

NOTES

1. CONCENTRATIONS REPORTED IN MICROGRAMS PER KILOGRAM.
2. SAMPLES ANALYZED WITH A HEWLETT-PACKARD 5890 GAS CHROMATOGRAPH (HPGC).
3. THE HPGC WAS CALIBRATED FOR THE FOLLOWING COMPOUNDS:

METHYLENE CHLORIDE	TRICHLOROETHENE
TRANS-1,2-DICHLOROETHENE	1,1,1-TRICHLOROETHANE
CIS-1,2-DICHLOROETHENE	1,1-DICHLOROETHANE
TETRACHLOROETHENE	1,1-DICHLOROETHENE
TOLUENE	

LEGEND

- ⊙ BORING LOCATION
- TCE TRICHLOROETHYLENE
- TVOC TOTAL VOLATILE ORGANIC COMPOUNDS DETECTED BY HPGC (SEE NOTES)

QUALIFIER DEFINITIONS:

U = MATERIAL WAS ANALYZED FOR, BUT NOT DETECTED ABOVE LEVEL OF ASSOCIATED VALUE. ASSOCIATED VALUE IS EITHER SAMPLE QUANTITATION LIMIT OR DETECTION LIMIT.
 J = ASSOCIATED VALUE IS AN ESTIMATED QUANTITY.

FIGURE 4-1
 FIELD GC ANALYSIS OF HALOGENATED
 VOLATILE ORGANIC COMPOUNDS IN SOIL
 WRAP SUMMARY REPORT
 GENERAL ALUM & CHEMICAL CORP.
 SEARSPORT, MAINE
 SEVEE & MAHER ENGINEERS, INC.

TABLE 4-3

SUMMARY OF ANALYTICAL LABAORATORY ANALYSIS OF SOIL SAMPLES
AT GENERAL ALUM AND CHEMICAL CORPORATION FACILITY
SEARSPORT, MAINE

Compound	Range ($\mu\text{g}/\text{kg}$)	Frequency of Detection	Percent Occurence (%)	Borings Containing VOCs Exceeding 1 mg/kg
TCE	55-3,354	20/73	27	B204,B207
1,2-DCE (Total)	50-65	3/73	4	--
Toluene	55-166	12/26	46	--
Ethylbenzene	246	1/26	4	--
Xylenes	1,046	1/26	4	B205

analyzed. The frequency of detection of the remaining VOCs was less than 5 percent. This latter group included ethylbenzene and xylenes, compounds which were only detected in one boring (B-205) drilled near the abandoned leachfield east of the Carpenter Shop (Area 4).

Laboratory chemical data of site soils compiled from Phases 1 through 3 are shown on Figure 4-2. TCE concentrations in soils ranged from non-detect to 3.4 mg/kg in B-204. The results of the laboratory analysis was generally consistent with the field GC analysis. Laboratory analysis confirmed the presence of TCE in soils exceeding 1 mg/kg in the following areas: (1) the area between the storage tank units north of the Auto Shop, and the railroad tracks (B-207); (2) preheater degreasing area south of the Polymers Building (B-204); and (3) the area adjacent to the access road across from the former ammonia spheres (B-2). Except for TCE and the one detection of total xylenes (1 mg/kg) in B-205, no other VOCs reported in laboratory analysis exceeded 0.25 mg/kg.

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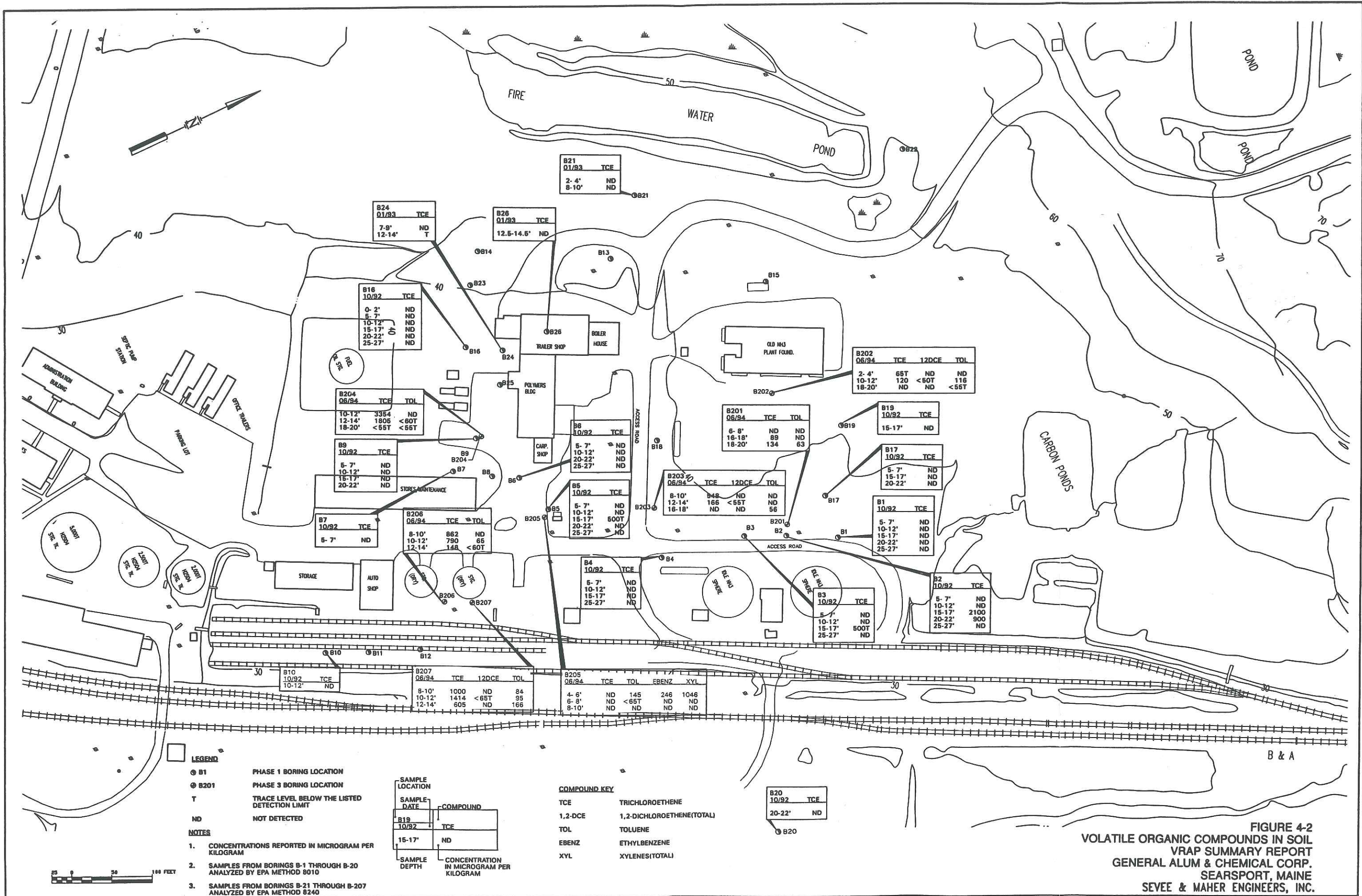


FIGURE 4-2
VOLATILE ORGANIC COMPOUNDS IN SOIL
VRAP SUMMARY REPORT
GENERAL ALUM & CHEMICAL CORP.
SEARSPORT, MAINE
SEVEE & MAHER ENGINEERS, INC.

4.1.4 Comparison of Soil Analyses to Suspected Spill/Disposal Area.

Area 1 - Parts Cleaning Area

VOCs were detected in samples collected from borings B-140, B-206, and B-207 in the parts cleaning area. Laboratory analysis of samples collected from 10 to 12 feet in B-207 detected TCE concentrations of 1.4 mg/kg. In addition to TCE, low levels of toluene and 1,2-dichloroethene were detected in soil samples collected from these borings.

Area 2/3 - Preheater/Degreasing

VOCs were detected in samples collected from borings B-150, B-151, B-152, B-153, and B-204 located in the preheater degreasing area. TCE was detected at concentrations of 3.3 mg/kg in soil samples collected from 10 to 12 feet; and 1.8 mg/kg at 12 to 14 feet in B-204. Trace levels of toluene were also detected at 12 to 20 feet in this boring.

Area 4 - Abandoned Leachfield/Septic

Low levels of toluene, ethylbenzene and xylenes were detected in soil samples collected from 4 to 6 feet in

B-205. No significant levels of TCE were detected in any of the soil samples collected from B-144 or B-205 located in this area.

Area 5 - Heat Exchanger Cleaning Area

Low levels of TCE were detected in soil samples collected from borings B-112 and B-203 drilled in the vicinity of the heat exchanger cleaning area. TCE was detected at a concentration of 0.55 mg/kg in a sample from 8 to 10 feet in B-203; and 0.8 mg/kg in a sample from 8 to 10 feet in B-112.

Area 6 - Burner Cleaning Area

Borings B-107, B-201, and B-202 are located in the burner cleaning area. Low levels of TCE were detected in soil samples collected from each of the borings. TCE concentrations detected were 0.8 mg/kg (2 to 4 feet) in B-107, 0.12 mg/kg at 10 to 12 feet in B-202, and 0.13 mg/kg at 18 to 20 feet in B-201. Low levels of toluene and 1,2-DCE were also detected in B-201 and B-202.

4.2 Groundwater

The results of groundwater sampling conducted during Phase 1 and Phase 3 are summarized on Table 4-4A (detects only) and 4-4B. The distribution of VOCs in the groundwater at the site are presented in Figure 4-3. Ten volatile organic compounds were detected at least once in grab samples of groundwater collected from the 25 temporary wells installed during the Phase 1 investigation. As presented in Table 4-5, TCE was detected more frequently and at higher concentrations than any other VOCs reported. Detectable concentrations of TCE ranged from 0.005 to 6.8 milligrams per liter (mg/l), while being present in 75 percent of the temporary wells sampled. The higher dissolved groundwater concentrations of TCE (approaching 0.5 to 6.8 mg/l) coincided with the areas where the highest soil TCE concentrations values had been detected near B-204 and B-8 and B-9 in the vicinity of the preheater degreaser facility.

By-products of TCE dehalogenation (i.e., 1,1-DCE; 1,2-DCE; 1,1-DCA, and vinyl chloride), and PCE were also detected in the groundwater samples from the site (Figure 4-3). The remaining VOCs detected (i.e., 1,1,1-TCA; 1,1-DCA; methylene chloride; 2-butanone; and chloroform) were found in less than 15 percent of the samples tested, and at concentrations below current State and Federal drinking water standards.

TABLE 4-4A
 DELTA WRAP SUMMARY REPORT
 VOC's - DETECTS ONLY
 GROUNDWATER SAMPLES

REPORT PREPARED: 07/11/95
 FOR: DELTA CHEMICALS INC
 SEARSPORT, ME

LOCATION	PARAMETER NAME	SAMPLE DATE	CONCENTRATION/QUALIFIER	SAMPLE ID	MODIFIER	ANALYTICAL METHOD
B1	(B1 Vinyl Chloride)					
	Vinyl Chloride	09/29/92	23.	GMXB1X0DH	XX	EPA 8010
	trans-1,2-Dichloroethene	09/29/92	60.	GMXB1X0DH	XX	EPA 8010
	Trichloroethene	09/29/92	260.	GMXB1X0DH	XX	EPA 8010
B2	Trichloroethene	09/29/92	2500.	GMXB2X0DI	XX	EPA 8010
B3	trans-1,2-Dichloroethene	09/29/92	35.	GMXB3X0DU	XX	EPA 8010
	Trichloroethene	09/29/92	170.	GMXB3X0DU	XX	EPA 8010
B4	Methylene Chloride	09/29/92	17.	GMXB4X0EO	XX	EPA 8010
	trans-1,2-Dichloroethene	09/29/92	160.	GMXB4X0EO	XX	EPA 8010
	Trichloroethene	09/29/92	570.	GMXB4X0EO	XX	EPA 8010
B5	trans-1,2-Dichloroethene	09/30/92	13.	GMXB5X0E1	XX	EPA 8010
	Trichloroethene	09/30/92	350.	GMXB5X0E1	XX	EPA 8010
B6	trans-1,2-Dichloroethene	10/02/92	41.	GMXB6X0E5	XX	EPA 8010
	Trichloroethene	10/02/92	320.	GMXB6X0E5	XX	EPA 8010
B8	Methylene Chloride	10/01/92	84.	GMXB8X0E3	XX	EPA 8010
	Trichloroethene	10/01/92	2600.	GMXB8X0E3	XX	EPA 8010
B9	Trichloroethene	10/01/92	6800.	GMXB9X0E4	XX	EPA 8010

TABLE 4-4A
 DELTA VRAP SUMMARY REPORT
 VOC's - DETECTS ONLY
 GROUNDWATER SAMPLES

REPORT PREPARED: 07/11/95
 FOR: DELTA CHEMICALS INC
 SEARSPORT, ME

LOCATION	PARAMETER NAME	SAMPLE DATE	CONCENTRATION/QUALIFIER	SAMPLE ID	MODIFIER	ANALYTICAL METHOD
B10	(B9 Trichloroethene)					
	1,1-Dichloroethane	10/02/92	9.	GWB10X0E6	XX	EPA 8010
B11						
	1,1-Dichloroethane	10/02/92	12.	GWB11X0E7	XX	EPA 8010
	trans-1,2-Dichloroethene	10/02/92	7.	GWB11X0E7	XX	EPA 8010
	Trichloroethene	10/02/92	20.	GWB11X0E7	XX	EPA 8010
	Tetrachloroethene	10/02/92	6.	GWB11X0E7	XX	EPA 8010
B12						
	Vinyl Chloride	10/02/92	12.	GWB12X0E8	XX	EPA 8010
	1,1-Dichloroethene	10/02/92	10.	GWB12X0E8	XX	EPA 8010
	1,1-Dichloroethane	10/02/92	9.	GWB12X0E8	XX	EPA 8010
	trans-1,2-Dichloroethene	10/02/92	25.	GWB12X0E8	XX	EPA 8010
	1,1,1-Trichloroethane	10/02/92	53.	GWB12X0E8	XX	EPA 8010
	Trichloroethene	10/02/92	470.	GWB12X0E8	XX	EPA 8010
	Tetrachloroethene	10/02/92	9.	GWB12X0E8	XX	EPA 8010
B13						
	Trichloroethene	10/06/92	7.	GWB13X0E9	XX	EPA 8010
B16						
	1,2-Dichloroethene (total)	10/06/92	12.	GWB16X0EC	XX	EPA 8240
	Trichloroethene	10/06/92	9.	GWB16X0EC	XX	EPA 8240
B17						
	Trichloroethene	10/06/92	180.	GWB17X0ED	XX	EPA 8010
B18						
	Vinyl Chloride	10/09/92	11.	GWB18X0EE	XX	EPA 8010

TABLE 4-4A
 DELTA VRAP SUMMARY REPORT
 VOC'S - DETECTS ONLY
 GROUNDWATER SAMPLES

REPORT PREPARED: 07/11/95
 FOR: DELTA CHEMICALS INC
 SEARSPORT, ME

LOCATION	PARAMETER NAME	SAMPLE DATE	CONCENTRATION/QUALIFIER	SAMPLE ID	MODIFIER	ANALYTICAL METHOD
(B18 Vinyl Chloride)						
Trichloroethene		10/09/92	12.	GWB18X0EE	XX	EPA 8010
B20	Trichloroethene	10/09/92	100.	GWB20X0EF	XX	EPA 8240
B24	1,2-Dichloroethene (total)	01/06/93	18.	GWB24X0EJ	XX	EPA 8240
	Trichloroethene	01/06/93	190.	GWB24X0EJ	XX	EPA 8240
B25	1,2-Dichloroethene (total)	01/06/93	11.	GWB25X0FO	XX	EPA 8240
	Trichloroethene	01/06/93	26.	GWB25X0FO	XX	EPA 8240
B26	Chloroform	01/06/93	22.	GWB26X0F1	XX	EPA 8240
	Trichloroethene	01/06/93	16.	GWB26X0F1	XX	EPA 8240

Report: HITS SWE Number: 0003.3.2 October 1991
 NOTE: CONCENTRATIONS ARE IN µg/L FOR WATER SAMPLES AND µg/kg FOR SOIL SAMPLES
 END REPORT.

SAMPLE LOCATION/ DATE	SAMPLE ID	MTX	BY	METHOD	Dilution	MeCl	MeBr	VCl	EtCl	MeCl2	ACETONE	CS2	11DCE	11DCEA	12DCE	CLFRM
(B1)																
B1																
09/29/92	GWXB1X0DH	XX WATER	SME	EPA 8010		17. U	17. U	23.	17. U	8. U			8. U	8. U		8. U
B10																
10/02/92	GWB10X0E6	XX WATER	SME	EPA 8010		10. U	10. U	10. U	10. U	5. U			5. U	9.		5. U
B11																
10/02/92	GWB11X0E7	XX WATER	SME	EPA 8010		10. U	10. U	10. U	10. U	5. U			5. U	12.		5. U
B12																
10/02/92	GWB12X0E8	XX WATER	SME	EPA 8010		10. U	10. U	12.	10. U	5. U			10.	9.		5. U
B13																
10/06/92	GWB13X0E9	XX WATER	SME	EPA 8010		10. U	10. U	10. U	10. U	5. U			5. U	5. U		5. U
B14																
10/06/92	GWB14X0EA	XX WATER	SME	EPA 8010		10. U	10. U	10. U	10. U	5. U			5. U	5. U		5. U
B15																
10/06/92	GWB15X0EB	XX WATER	SME	EPA 8010		10. U	10. U	10. U	10. U	5. U			5. U	5. U		5. U
B16																
10/06/92	GWB16X0EC	XX WATER	SME	EPA 8240		10. U	10. U	10. U	5. U	10. U	25. U		5. U	5. U	12.	5. U
B17																
10/06/92	GWB17X0ED	XX WATER	SME	EPA 8010		10. U	10. U	10. UT	10. U	5. U			5. U	5. U		5. U
B18																
10/09/92	GWB18X0EE	XX WATER	SME	EPA 8010		10. U	10. U	11.	10. U	5. U			5. U	5. U		5. U
B2																
09/29/92	GWXB2X0DI	XX WATER	SME	EPA 8010		170. U	170. U	170. U	170. U	83. UT			83. U	83. U		83. U
B20																
10/09/92	GWB20X0EF	XX WATER	SME	EPA 8240		10. U	10. U	10. U	5. U	10. U	25. U		5. U	5. U		5. U
B21																
01/06/93	GWB21X0EG	XX WATER	SME	EPA 8240		10. U	10. U	10. U	5. U	10. U	25. U		5. U	5. U		5. U

NOTES:
 WATER CONCENTRATIONS ARE IN µg/L.
 SEE END OF REPORT FOR QUALIFIER DEFINITIONS.
 Report: DCIGIP1A SME Number: 0003.3.2 October 1991

REPORT PREPARED: 07/11/95 FOR: DELTA CHEMICALS INC		TABLE 4-4B DELTA VRAP SUMMARY REPORT VOLATILE ORGANIC COMPOUNDS GROUNDWATER SAMPLES (PART 1 OF 4)										PAGE: 2 SEVEE & MAHER ENGINEERS, INC. 4 BLANCHARD ROAD CUMBERLAND CENTER, ME 04021				
SAMPLE LOCATION/ DATE	SAMPLE ID	MTX	BY	METHOD	Dilution	MeCl	MeBr	VCl	EtCl	MeCl2	ACETONE	CS2	11DCE	11DCEA	12DCE	CLFRM
(B22)																
B22																
01/06/93	GWB22X0EH	XX WATER	SME	EPA 8240		10. U	10. U	10. U	5. U	10. U	25. U	5. U	5. U	5. U	5. U	5. U
B23																
01/06/93	GWB23X0EI	XX WATER	SME	EPA 8240		10. U	10. U	10. U	5. U	10. U	25. U	5. U	5. U	5. U	5. U	5. U
B24																
01/06/93	GWB24X0EJ	XX WATER	SME	EPA 8240		10. U	10. U	10. U	5. U	10. U	25. U	5. U	5. U	5. U	18.	5. U
B25																
01/06/93	GWB25X0FO	XX WATER	SME	EPA 8240		10. U	10. U	10. U	5. U	10. U	25. U	5. U	5. U	5. U	11.	5. U
B26																
01/06/93	GWB26X0F1	XX WATER	SME	EPA 8240		10. U	10. U	10. U	5. U	10. U	25. U	5. U	5. U	5. U	5. U	22.
B3																
09/29/92	GWXB3X0DJ	XX WATER	SME	EPA 8010		13. U	13. U	13. U	13. U	6. U			6. U	6. U		6. U
B4																
09/29/92	GWXB4X0EO	XX WATER	SME	EPA 8010		33. U	33. U	33. UT	33. U	17.			17. U	17. U		17. U
B5																
09/30/92	GWXB5X0E1	XX WATER	SME	EPA 8010		25. U	25. U	25. U	25. U	13. U			13. U	13. U		13. U
B6																
10/02/92	GWXB6X0E5	XX WATER	SME	EPA 8010		25. U	25. U	25. U	25. U	13. U			13. U	13. U		13. U
B7																
10/01/92	GWXB7X0E2	XX WATER	SME	EPA 8010		10. U	10. U	10. U	10. U	5. U			5. U	5. U		5. U
B8																
10/01/92	GWXB8X0E3	XX WATER	SME	EPA 8010		170. U	170. U	170. U	170. U	84.			83. U	83. U		83. U
B9																
10/01/92	GWXB9X0E4	XX WATER	SME	EPA 8010		500. U	500. U	500. U	500. U	250. UT			250. U	250. U		250. U
M2-A																
06/20/94	M2-A	XX WATER	SME	EPA 8240	1.	5. U	5. U	5. U	5. U	5. U	15. U	5. U	5. U	5. U	5. U	5. U
M2-B																

NOTES:
WATER CONCENTRATIONS ARE IN µg/L.
SEE END OF REPORT FOR QUALIFIER DEFINITIONS.
Report: DCIGIPIA SME Number: 0003.3.2 October 1991

REPORT PREPARED: 07/11/85 FOR: DELTA CHEMICALS INC		TABLE 4-4B DELTA VRAP SUMMARY REPORT VOLATILE ORGANIC COMPOUNDS GROUNDWATER SAMPLES (PART 1 OF 4)										PAGE: 3 SEVEE & MAHER ENGINEERS, INC. 4 BLANCHARD ROAD CUMBERLAND CENTER, ME 04021			
SAMPLE LOCATION/ DATE	MTX	BY	METHOD	Dilution	MeCl	MeBr	VC1	EtCl	MeCl2	ACETONE	CS2	11DCE	11DCEA	12DCE	CLFRM
(M2-B) 06/20/84 M2-B	XX	WATER	SNE	EPA 8240	1.	5. U	5. U	5. U	5. U	15. U	5. U	5. U	5. U	5. U	5. U
M2-C 06/20/84 M2-C	XX	WATER	SNE	EPA 8240	1.	5. U	5. U	5. U	5. U	15. U	5. U	5. U	5. U	5. U	5. U

NOTES: WATER CONCENTRATIONS ARE IN µg/L.
SEE END OF REPORT FOR QUALIFIER DEFINITIONS.

Report: DCIGIPIA SME Number: 0003.3.2 October 1991

QUALIFIER DEFINITIONS:

F = SAMPLING LOCATION FROZEN.
D = SAMPLING LOCATION DRY.
I = LOCATION YIELDED INSUFFICIENT SAMPLE FOR ANALYSIS.
U = MATERIAL WAS ANALYZED FOR, BUT NOT DETECTED ABOVE LEVEL OF ASSOCIATED VALUE. ASSOCIATED VALUE IS EITHER SAMPLE QUANTITATION LIMIT OR DETECTION LIMIT.
J = MATERIAL WAS ANALYZED FOR, BUT NOT DETECTED. ASSOCIATED VALUE IS AN ESTIMATED QUANTITY.
UJ = MATERIAL WAS ANALYZED FOR, BUT NOT DETECTED. ASSOCIATED VALUE IS AN ESTIMATED QUANTITY.
B = COMPOUND WAS FOUND IN BLANK AS WELL AS IN SAMPLE.
T = COMPOUND REPORTED AS TRACE.
= BLANK FIELD INDICATES COMPOUND WAS NOT TESTED FOR.

END REPORT.

REPORT PREPARED: 07/11/95
 FOR: DELTA CHEMICALS INC

TABLE 4-4B
 DELTA VRAP SUMMARY REPORT
 VOLATILE ORGANIC COMPOUNDS
 GROUNDWATER SAMPLES (PART 2 OF 4)

PAGE: 1
 SEVEE & MAHER ENGINEERS, INC.
 4 BLANCHARD ROAD
 CUMBERLAND CENTER, ME 04021

SAMPLE LOCATION/ DATE	SAMPLE ID	12DCEA	MEK	111TCEA	CC14	VACT	MeBrC12	12DCPA	c13DCP	TCE	MeBr2Cl	112TCEA	2CJETVETH	12DCB	13DCB	14DCB
B1																
09/29/92	GNXB1XODH XX	8. U		8. U	8. U		8. U	8. U	8. U	260.	8. U	8. U	8. U	8. U	8. U	8. U
B10																
10/02/92	GWB10XOE6 XX	5. U		5. UT	5. U		5. U	5. U	5. U	5. UT	5. U	5. U	5. U	5. U	5. U	5. U
B11																
10/02/92	GWB11XOE7 XX	5. U		5. U	5. U		5. U	5. U	5. U	20.	5. U	5. U	5. U	5. U	5. U	5. U
B12																
10/02/92	GWB12XOE8 XX	5. U		53.	5. U		5. U	5. U	5. U	470.	5. U	5. U	5. U	5. U	5. U	5. U
B13																
10/06/92	GWB13XOE9 XX	5. U		5. U	5. U		5. U	5. U	5. U	7.	5. U	5. U	5. U	5. U	5. U	5. U
B14																
10/06/92	GWB14XOE A XX	5. U		5. U	5. U		5. U	5. U	5. U	5. U	5. U	5. U	5. U	5. U	5. U	5. U
B15																
10/06/92	GWB15XOE B XX	5. U		5. U	5. U		5. U	5. U	5. U	5. UT	5. U	5. U	5. U	5. U	5. U	5. U
B16																
10/06/92	GWB16XOE C XX	5. U	25. UT	5. U	5. U	10. U	5. U	5. U	5. U	9.	5. U	5. U	5. U	5. U	5. U	5. U
B17																
10/06/92	GWB17XOE D XX	5. U		5. U	5. U		5. U	5. U	5. U	180.	5. U	5. U	5. U	5. U	5. U	5. U
B18																
10/09/92	GWB18XOE E XX	5. U		5. U	5. U		5. U	5. U	5. U	12.	5. U	5. U	5. U	5. U	5. U	5. U
B2																
09/29/92	GNXB2XODI XX	83. U		83. U	83. U		83. U	83. U	83. U	2500.	83. U	83. U	83. U	83. U	83. U	83. U
B20																
10/09/92	GWB20XOE F XX	5. U	25. U	5. U	5. U	10. U	5. U	5. U	5. U	100.	5. U	5. U	5. U	5. U	5. U	5. U
B21																
01/05/93	GWB21XOE G XX	5. U	25. U	5. U	5. U	10. U	5. U	5. U	5. U	5. U	5. U	5. U	5. U	5. U	5. U	5. U

NOTES:
 WATER CONCENTRATIONS ARE IN µg/L.
 SEE END OF REPORT FOR QUALIFIER DEFINITIONS.
 Report: DCIGIP1B SIME Number: 0003.3.2 October 1991

REPORT PREPARED: 07/11/95 FOR: DELTA CHEMICALS INC		TABLE 4-4B DELTA VRAP SUMMARY REPORT VOLATILE ORGANIC COMPOUNDS GROUNDWATER SAMPLES (PART 2 OF 4)										PAGE: 2 SEVEE & MAHER ENGINEERS, INC. 4 BLANCHARD ROAD CUMBERLAND CENTER, ME 04021				
SAMPLE LOCATION/ DATE	SAMPLE ID	12DCEA	MEK	1111TCEA	CC14	VACT	MeBr-C12	12DCPA	c13DCP	TCE	MeBr-C1	112TCEA	2C1EtVETH	12DCB	13DCB	14DCB
(B22)																
B22																
01/06/93	GWB22X0EH XX	5. U	25. U	5. U	5. U	10. U	5. U	5. U	5. U	5. U	5. U	5. U				
B23																
01/06/93	GWB23X0EI XX	5. U	25. U	5. U	5. U	10. U	5. U	5. U	5. U	5. U	5. U	5. U				
B24																
01/06/93	GWB24X0EJ XX	5. U	25. U	5. U	5. U	10. U	5. U	5. U	5. U	190.	5. U	5. U				
B25																
01/06/93	GWB25X0FO XX	5. U	25. U	5. U	5. U	10. U	5. U	5. U	5. U	26.	5. U	5. U				
B26																
01/06/93	GWB26X0F1 XX	5. U	25. U	5. U	5. U	10. U	5. U	5. U	5. U	16.	5. U	5. U				
B3																
09/29/92	GMXB3X0DJ XX	6. U		6. U	6. U	6. U	6. U	6. U	6. U	170.	6. U	6. U	6. U	6. U	6. U	6. U
B4																
09/29/92	GMXB4X0EO XX	17. U		17. U	17. U	17. U	17. U	17. U	17. U	570.	17. U	17. U	17. U	17. U	17. U	17. U
B5																
09/30/92	GMXB5X0E1 XX	13. U		13. U	13. U	13. U	13. U	13. U	13. U	350.	13. U	13. U	13. U	13. U	13. U	13. U
B6																
10/02/92	GMXB6X0E5 XX	13. U		13. U	13. U	13. U	13. U	13. U	13. U	320.	13. U	13. U	13. U	13. U	13. U	13. U
B7																
10/01/92	GMXB7X0E2 XX	5. U		5. U	5. U	5. U	5. U	5. U	5. U	5. UT	5. U	5. U	5. U	5. U	5. U	5. U
B8																
10/01/92	GMXB8X0E3 XX	83. U		83. U	83. U	83. U	83. U	83. U	83. U	2600.	83. U	83. U	83. U	83. U	83. U	83. U
B9																
10/01/92	GMXB9X0E4 XX	250. U		250. U	250. U	250. U	250. U	250. U	250. U	6800.	250. U	250. U	250. U	250. U	250. U	250. U
M2-A																
06/20/94	M2-A XX	5. U	10. U	5. U	5. U	15. U	5. U	5. U	5. U	5. U	5. U	5. U	15. U	5. U	5. U	5. U
M2-B																

NOTES:
WATER CONCENTRATIONS ARE IN µg/L.
SEE END OF REPORT FOR QUALIFIER DEFINITIONS.
Report: DCIGIP1B SME Number: 0003.3.2 October 1991

REPORT PREPARED: 07/11/95 FOR: DELTA CHEMICALS INC		TABLE 4-4B DELTA VRAP SUMMARY REPORT VOLATILE ORGANIC COMPOUNDS GROUNDWATER SAMPLES (PART 2 OF 4)										PAGE: 3 SEVEE & MAHER ENGINEERS, INC. 4 BLANCHARD ROAD CUMBERLAND CENTER, ME 04021				
SAMPLE LOCATION/ DATE	SAMPLE ID	12DCEA	MEK	111TCEA	CC14	VACT	MeBr-C12	12DCEA	c13DCP	TCE	MeBr2Cl	112TCEA	2ClEtVETH	12DCB	13DCB	14DCB
(M2-B) 06/20/94	XX	5. U	10. U	5. U	5. U	15. U	5. U	5. U	5. U	5. U	5. U	5. U	15. U	5. U	5. U	5. U
M2-C 06/20/94	XX	5. U	10. U	5. U	5. U	15. U	5. U	5. U	5. U	5. U	5. U	5. U	15. U	5. U	5. U	5. U

NOTES: WATER CONCENTRATIONS ARE IN µg/L.
SEE END OF REPORT FOR QUALIFIER DEFINITIONS.

Report: DCIGIP1B SNE Number: 0003.3.2 October 1991

QUALIFIER DEFINITIONS:

- F = SAMPLING LOCATION FROZEN.
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- J = ASSOCIATED VALUE IS AN ESTIMATED QUANTITY.
- LU = MATERIAL WAS ANALYZED FOR, BUT NOT DETECTED. ASSOCIATED VALUE IS AN ESTIMATED QUANTITY.
- B = COMPOUND WAS FOUND IN BLANK AS WELL AS IN SAMPLE.
- T = COMPOUND REPORTED AS TRACE.
- = BLANK FIELD INDICATES COMPOUND WAS NOT TESTED FOR.

END REPORT.

REPORT PREPARED: 07/11/95 FOR: DELTA CHEMICALS INC		TABLE 4-4B DELTA VAPOR SUMMARY REPORT VOLATILE ORGANIC COMPOUNDS GROUNDWATER SAMPLES (PART 8 OF 4)										PAGE: 1 SEVEE & MAHER ENGINEERS, INC. 4 BLANCHARD ROAD CUMBERLAND CENTER, ME 04021			
SAMPLE LOCATION/ DATE	SAMPLE ID	BENZENE	1,1,1-DCP	BF	MIBK	MBK	PCE	1,1,2,2-TCOA	TOLUENE	C1BENZ	EtBENZ	STYRENE	Total Xylene	m-Xylene	o,p-Xylene
(B1)															
B1															
09/29/92	GWXB1X0DH XX		8. U	8. U			8. U	8. U		8. U					
B10															
10/02/92	GWB10X0E6 XX		5. U	5. U			5. U	5. U		5. U					
B11															
10/02/92	GWB11X0E7 XX		5. U	5. U			6.	5. U		5. U					
B12															
10/02/92	GWB12X0E8 XX		5. U	5. U			9.	5. U		5. U					
B13															
10/06/92	GWB13X0E9 XX		5. U	5. U			5. U	5. U		5. U					
B14															
10/06/92	GWB14X0EA XX		5. U	5. U			5. U	5. U		5. U					
B15															
10/06/92	GWB15X0EB XX		5. U	5. U			5. U	5. U		5. U					
B16															
10/06/92	GWB16X0EC XX	5. U	5. U	5. U	25. U	25. U	5. U	5. U	5. U	5. U	5. U	5. U	5. U	5. U	5. U
B17															
10/06/92	GWB17X0ED XX		5. U	5. U			5. U	5. U		5. U					
B18															
10/09/92	GWB18X0EE XX		5. U	5. U			5. U	5. U		5. U					
B2															
09/29/92	GWXB2X0DI XX		83. U	83. U			83. U	83. U		83. U					
B20															
10/09/92	GWB20X0EF XX	5. U	5. U	5. U	25. U	25. U	5. U	5. U	5. U	5. U	5. U	5. U	5. U	5. U	5. U
B21															
01/06/93	GWB21X0EG XX	5. U	5. U	5. U	25. U	25. U	5. U	5. U	5. U	5. U	5. U	5. U	5. U	5. U	5. U

NOTES:
WATER CONCENTRATIONS ARE IN µg/L
SEE END OF TABLE FOR QUALIFIER DEFINITIONS.
Report: DCIG1P1C SME Number: 0003.3.2 October 1991

TABLE 4-4B
 DELTA VRAP SUMMARY REPORT
 VOLATILE ORGANIC COMPOUNDS
 GROUNDWATER SAMPLES (PART 3 OF 4)

REPORT PREPARED: 07/11/95
 FOR: DELTA CHEMICALS INC

SAMPLE LOCATION/ DATE	SAMPLE ID	BENZENE	t13DCP	BF	MIBK	MBK	PCE	1122TCEA	TOLUENE	C1BENZ	E2BENZ	STYRENE	Total Xylene	m-Xylene	o,p-Xylene
(B22)															
B22															
01/06/93	GWB22X0EH XX	5. U	5. U	5. U	25. U	25. U	5. U	5. U	5. U	5. U	5. U	5. U	5. U	5. U	5. U
B23															
01/06/93	GWB23X0EI XX	5. U	5. U	5. U	25. U	25. U	5. U	5. U	5. U	5. U	5. U	5. U	5. U	5. U	5. U
B24															
01/06/93	GWB24X0EJ XX	5. U	5. U	5. U	25. U	25. U	5. UT	5. U	5. U	5. U	5. U	5. U	5. U	5. U	5. U
B25															
01/06/93	GWB25X0F0 XX	5. U	5. U	5. U	25. U	25. U	5. U	5. U	5. U	5. U	5. U	5. U	5. U	5. U	5. U
B26															
01/06/93	GWB26X0F1 XX	5. U	5. U	5. U	25. U	25. U	5. UT	5. U	5. U	5. U	5. U	5. U	5. U	5. U	5. U
B3															
09/29/92	GWXB3X0DJ XX	6. U	6. U	6. U	6. U	6. U	6. U	6. U	6. U	6. U	6. U	6. U	6. U	6. U	6. U
B4															
09/29/92	GWXB4X0E0 XX	17. U	17. U	17. U	17. U	17. U	17. U	17. U	17. U	17. U	17. U	17. U	17. U	17. U	17. U
B5															
09/30/92	GWXB5X0E1 XX	13. U	13. U	13. U	13. U	13. U	13. U	13. U	13. U	13. U	13. U	13. U	13. U	13. U	13. U
B6															
10/02/92	GWXB6X0E5 XX	13. U	13. U	13. U	13. U	13. U	13. U	13. U	13. U	13. U	13. U	13. U	13. U	13. U	13. U
B7															
10/01/92	GWXB7X0E2 XX	5. U	5. U	5. U	5. U	5. U	5. U	5. U	5. U	5. U	5. U	5. U	5. U	5. U	5. U
B8															
10/01/92	GWXB8X0E3 XX	83. U	83. U	83. U	83. U	83. U	83. U	83. U	83. U	83. U	83. U	83. U	83. U	83. U	83. U
B9															
10/01/92	GWXB9X0E4 XX	250. U	250. U	250. U	250. U	250. U	250. U	250. U	250. U	250. U	250. U	250. U	250. U	250. U	250. U
M2-A															
06/20/94	M2-A XX	5. U	5. U	5. U	10. U	10. U	5. U	5. U	5. U	5. U	5. U	5. U	5. U	5. U	5. U
M2-B															

NOTES: WATER CONCENTRATIONS ARE IN µg/L
 SEE END OF TABLE FOR QUALIFIER DEFINITIONS.

SAMPLE LOCATION/ DATE	SAMPLE ID	BENZENE	t13DCP	BF	MIBK	MBK	PCE	1122TCEA	TOLUENE	C1BENZ	EtBENZ	STYRENE	Total Xylene	m-Xylene	o,p-Xylene
06/20/84 (M2-B)	M2-B	5. U	5. U	5. U	10. U	10. U	5. U	5. U	5. U	5. U	5. U	5. U	5. U	5. U	5. U
06/20/84 (M2-C)	M2-C	5. U	5. U	5. U	10. U	10. U	5. U	5. U	5. U	5. U	5. U	5. U	5. U	5. U	5. U

NOTES: WATER CONCENTRATIONS ARE IN µg/L.
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Report: DCIGIP1C SNE Number: 0003.3.2 October 1991

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END REPORT.

TABLE 4-4B
 DELTA VRAP SUMMARY REPORT
 VOLATILE ORGANIC COMPOUNDS
 GROUNDWATER SAMPLES (PART 4 OF 4)

REPORT PREPARED: 07/11/95
 FOR: DELTA CHEMICALS INC

SAMPLE LOCATION/ DATE	SAMPLE ID	TCFNG	THF	DCDFME	MTBE
(B1)					
B1	09/29/92 GWXB1XODH XX	8. U			
B10	10/02/92 GWB10X0E6 XX	5. U			
B11	10/02/92 GWB11X0E7 XX	5. U			
B12	10/02/92 GWB12X0E8 XX	5. U			
B13	10/06/92 GWB13X0E9 XX	5. U			
B14	10/06/92 GWB14X0EA XX	5. U			
B15	10/06/92 GWB15X0EB XX	5. U			
B16	10/06/92 GWB16X0EC XX	5. U			
B17	10/06/92 GWB17X0ED XX	5. U			
B18	10/09/92 GWB18X0EE XX	5. U			
B2	09/29/92 GWXB2X0DI XX	83. U			
B20	10/09/92 GWB20X0EF XX	5. U			
B21	01/06/93 GWB21X0EG XX	5. U			

NOTES:
 WATER CONCENTRATIONS ARE IN µg/L.
 SEE END OF TABLE FOR QUALIFIER DEFINITIONS.

TABLE 4-4B
 DELTA VRAP SUMMARY REPORT
 VOLATILE ORGANIC COMPOUNDS
 GROUNDWATER SAMPLES (PART 4 OF 4)

REPORT PREPARED: 07/11/95
 FOR: DELTA CHEMICALS INC

SAMPLE LOCATION/ DATE	SAMPLE ID	TCFMG	THF	DODFME	MTBE
(B22)					
B22					
01/06/93	GWB22X0EH XX	5. U			
B23					
01/06/93	GWB23X0EI XX	5. U			
B24					
01/06/93	GWB24X0EJ XX	5. U			
B25					
01/06/93	GWB25X0F0 XX	5. U			
B26					
01/06/93	GWB26X0F1 XX	5. U			
B3					
09/29/92	GWXB3X0DJ XX	6. U			
B4					
09/29/92	GWXB4X0E0 XX	17. U			
B5					
09/30/92	GWXB5X0E1 XX	13. U			
B6					
10/02/92	GWXB6X0E5 XX	13. U			
B7					
10/01/92	GWXB7X0E2 XX	5. U			
B8					
10/01/92	GWXB8X0E3 XX	83. U			
B9					
10/01/92	GWXB9X0E4 XX	250. U			
M2 - A					
06/20/94	M2 - A XX	5. U	15. U	5. U	5. U
M2 - B					

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 SEE END OF TABLE FOR QUALIFIER DEFINITIONS.

SAMPLE LOCATION/ DATE	SAMPLE ID	TCFMG	THF	DCDFME	MTBE
(M2-B)					
06/20/94	M2-B	5. U	15. U	5. U	5. U
M2-C					
06/20/94	M2-C	5. U	15. U	5. U	5. U

NOTES:
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Report: DCIGIP1C SIME Number: 0003.3.2 October 1991

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END REPORT.