK\WCP-SOIL 200.00 11/04/1994 13:48:22



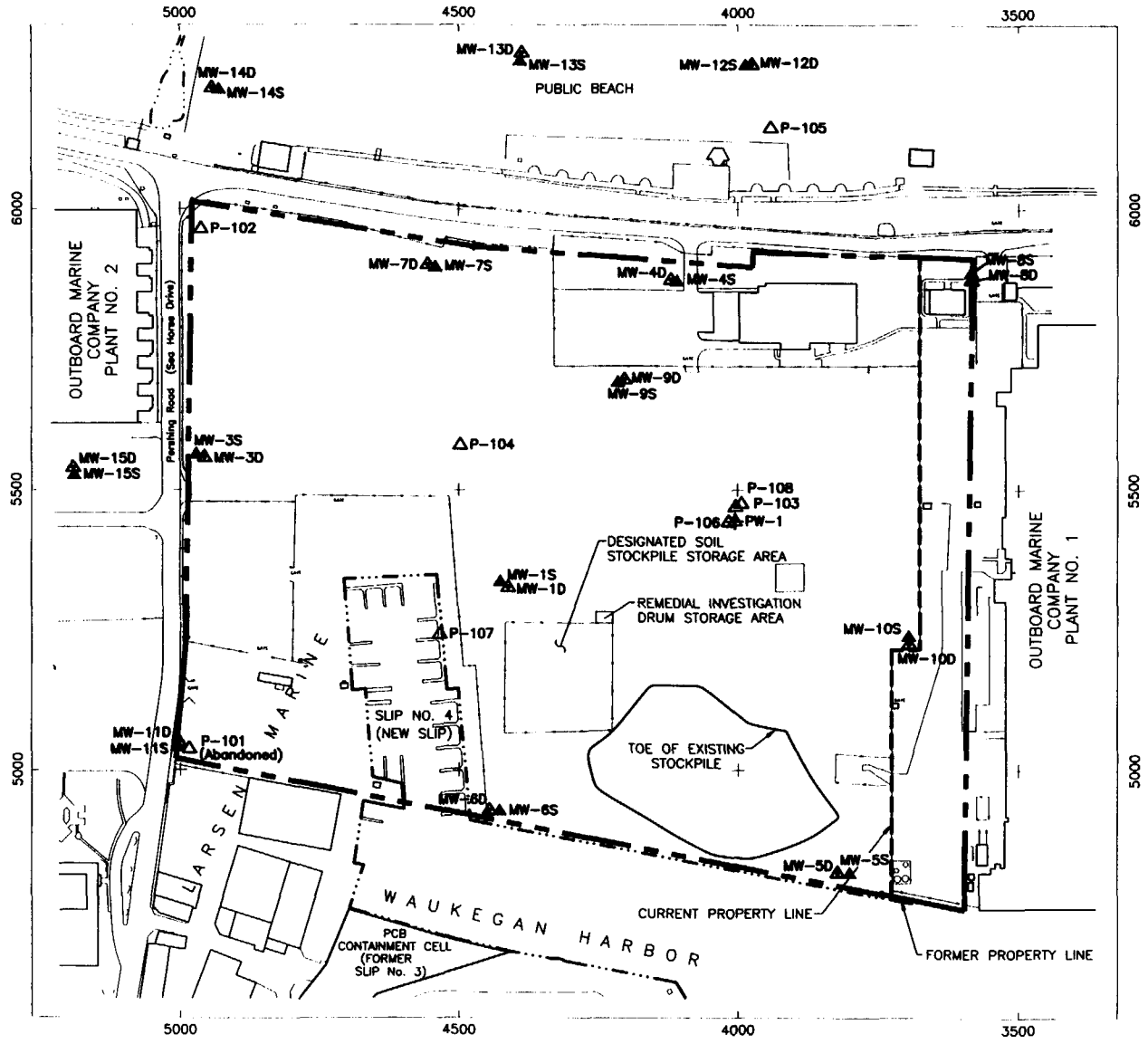
● Soil Boring With Temporary Well Point Sample

Randy Wilson C:\PROJECTS\1349003\WAUK\WCP-HBG 1000.0000 01/07/199 19:46

Figure 4.1-5

TEMPORARY WELL POINT SOIL BORING LOCATIONS

Waukegan Manufactured Gas & Coke Plant Site



0 200
SCALE IN FEET

▲ MW-7S Sand Aquifer Water Table Monitoring Well

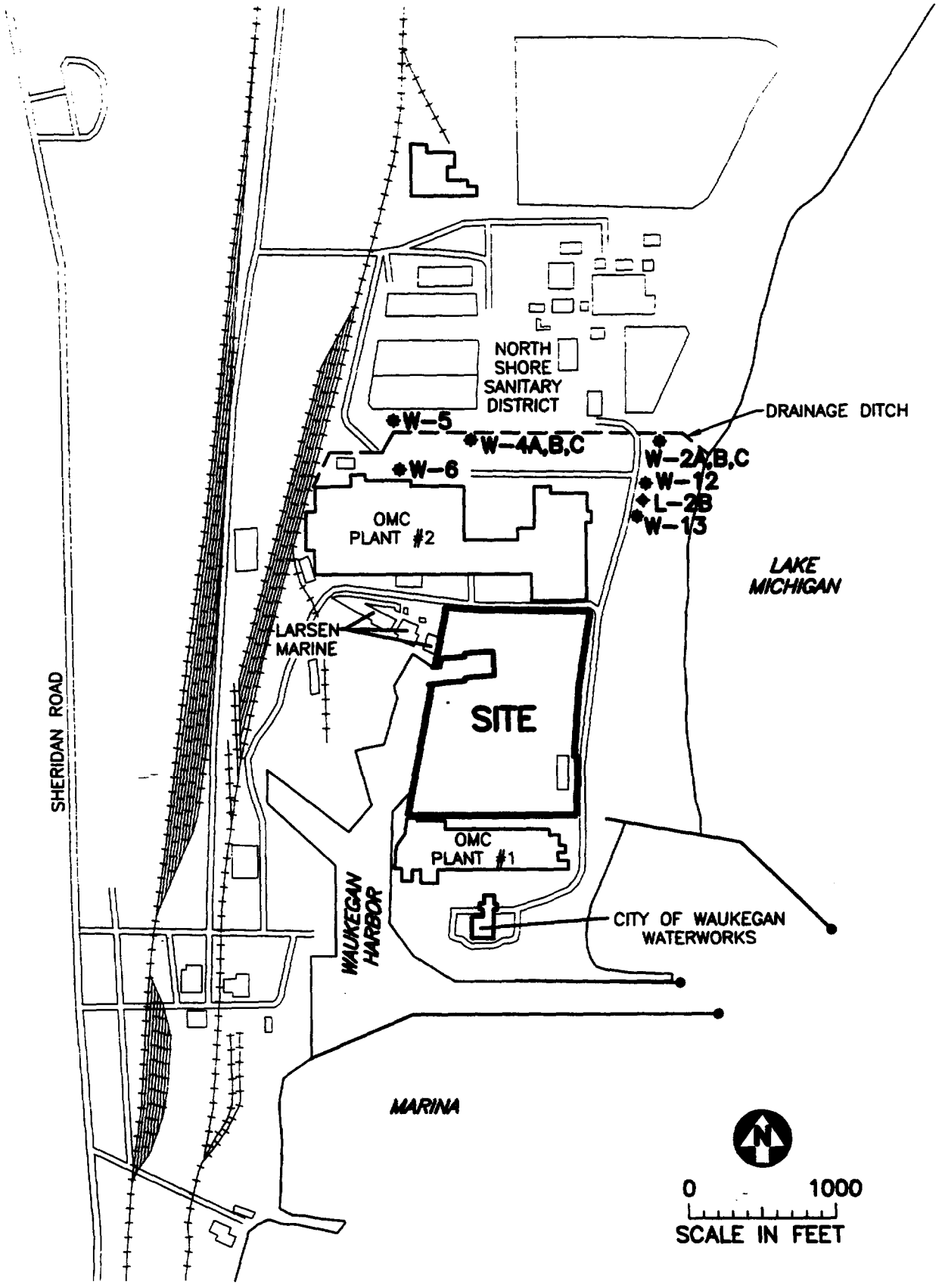
▲ MW-7D Sand Aquifer Deep Monitoring Well

PW-1 Pumping Well

△ P-107 Piezometer

Figure 4.1-6
PIEZOMETER, MONITORING WELL, AND PUMPING WELL LOCATIONS
Waukegan Manufactured Gas & Coke Plant

RJW C:\PROJECTS\1349003\WAUK\WCP-BORE 200.00 11/04/1994 13:49:25



US. EPA Monitoring Well

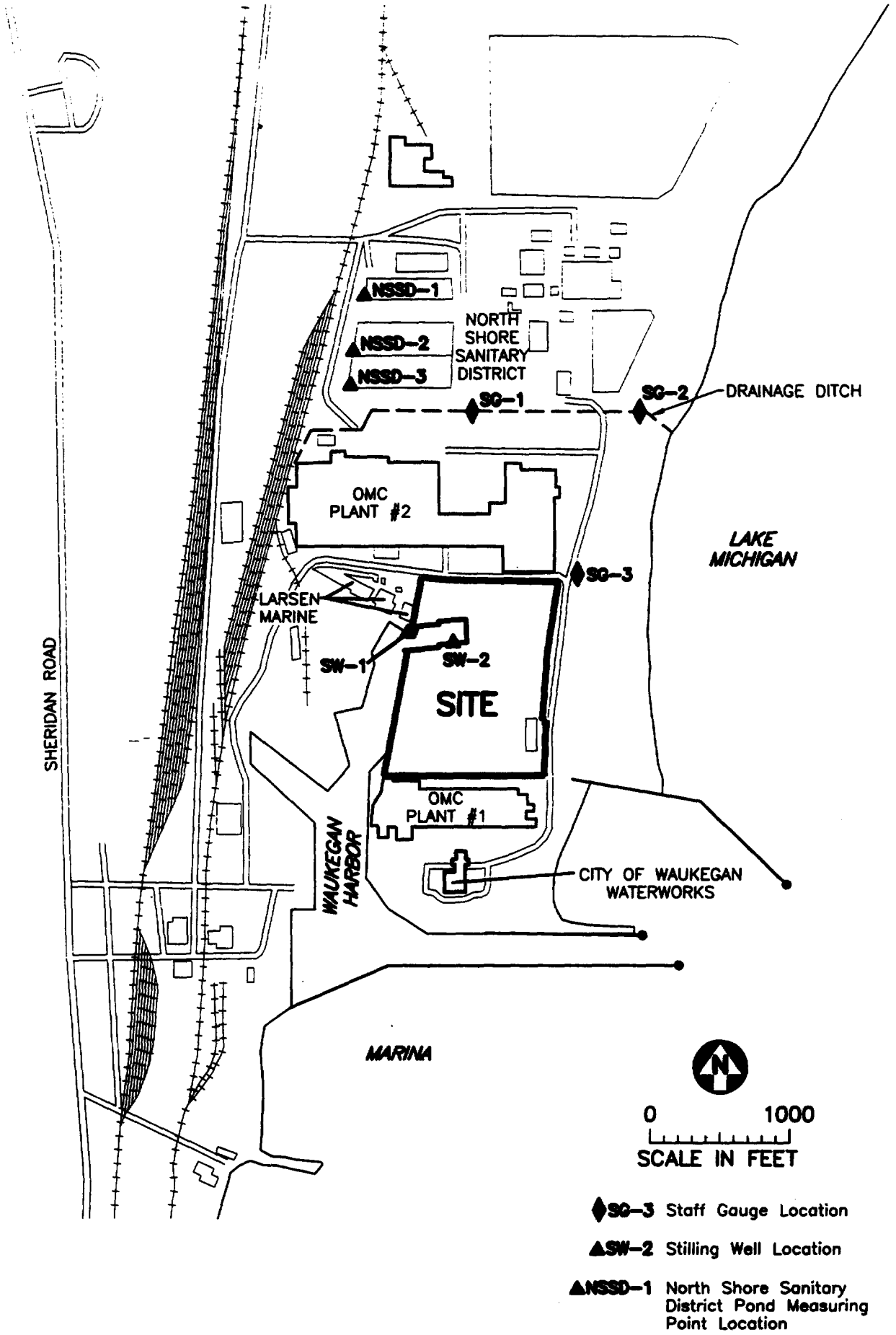
OMC Deep Bedrock Piezometer

Figure 4.2-1

[illegible] SITE MONITORING WELL LOCATIONS

Waukegan Manufactured Gas & Coke Plant Site

Randy Wilson C:\PROJECTS\1349003\WAUK\WCP-EXH 000.0000 01/07/199- 23:03

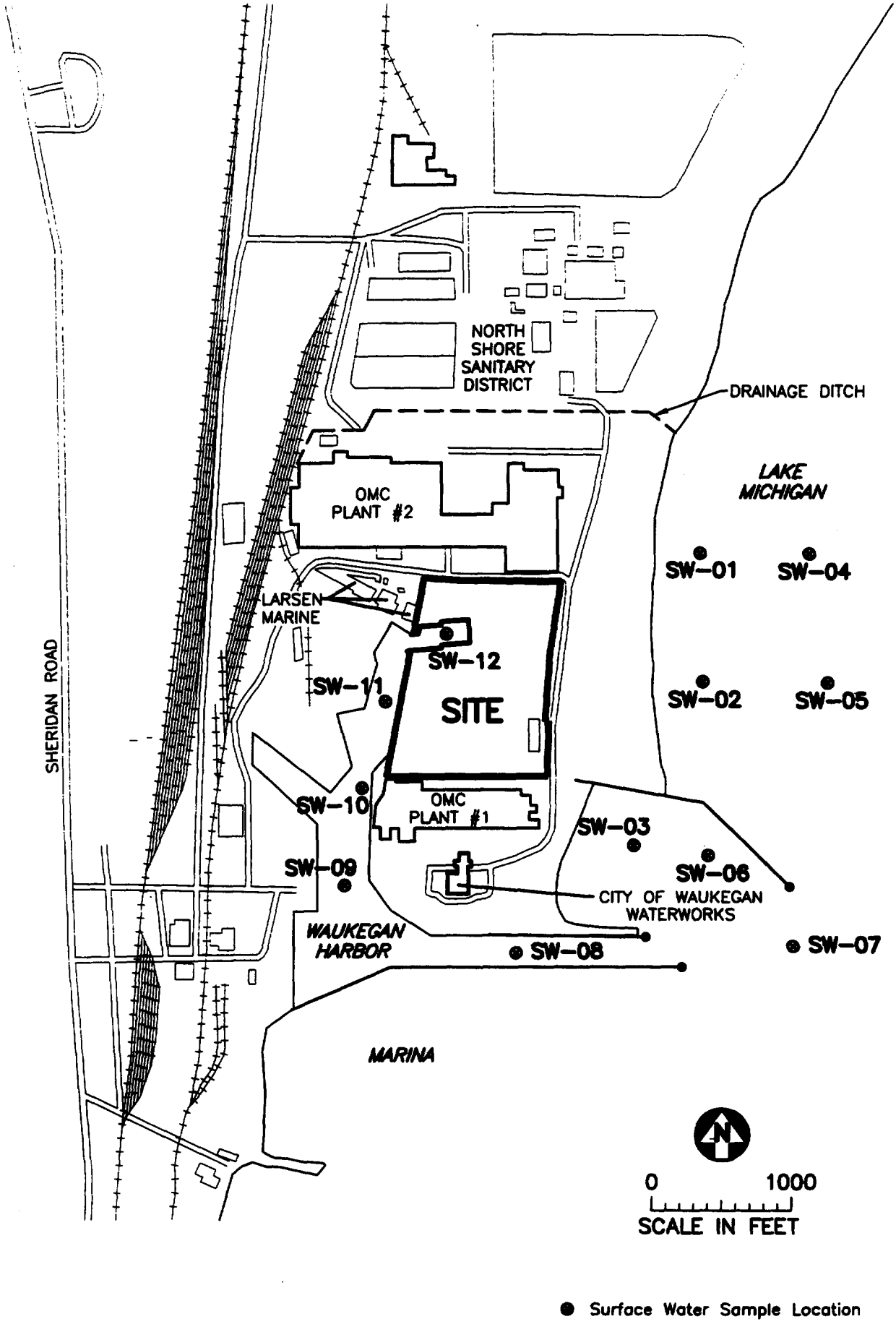


Randy Wilson C:\PROJECTS\1349003\WAUK\WCP-SWTR 1000.0000 01/07/1994 09:16:06

Figure 4.2-2

WATER LEVEL MONITORING LOCATIONS

Waukegan Manufactured Gas & Coke Plant Site



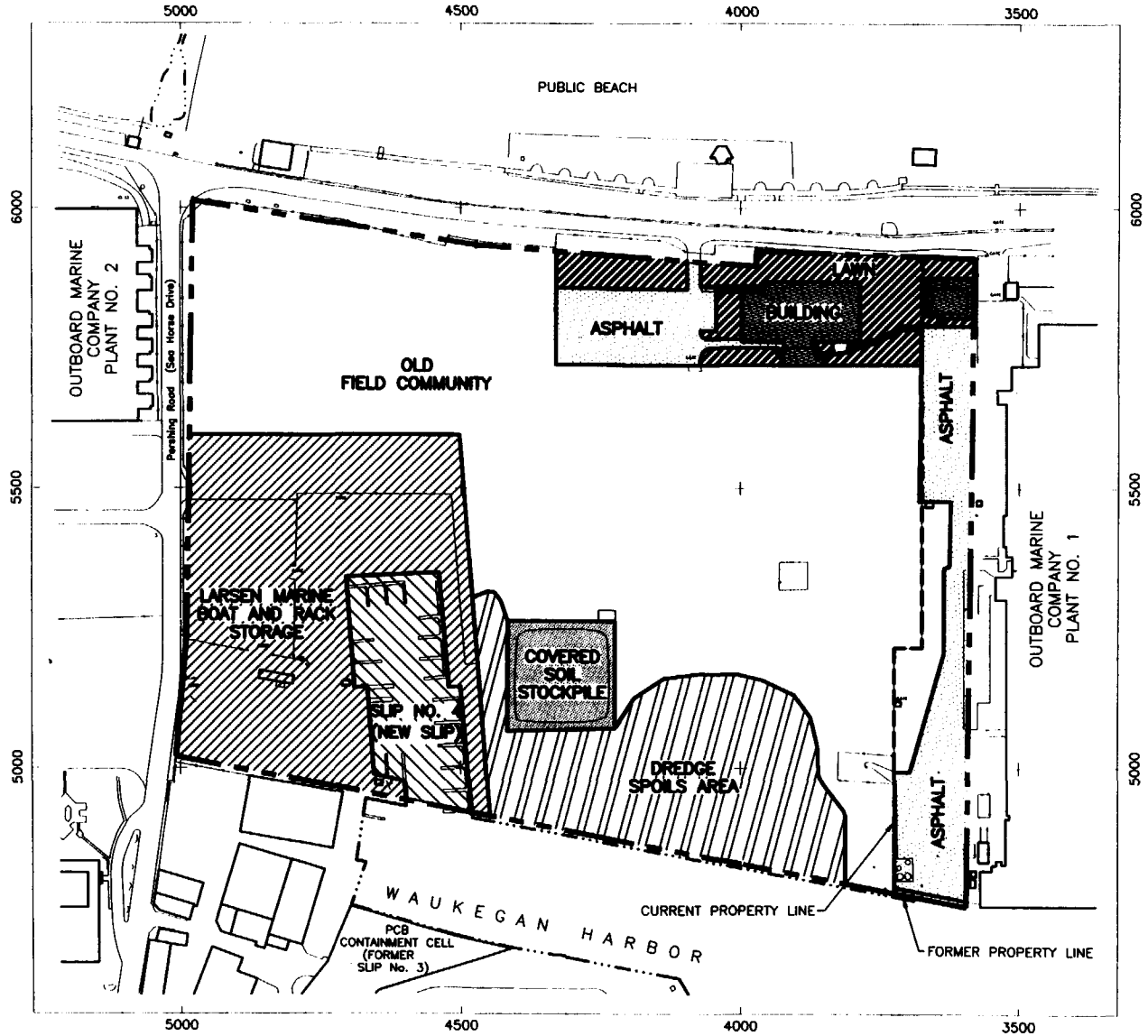
● Surface Water Sample Location

Figure 4.4-1

SURFACE WATER SAMPLE LOCATIONS

Waukegan Manufactured Gas & Coke Plant Site

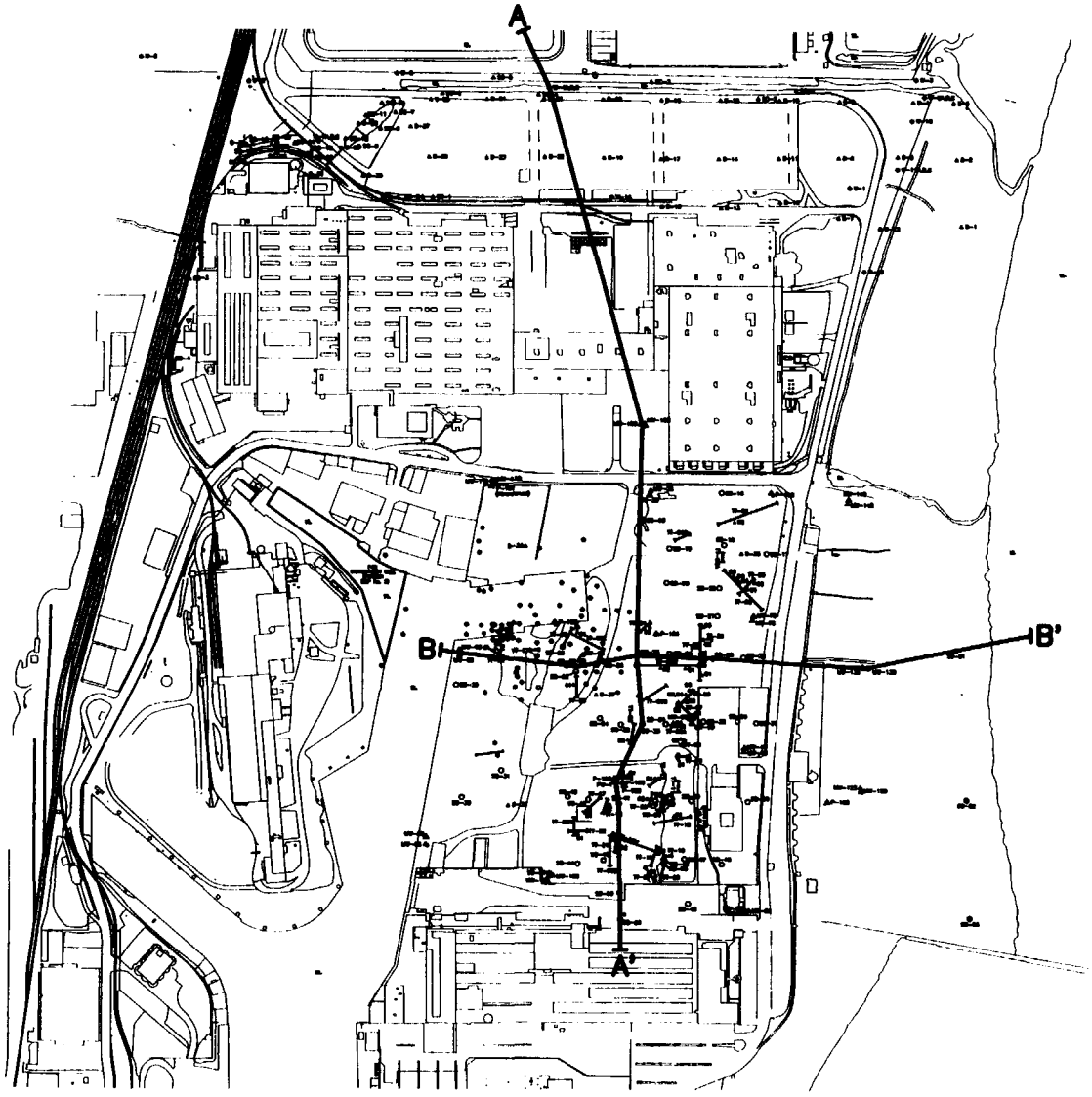
Randy Wilson C:\PROJECTS\1349003\WAUK\WCP-SBOR 700.0000 01/07/1994 1:47



0 200
SCALE IN FEET

RJW C:\PROJECTS\1349003\WAUK\WCP-ENV1 200.00 11/04/1994 13:31:04

Figure 4.5-1
SURFACE ENVIRONMENTAL FEATURES
Waukegan Manufactured Gas & Coke Plant Site



0 400
SCALE IN FEET

A—A'	Geologic Cross Section Location
▲01	Test Trench Sample Location
⊢⊣	Test Trench Location
○ SB-33	Soil Boring Location
⊕	Canonie Soil Boring
▲ B-8	Soil Boring (By Others)
▲ MW-7S	Sand Aquifer Water Table Monitoring Well
△ MW-7D	Sand Aquifer Deep Monitoring Well
● W-6	Monitoring Well/Piezometer
PW-1	Pumping Well
△ P-107	Piezometer
△ SC-10	Soil Core
● SB-51	Soil Boring With Temporary Well Point Sample

RJW C:\PROJECTS\134900J\WAUK\WCP-XSC 200.00 11/04/1994 16:45:38

Figure 5.1-1
GEOLOGIC CROSS SECTION LOCATION MAP
Waukegan Manufactured Gas & Coke Plant

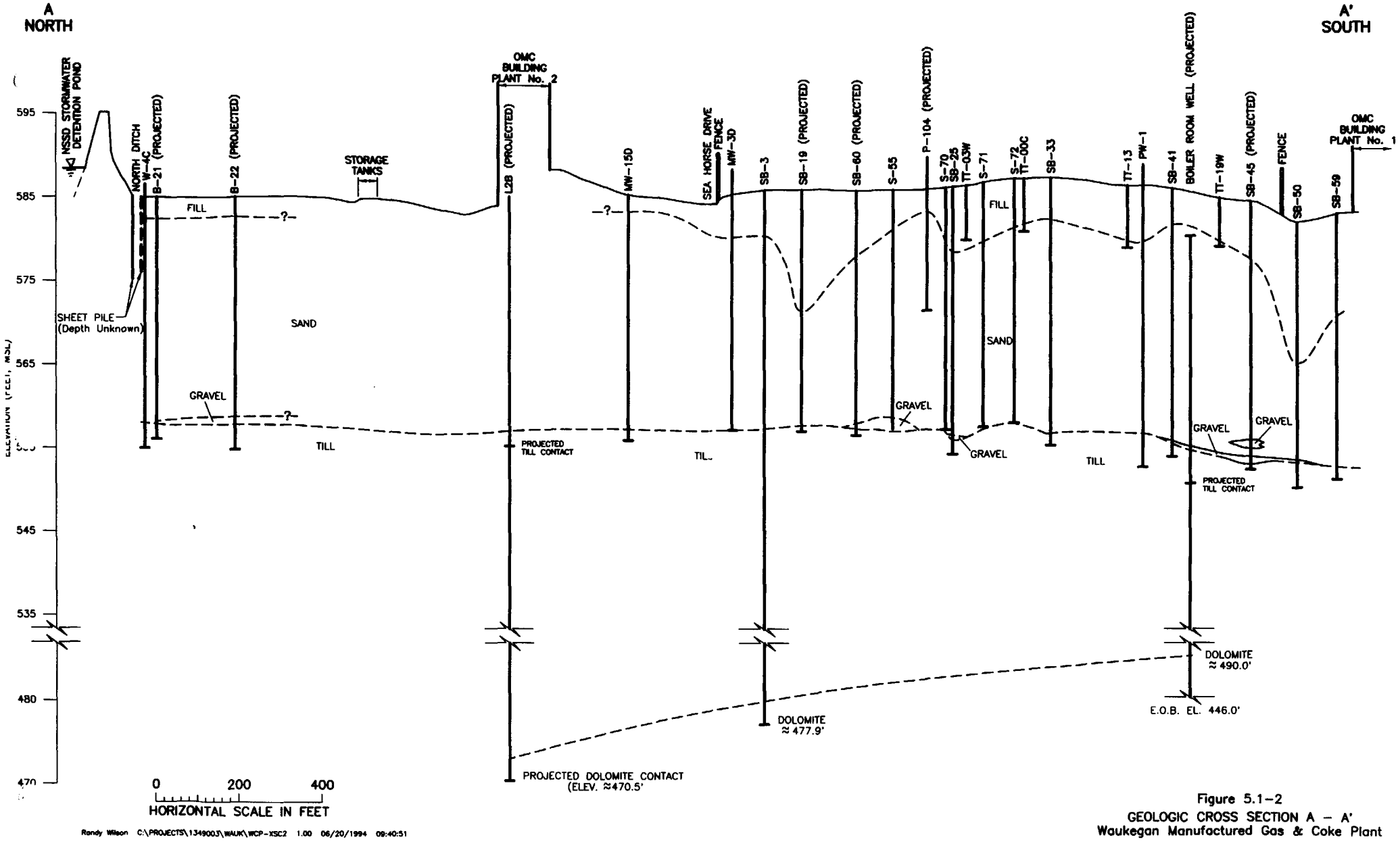


Figure 5.1-2
GEOLOGIC CROSS SECTION A – A'
Waukegan Manufactured Gas & Coke Plant

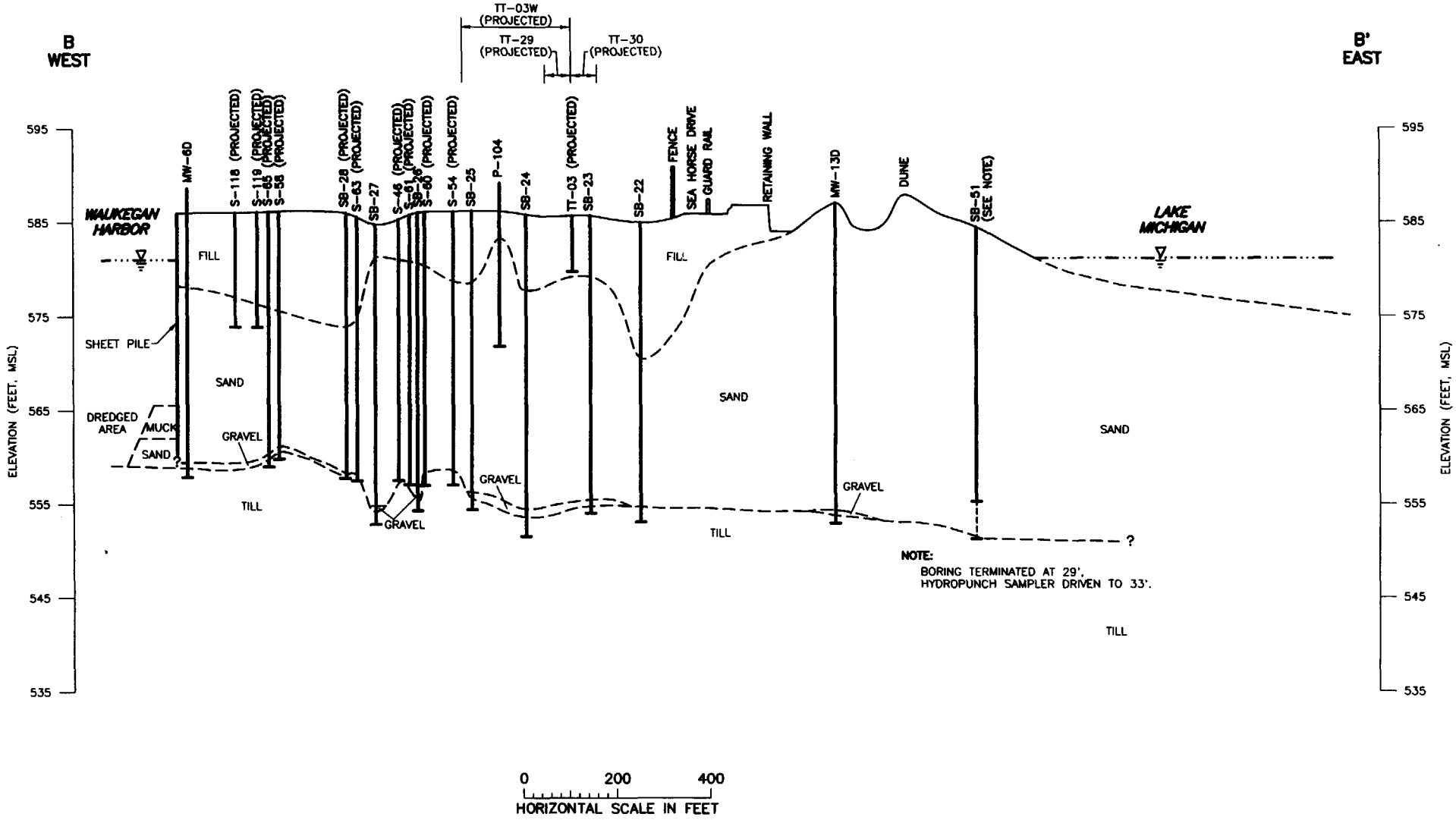
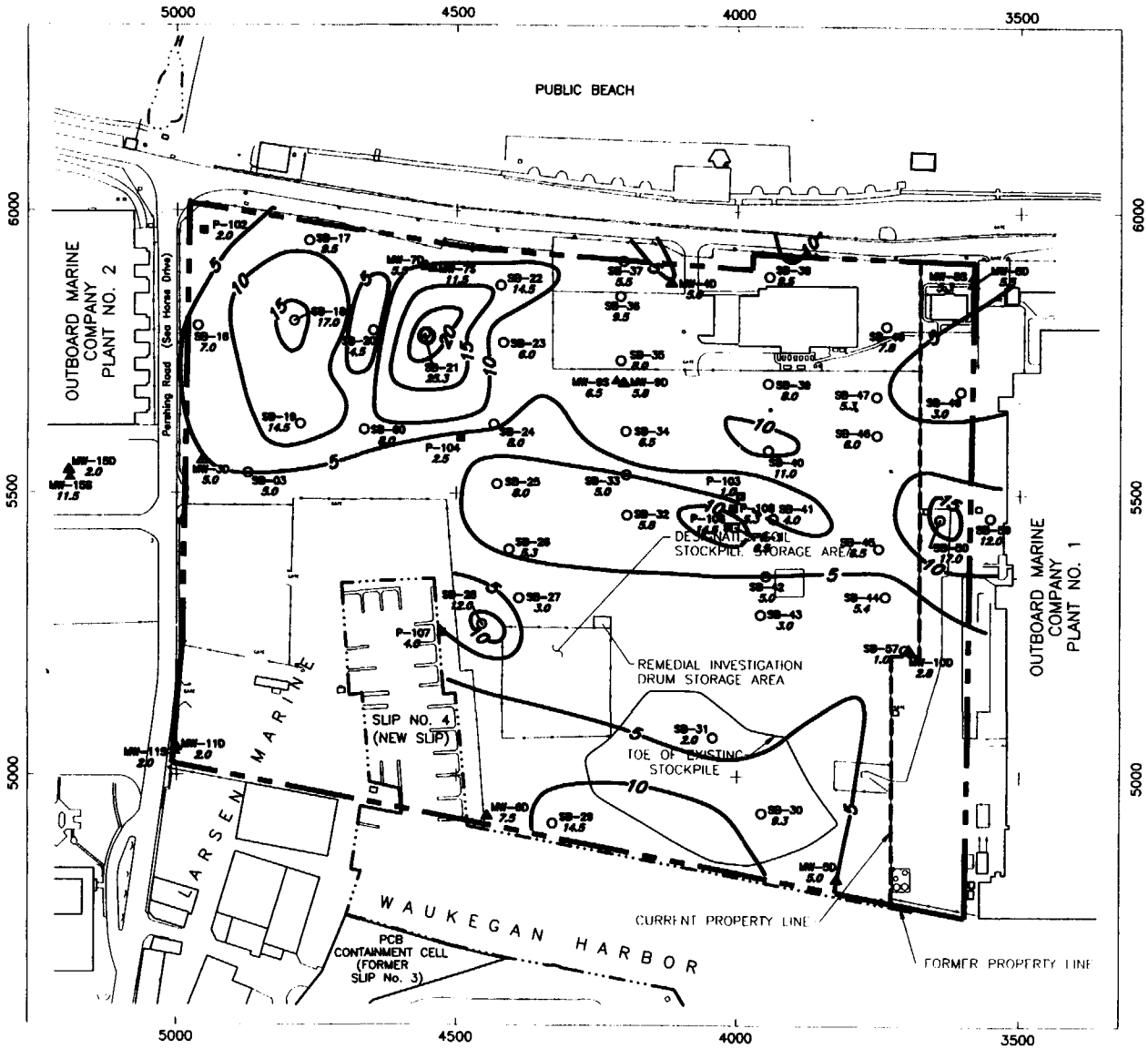


Figure 5.1-3
GEOLOGIC CROSS SECTION B – B'
Waukegan Manufactured Gas & Coke Plant

Randy Wilson C:\PROJECTS\1349003\WAUK\WCP-XSC1 1:00 06/20/1994 08:41:45

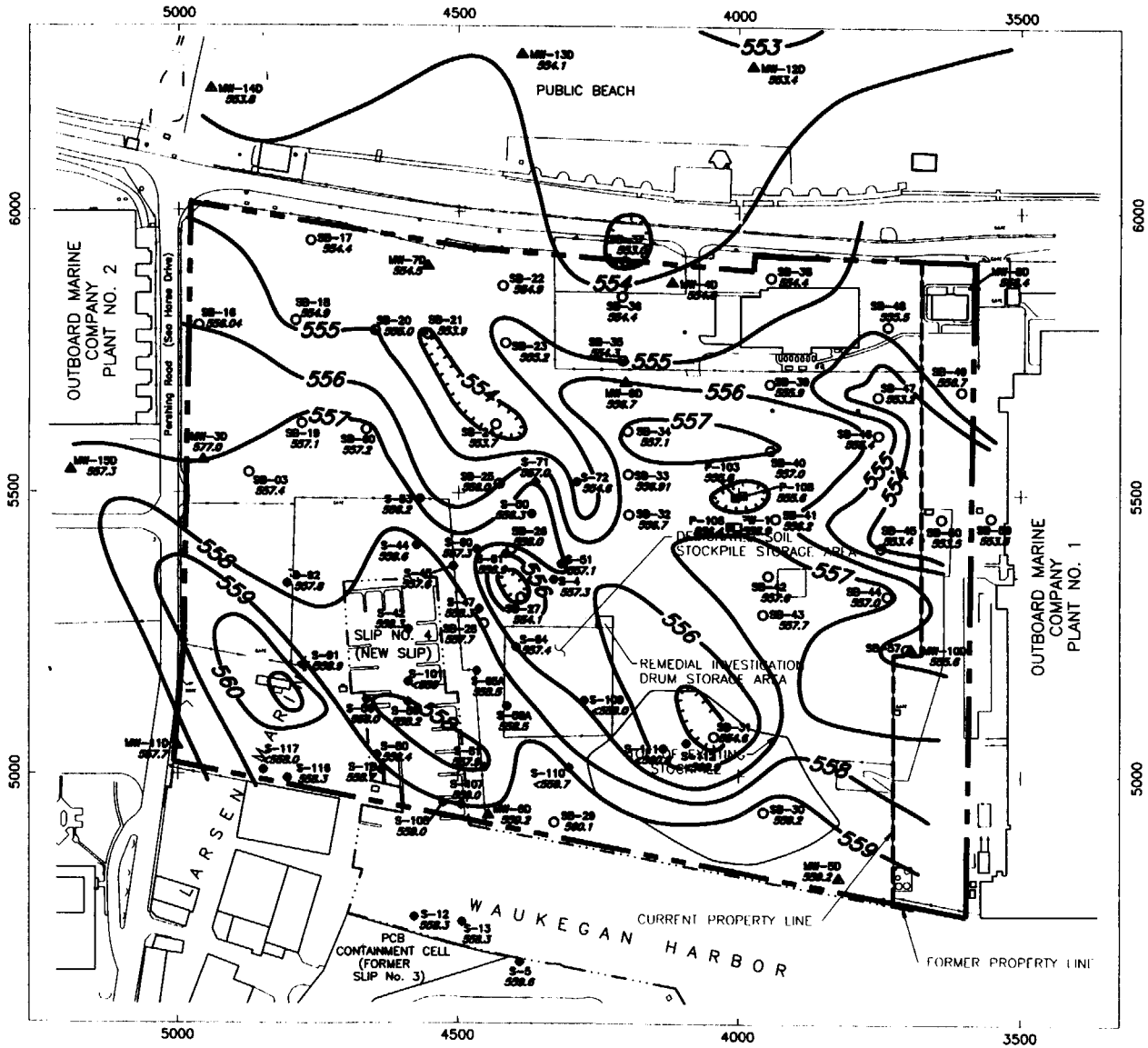


0 200
SCALE IN FEET

- PW-1 Pumping Well
- P-104 Piezometer
- SB-33 Soil Boring Location
- MW-7D Sand Aquifer Deep Water Table Monitoring Well
- MW-7S Sand Aquifer Water Table Monitoring Well
- 12.0 Fill Thickness
- —10— Fill Thickness Contour (Contour Interval = 5 feet)

Figure 5.1–4
ISOPACH MAP OF FILL
Waukegan Manufactured Gas & Coke Plant

RJW C:\PROJECTS\1340023\WAUK\WCP-DFL 200.00 11/04/1994 15:43:57

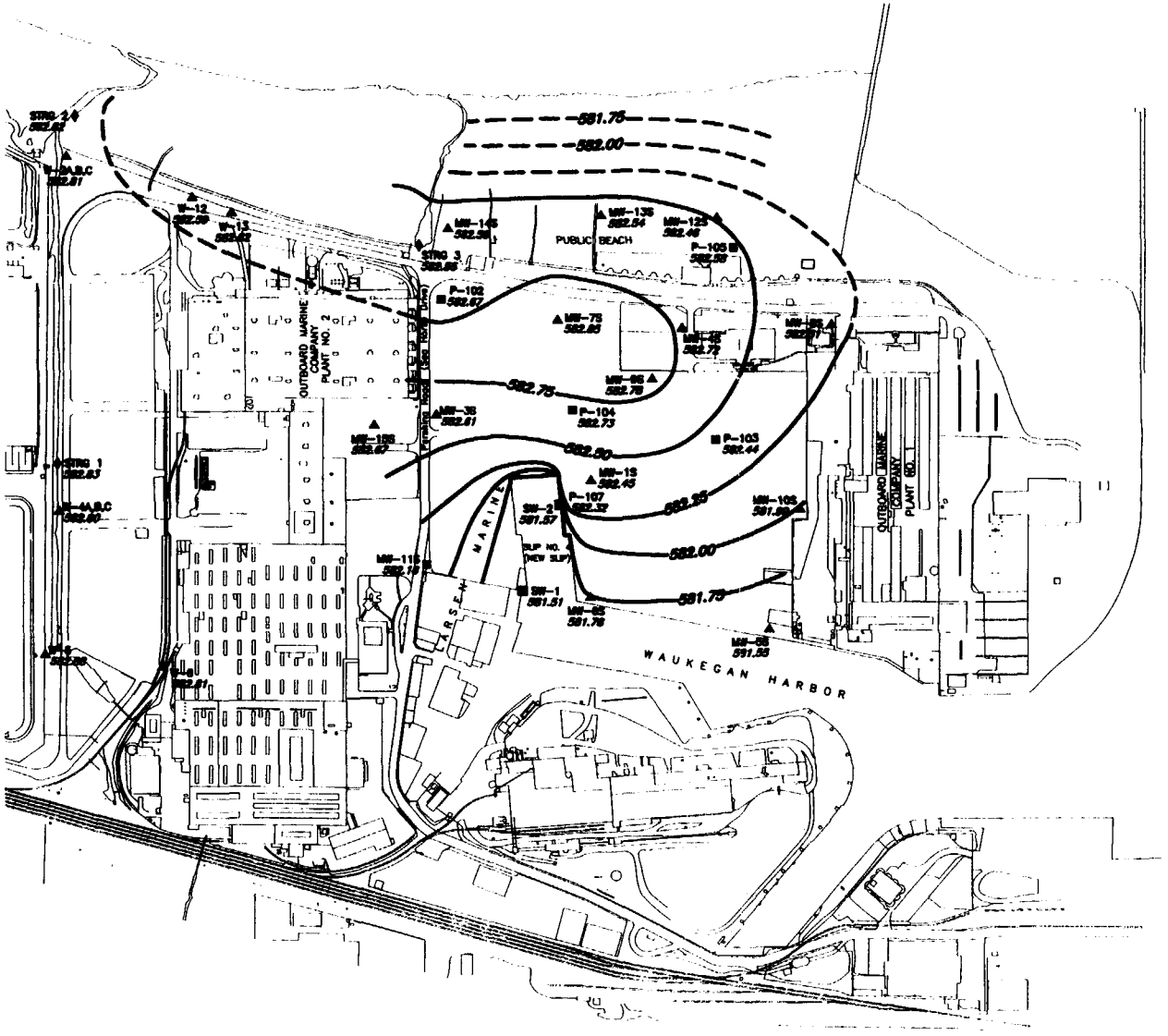


0 200
SCALE IN FEET

- Soil Boring Location
- Canonie Soil Boring
- Sand Aquifer Deep Monitoring Well
- Pumping Well
- Piezometer
- Till Surface
- Till Surface Contour (Feet, MSL) (Contour Interval = 1 foot)

Figure 5.1-5
TILL SURFACE CONTOUR MAP
Waukegan Manufactured Gas & Coke Plant Site

RJW C:\PROJECTS\1349003\WAUK\WCP-STL 200.00 11/07/1994 13:23:22



0 400
SCALE IN FEET

◆ STRG 3	Staff Gauge
■ SW-1	Stilling Well
■ P-104	Piezometer
▲ MW-8S	Sand Aquifer Water Table Monitoring Well
582.67	Water Table Elevation (Elevation In Feet, MSL)
—582.50—	Water Table Contour (Contour Interval = 0.25 ft.); Dashed Segments Indicate Lack Of Bounding Data

Randy Wilson C:\PROJECTS\1349003\WAUK\WCP-OT31 400.00 06/20/1994 09:46:36

Figure 5.2-1
SAND AQUIFER WATER TABLE
ELEVATION CONTOUR MAP
(10/31/93)
Waukegan Manufactured Gas & Coke Plant

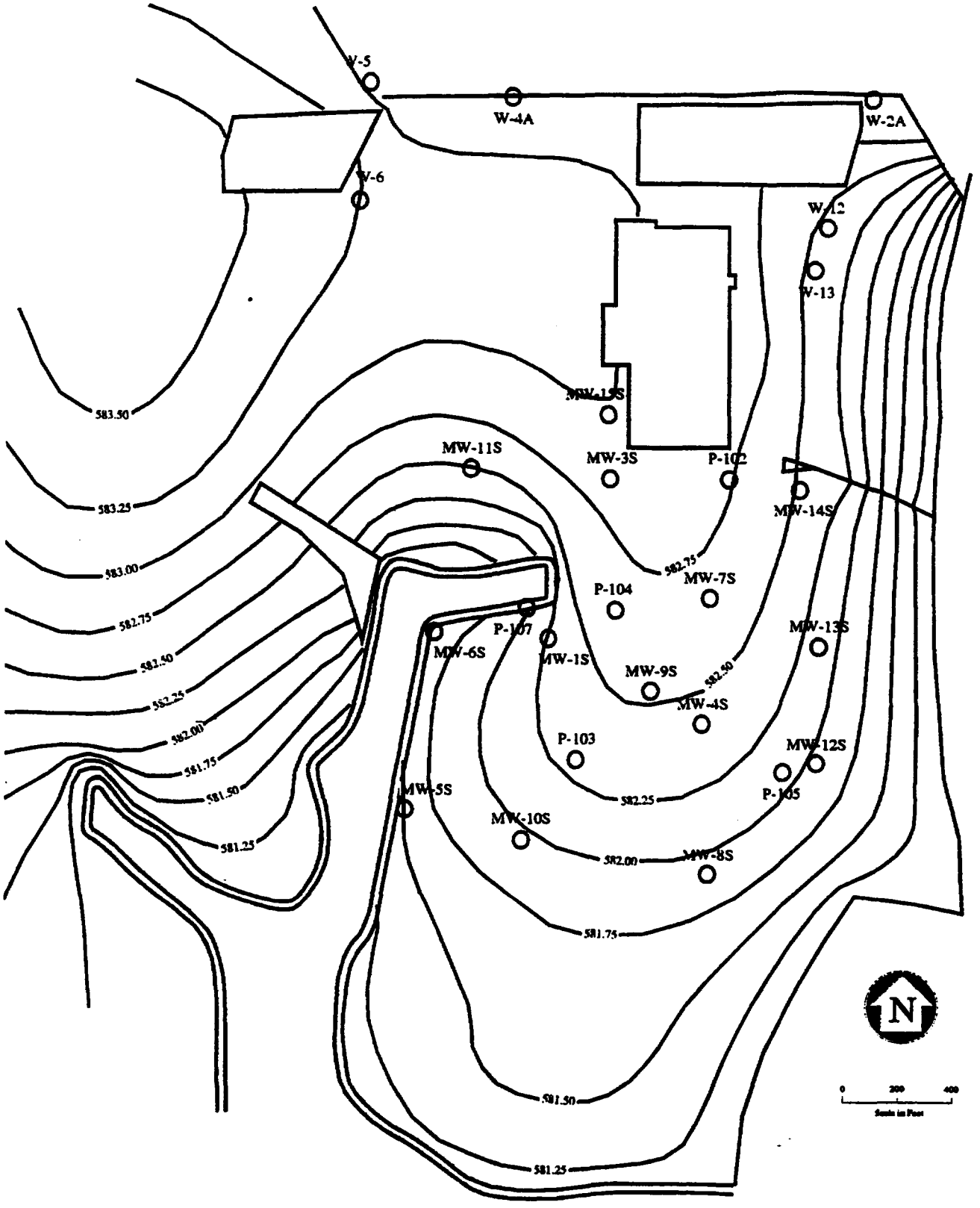


Figure 5.2-2

CONTOURS OF SIMULATED PIEZOMETRIC HEAD
FROM THE SLAEM GROUNDWATER MODEL
(SITE CALIBRATED)

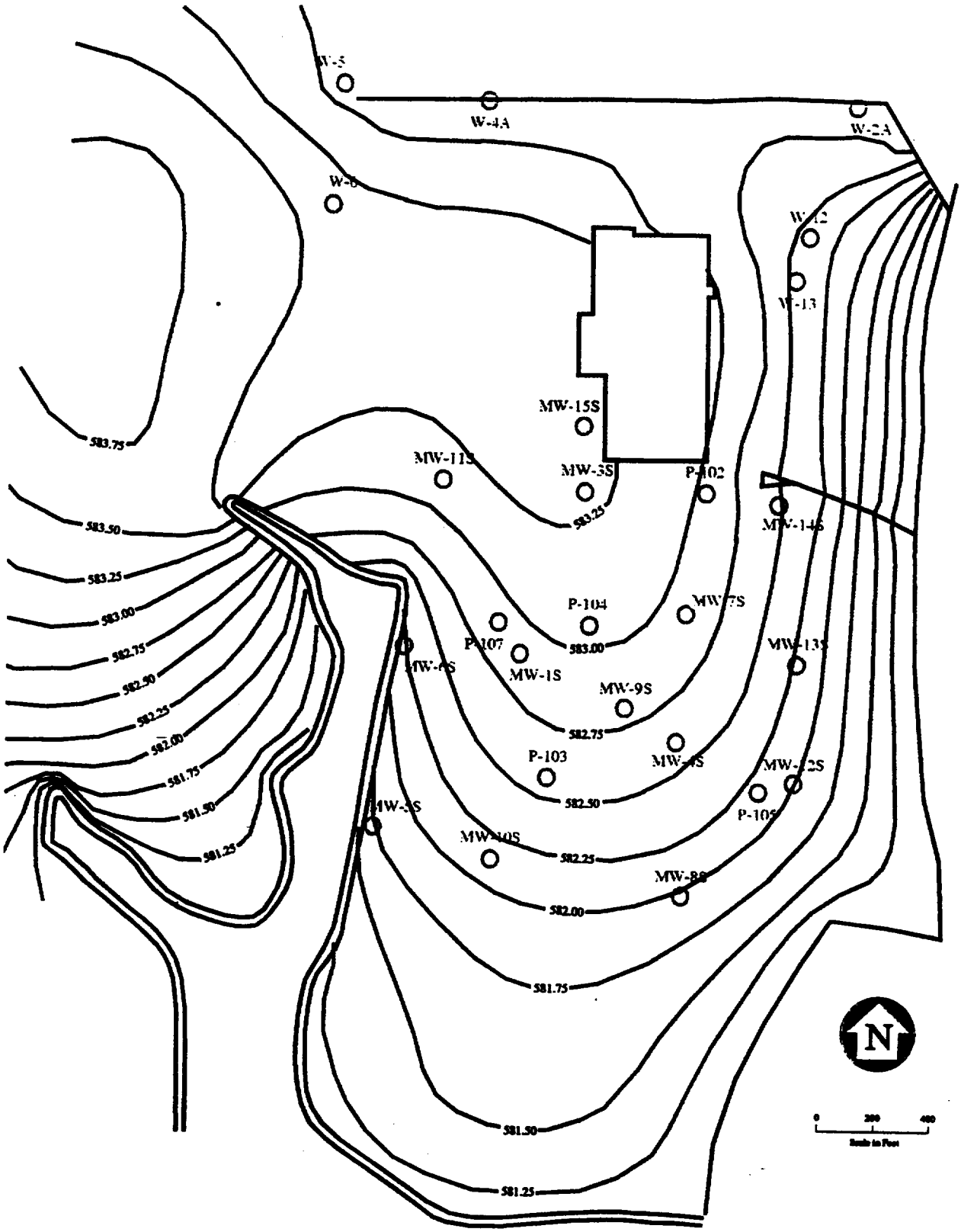
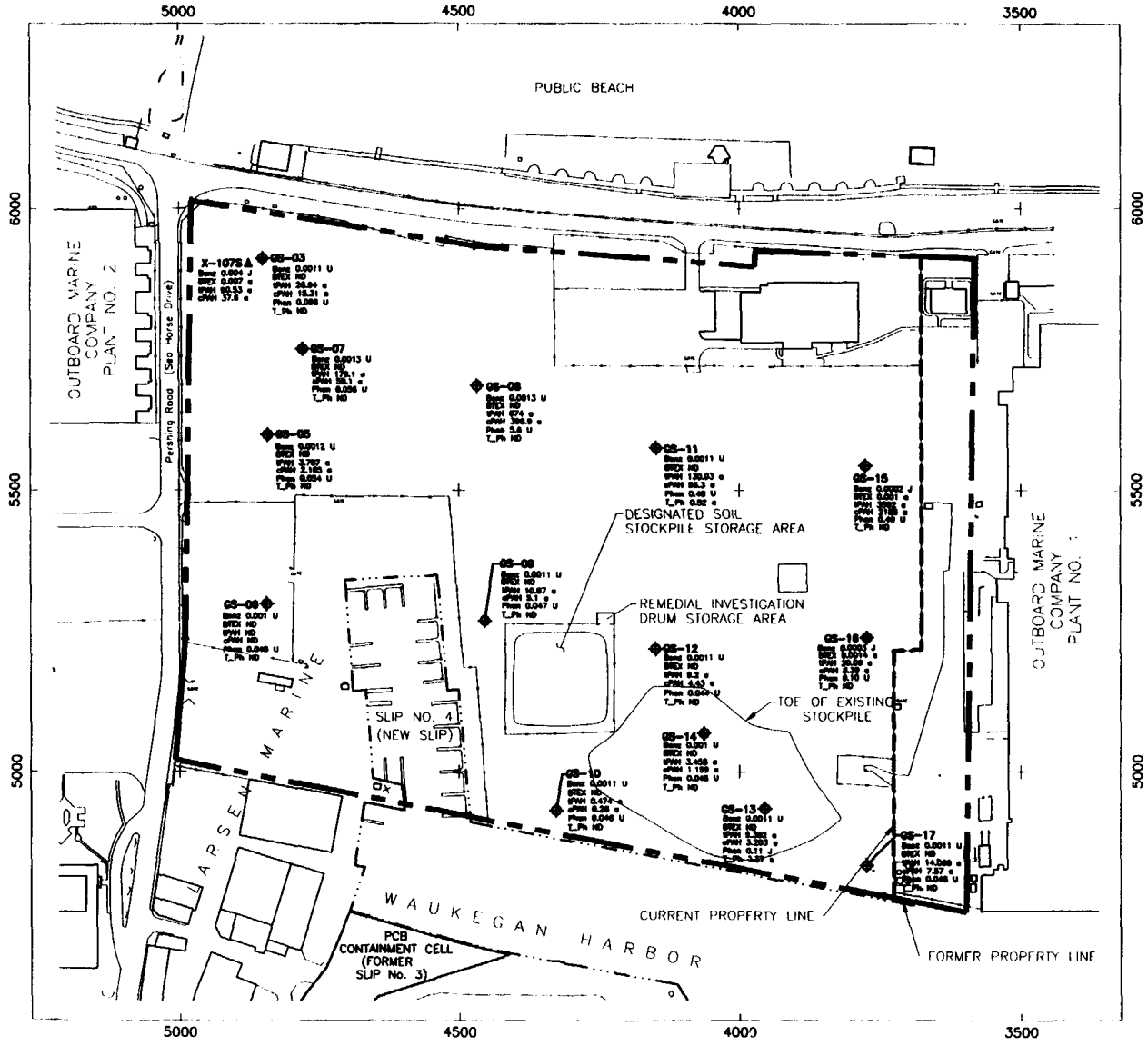


Figure 5.2-3

CONTOURS OF SIMULATED PIEZOMETRIC HEAD FOR GROUNDWATER CONDITIONS PRIOR TO CONSTRUCTION OF SLIP NO. 1 AND AFTER PRODUCTION ACTIVITY



0 200
SCALE IN FEET

◆ GS-16 Ground Surface Soil Sample Location

▲ X-105 Illinois Environmental Protection Agency Soil Sample Location

NOTES:

Concentrations in mg/kg.

See Analytical Data Tables For Explanation of Data Qualifiers.

Benz – Benzene

BTEX – Sum of Benzene, Toluene, Ethyl Benzene, and Xylenes

tPAH – Sum of Total PAHs

cPAH – Sum of Total Carcinogenic PAHs

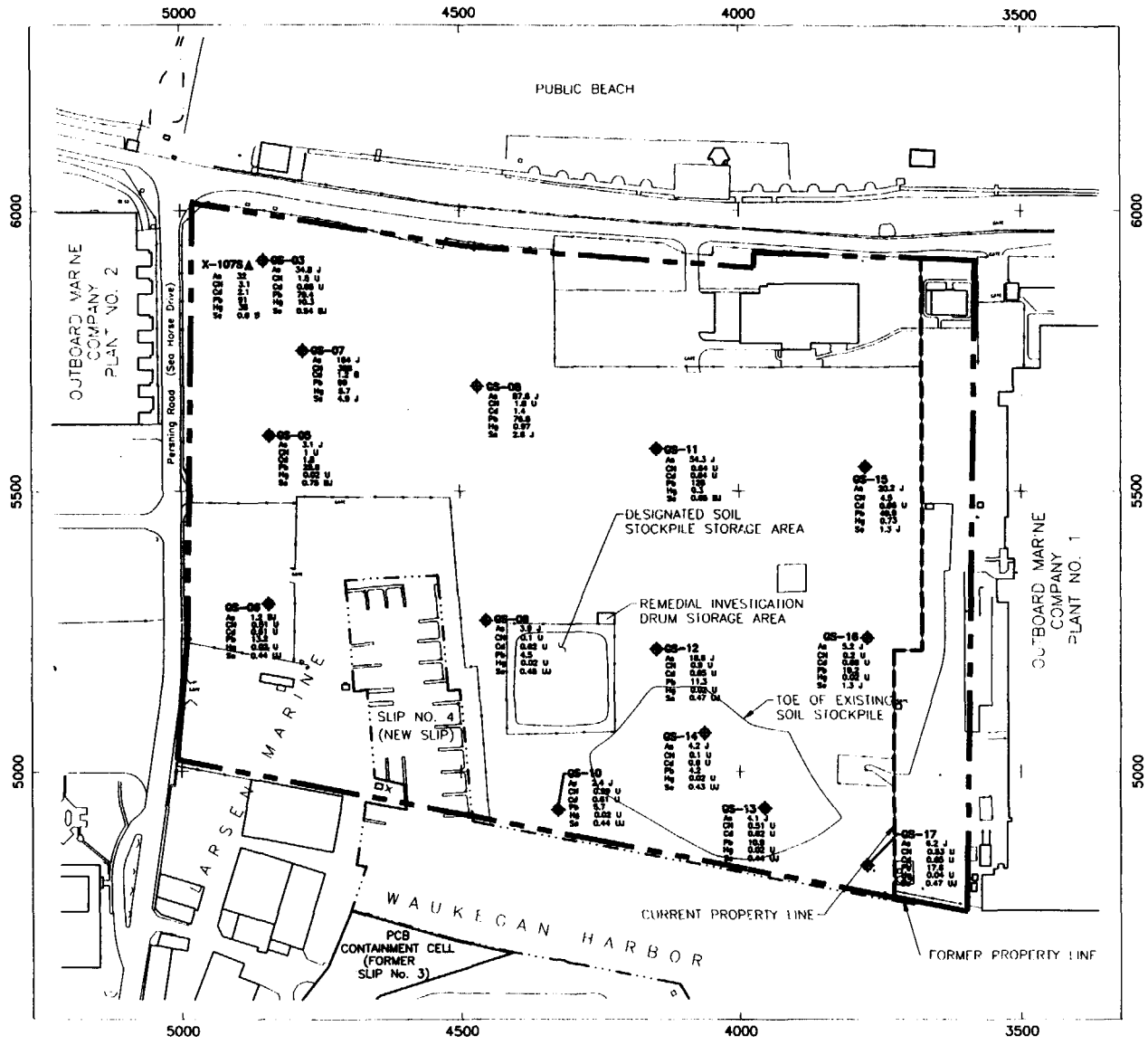
Phen – Phenol

T_Ph – Sum of Total Phenolic Compounds

ND – Not Detected

Figure 7.4–1
DISTRIBUTION OF VOLATILE AND SEMIVOLATILE ORGANIC COMPOUNDS IN GROUND SURFACE SOILS
Waukegan Manufactured Gas & Coke Plant

RJW C:\PROJECTS\1349003\WAUK\WCP-VOC 200.00 11/04/1994 15:48:35



0 200
SCALE IN FEET

◆ GS-16 Ground Surface Soil Sample Location

▲ X-105 Illinois Environmental Protection Agency Soil Sample Location

NOTES:

Concentrations in mg/kg.

See Analytical Data Tables For Explanation of Data Qualifiers.

As – Arsenic

CN – Cyanide

Cd – Cadmium

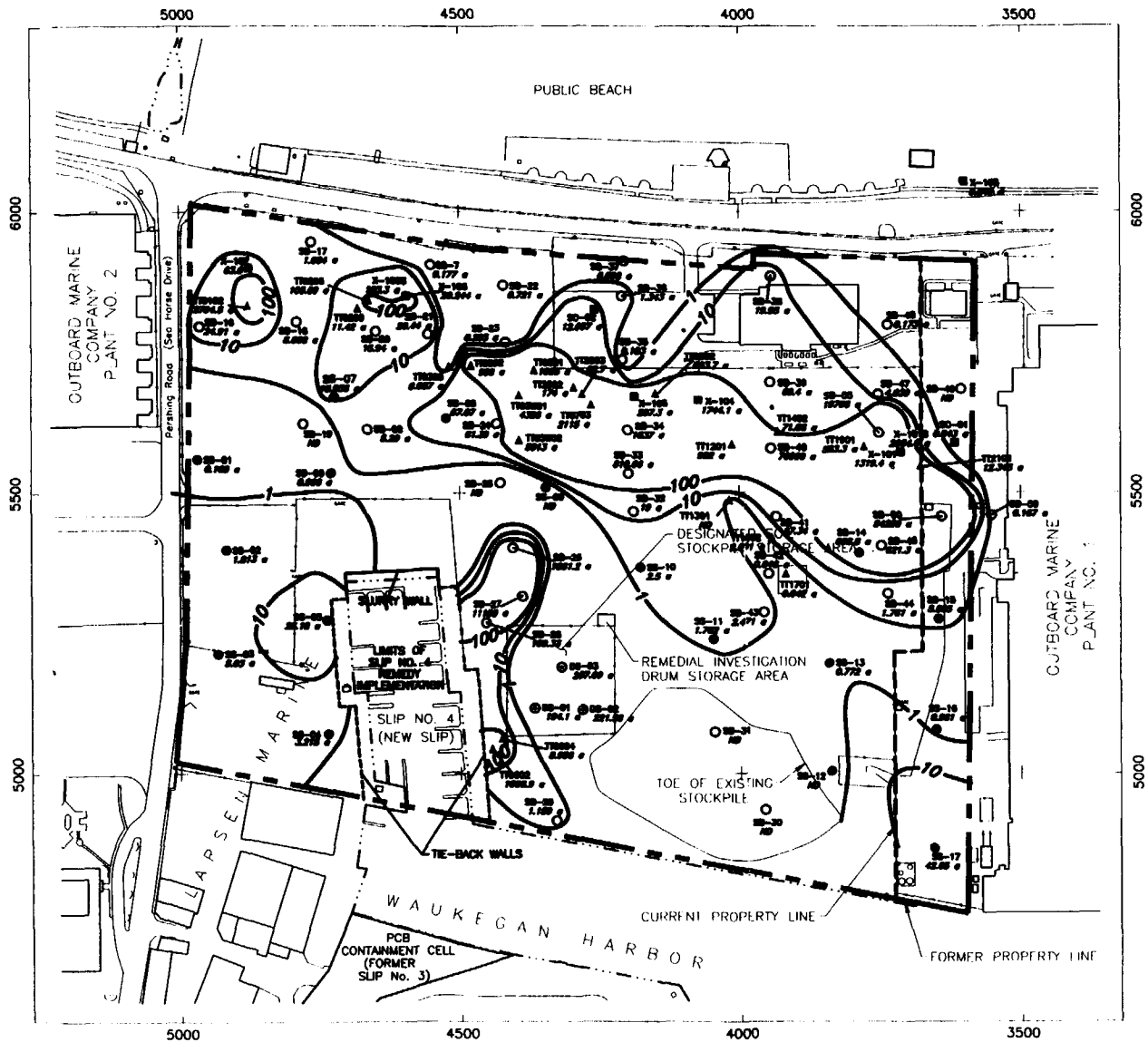
Pb – Lead

Hg – Mercury

Se – Selenium

Figure 7.4–2
DISTRIBUTION OF INORGANIC COMPOUNDS IN GROUND SURFACE SOILS
Waukegan Manufactured Gas & Coke Plant

RJW C:\PROJECTS\1349003\WAUK\WCP-HVOC 200.00 11/04/1994 15:48:22



0 200
SCALE IN FEET

SB-01	Designated Soil Stockpile Sample Location.
X-106	Illinois Environmental Protection Agency Soil Sample Location
SB-07	Surficial Soil Sample Location
SB-01	Surficial Soil Sample Location
TT0804	Test Trench Sample Location
SB-33	Soil Boring Location
SB-109	Canonie Soil Boring
2.5	Total PAH Concentration (mg/kg)
ND	Not Detected
—10—	Total PAH Concentrations In Soil (Contours Are Approximate)

NOTE:

See Analytical Data Tables For Explanation Of Data Qualifiers.

Soil Stockpile Concentrations Are Located At Depths Below The Base Of The Soil Stockpile.

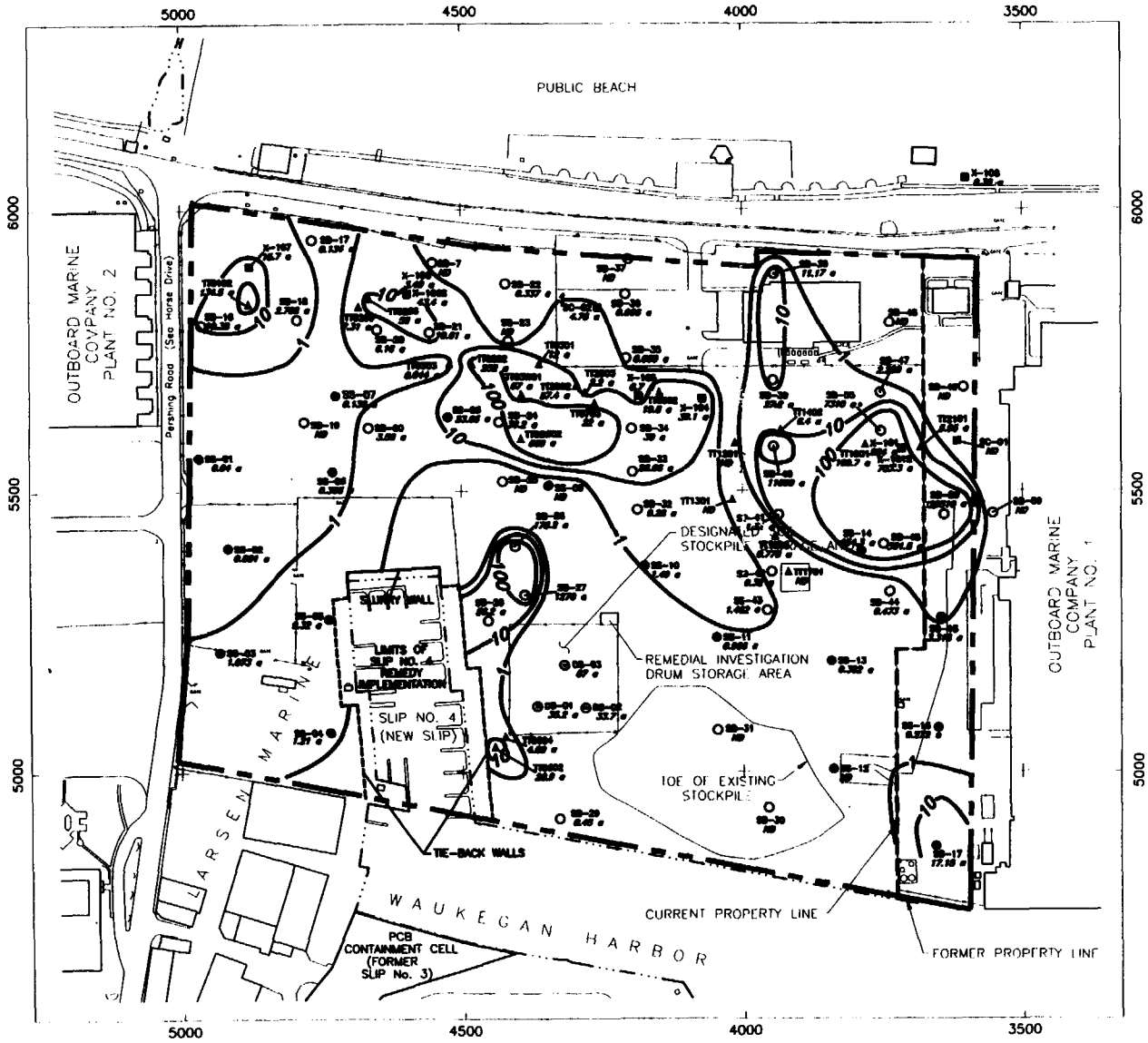
Designated Soil Stockpile Concentrations Are From Within The Containment Cell And Are Excluded From Contouring.

Sample Matrices And Concentrations Of Samples >1000ppm TPAH

SAMPLE	TPAH CONCENTRATION	MATRIX
TT0102	2794.5 a	Visibly Contaminated Sand
TT03W01	4326 a	Visibly Contaminated Industrial Pond Deposit
TT03W02	5013 a	Visibly Contaminated Sand
TT0802	1008.9 a	Visibly Contaminated Soil
TT0703	2115 a	Visibly Contaminated Soil
X-101	1319.4 a	Not Known
X-1015	2054.6 a	Not Known
X-104	1744.1 a	Not Known
SB-26	1861.2 a	Coal And Coke Fines
SB-27	11,150 a	Sand
SB-34	1637 a	Visibly Contaminated Sand With Coal Fines
SB-40	78,000 a	Visibly Contaminated Soil
SB-50	54,250 a	Visibly Contaminated Soil
SB-55	19,766 a	Visibly Contaminated Soil

Figure 7.6-1
DISTRIBUTION OF TOTAL PAH CONCENTRATIONS IN VADOSE ZONE SOILS DEPTH 0.5'-4.5'
Waukegan Manufactured Gas & Coke Plant

RJW C:\PROJECTS\1349003\WAUK\WCP-TP2 200.00 11/04/1994 15:50:13



0 200
SCALE IN FEET

- Designated Soil Stockpile Sample Location.
- Illinois Environmental Protection Agency Soil Sample Location
- Sand Aquifer Surficial Soil Sample Location
- Sand Aquifer Surficial Soil Sample Location
- Test Trench Sample Location
- Soil Boring Location
- Canonie Soil Boring
- 301.5 Carcinogenic PAH Concentration (mg/kg)
- ND Not Detected
- —10— Carcinogenic PAH Concentrations In Soil (Contours Are Approximate)

NOTE:

See Analytical Data Tables For Explanation Of Data Qualifiers.

Soil Stockpile Concentrations Are Located At Depths Below The Base Of The Soil Stockpile.

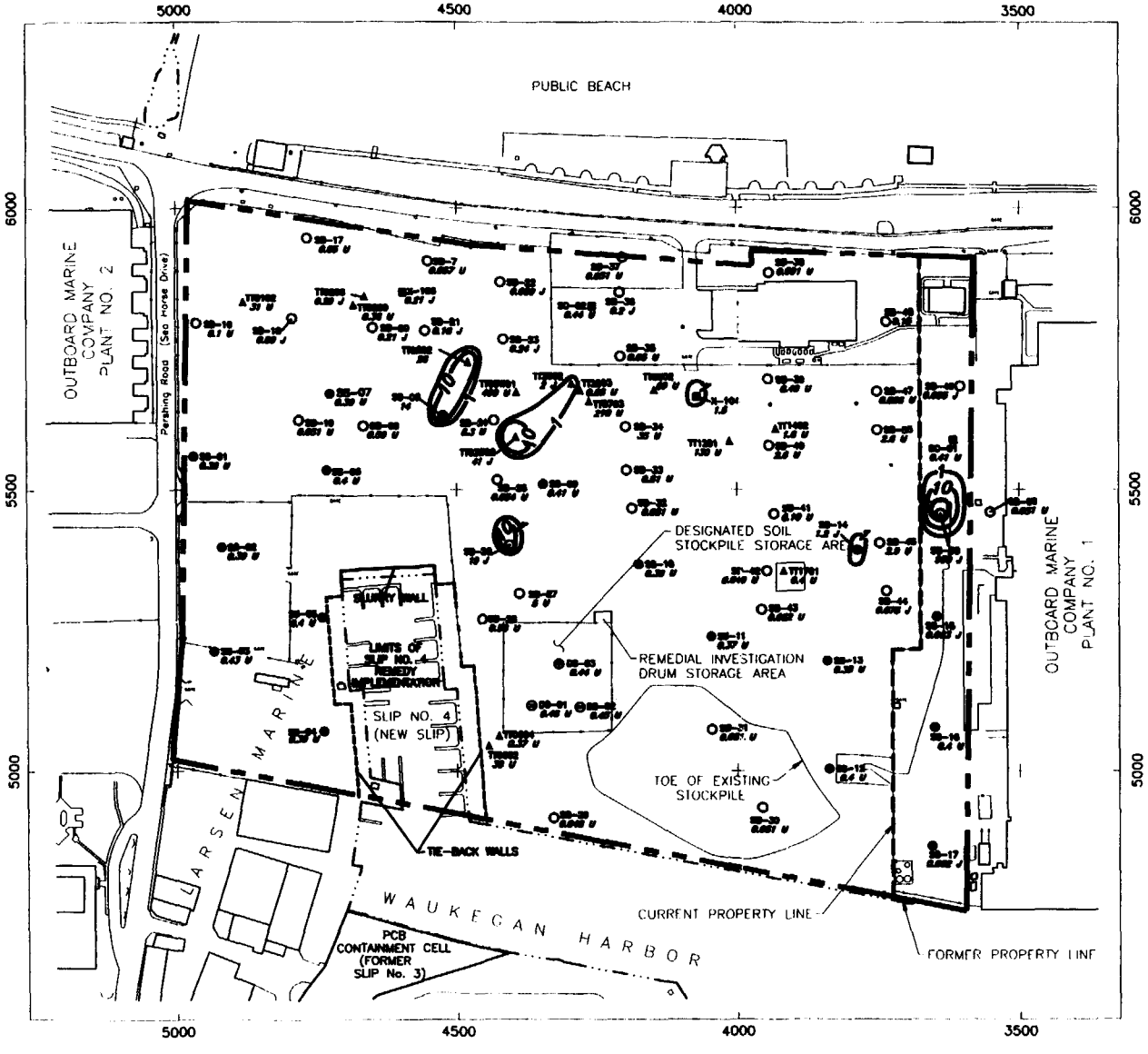
Designated Soil Stockpile Concentrations Are From Within The Containment Cell And Are Excluded From Contouring.

Sample Matrices And Concentrations Of Samples >100ppm CPAH

SAMPLE	CPAH CONCENTRATION	MATRIX
TT0102	134.5 a	Visibly Contaminated Sand
TT0302	252 a	Industrial Pond Deposit
TT03W02	669 a	Visibly Contaminated Sand
TT1801	109.7 a	Visibly Contaminated Soil
X-101	584 a	Not Known
X-101S	703.3 a	Not Known
SS-14	154.3 a	Soil With Coal Fines
SB-26	178.2 a	Coal And Coke Fines
SB-27	1270 a	Sand
SB-40	11,600 a	Visibly Contaminated Sand With Coal Fines
SB-45	301.5 a	Soil With Coal Fines And Fragments
SB-50	10,510 a	Visibly Contaminated Soil
SB-55	7310 a	Visibly Contaminated Soil

Figure 7.6-2
DISTRIBUTION OF CARCINOGENIC PAH CONCENTRATIONS IN VADOSE ZONE SOILS DEPTH 0.5'-4.5'
Waukegan Manufactured Gas & Coke Plant

RJW C:\PROJECTS\134900\WAUK\WCP-CP2 200.00 11/04/1994 15:52:20



0 200
SCALE IN FEET

	Designated Soil Stockpile Sample Location.
	Illinois Environmental Protection Agency Soil Sample Location
	Surficial Soil Sample Location
	Surficial Soil Sample Location
	Test Trench Sample Location
	Soil Boring Location
210	Phenol Concentration (mg/kg)
—10—	Phenol Concentrations In Soil (Contours Are Approximate)

NOTE:

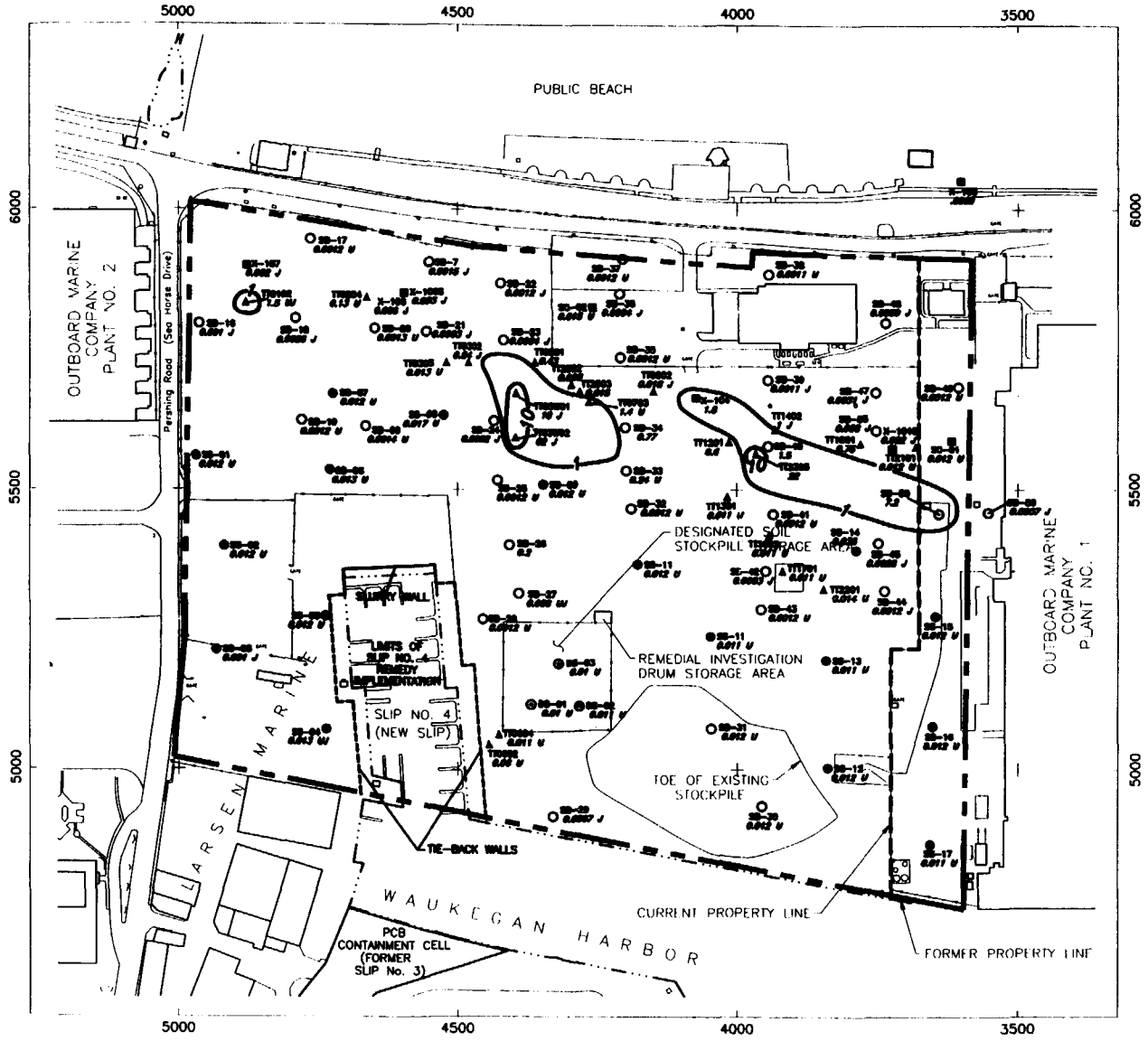
See Analytical Data Tables For Explanation Of Data Qualifiers.

Soil Stockpile Concentrations Are Located At Depths Below The Base Of The Soil Stockpile.

Designated Soil Stockpile Concentrations Are From Within The Containment Cell And Are Excluded From Contouring.

Figure 7.6–3
DISTRIBUTION OF PHENOL CONCENTRATIONS IN VADOSE ZONE SOILS DEPTH 0.5'–4.5'
Waukegan Manufactured Gas & Coke Plant

RJW C:\PROJECTS\1349003\WAUK\WCP-PL2 200.00 11/04/1994 15:54:04



0 200
SCALE IN FEET

	Designated Soil Stockpile Sample Location.
	Illinois Environmental Protection Agency Soil Sample Location
	Surficial Soil Sample Location
	Surficial Soil Sample Location
	Test Trench Sample Location
	Soil Boring Location
1.5	Benzene Concentration (mg/kg)
ND	Not Detected
—10—	Benzene Concentrations In Soil (Contours Are Approximate)

NOTE:

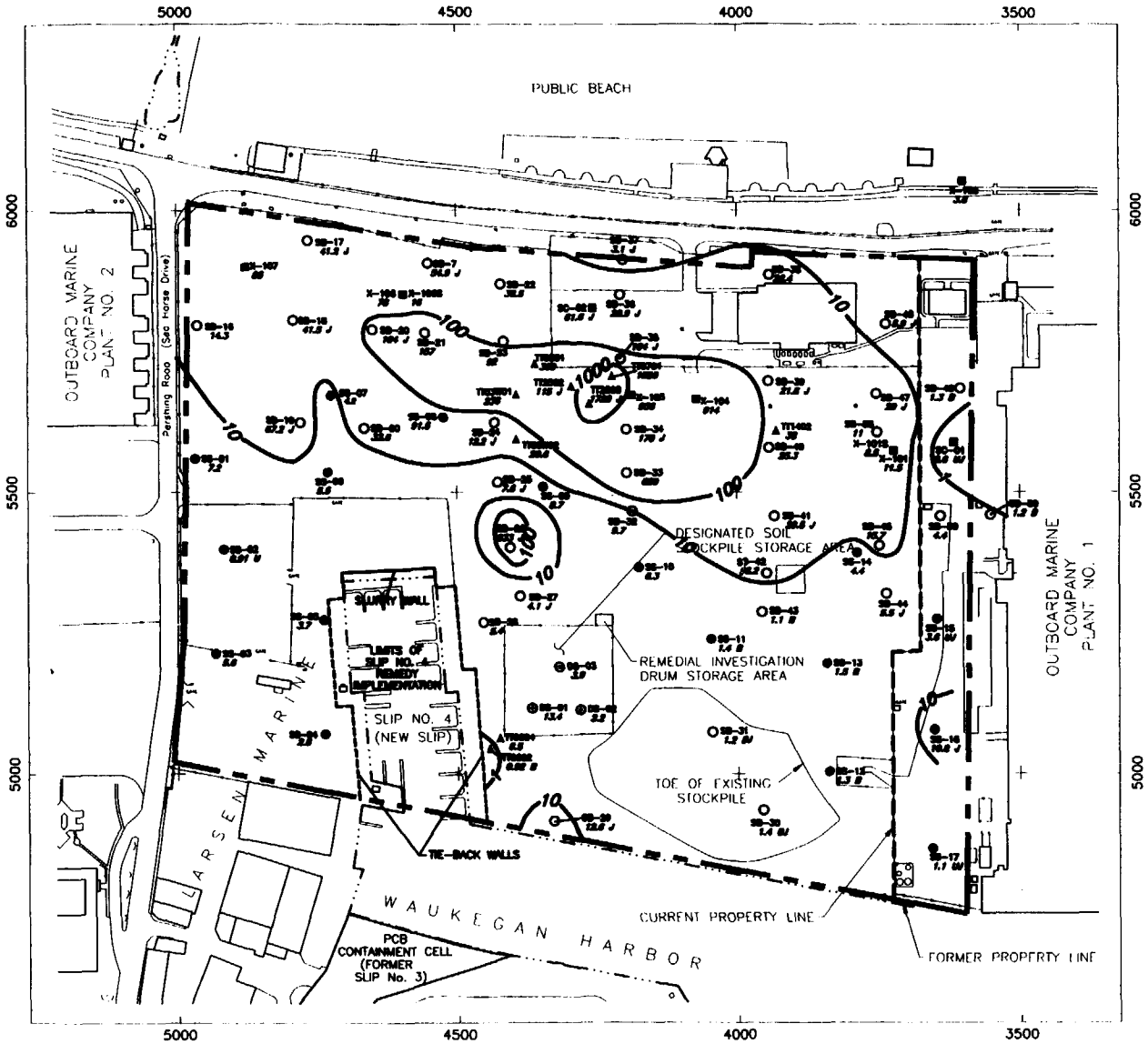
See Analytical Data Tables For Explanation Of Data Qualifiers.

Soil Stockpile Concentrations Are Located At Depths Below The Base Of The Soil Stockpile.

Designated Soil Stockpile Concentrations Are From Within The Containment Cell And Are Excluded From Contouring.

Figure 7.6–4
DISTRIBUTION OF BENZENE CONCENTRATIONS IN VADOSE ZONE SOILS DEPTH 0.5'–4.5'
Waukegan Manufactured Gas & Coke Plant

RJW C:\PROJECTS\1349003\WAUK\WCP-BZ2 200.00 11/04/1994 15:58:02



0 200
SCALE IN FEET

⊕DS-01	Designated Soil Stockpile Sample Location.
■X-108	Illinois Environmental Protection Agency Soil Sample Location
●SB-07	Surficial Soil Sample Location
■SC-01	Surficial Soil Sample Location
▲TT0004	Test Trench Sample Location
○SB-33	Soil Boring Location
29.5	Arsenic Concentration (mg/kg)
ND	Not Detected
—10—	Arsenic Concentrations In Soil (Contours Are Approximate)

NOTE:

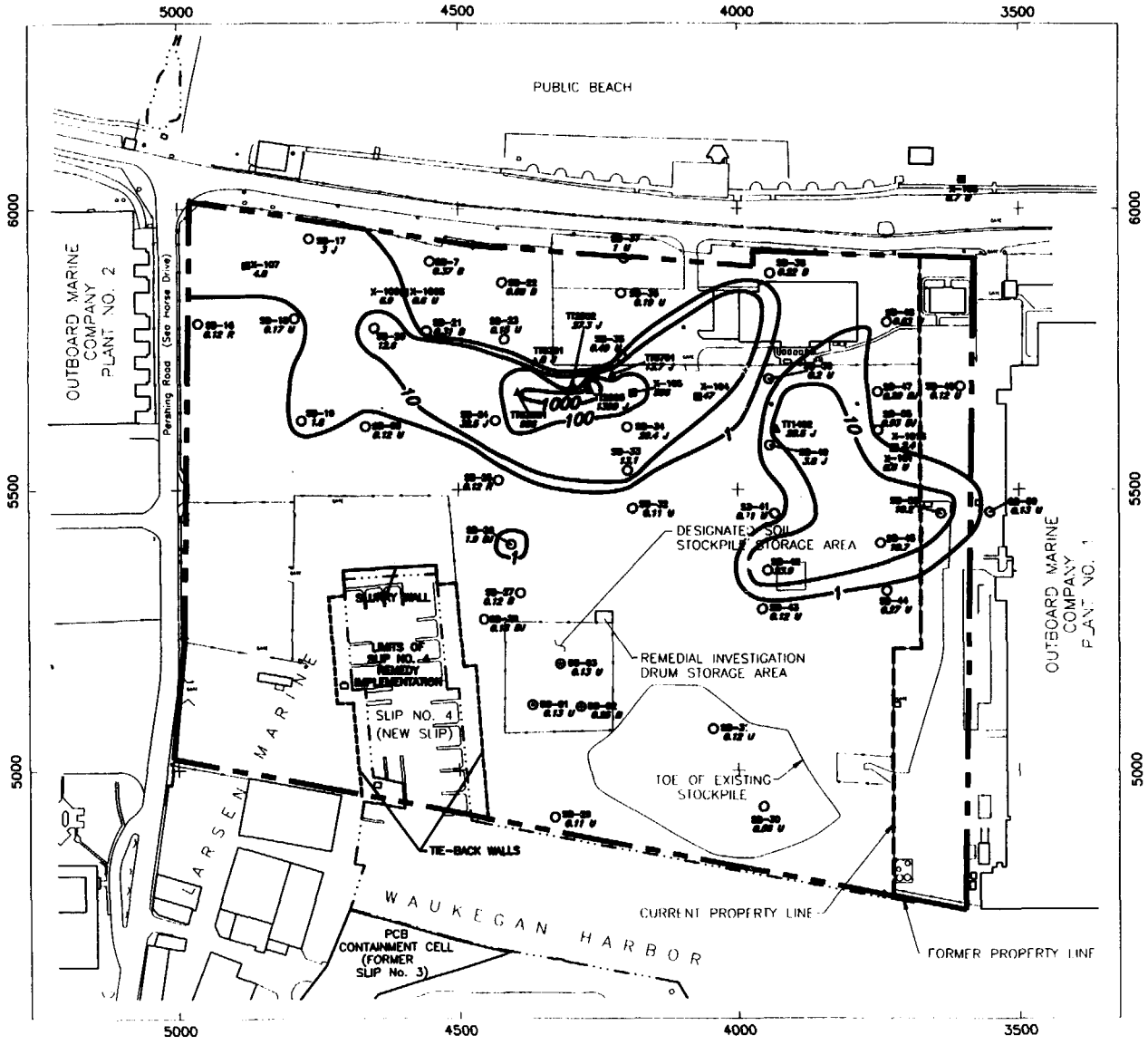
See Analytical Data Tables For Explanation Of Data Qualifiers.

Soil Stockpile Concentrations Are Located At Depths Below The Base Of The Soil Stockpile.

Designated Soil Stockpile Concentrations Are From Within The Containment Cell And Are Excluded From Contouring.

Figure 7.6-5
DISTRIBUTION OF ARSENIC CONCENTRATIONS IN VADOSE ZONE SOILS DEPTH 0.5'-4.5'
Waukegan Manufactured Gas & Coke Plant

RJW C:\PROJECTS\1349003\WAUK\WCP-AS2 200.00 11/04/1994 16:06:54



0 200
SCALE IN FEET

- Designated Soil Stockpile Sample Location.
- Illinois Environmental Protection Agency Soil Sample Location
- Test Trench Sample Location
- Soil Boring Location
- 47 — Cyanide Concentration (mg/kg)
- ND — Not Detected
- —10— Cyanide Concentrations In Soil (Contours Are Approximate)

NOTE:

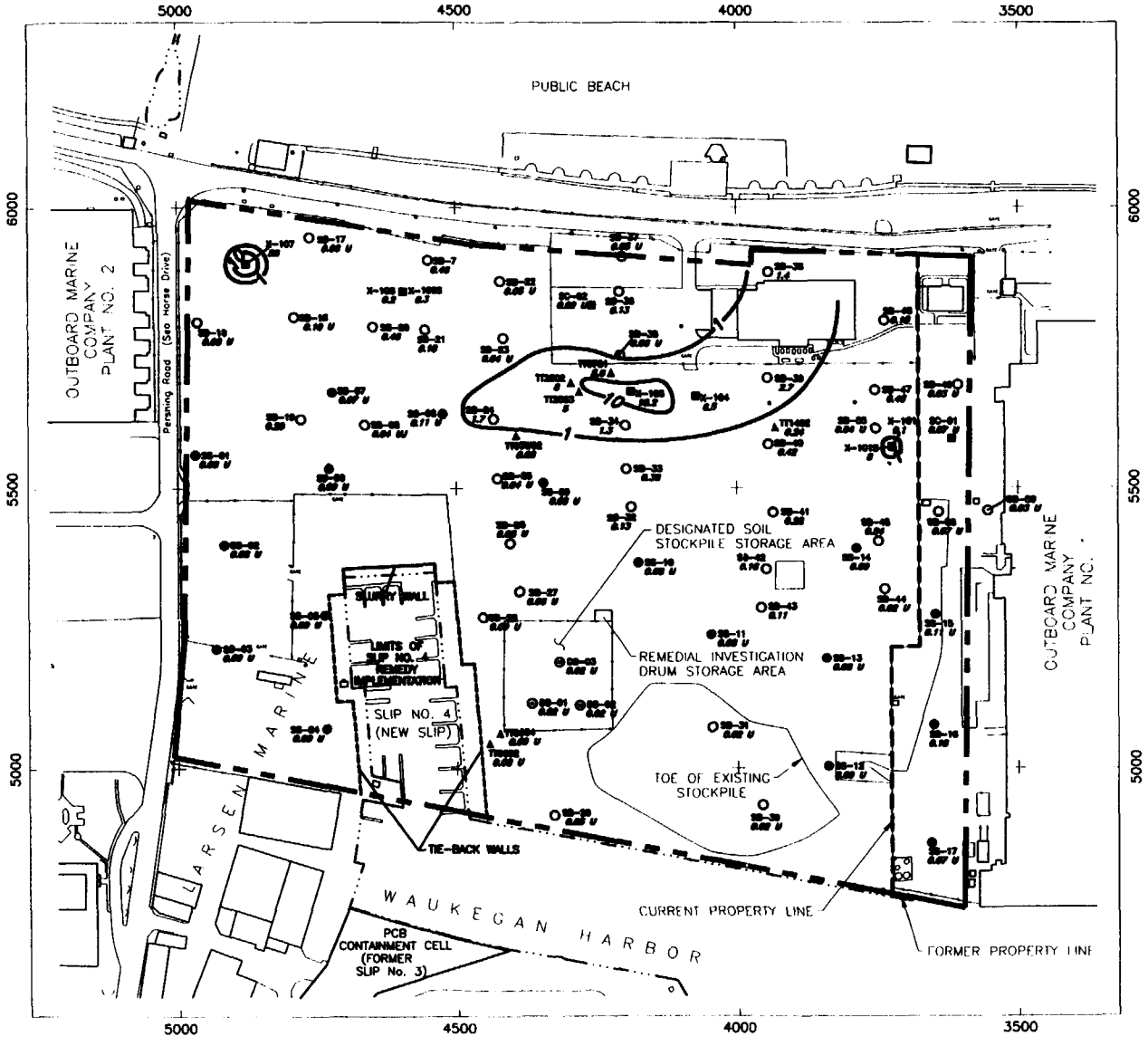
See Analytical Data Tables For Explanation Of Data Qualifiers.

Soil Stockpile Concentrations Are Located At Depths Below The Base Of The Soil Stockpile.

Designated Soil Stockpile Concentrations Are From Within The Containment Cell And Are Excluded From Contouring.

Figure 7.6-6
DISTRIBUTION OF CYANIDE CONCENTRATIONS IN VADOSE ZONE SOILS DEPTH 0.5'-4.5'
Waukegan Manufactured Gas & Coke Plant

RJW C:\PROJECTS\1349003\WAUK\WCP-CH2 200.00 11/04/1994 16:08:31



0 200
SCALE IN FEET

⊙SS-01	Designated Soil Stockpile Sample Location.
■X-106	Illinois Environmental Protection Agency Soil Sample Location
●SS-07	Surficial Soil Sample Location
■SC-01	Surficial Soil Sample Location
▲TT8004	Test Trench Sample Location
○SB-33	Soil Boring Location
2.7	Mercury Concentration (mg/kg)
ND	Not Detected
—10—	Mercury Concentrations In Soil (Contours Are Approximate)

NOTE:

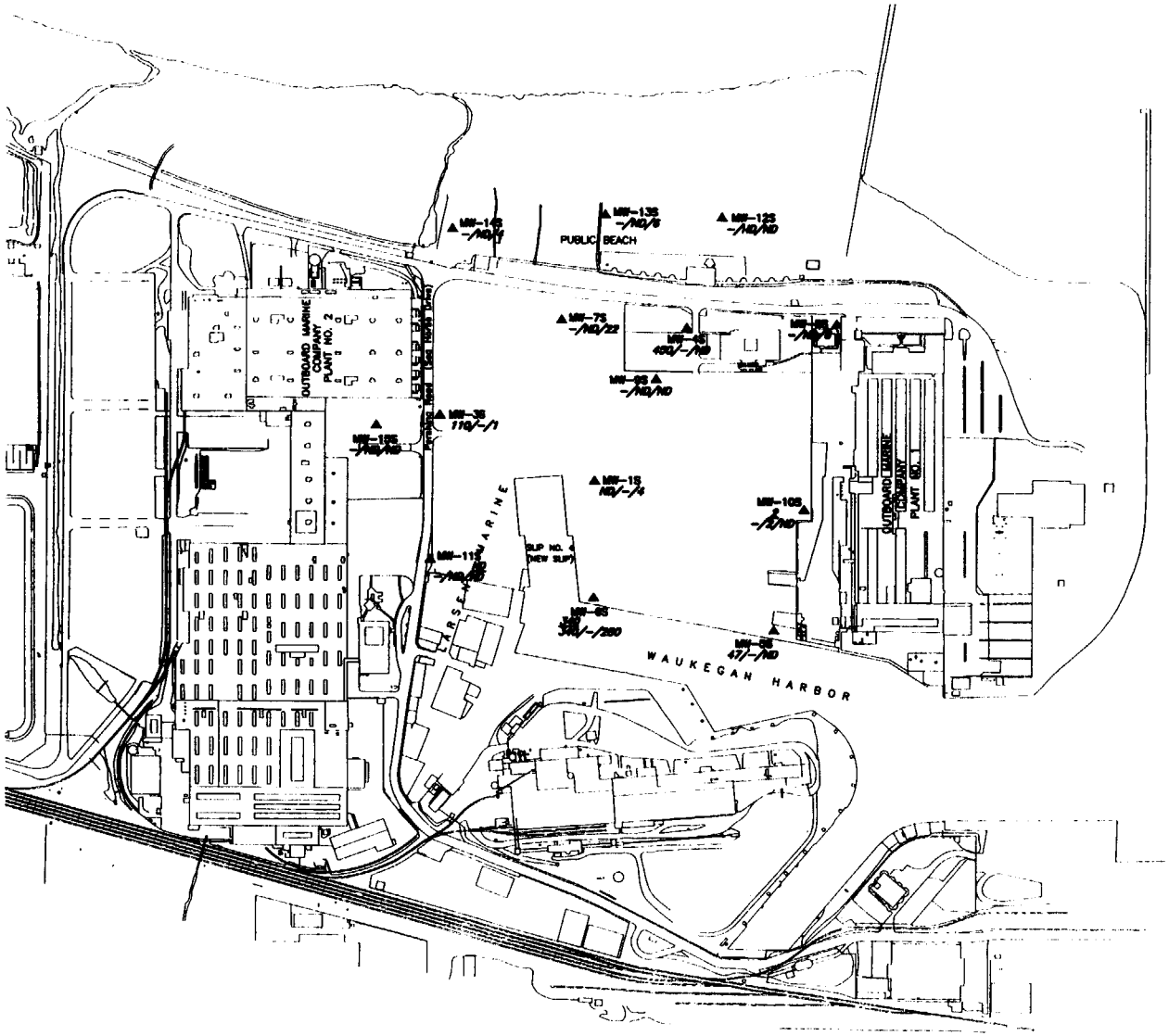
See Analytical Data Tables For Explanation Of Data Qualifiers.

Soil Stockpile Concentrations Are Located At Depths Below The Base Of The Soil Stockpile.

Designated Soil Stockpile Concentrations Are From Within The Containment Cell And Are Excluded From Contouring.

Figure 7.6-7
DISTRIBUTION OF MERCURY CONCENTRATIONS IN VADOSE ZONE SOILS DEPTH 0.5'-4.5'
Waukegan Manufactured Gas & Coke Plant

RJW C:\PROJECTS\1349003\WAUK\WCP-HG2 200.00 11/04/1994 16:10:04



0 400
SCALE IN FEET

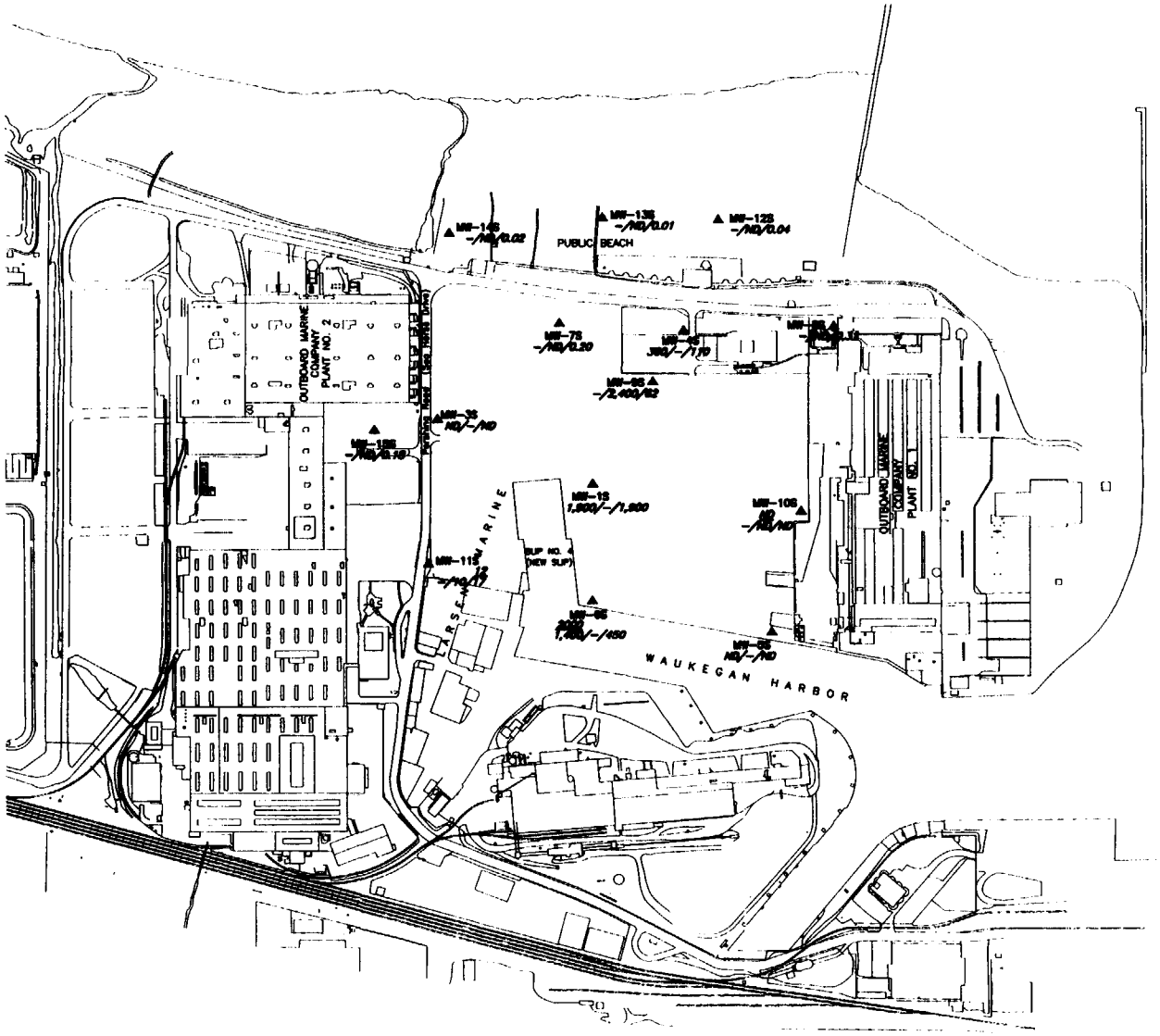
▲ MW-7S — Sand Aquifer Water Table Monitoring Well

340 / 340/-/260 — Phenol Concentration (μg/L) April 1992/Sept.–Oct. 1993/Nov.–Dec. 1993 (With Duplicate Results, Where Applicable)

ND — Not Detected

Figure 7.7–1
PHENOL CONCENTRATIONS IN GROUNDWATER
SAND AQUIFER WATER TABLE MONITORING WELLS
(SHALLOW PORTION OF THE SAND AQUIFER)
Waukegan Manufactured Gas & Coke Plant

Randy Wilson C:\PROJECTS\1348003\WAUK\WCP-PHS 400.00 06/22/1994 07:51:37

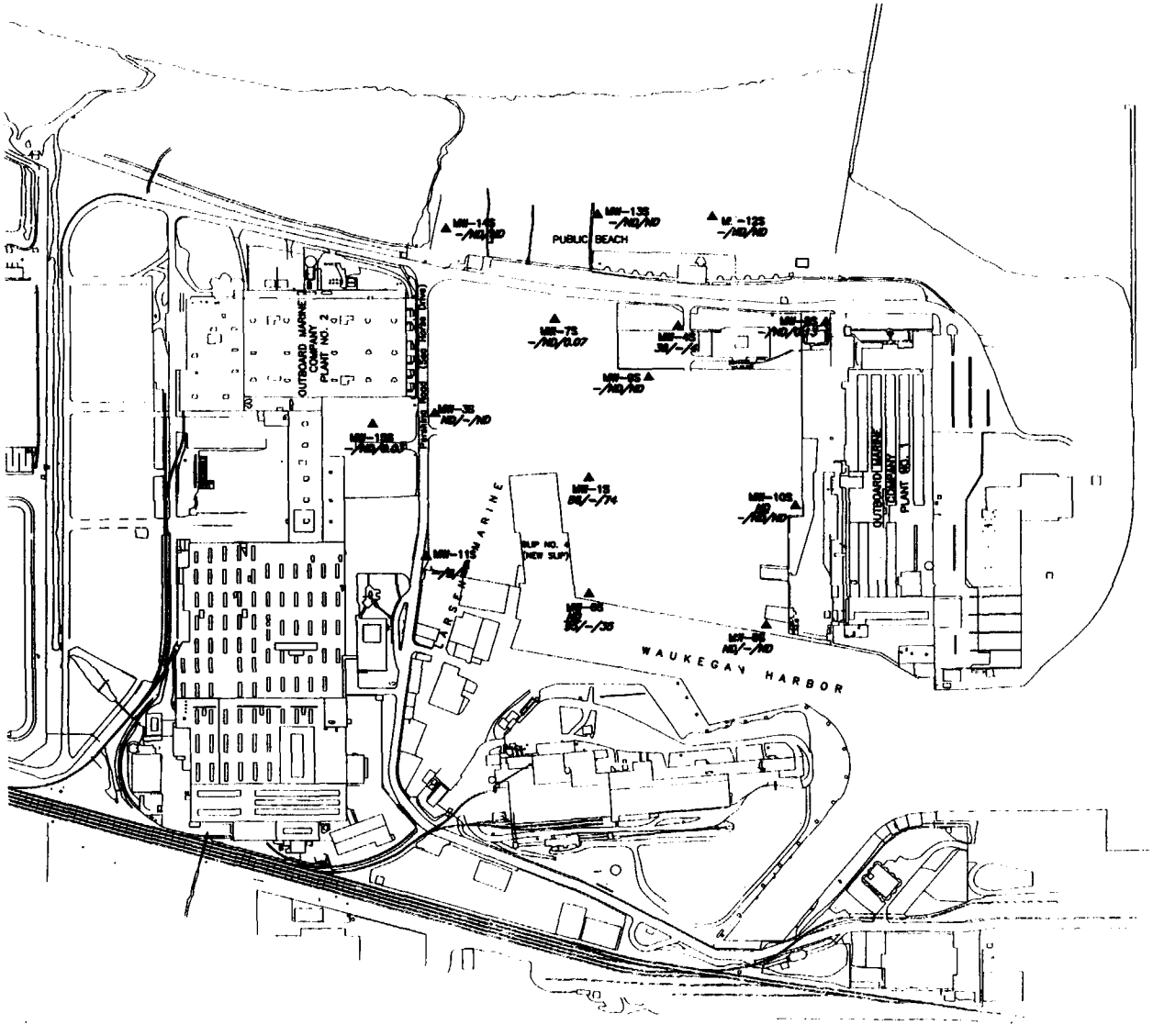


0 400
SCALE IN FEET

▲MW-7S	Sand Aquifer Water Table Monitoring Well
1,900/-/1,900	Total PAH Concentration (µg/L) April 1992/Sept.–Oct. 1993/Nov.–Dec. 1993 (With Duplicate Results, Where Applicable)
ND	Not Detected

Figure 7.7–2
TOTAL PAH CONCENTRATIONS IN GROUNDWATER
SAND AQUIFER WATER TABLE MONITORING WELLS
(SHALLOW PORTION OF THE SAND AQUIFER)
Waukegan Manufactured Gas & Coke Plant

Randy Wilson C:\PROJECTS\134003\WAUK\WCP-TPAH 400.00 06/22/1994 08:01:25



0 400
SCALE IN FEET

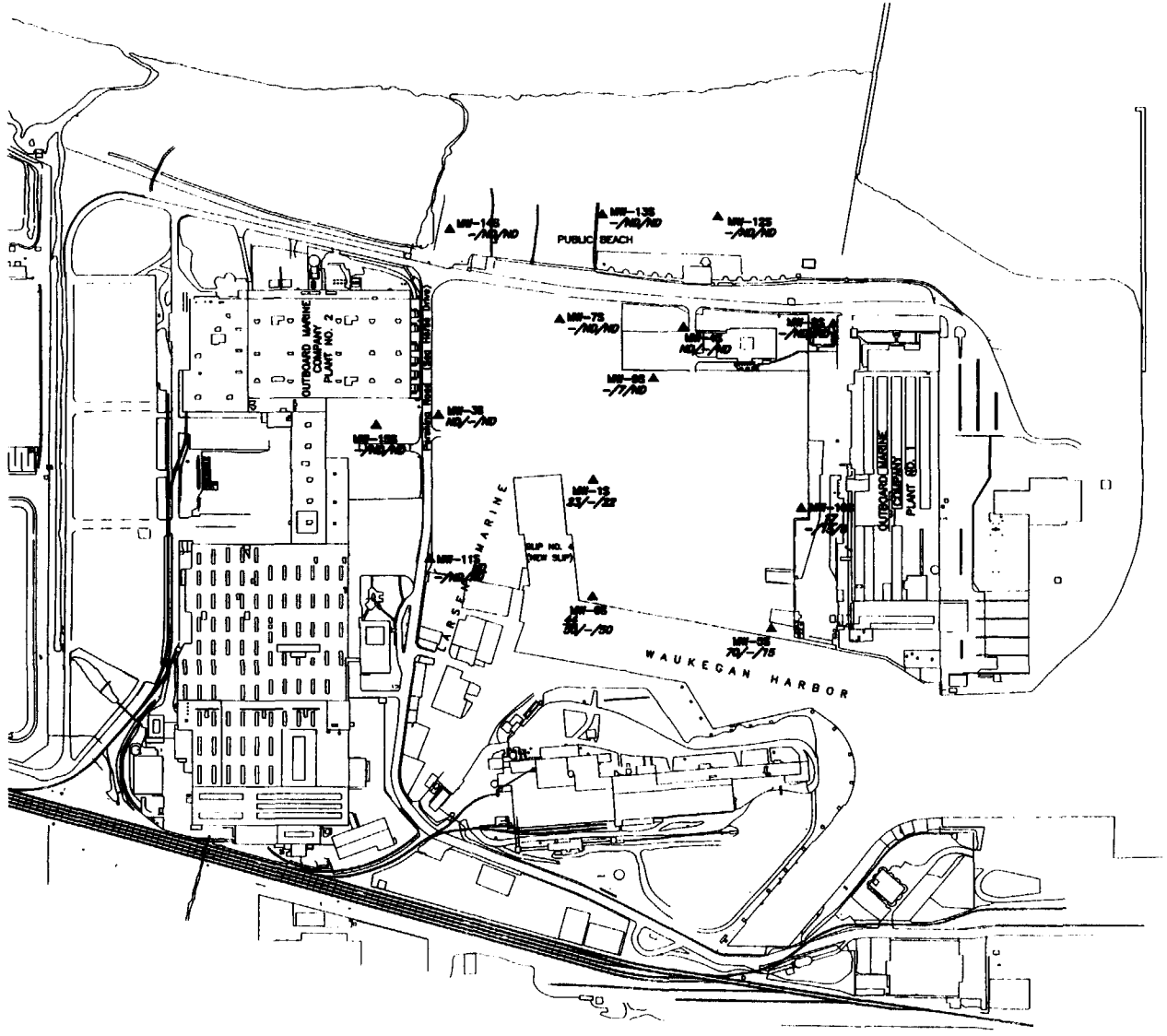
▲ MW-7S Sand Aquifer Water Table Monitoring Well

ND/ND/35 Carcinogenic PAH Concentrations (µg/L) April 1992/Sept.-Oct. 1993/Nov.-Dec. 1993 (With Duplicate Results, Where Applicable)

ND Not Detected

Figure 7.7-3
CARCINOGENIC PAH CONCENTRATIONS
IN GROUNDWATER
SAND AQUIFER WATER TABLE MONITORING WELLS
(SHALLOW PORTION OF THE SAND AQUIFER)
Waukegan Manufactured Gas & Coke Plant

Randy Wilson C:\PROJECTS\1348003\WAUK\WCP-TPHC 400.00 06/22/1994 08:03:45



0 400
SCALE IN FEET

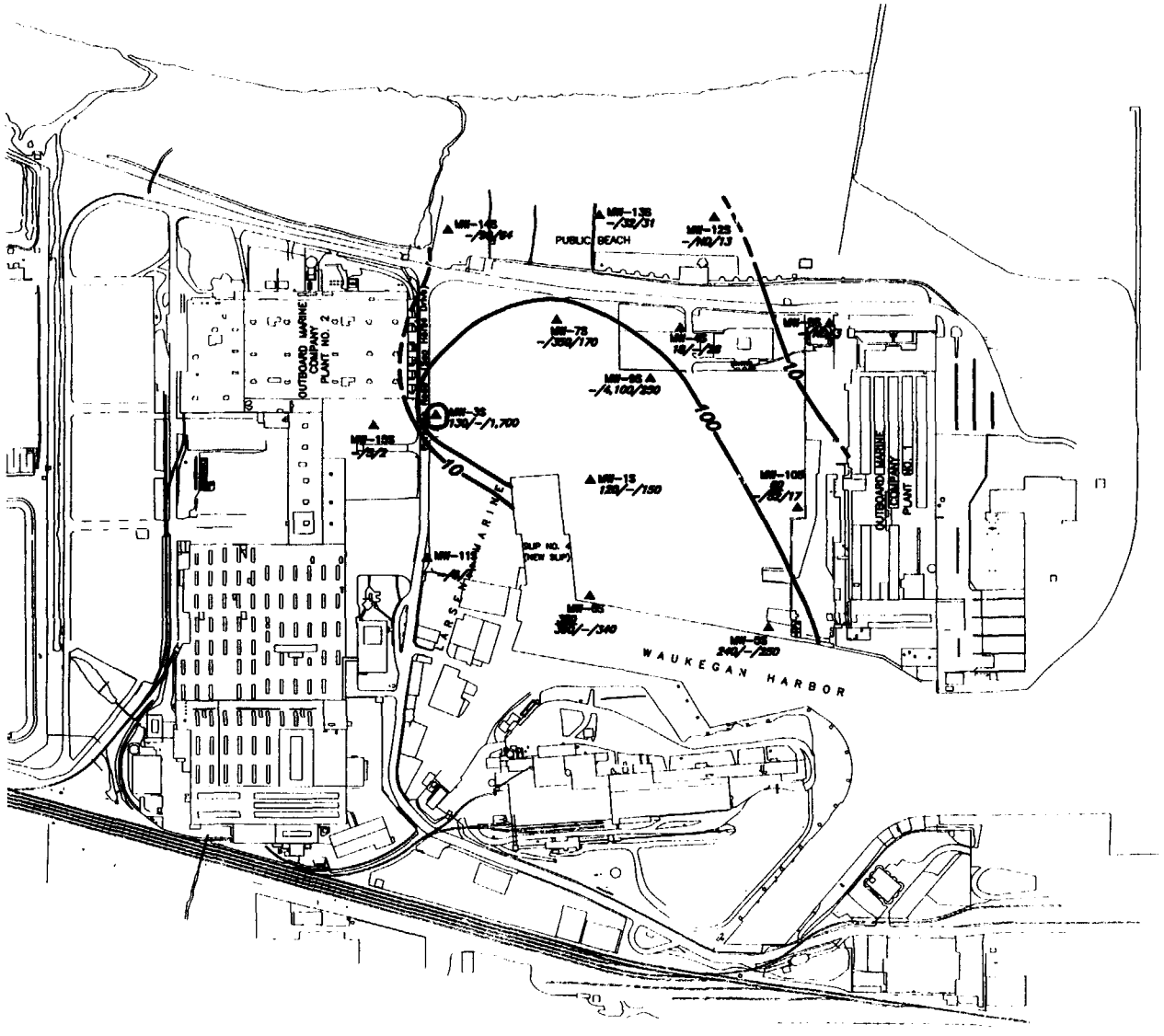
▲ MW-7S — Sand Aquifer Water Table Monitoring Well

23/-/22 — Benzene Concentration (μg/L) April 1992/Sept.–Oct. 1993/Nov.–Dec. 1993 (With Duplicate Results, Where Applicable)

ND — Not Detected

Figure 7.7–4
BENZENE CONCENTRATIONS IN GROUNDWATER
SAND AQUIFER WATER TABLE MONITORING WELLS
(SHALLOW PORTION OF THE SAND AQUIFER)
Waukegan Manufactured Gas & Coke Plant

RJW C:\PROJECTS\1340003\WAUK\WCP-BEN 400.00 11/08/1994 08:24:09



0 400
SCALE IN FEET

▲ MW-75 — Sand Aquifer Water Table Monitoring Well

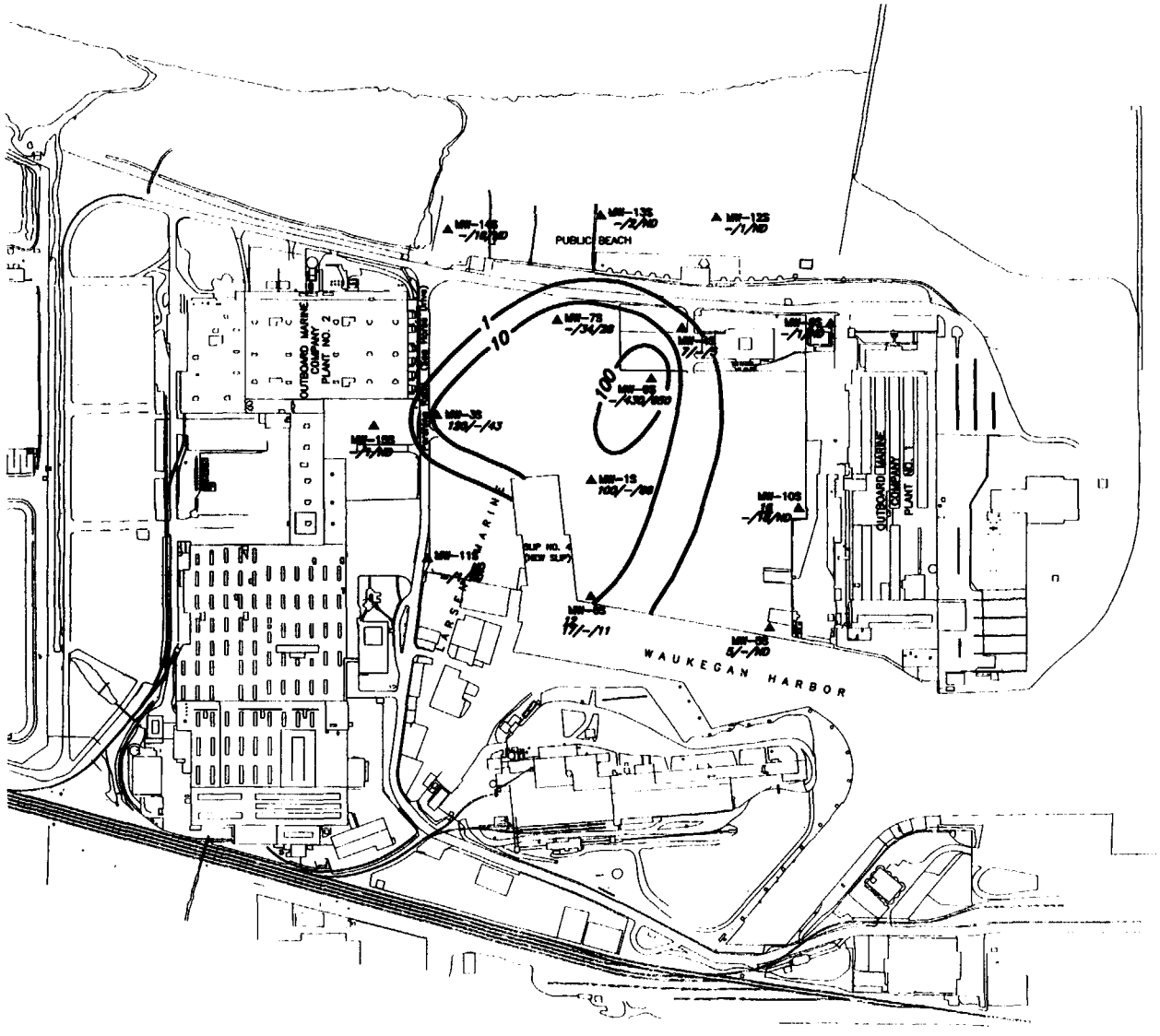
-/2/ND — Arsenic Concentration (µg/L) April 1992/Sept.-Oct. 1993/Nov.-Dec. 1993 (With Duplicate Results, Where Applicable)

ND — Not Detected

—100— Arsenic Concentration Contour December 1993 Data (Dashed Segments Indicate Lack Of Bounding Data)

Figure 7.7-5
ARSENIC CONCENTRATIONS IN GROUNDWATER
SAND AQUIFER WATER TABLE MONITORING WELLS
(SHALLOW PORTION OF THE SAND AQUIFER)
Waukegan Manufactured Gas & Coke Plant

Randy Wilson C:\PROJECTS\1349003\WAUK\WCP-ARS 500.00 08/22/1994 08:08:15

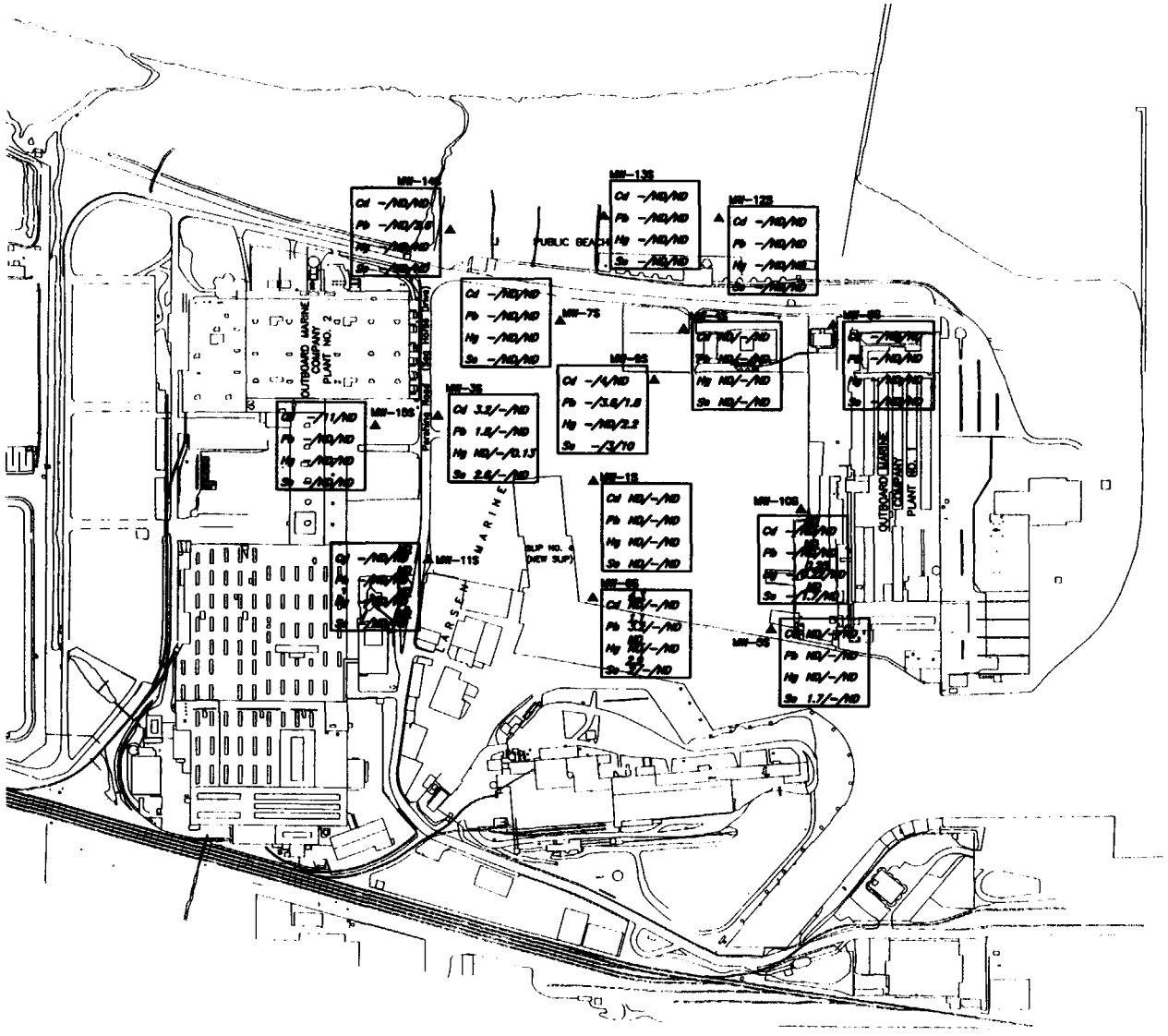


0 400
SCALE IN FEET

● SB-51	Soil Boring With Temporary Well Point Sample
▲ MW-7S	Sand Aquifer Water Table Monitoring Well
103/-/89	Cyanide Concentration (µg/L) April 1992/Sept.-Oct. 1993/Nov.-Dec. 1993 (With Duplicate Results, Where Applicable)
ND	Not Detected
—100—	Cyanide Concentration Contour December 1993 Data (Dashed Segments Indicate Lack Of Bounding Data)

Figure 7.7-6
CYANIDE CONCENTRATIONS IN GROUNDWATER
SAND AQUIFER WATER TABLE MONITORING WELLS
(SHALLOW PORTION OF THE SAND AQUIFER)
Waukegan Manufactured Gas & Coke Plant

Randy Wilson C:\PROJECTS\1349003\WAUK\WCP-CYS 400.00 06/22/1994 08:10:23

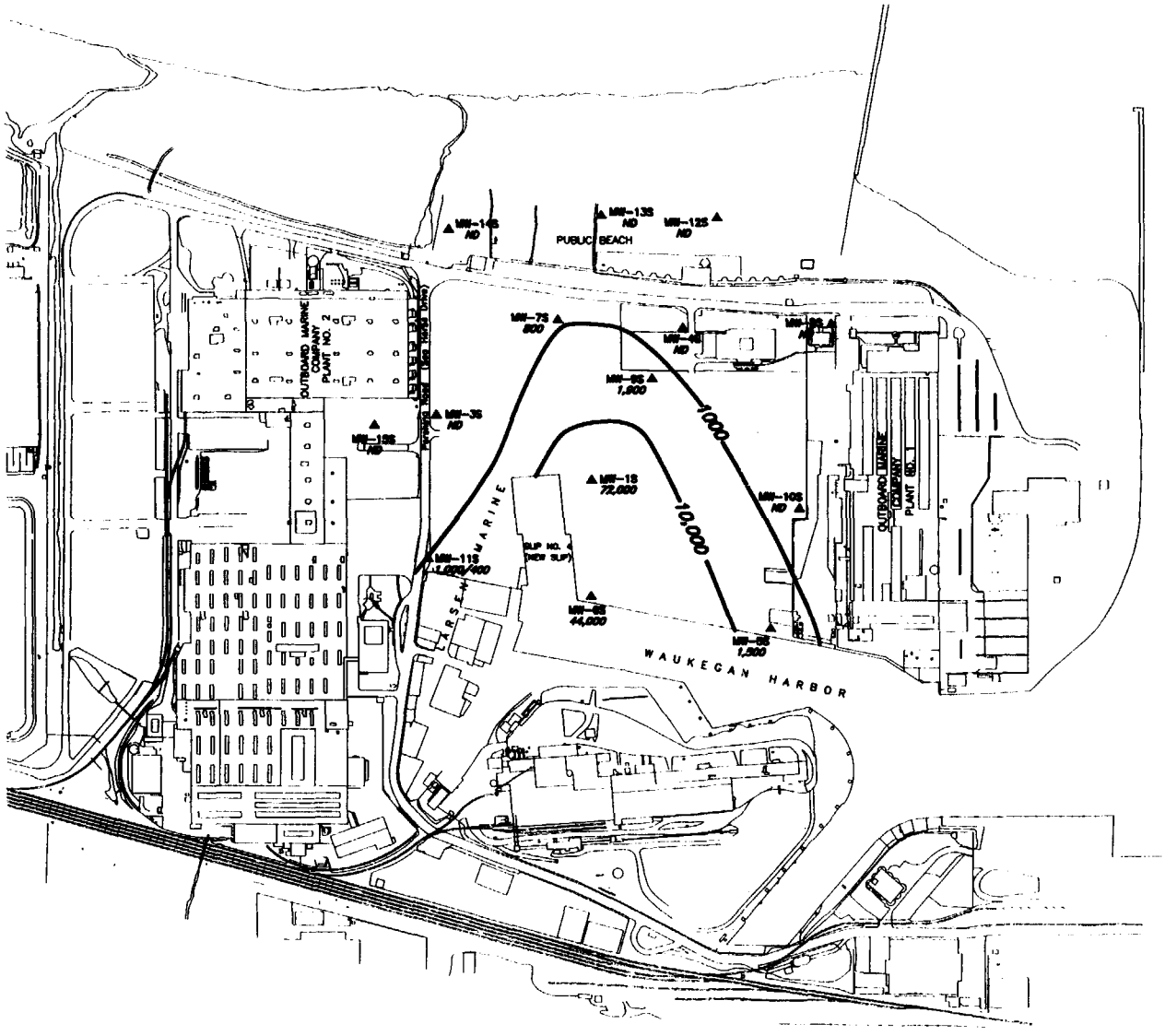


0 400
SCALE IN FEET

● SB-51	Soil Boring With Temporary Well Point Sample
▲ MW-7S	Sand Aquifer Water Table Monitoring Well
-/11.1/ND	Cadmium(Cd), Lead(Pb), Mercury(Hg), And Selenium(Se) Concentrations (μg/L) April 1992/Sept.-Oct. 1993/Nov.-Dec. 1993 (With Duplicate Results, Where Applicable)
ND	Not Detected

Figure 7.7-7
CADMIUM, LEAD, MERCURY, AND SELENIUM CONCENTRATIONS IN GROUNDWATER SAND AQUIFER WATER TABLE MONITORING WELLS (SHALLOW PORTION OF THE SAND AQUIFER) Waukegan Manufactured Gas & Coke Plant

Randy Wilson C:\PROJECTS\134900\WAUK\WCP-CLAS 500.00 06/22/1994 08:12:53

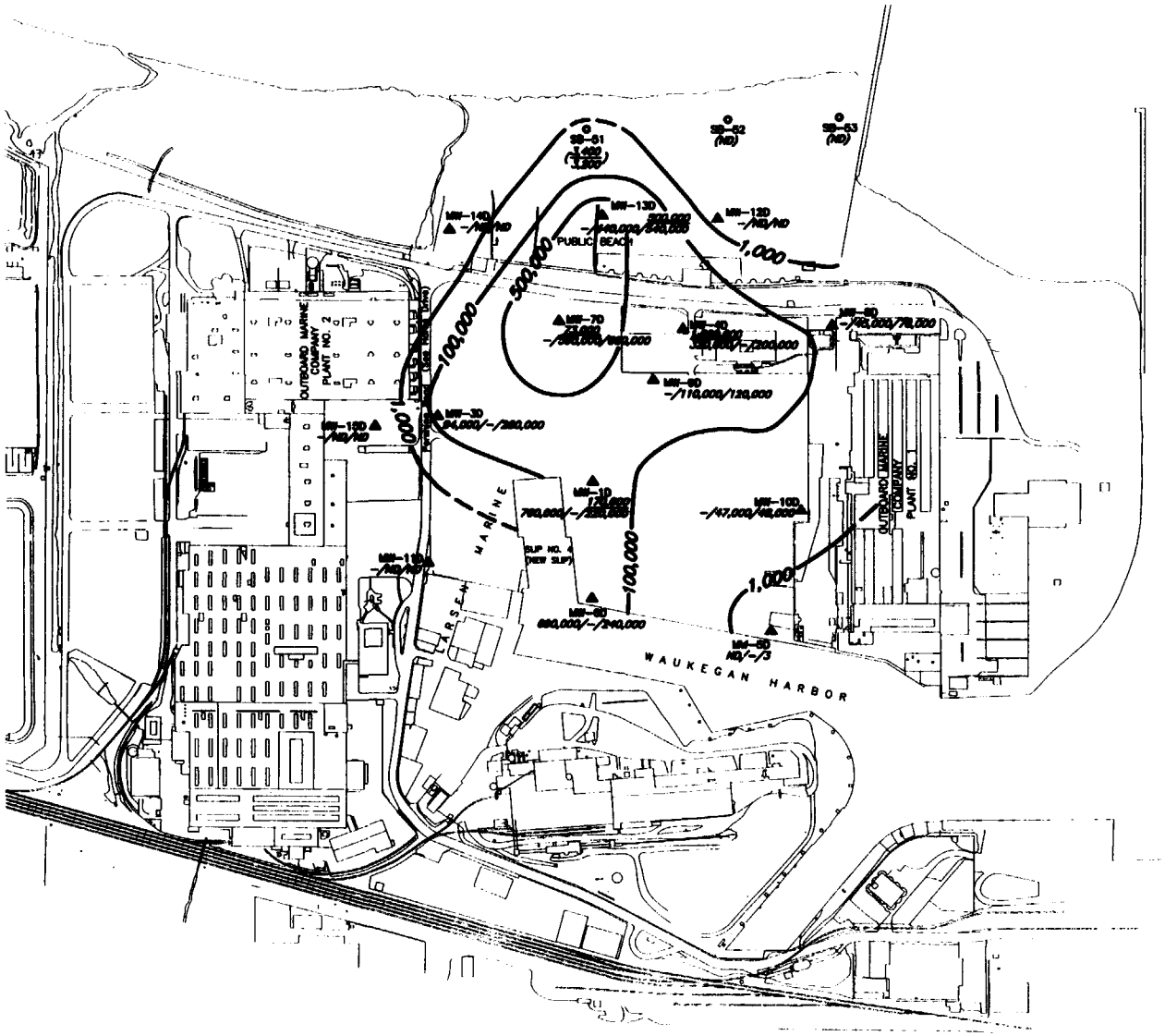


0 400
SCALE IN FEET

▲ MW-7S	Sand Aquifer Water Table Monitoring Well
2,000	Ammonia Concentration (μg/L) December 1993 (With Duplicate Results, Where Applicable)
ND	Not Detected
—1000—	Ammonia Concentration Contour December 1993 Data (Dashed Segments Indicate Lack Of Bounding Data)

Figure 7.7-8
AMMONIA CONCENTRATIONS IN GROUNDWATER
SAND AQUIFER WATER TABLE MONITORING WELLS
(SHALLOW PORTION OF THE SAND AQUIFER)
Waukegan Manufactured Gas & Coke Plant

Randy Wilson C:\PROJECTS\1349003\WAUK\RCP-AMC 500.00 06/22/1994 08:15:35

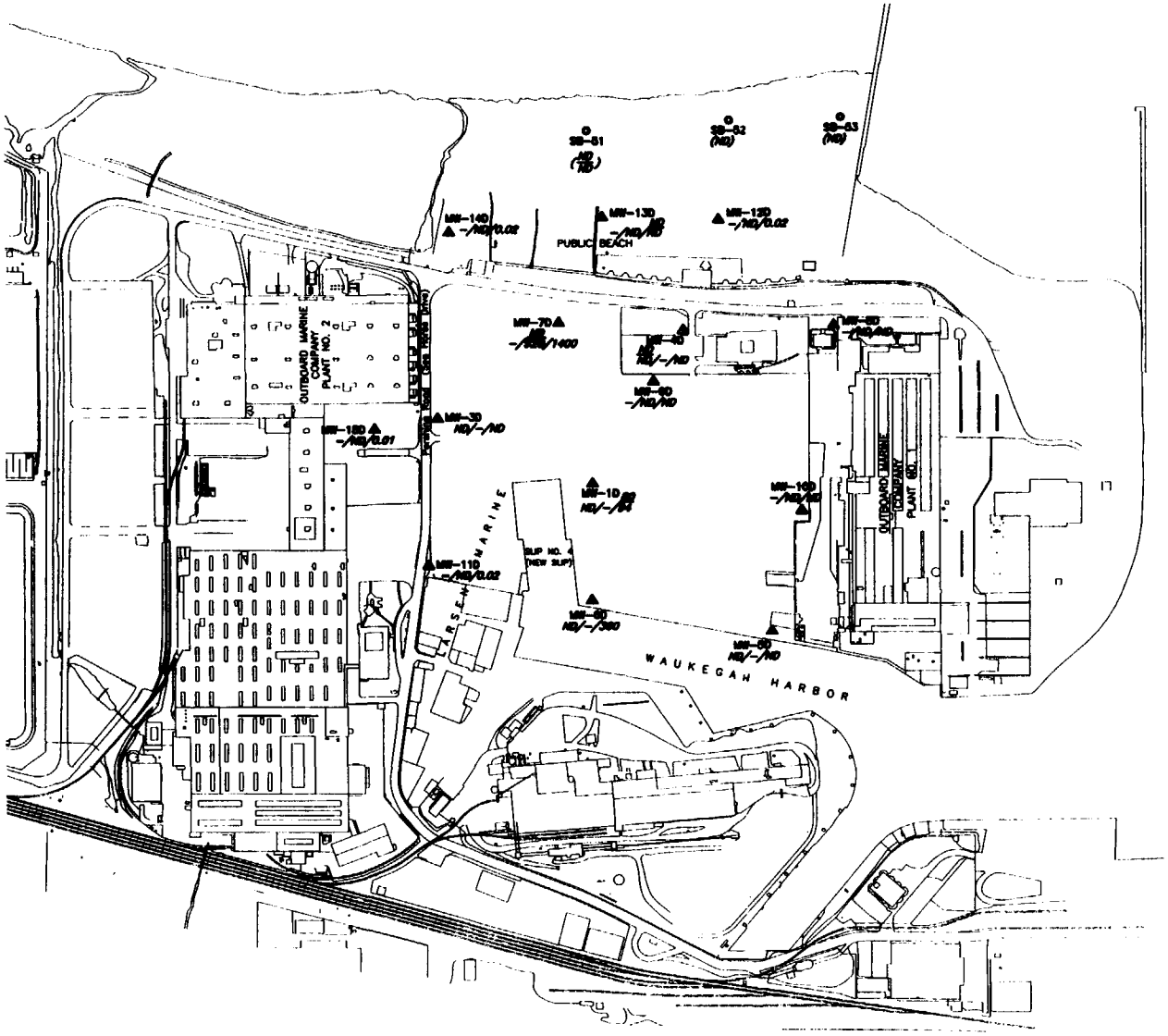


0 400
SCALE IN FEET

• SB-61	Soil Boring With Temporary Well Point Sample
▲MW-7D	Sand Aquifer Deep Monitoring Well
ND/-/3	Phenol Concentration (µg/L) April 1992/Sept.-Oct. 1993/Nov.-Dec. 1993 (With Duplicate Results, Where Applicable)
(1,400/1,300)	Phenol Concentration (µg/L) September 1993 Temporary Well Point Unfiltered Sample (With Duplicate Results, Where Applicable)
ND	Not Detected
—100—	Phenol Concentration Contour December 1993 Data (Dashed Segments Indicate Lack Of Bounding Data)

Figure 7.7-9
PHENOL CONCENTRATIONS IN GROUNDWATER
SAND AQUIFER DEEP MONITORING WELLS
Waukegan Manufactured Gas & Coke Plant

Randy Wilson C:\PROJECTS\1349003\WAUK\WCP-PHD 500.00 06/20/1994 10:42:40

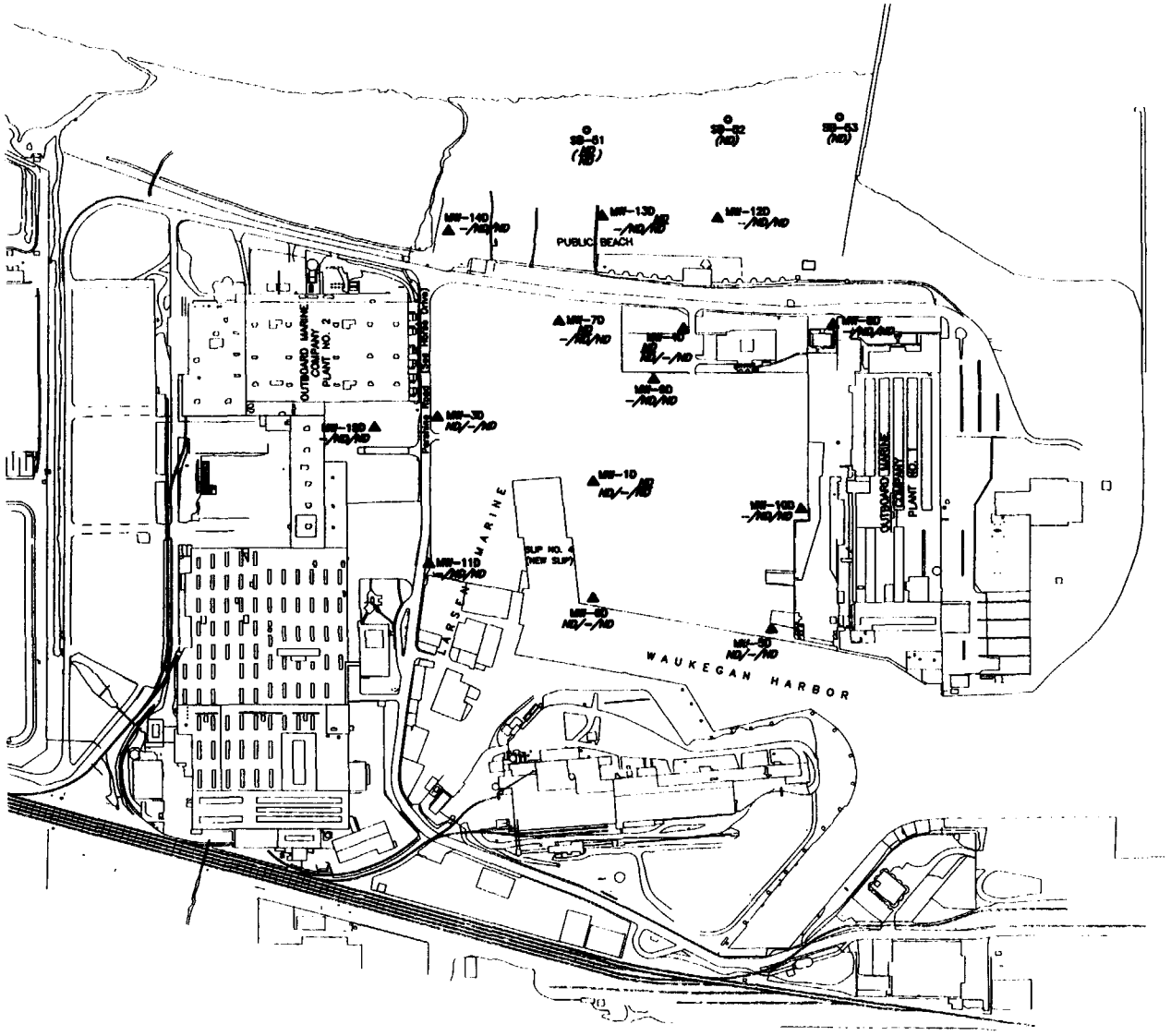


0 400
SCALE IN FEET

● SB-51	Soil Boring With Temporary Well Point Sample
▲MW-7D	Sand Aquifer Deep Monitoring Well
ND/-/380	Total PAH Concentration (µg/L) April 1992/Sept.-Oct. 1993/Nov.-Dec. 1993 (With Duplicate Results, Where Applicable)
(ND/ND)	Total PAH Concentration (µg/L) September 1993 Temporary Well Point Unfiltered Sample (With Duplicate Results, Where Applicable)
ND	Not Detected

Figure 7.7-10
TOTAL PAH CONCENTRATIONS IN GROUNDWATER
SAND AQUIFER DEEP MONITORING WELLS
Waukegan Manufactured Gas & Coke Plant

Randy Wilson C:\PROJECTS\1346003\WAUK\WCP-TDPA 500.00 06/20/1994 10:45:20

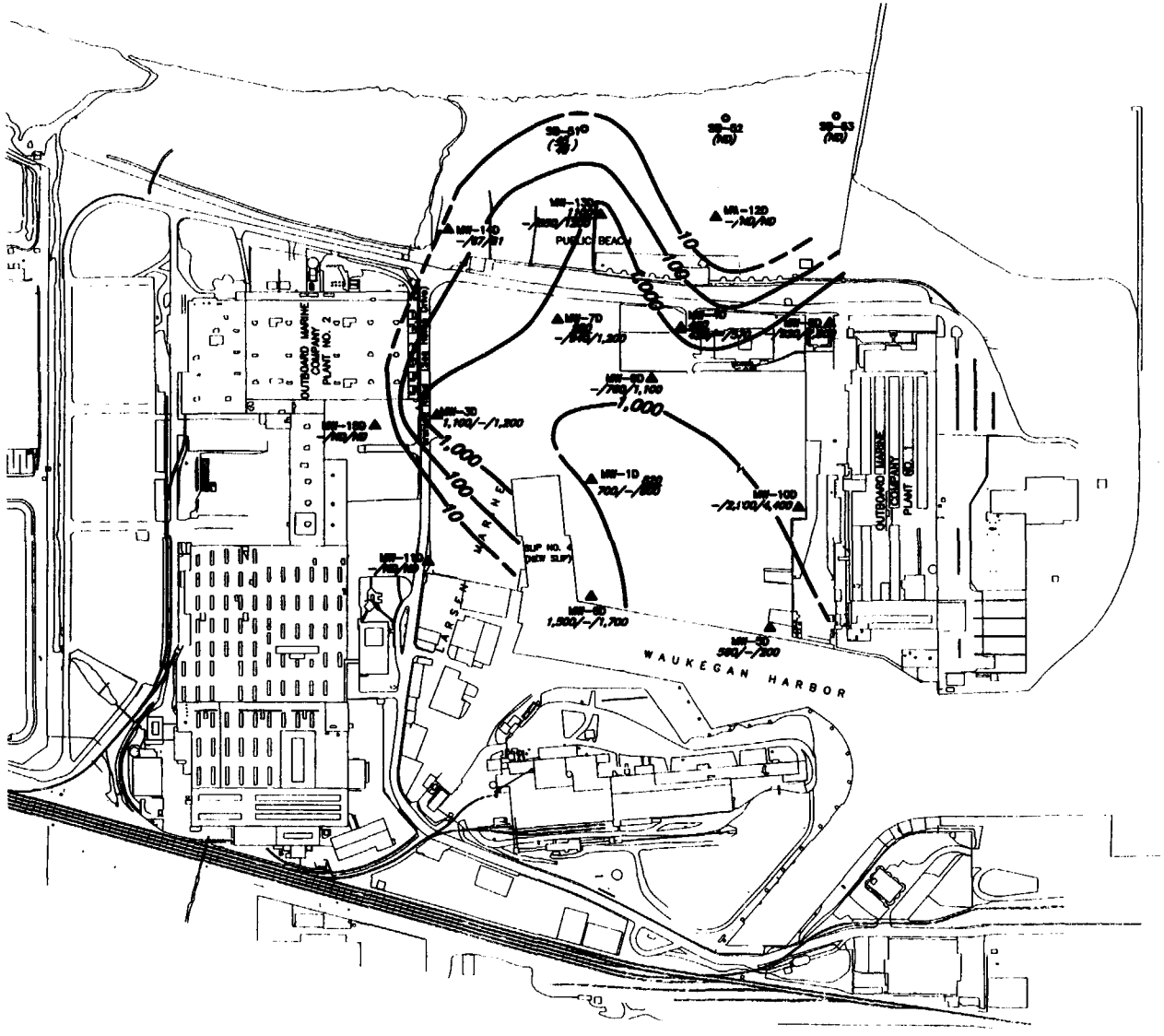


0 400
SCALE IN FEET

• SB-51	Soil Boring With Temporary Well Point Sample
▲MW-7D	Sand Aquifer Deep Monitoring Well
-/ND/ND	Carcinogenic PAH Concentration (µg/L) April 1992/Sept.-Oct. 1993/Nov.-Dec. 1993 (With Duplicate Results, Where Applicable)
(ND/ND)	Carcinogenic PAH Concentration (µg/L) September 1993 Temporary Well Point Unfiltered Sample (With Duplicate Results, Where Applicable)
ND	Not Detected

Figure 7.7-11
CARCINOGENIC PAH CONCENTRATIONS
IN GROUNDWATER
SAND AQUIFER DEEP MONITORING WELLS
Waukegan Manufactured Gas & Coke Plant

Randy Wilson C:\PROJECTS\1349003\WAUK\WCP-TDPH 500.00 06/20/1994 10:47:54

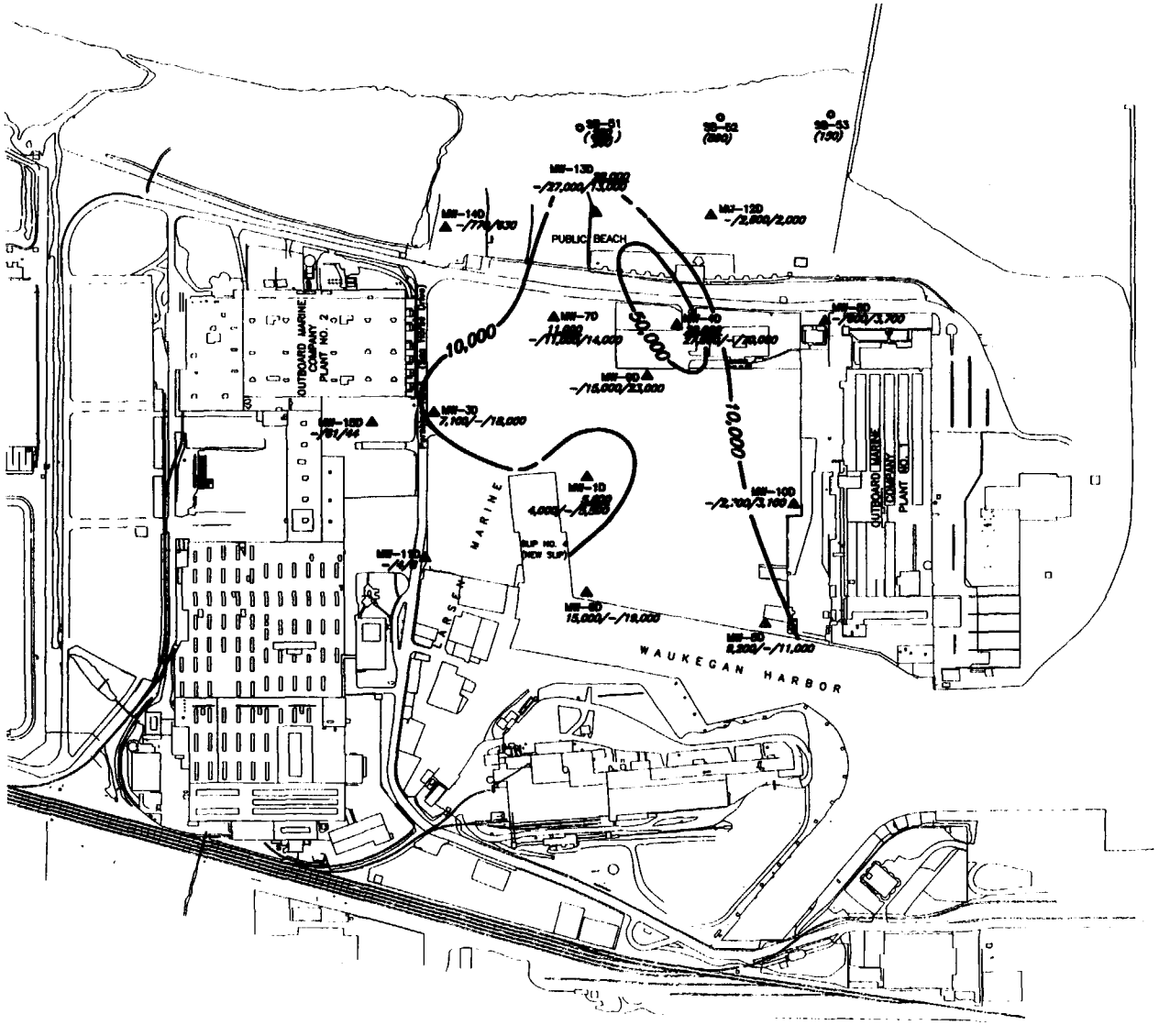


0 400
SCALE IN FEET

• SB-S1	Soil Boring With Temporary Well Point Sample
▲MW-7D	Sand Aquifer Deep Monitoring Well
1,100/-/1,300	Benzene Concentration (µg/L) April 1992/Sept.-Oct. 1993/Nov.-Dec. 1993 (With Duplicate Results, Where Applicable)
[illegible]	Benzene Concentration (µg/L) September 1993 Temporary Well Point Unfiltered Sample (With Duplicate Results, Where Applicable)
ND	Not Detected
—100—	Benzene Concentration Contour December 1993 Data (Dashed Segments Indicate Lack Of Bounding Data)

Figure 7.7-12
BENZENE CONCENTRATIONS IN GROUNDWATER
SAND AQUIFER DEEP MONITORING WELLS
Waukegan Manufactured Gas & Coke Plant

Randy Wilson C:\PROJECTS\1349003\WAUK\WCP-B2D 400.00 05/06/1994 08:14:26

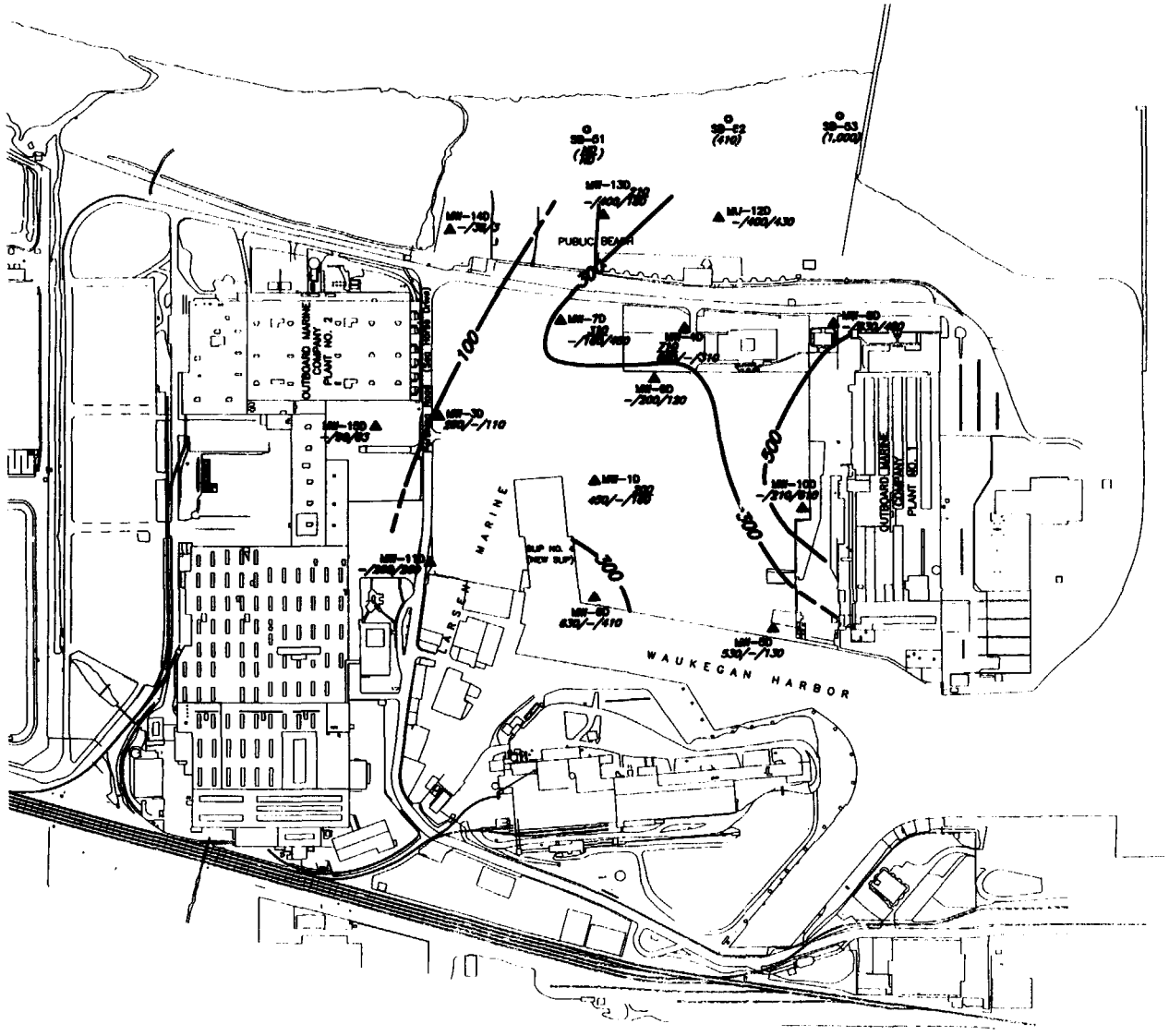


0 400
SCALE IN FEET

• SB-51	Soil Boring With Temporary Well Point Sample
▲MW-7D	Sand Aquifer Deep Monitoring Well
-/15,000/23,000	Arsenic Concentration (µg/L) April 1992/Sept.–Oct. 1993/Nov.–Dec. 1993 (With Duplicate Results, Where Applicable)
(890)	Arsenic Concentration (µg/L) September 1993 Temporary Well Point Unfiltered Sample (With Duplicate Results, Where Applicable)
ND	Not Detected
—10,000—	Arsenic Concentration Contour December 1993 Data (Dashed Segments Indicate Lack Of Bounding Data)

Figure 7.7–13
ARSENIC CONCENTRATIONS IN GROUNDWATER
SAND AQUIFER DEEP MONITORING WELLS
Waukegan Manufactured Gas & Coke Plant

Randy Wilson C:\PROJECTS\1349003\WAUK\WCP-ARD 500.00 06/20/1994 10:53:28

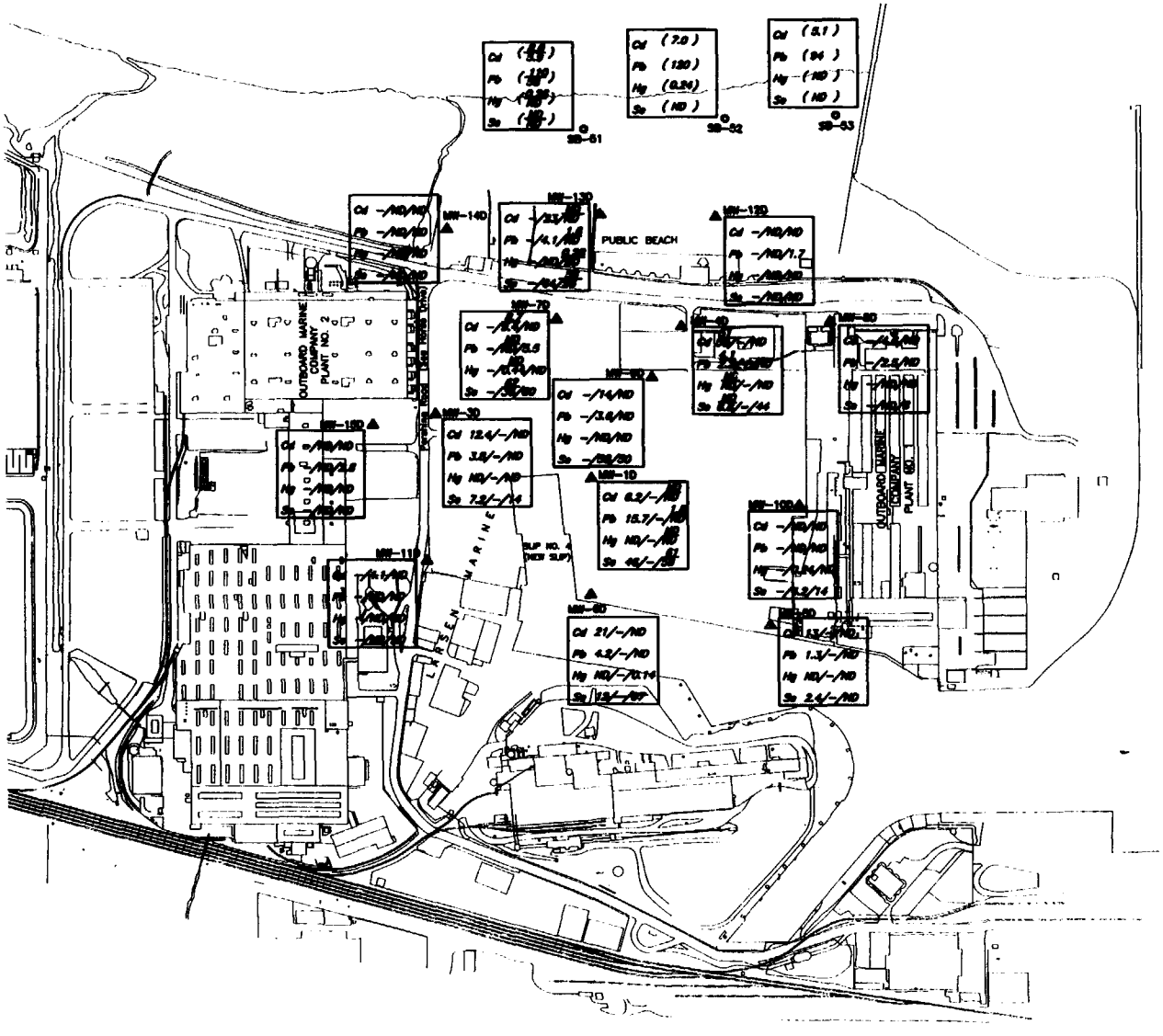


0 400
SCALE IN FEET

• SB-51	Soil Boring With Temporary Well Point Sample
▲MW-7D	Sand Aquifer Deep Monitoring Well
632/-/410	Cyanide Concentration (µg/L) April 1992/Sept.-Oct. 1993/Nov.-Dec. 1993 (With Duplicate Results, Where Applicable)
(410)	Cyanide Concentration (µg/L) September 1993 Temporary Well Point Unfiltered Sample (With Duplicate Results, Where Applicable)
ND	Not Detected
—100—	Cyanide Concentration Contour December 1993 Data (Dashed Segments Indicate Lack Of Bounding Data)

Figure 7.7-14
CYANIDE CONCENTRATIONS IN GROUNDWATER
SAND AQUIFER DEEP MONITORING WELLS
Waukegan Manufactured Gas & Coke Plant

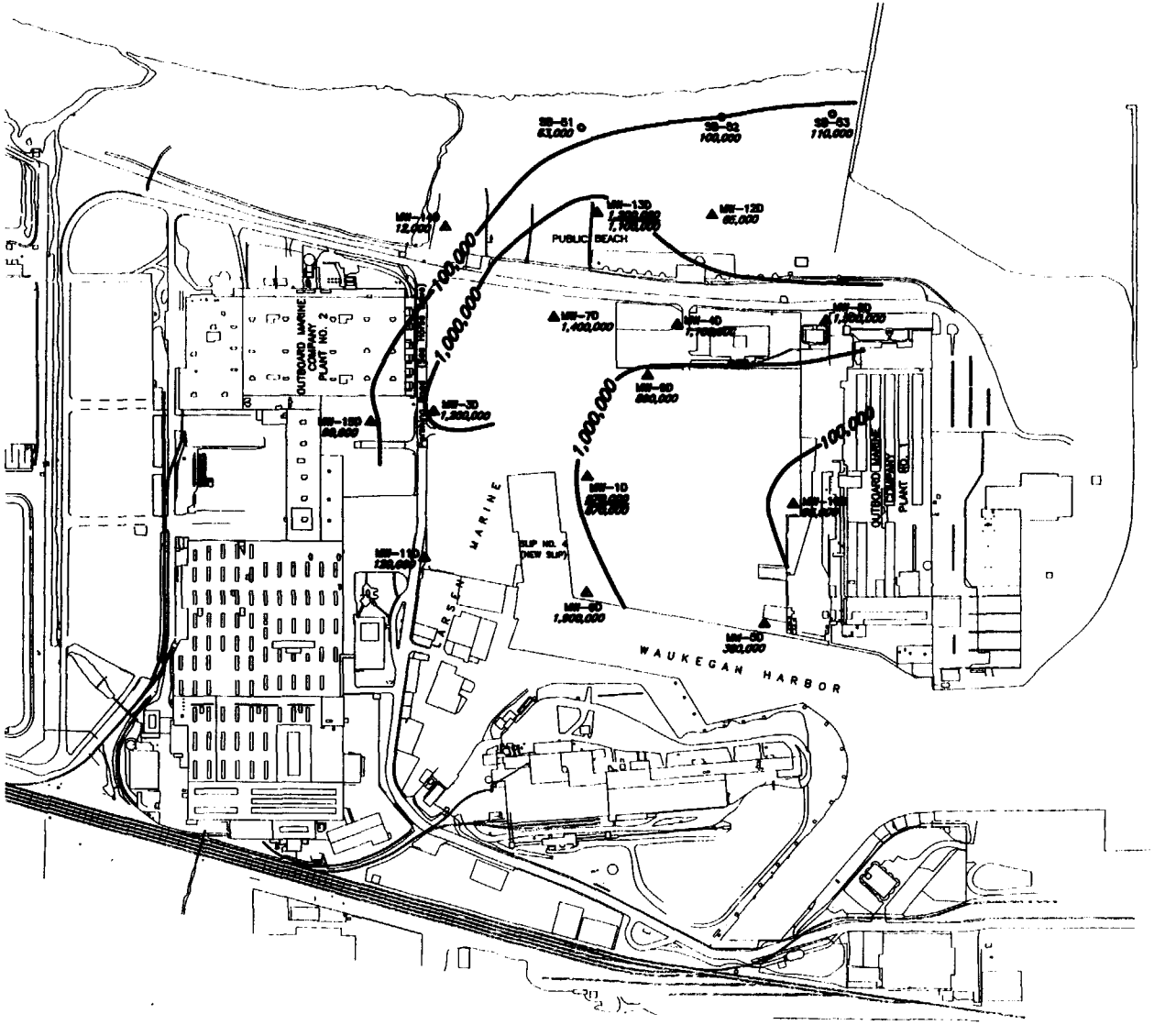
Randy Wilson C:\PROJECTS\1349003\WAUK\WCP-CYD 500.00 06/20/1994 10:56:43



0 400
SCALE IN FEET

• SB-51	Soil Boring With Temporary Well Point Sample
▲MW-7D	Sand Aquifer Deep Monitoring Well
ND/-/300	Cadmium(Cd), Lead(Pb), Mercury(Hg), And Selenium(Se) Concentrations (μg/L) April 1992/Sept.-Oct. 1993/Nov.-Dec. 1993 (With Duplicate Results, Where Applicable)
(ND/ND)	Cadmium(Cd), Lead(Pb), Mercury(Hg), And Selenium(Se) Concentrations (μg/L) September 1993 Data Temporary Well Point Unfiltered Sample (With Duplicate Results, Where Applicable)
ND	Not Detected

Figure 7.7-15
CADMIUM, LEAD, MERCURY, AND SELENIUM CONCENTRATIONS IN GROUNDWATER SAND AQUIFER DEEP MONITORING WELLS
Waukegan Manufactured Gas & Coke Plant

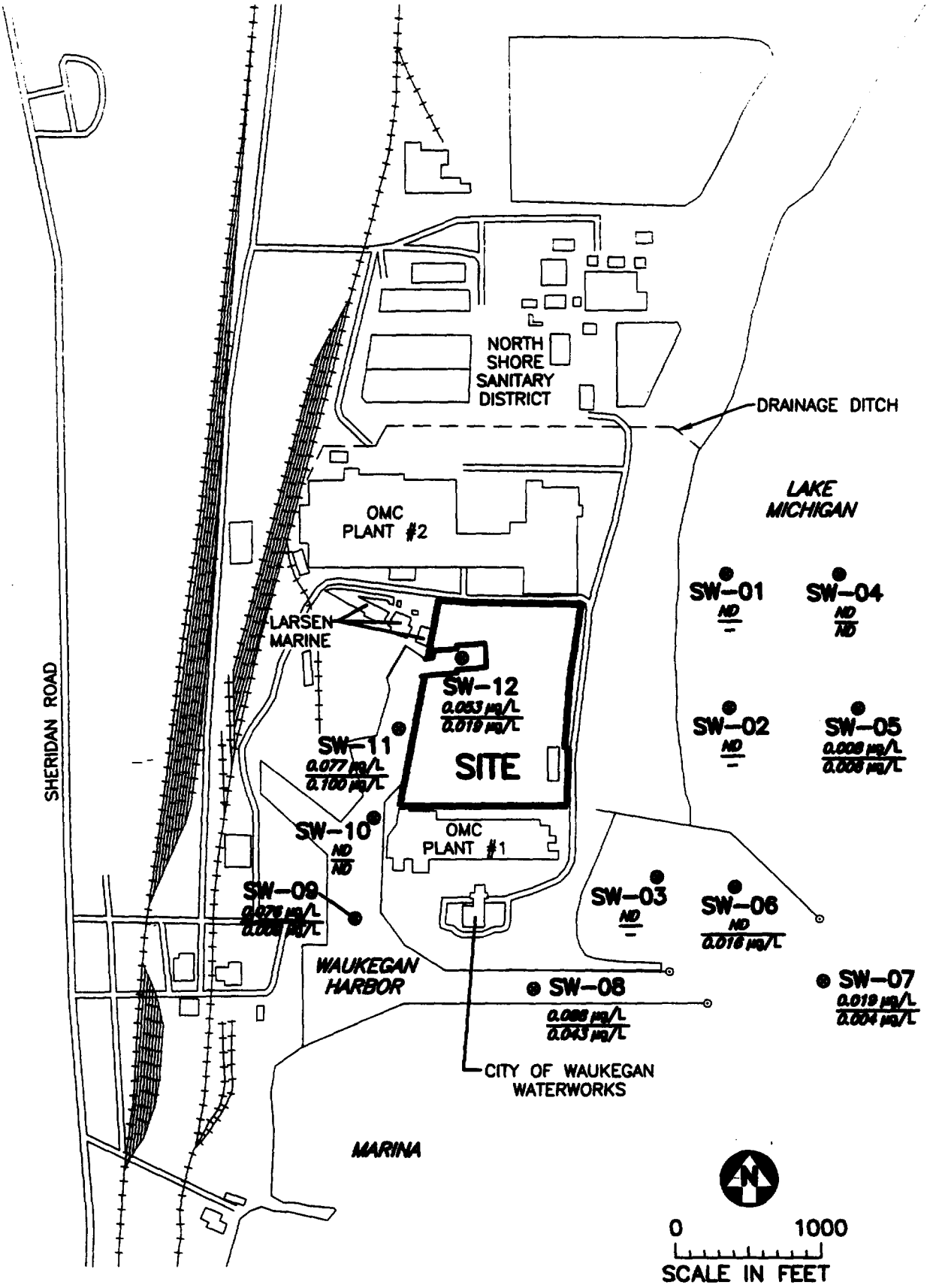


0 400
SCALE IN FEET

● SB-51	Soil Boring With Temporary Well Point Sample
▲ MW-7D	Sand Aquifer Deep Monitoring Well
383,000	Ammonia Concentration (μg/L) April 1992/Sept.–Oct. 1993/Nov.–Dec. 1993 (With Duplicate Results, Where Applicable)
63,000	Ammonia Concentration (μg/L) September 1993 Temporary Well Point Unfiltered Sample (With Duplicate Results, Where Applicable)
ND	Not Detected
—100,000—	Ammonia Concentration Contour December 1993 Data (Dashed Segments Indicate Lack Of Bounding Data)

Figure 7.7–16
AMMONIA CONCENTRATIONS IN GROUNDWATER
SAND AQUIFER DEEP MONITORING WELLS
Waukegan Manufactured Gas & Coke Plant

Randy Wilson C:\PROJECTS\1349003\WAUK\WCP-AMM 500.00 06/20/1994 11:55:50



0.088 µg/L Concentration At Shallow Depth
0.043 µg/L Concentration At Deep Depth

ND Not Detected

Figure 7.8-1
TOTAL PAH CONCENTRATIONS
Waukegan Manufactured Gas & Coke Plant Site

RJW C:\PROJECTS\1349003\WAUK\WCP-SPAH 10:00 11/11/1994 1E

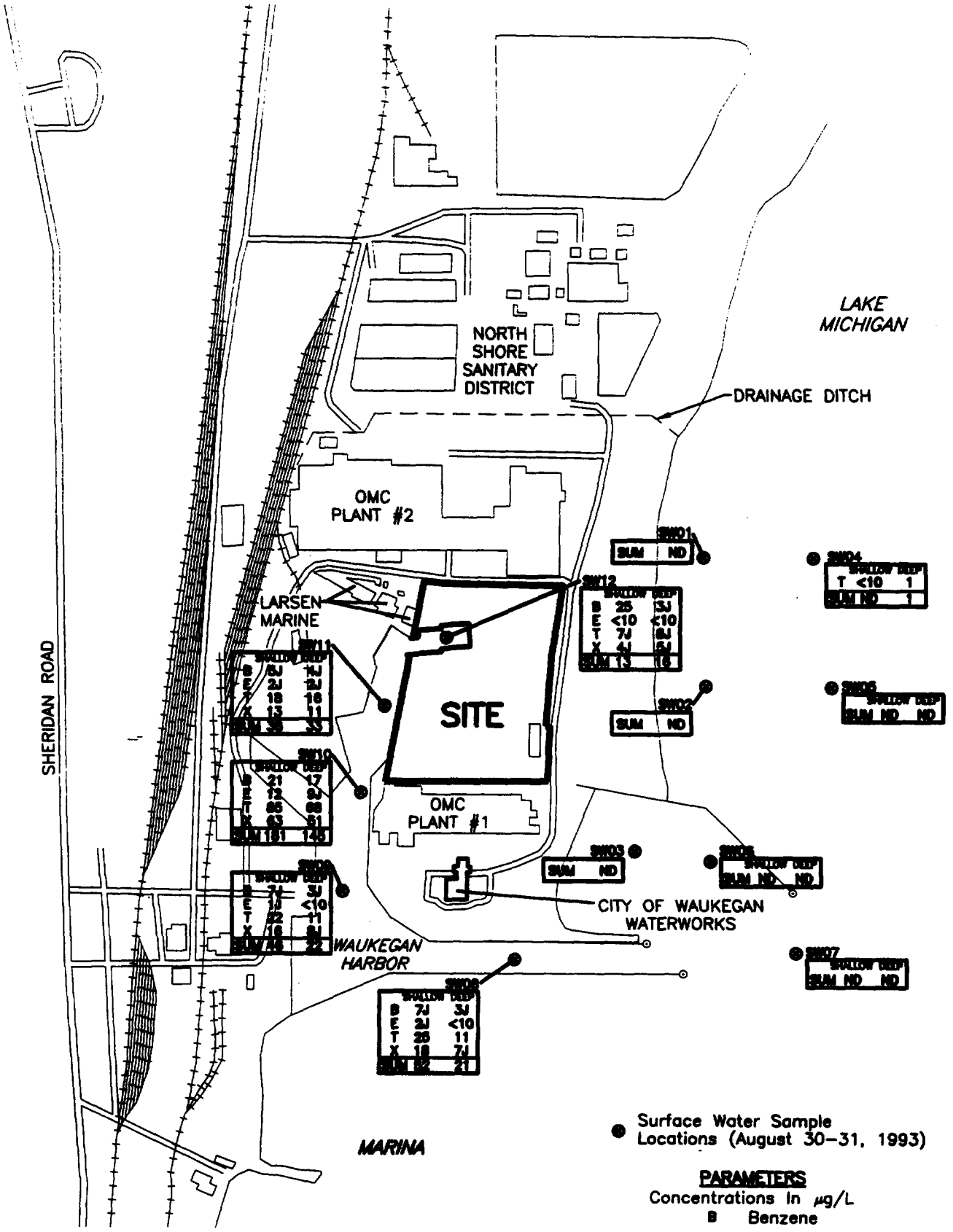


Figure 7.8–2
BETX CONCENTRATIONS
1993 SURFACE WATER SAMPLES

Waukegan Manufactured Gas & Coke Plant Site

RJW C:\PROJECTS\1349003\WAUK\WCP-BTX 12/05/1994 13:1

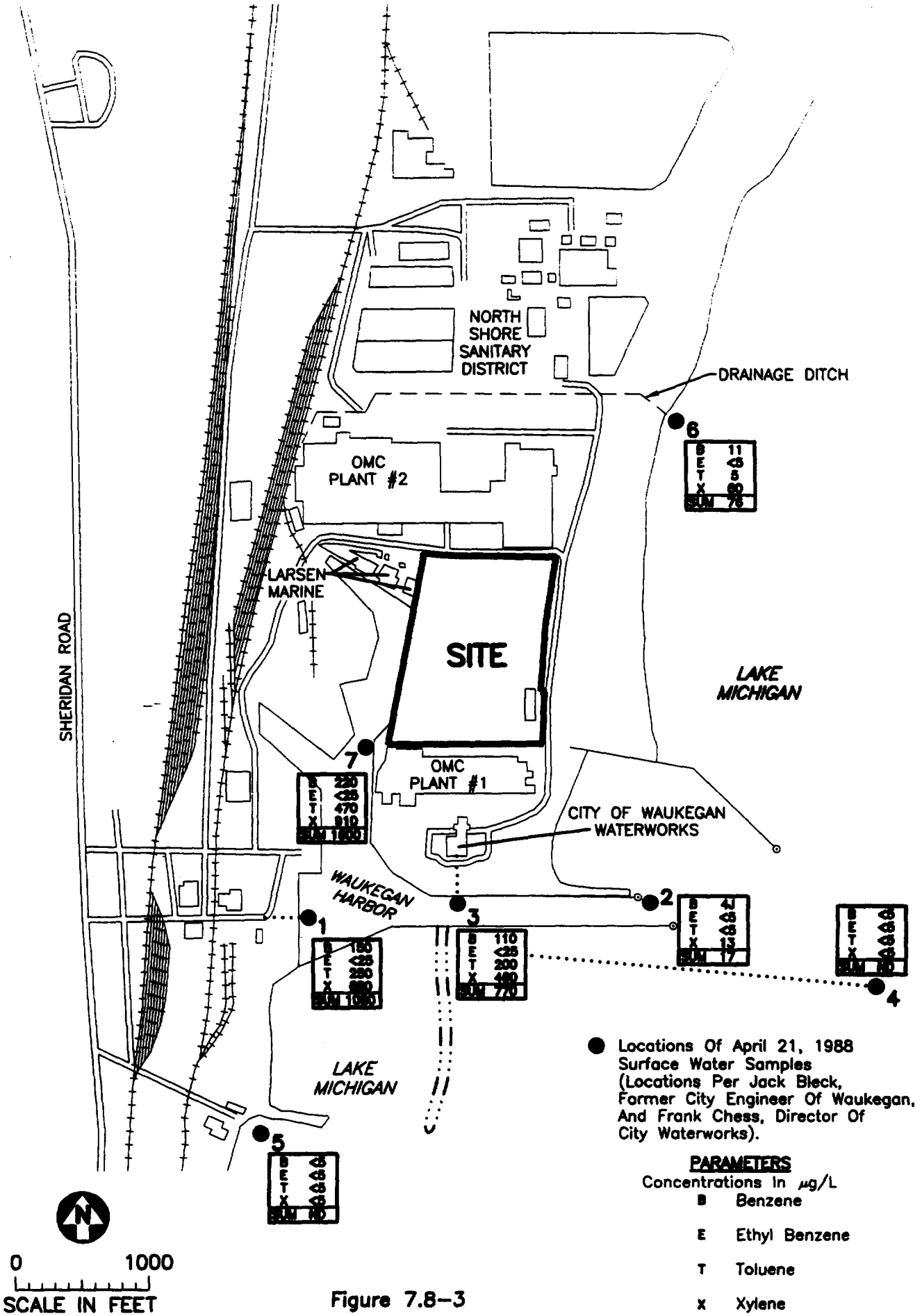


Figure 7.8-3
BTEX CONCENTRATIONS

WAUKEGAN HARBOR AND LAKE MICHIGAN
Waukegan Manufactured Gas & Coke Plant Site

RJW C:\PROJECTS\1349003\WAUK\WCP-BNZ 1 000 12/06/1994 1C

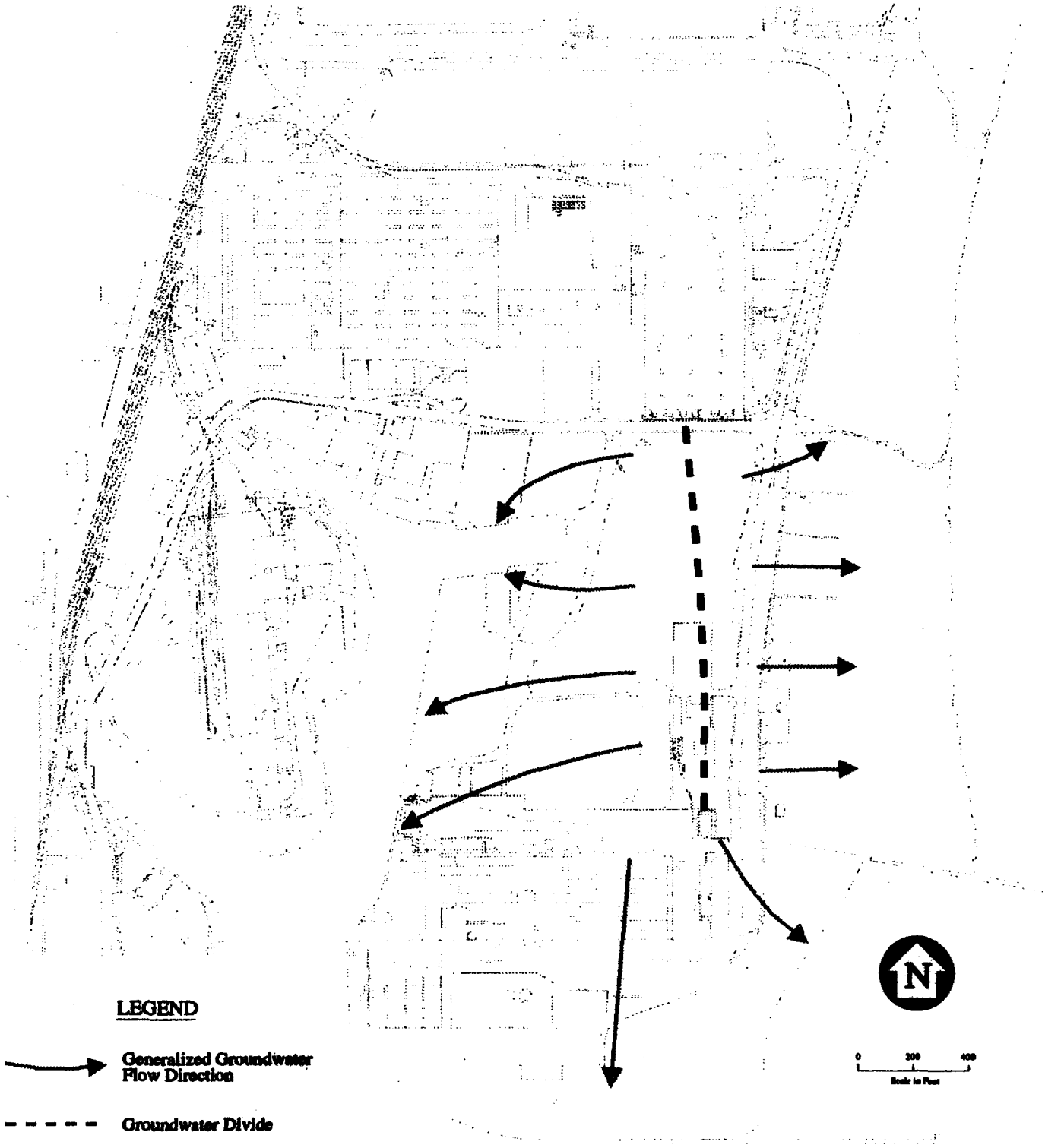
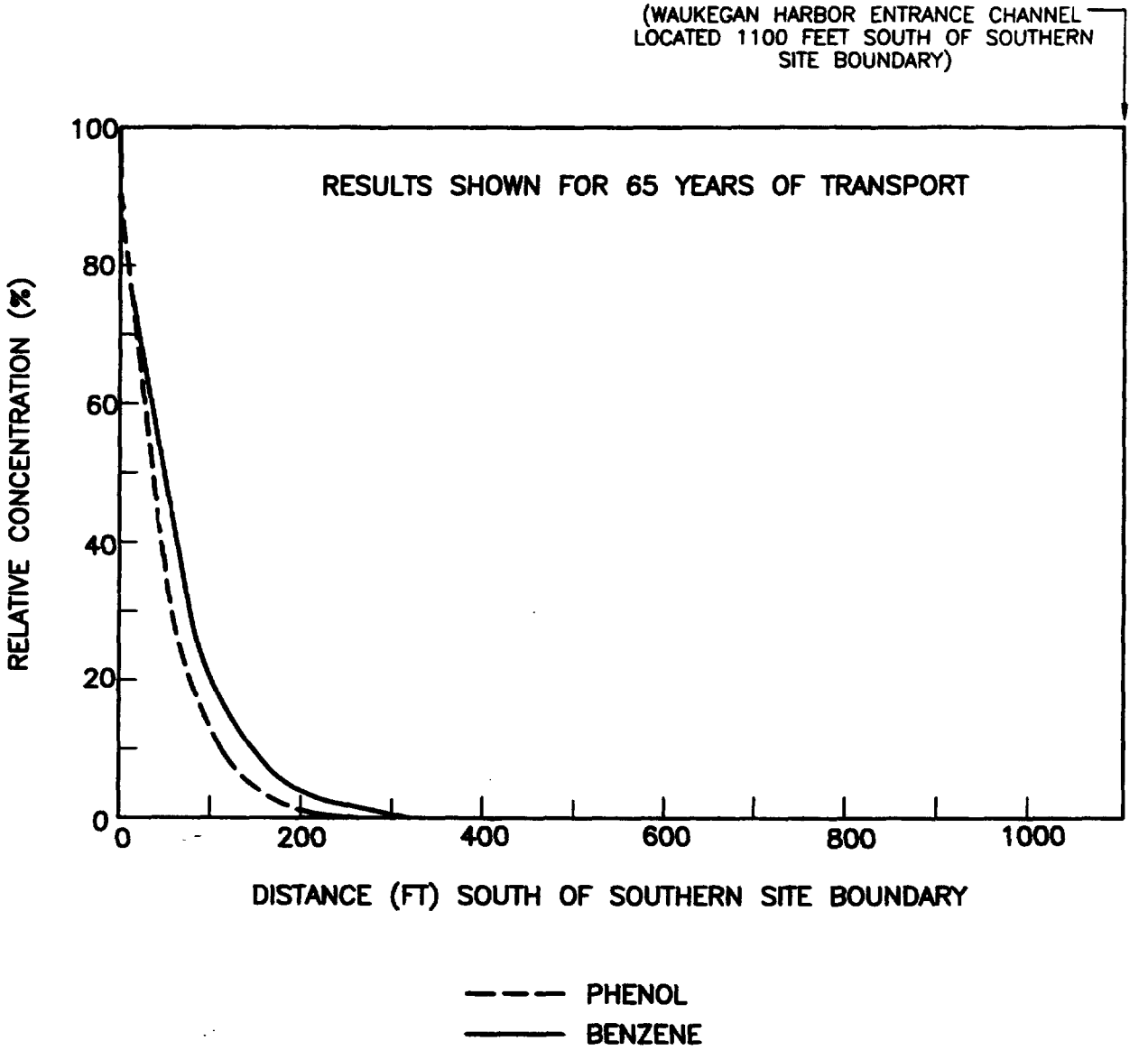


Figure 8.4-1

CONCEPTUAL ILLUSTRATION OF GROUNDWATER MIGRATION PATHWAYS



NOTES:

SIMULATIONS ASSUME REPRESENTATIVE CASE HYDROGEOLOGIC PARAMETERS.

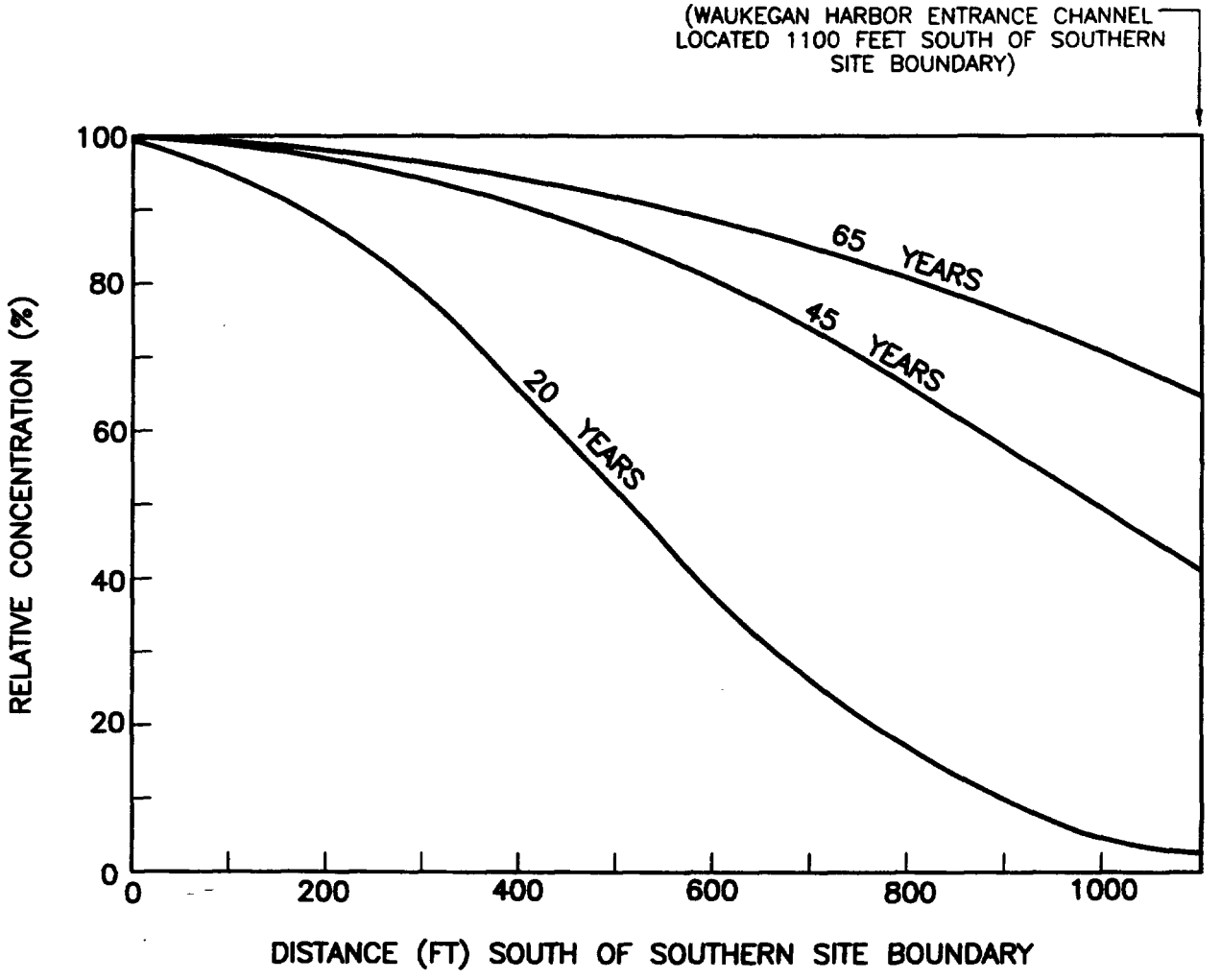
COMPOUND-SPECIFIC TRANSPORT PARAMETERS (RETARDATION FACTOR AND DEGRADATION RATE CONSTANT) ASSUMED FOR BENZENE AND PHENOL MIGRATION.

DETAILS OF CONTAMINANT TRANSPORT SIMULATIONS ARE PROVIDED IN APPENDIX 8-B.

Figure 8.4-2

CONTAMINANT TRANSPORT ANALYSES FOR KEY ORGANIC CONSTITUENTS, DEEP PORTION OF SAND AQUIFER

Diane Schires WCP-1 1:00 0('1994 13:35:29



NOTES:

SIMULATIONS ASSUME REPRESENTATIVE CASE HYDROGEOLOGIC PARAMETERS.

TRANSPORT PARAMETERS (NO RETARDATION OR DEGRADATION) ASSUMED AS REPRESENTATIVE FOR ARSENIC AND CYANIDE MIGRATION.

DETAILS OF CONTAMINANT TRANSPORT SIMULATIONS ARE PROVIDED IN APPENDIX 8-B.

Figure 8.4-3

CONTAMINANT TRANSPORT ANALYSES FOR KEY INORGANIC CONSTITUENTS, DEEP PORTION OF SAND AQUIFER

Diane Schires C:\PROJECTS\1349003\WCP-2 0 06/08/1994 13:

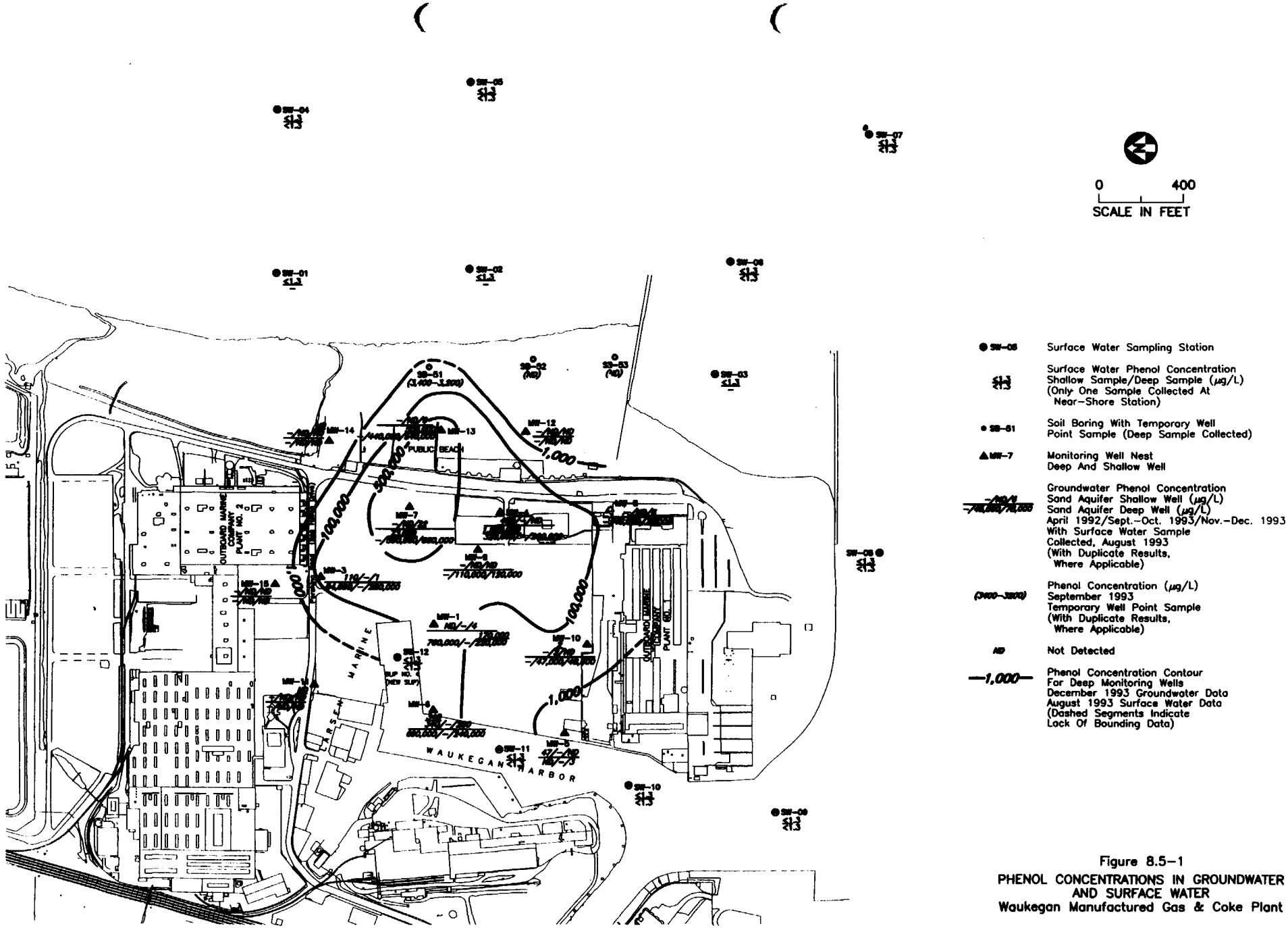
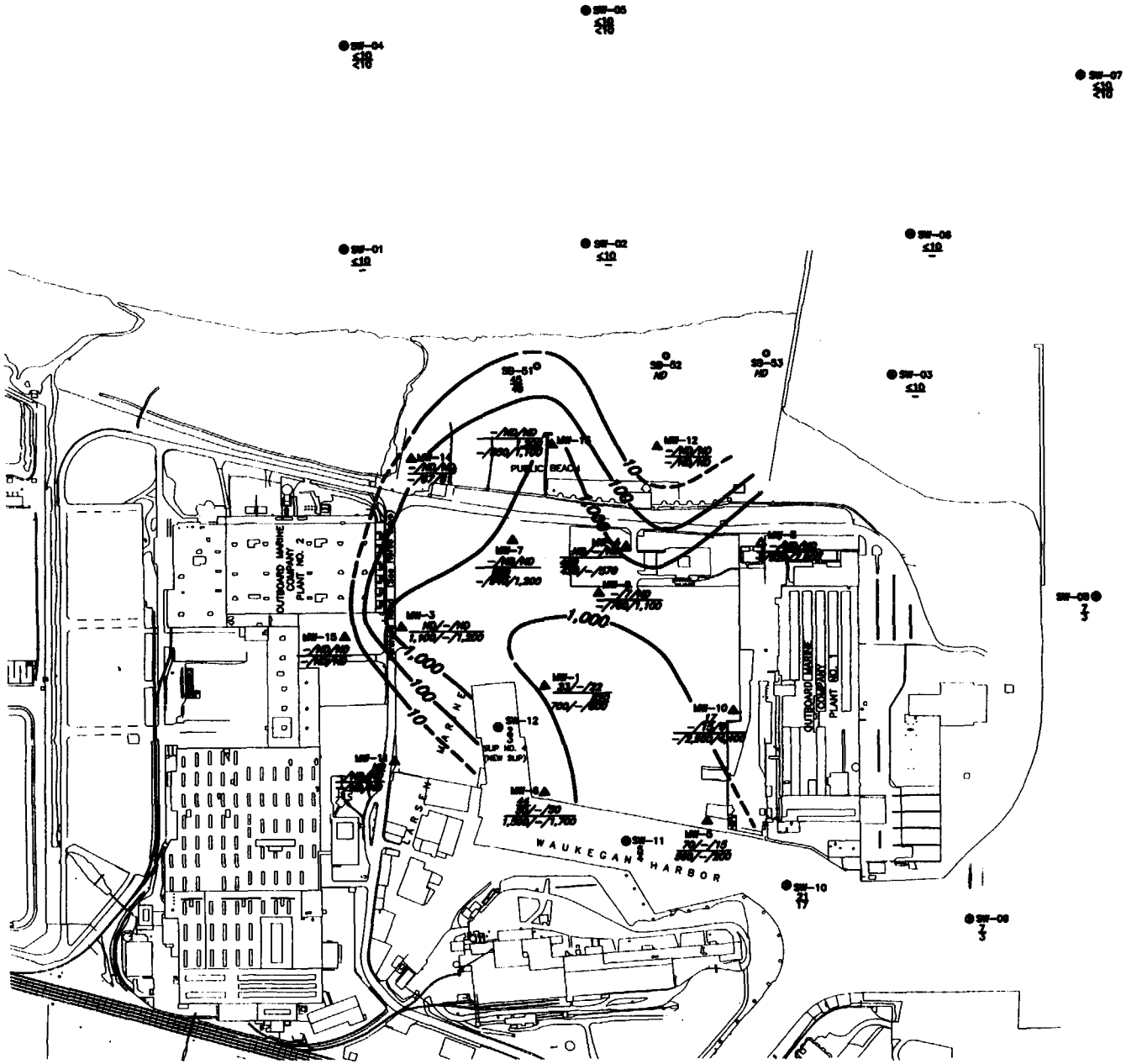


Figure 8.5-1
PHENOL CONCENTRATIONS IN GROUNDWATER AND SURFACE WATER
Waukegan Manufactured Gas & Coke Plant



0 400
SCALE IN FEET

● SW-08	Surface Water Sampling Station
ND/ND	Surface Water Benzene Concentration Shallow Sample/Deep Sample (µg/L) (Only One Sample Collected At Near-Shore Station)
● SB-51	Soil Boring With Temporary Well Point Sample (Deep Sample Collected)
▲ MW-7	Monitoring Well Nest Deep And Shallow Well
70/-/15 100/-/200	Groundwater Benzene Concentration Shallow Well/Deep Well (µg/L) (With Duplicate Results, Where Applicable)
ND-ND	Benzene Concentration (µg/L) September 1993 Temporary Well Point Sample (With Duplicate Results, Where Applicable)
ND	Not Detected
—1,000—	Benzene Concentration Contour For Deep Monitoring Wells December 1993 Groundwater Data (Dashed Segments Indicate Lack Of Bounding Data)

Figure 8.5-2
BENZENE CONCENTRATIONS IN GROUNDWATER AND SURFACE WATER
Waukegan Manufactured Gas & Coke Plant

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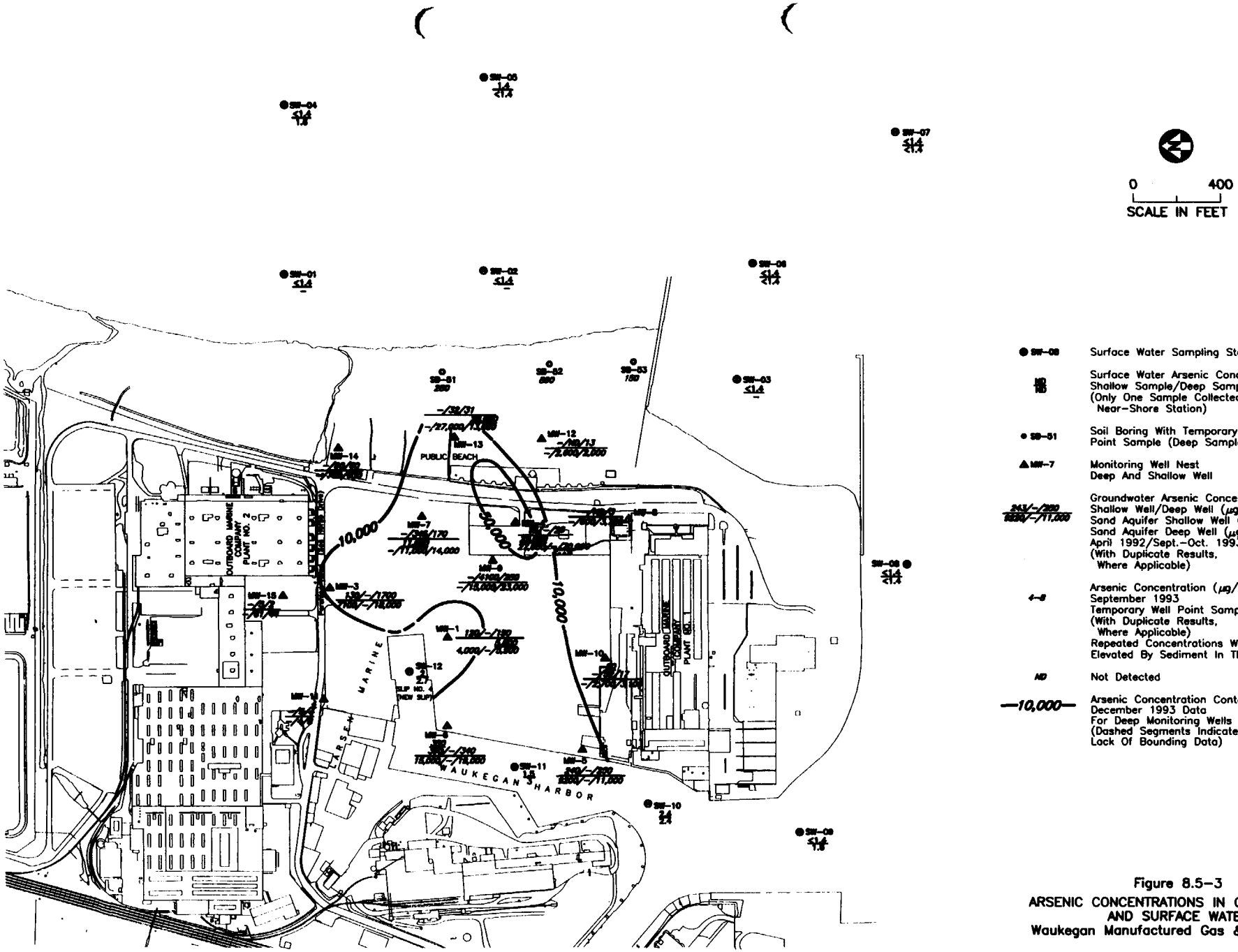

● SW-08 Surface Water Sampling Station

ND/ND Surface Water Arsenic Concentration Shallow Sample/Deep Sample (µg/L) (Only One Sample Collected At Near-Shore Station)

• SB-51 Soil Boring With Temporary Well Point Sample (Deep Sample Collected)

▲ MW-7 Monitoring Well Nest Deep And Shallow Well

243/-/200 / 9220/-/11,000 Groundwater Arsenic Concentration Shallow Well/Deep Well (µg/L) Sand Aquifer Shallow Well (µg/L) Sand Aquifer Deep Well (µg/L) April 1992/Sept.-Oct. 1993/Nov.-Dec. 1993 (With Duplicate Results, Where Applicable)

4-8 Arsenic Concentration (µg/L) September 1993 Temporary Well Point Sample (With Duplicate Results, Where Applicable) Repeated Concentrations Were Apparently Elevated By Sediment In The Sample.

ND Not Detected

—10,000— Arsenic Concentration Contour December 1993 Data For Deep Monitoring Wells (Dashed Segments Indicate Lack Of Bounding Data)

Figure 8.5-3
ARSENIC CONCENTRATIONS IN GROUNDWATER AND SURFACE WATER
Waukegan Manufactured Gas & Coke Plant

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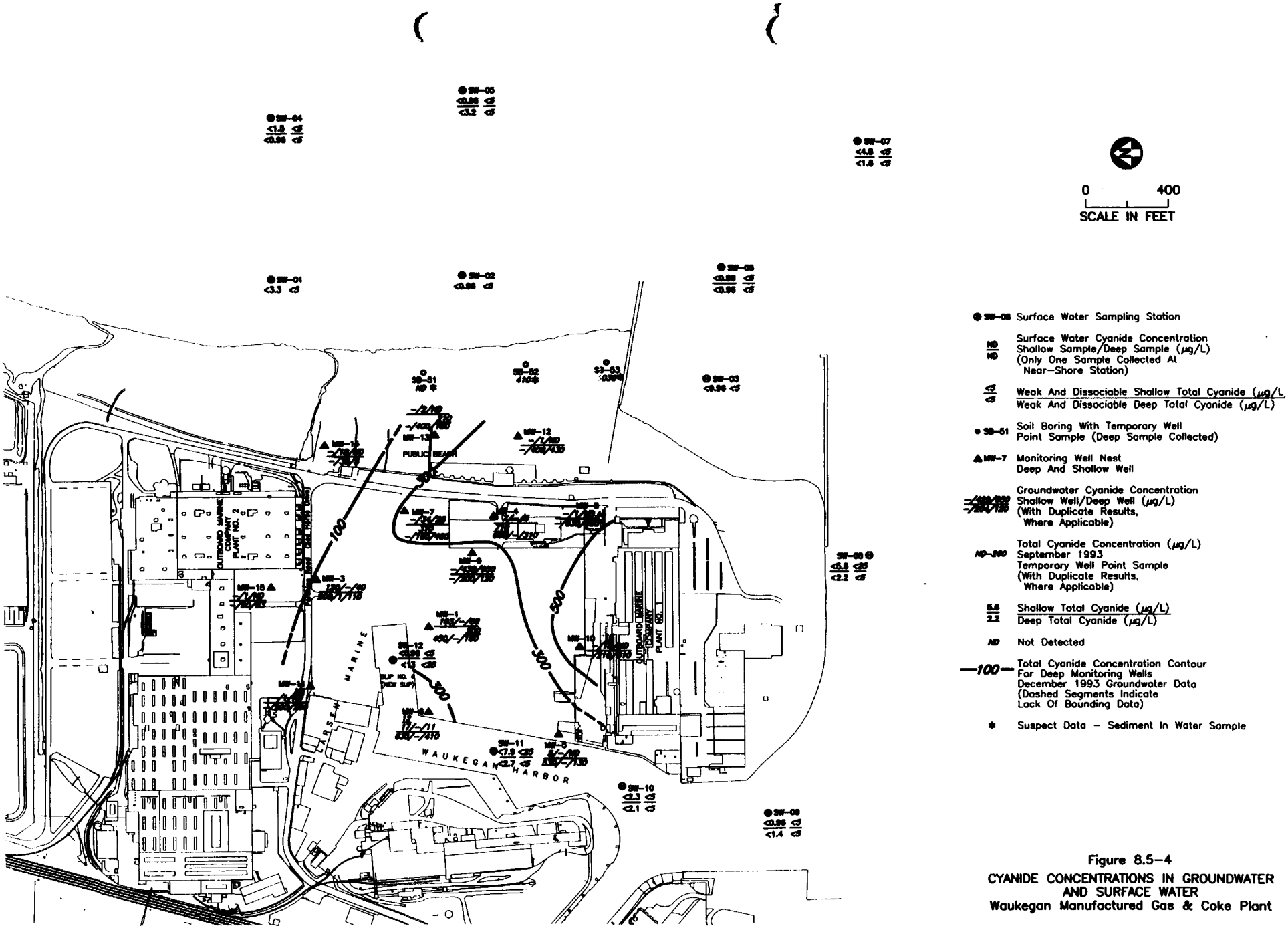

Figure 8.5-4
CYANIDE CONCENTRATIONS IN GROUNDWATER AND SURFACE WATER
Waukegan Manufactured Gas & Coke Plant